

Carbon Nanotubes--the Route Toward Applications

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 3 | Synthesis and structure of 1-methyl-2,6-bis(electron-withdrawing group)-substituted selenabenzenes. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 529-536. | 1.3 | 6 |
| 4 | Synthesis and magnetic behavior of an array of nickel-filled carbon nanotubes. Applied Physics Letters, 2002, 81, 4592-4594. | 1.5 | 91 |
| 5 | Vibrational properties of single-wall nanotubes and monolayers of hexagonal BN. Physical Review B, 2002, 66, . | 1.1 | 114 |
| 6 | ENGINEERING CARBON NANOTUBES VIA TEMPLATE GROWTH. International Journal of Nanoscience, 2002, 01, 205-212. | 0.4 | 12 |
| 7 | Carbon Nanotubes Grown on Metallic Wires by Cold Plasma Technique. Materials Research Society Symposia Proceedings, 2002, 737, 503. | 0.1 | 0 |
| 8 | A Study of Hydrogen Adsorption in Pretreated Nanocarbon. Materials Research Society Symposia Proceedings, 2002, 740, 1. | 0.1 | 0 |
| 9 | Synthesis, Structure, and Properties of PBO/SWNT Composites&. Macromolecules, 2002, 35, 9039-9043. | 2.2 | 455 |
| 10 | Synthesis of high purity single-walled carbon nanotubes in high yield. Chemical Communications, 2002, , 2666-2667. | 2.2 | 64 |
| 11 | Tribological Behavior of Carbon-Nanotube-Filled PTFE Composites. Tribology Letters, 2003, 15, 275-278. | 1.2 | 257 |
| 12 | High-yield production of quasi-aligned carbon nanotubes by catalytic decomposition of benzene. Nanotechnology, 2003, 14, 733-737. | 1.3 | 32 |
| 13 | Optical properties of the ZnO nanotubes synthesized via vapor phase growth. Applied Physics Letters, 2003, 83, 1689-1691. | 1.5 | 616 |
| 14 | Composite electrodes made of Pt nanoparticles deposited on carbon nanotubes grown on fuel cell backings. Chemical Physics Letters, 2003, 379, 99-104. | 1.2 | 206 |
| 15 | Preparation of nanocrystalline Co3O4 and its properties as supercapacitors. Science Bulletin, 2003, 48, 1212-1215. | 1.7 | 7 |
| 16 | Precise laser ablation processing of black widow spider silk. Applied Physics A: Materials Science and Processing, 2003, 77, 353-357. | 1.1 | 8 |
| 17 | Decoration of multi-walled carbon nanotubes with noble- and transition-metal clusters and formation of CNT?CNT networks. Applied Physics A: Materials Science and Processing, 2003, 77, 735-738. | 1.1 | 39 |
| 18 | How safe are nanotubes and other nanofilaments?. Materials Research Innovations, 2003, 7, 192-194. | 1.0 | 43 |
| 19 | Growth of carbon nanotubes with metal-loading mesoporous molecular sieves catalysts. Materials Chemistry and Physics, 2003, 82, 440-443. | 2.0 | 20 |
| 20 | A Two-Step Route to Self-Assembly of CdS Nanotubes via Electrodeposition and Dissolution. European Journal of Inorganic Chemistry, 2003, 2003, 1794-1797. | 1.0 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 21 | Stable and Sensitive Electrochemical Detection of Phenolic Compounds at Carbon Nanotube Modified Glassy Carbon Electrodes. <i>Electroanalysis</i> , 2003, 15, 1830-1834. | 1.5 | 100 |
| 22 | Recent Updates of Chemically Modified Electrodes in Analytical Chemistry. <i>Electroanalysis</i> , 2003, 15, 1073-1087. | 1.5 | 298 |
| 23 | Extreme Changes in the Electrical Resistance of Titania Nanotubes with Hydrogen Exposure. <i>Advanced Materials</i> , 2003, 15, 624-627. | 11.1 | 662 |
| 24 | Carbon-Nanotube-Templated Assembly of Rare-Earth Phthalocyanine Nanowires. <i>Advanced Materials</i> , 2003, 15, 909-913. | 11.1 | 83 |
| 25 | Electrospinning of Continuous Carbon Nanotube-Filled Nanofiber Yarns. <i>Advanced Materials</i> , 2003, 15, 1161-1165. | 11.1 | 716 |
| 26 | Efficient Field Emission from Highly Aligned, Graphitic Nanotubes Embedded with Gold Nanoparticles. <i>Advanced Materials</i> , 2003, 15, 1618-1622. | 11.1 | 68 |
| 28 | Rational Chemical Strategies for Carbon Nanotube Functionalization. <i>Chemistry - A European Journal</i> , 2003, 9, 1898-1908. | 1.7 | 299 |
| 29 | Paradigms, citations, and maps of science: A personal history. <i>Journal of the Association for Information Science and Technology</i> , 2003, 54, 394-399. | 2.6 | 137 |
| 30 | Near-Quantitative Solid-State Synthesis of Carbon Nanotubes from Homogeneous Diphenylethynecobalt and -Nickel Complexes. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4379-4383. | 7.2 | 66 |
| 31 | Carbon nanotubes for microelectronics: status and future prospects. <i>Materials Science and Engineering C</i> , 2003, 23, 663-669. | 3.8 | 80 |
| 32 | Determination of mechanical properties of carbon nanotubes and vertically aligned carbon nanotube forests using nanoindentation. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 2213-2237. | 2.3 | 215 |
| 33 | Characterization of the surfaces of single-walled carbon nanotubes using alcohols and hydrocarbons: a pulse adsorption technique. <i>Carbon</i> , 2003, 41, 1231-1239. | 5.4 | 34 |
| 34 | Luminescence from multi-walled carbon nanotubes and the Eu(III)/multi-walled carbon nanotube composite. <i>Carbon</i> , 2003, 41, 1685-1687. | 5.4 | 26 |
| 35 | Sensitivity of single wall carbon nanotubes to oxidative processing: structural modification, intercalation and functionalisation. <i>Carbon</i> , 2003, 41, 2247-2256. | 5.4 | 333 |
| 36 | A treatment method to give separated multi-walled carbon nanotubes with high purity, high crystallization and a large aspect ratio. <i>Carbon</i> , 2003, 41, 2939-2948. | 5.4 | 216 |
| 37 | Towards the production of large-scale aligned carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 372, 860-865. | 1.2 | 114 |
| 38 | Quantum chemistry study on the open end of single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 373, 308-313. | 1.2 | 30 |
| 39 | Bicrystalline zinc oxide nanowires. <i>Chemical Physics Letters</i> , 2003, 375, 96-101. | 1.2 | 137 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 40 | Morphology of dispersed carbon single-walled nanotubes. <i>Chemical Physics Letters</i> , 2003, 375, 369-375. | 1.2 | 131 |
| 41 | A simple model for thermal conductivity of carbon nanotube-based composites. <i>Chemical Physics Letters</i> , 2003, 375, 666-669. | 1.2 | 431 |
| 42 | Raman study on double-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 376, 753-757. | 1.2 | 58 |
| 43 | C60 modified single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 377, 32-36. | 1.2 | 59 |
| 44 | Axially compressed buckling of pressured multiwall carbon nanotubes. <i>International Journal of Solids and Structures</i> , 2003, 40, 3893-3911. | 1.3 | 146 |
| 45 | Vaccine Delivery by Carbon Nanotubes. <i>Chemistry and Biology</i> , 2003, 10, 897-898. | 6.2 | 50 |
| 46 | Crystallization and orientation studies in polypropylene/single wall carbon nanotube composite. <i>Polymer</i> , 2003, 44, 2373-2377. | 1.8 | 694 |
| 47 | A review on polymer nanofibers by electrospinning and their applications in nanocomposites. <i>Composites Science and Technology</i> , 2003, 63, 2223-2253. | 3.8 | 6,630 |
| 48 | Nanomachines based on carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 313, 112-121. | 0.9 | 89 |
| 49 | Dielectric behavior of novel three-phase MWNTs/BaTiO ₃ /PVDF composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 103, 140-144. | 1.7 | 116 |
| 50 | Carbon nanotubes paste electrode. <i>Electrochemistry Communications</i> , 2003, 5, 689-694. | 2.3 | 430 |
| 51 | Interaction-mediated growth of carbon nanotubes on acicular silica-coated \pm -Fe catalyst by chemical vapor deposition. <i>Particuology: Science and Technology of Particles</i> , 2003, 1, 253-257. | 0.4 | 1 |
| 52 | Miniaturized gas ionization sensors using carbon nanotubes. <i>Nature</i> , 2003, 424, 171-174. | 13.7 | 929 |
| 53 | DNA-assisted dispersion and separation of carbon nanotubes. <i>Nature Materials</i> , 2003, 2, 338-342. | 13.3 | 2,573 |
| 54 | Nanoporous carbide-derived carbon with tunable pore size. <i>Nature Materials</i> , 2003, 2, 591-594. | 13.3 | 653 |
| 55 | Surface charge model of a carbon nanotube: self-consistent field from Thomas-Fermi theory. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 1285-1288. | 1.9 | 9 |
| 56 | Toughening high performance ultrahigh molecular weight polyethylene using multiwalled carbon nanotubes. <i>Polymer</i> , 2003, 44, 5643-5654. | 1.8 | 433 |
| 57 | Ways towards the scaleable integration of carbon nanotubes into silicon based technology. <i>Diamond and Related Materials</i> , 2003, 13, 354-354. | 1.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 58 | Controlled low-temperature growth of carbon nanofibres by plasma deposition. <i>New Journal of Physics</i> , 2003, 5, 153-153. | 1.2 | 22 |
| 59 | Structure determination of individual single-wall carbon nanotubes by nanoarea electron diffraction. <i>Applied Physics Letters</i> , 2003, 82, 2703-2705. | 1.5 | 137 |
| 60 | Amphiphobic Carbon Nanotubes as Macroemulsion Surfactants. <i>Langmuir</i> , 2003, 19, 3091-3093. | 1.6 | 122 |
| 61 | Nanopillar Arrays of Glassy Carbon by Anodic Aluminum Oxide Nanoporous Templates. <i>Nano Letters</i> , 2003, 3, 439-442. | 4.5 | 78 |
| 62 | Noncovalent Functionalization of Graphite and Carbon Nanotubes with Polymer Multilayers and Gold Nanoparticles. <i>Nano Letters</i> , 2003, 3, 1437-1440. | 4.5 | 170 |
| 63 | Preparation of highly pure double-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2003, 13, 1340. | 6.7 | 70 |
| 64 | Growth of Isolated Carbon Nanotubes with Lithographically Defined Diameter and Location. <i>Nano Letters</i> , 2003, 3, 257-259. | 4.5 | 75 |
| 65 | Sidewall Amino-Functionalization of Single-Walled Carbon Nanotubes through Fluorination and Subsequent Reactions with Terminal Diamines. <i>Nano Letters</i> , 2003, 3, 331-336. | 4.5 | 335 |
| 66 | Magnetism of Transition-Metal/Carbon-Nanotube Hybrid Structures. <i>Physical Review Letters</i> , 2003, 90, 257203. | 2.9 | 198 |
| 67 | Silica gel fabrication of [60]fullerene aggregates and carbon nanotubes utilizing the amphiphilic nature of poly(N-vinylpyrrolidone) as a "glue". <i>Journal of Materials Chemistry</i> , 2003, 13, 2145-2149. | 6.7 | 20 |
| 68 | Nucleation and growth of carbon onions synthesized by ion implantation at high temperatures. <i>Physical Review B</i> , 2003, 68, . | 1.1 | 15 |
| 69 | Carbon Nanotube/Teflon Composite Electrochemical Sensors and Biosensors. <i>Analytical Chemistry</i> , 2003, 75, 2075-2079. | 3.2 | 824 |
| 70 | Direct Observation of the Mechanical Properties of Single-Walled Carbon Nanotubes and Their Junctions at the Atomic Level. <i>Nano Letters</i> , 2003, 3, 751-755. | 4.5 | 148 |
| 71 | Oscillatory Behavior of Double-Walled Nanotubes under Extension: A Simple Nanoscale Damped Spring. <i>Nano Letters</i> , 2003, 3, 1001-1005. | 4.5 | 171 |
| 72 | The Effects of O ₂ Adsorbates on Field Emission Properties of Single-Wall Carbon Nanotubes: A Density Functional Theory Study. <i>Nano Letters</i> , 2003, 3, 1209-1214. | 4.5 | 35 |
| 73 | A Reagentless Amperometric Alcohol Biosensor Based on Carbon-Nanotube/Teflon Composite Electrodes. <i>Analytical Letters</i> , 2003, 36, 2041-2048. | 1.0 | 48 |
| 74 | Synthesis, Characterization, and Manipulation of Helical SiO ₂ Nanosprings. <i>Nano Letters</i> , 2003, 3, 577-580. | 4.5 | 198 |
| 75 | Assignment of the Fine Structure in the Optical Absorption Spectra of Soluble Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12082-12087. | 1.2 | 56 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 76 | Fabrication of Rare-Earth Biphthalocyanine Encapsulated by Carbon Nanotubes Using a Capillary Filling Method. <i>Chemistry of Materials</i> , 2003, 15, 3247-3249. | 3.2 | 28 |
| 77 | Microstructure and Growth Model of Periodic Spindle-Unit BN Nanotubes by Nitriding Fe-B Nanoparticles with Nitrogen/Ammonia Mixture. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11316-11320. | 1.2 | 38 |
| 78 | Carbon Nanotube Fiber Microelectrodes. <i>Journal of the American Chemical Society</i> , 2003, 125, 14706-14707. | 6.6 | 173 |
| 79 | Carbon Fiber Nanoelectrodes Modified by Single-Walled Carbon Nanotubes. <i>Analytical Chemistry</i> , 2003, 75, 6341-6345. | 3.2 | 139 |
| 80 | The carbon nanocosmos: novel materials for the twenty-first century. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 2789-2806. | 1.6 | 44 |
| 81 | Superhydrophobic Carbon Nanotube Forests. <i>Nano Letters</i> , 2003, 3, 1701-1705. | 4.5 | 1,527 |
| 82 | Solubilization of Carbon Nanotubes by Nafion toward the Preparation of Amperometric Biosensors. <i>Journal of the American Chemical Society</i> , 2003, 125, 2408-2409. | 6.6 | 1,365 |
| 83 | Carbon-nanotube-modified glassy carbon electrodes for amplified label-free electrochemical detection of DNA hybridization. <i>Analyst, The</i> , 2003, 128, 912. | 1.7 | 308 |
| 84 | Peer Reviewed: Environmental Technologies at the Nanoscale. <i>Environmental Science & Technology</i> , 2003, 37, 102A-108A. | 4.6 | 506 |
| 85 | Nanotube devices fabricated in a nano laboratory. , 0, , . | | 4 |
| 86 | Poly(vinyl alcohol)/SWNT Composite Film. <i>Nano Letters</i> , 2003, 3, 1285-1288. | 4.5 | 450 |
| 87 | Optical and Loss Spectra of Carbon Nanotubes: Depolarization Effects and Intertube Interactions. <i>Physical Review Letters</i> , 2003, 91, 046402. | 2.9 | 174 |
| 88 | Assembly of nanodevices with carbon nanotubes through nanorobotic manipulations. <i>Proceedings of the IEEE</i> , 2003, 9, 1803-1818. | 16.4 | 293 |
| 89 | Gelation in carbon nanotube/polymer composites. <i>Polymer</i> , 2003, 44, 7529-7532. | 1.8 | 109 |
| 90 | Molecular Ordering of Organic Molten Salts Triggered by Single-Walled Carbon Nanotubes. <i>Science</i> , 2003, 300, 2072-2074. | 6.0 | 1,288 |
| 91 | MATERIALS SCIENCE: Muscles Made from Metal. <i>Science</i> , 2003, 300, 268-269. | 6.0 | 54 |
| 92 | Solvent-Free Functionalization of Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2003, 125, 1156-1157. | 6.6 | 509 |
| 93 | Electrochemical determination of 8-azaguanine in human urine at a multi-carbon nanotubes modified electrode. <i>Microchemical Journal</i> , 2003, , . | 2.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 94 | Ink-jet printing of nanoparticle catalyst for site-selective carbon nanotube growth. <i>Applied Physics Letters</i> , 2003, 82, 811-813. | 1.5 | 84 |
| 95 | Hierarchical Pore Structure and Wetting Properties of Single-Wall Carbon Nanotube Fibers. <i>Nano Letters</i> , 2003, 3, 419-423. | 4.5 | 70 |
| 96 | 22â€fâ€fFullerenes. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2003, 99, 431-451. | 0.8 | 5 |
| 97 | Nanotubes in Microwave Fields:Â Light Emission, Intense Heat, Outgassing, and Reconstruction. <i>Chemistry of Materials</i> , 2003, 15, 3969-3970. | 3.2 | 165 |
| 98 | Pressure-induced polygonization of filled multiwall carbon nanotube. , 0, , . | | 0 |
| 99 | New Nanomaterials for Lithium Battery. , 2003, , . | | 1 |
| 100 | Carbon Nanotube Technology in Aircraft Structures and the Potential Impact on Aviation. , 2003, , . | | 1 |
| 101 | Comparative theoretical study of single-wall carbon and boron-nitride nanotubes. <i>Physical Review B</i> , 2003, 67, . | 1.1 | 142 |
| 102 | Science and Technology of the Twenty-First Century: Synthesis, Properties, and Applications of Carbon Nanotubes. <i>Annual Review of Materials Research</i> , 2003, 33, 419-501. | 4.3 | 871 |
| 103 | Polymer Nanocomposites and Their Applications. <i>HKIE Transactions</i> , 2003, 10, 67-73. | 1.9 | 9 |
| 104 | Synthesis and Characterization of Faceted Hexagonal Aluminum Nitride Nanotubes. <i>Journal of the American Chemical Society</i> , 2003, 125, 10176-10177. | 6.6 | 327 |
| 105 | Controlled Assembly of Carbon Nanotubes by Designed Amphiphilic Peptide Helices. <i>Journal of the American Chemical Society</i> , 2003, 125, 1770-1777. | 6.6 | 481 |
| 106 | A novel nanostructure of nickel nanotubes encapsulated in carbon nanotubes. <i>Chemical Communications</i> , 2003, , 208-209. | 2.2 | 29 |
| 107 | Paired cell for the preparation of AgI nanowires using nanoporous alumina membrane templatesElectronic supplementary information (ESI) available: FE-SEM images. See http://www.rsc.org/suppdata/cc/b3/b310212b/ . <i>Chemical Communications</i> , 2003, , 2898. | 2.2 | 20 |
| 108 | Novel approaches to synthesize self-supported ultrathin carbon nanowire arrays templated by MCM-41Electronic supplementary information (ESI) available: synthesis of MCM-41; MWD details; TEM, SEM and FESEM images; N2 sorption data. See http://www.rsc.org/suppdata/cc/b3/b309670j/ . <i>Chemical Communications</i> , 2003, , 2726. | 2.2 | 81 |
| 109 | Water solubilization, determination of the number of different types of single-wall carbon nanotubes and their partial separation with respect to diameters by complexation with Î-cyclodextrin. <i>Chemical Communications</i> , 2003, , 986-987. | 2.2 | 98 |
| 110 | Ga-filled single-crystalline MgO nanotube: Wide-temperature range nanothermometer. <i>Applied Physics Letters</i> , 2003, 83, 999-1001. | 1.5 | 100 |
| 111 | Fabrication of Carbon Nanotubes. <i>Analytical Letters</i> , 2003, 36, 3119-3145. | 1.0 | 79 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 112 | Carbon Nanotube and Nanofibre Reinforced Polyamide-12 Fibres. Materials Research Society Symposia Proceedings, 2003, 791, 1. | 0.1 | 0 |
| 113 | Selectivity of chemical oxidation attack of single-wall carbon nanotubes in solution. Physical Review B, 2003, 68, . | 1.1 | 49 |
| 114 | Direct Observation of Localized Defect States in Semiconductor Nanotube Junctions. Physical Review Letters, 2003, 90, 216107. | 2.9 | 100 |
| 115 | Electrical properties of nanoceramics reinforced with ropes of single-walled carbon nanotubes. Applied Physics Letters, 2003, 83, 1228-1230. | 1.5 | 211 |
| 116 | Single-walled Carbon Nanotubes Are a New Class of Ion Channel Blockers. Journal of Biological Chemistry, 2003, 278, 50212-50216. | 1.6 | 291 |
| 117 | Contrasting bonding behavior of thiol molecules on carbon fullerene structures. Physical Review A, 2003, 68, . | 1.0 | 4 |
| 118 | Mechanical and electromechanical coupling in carbon nanotube distortions. Physical Review B, 2003, 68, . | 1.1 | 74 |
| 119 | Cables of BN-insulated Bâ€“Câ€™N nanotubes. Applied Physics Letters, 2003, 82, 1275-1277. | 1.5 | 36 |
| 120 | Biomimetic propulsion for a swimming surgical micro-robot. , 0, , . | | 47 |
| 121 | DETONATION OF MOLECULAR PRECURSORS AS A TOOL FOR THE ASSEMBLY OF NANO-SIZED MATERIALS. Modern Physics Letters B, 2003, 17, 1477-1493. | 1.0 | 12 |
| 122 | A computational study of gas phase chemistry in carbon nanotube synthesis by PECVD. , 0, , . | | 2 |
| 123 | Numerical Simulation of Gas Phase Reaction Chemistry in Methane-Hydrogen Mixtures. , 2003, , 899. | | 2 |
| 124 | Bias-enhanced growth of carbon nanotubes directly on metallic wires. Nanotechnology, 2003, 14, 109-112. | 1.3 | 16 |
| 125 | Synthesis, Characterization and Chirality Identification of Double-Walled Carbon Nanotubes. AIP Conference Proceedings, 2003, , . | 0.3 | 1 |
| 126 | Interaction of Single-Wall Carbon Nanotubes with Gas Phase Molecules. AIP Conference Proceedings, 2003, , . | 0.3 | 1 |
| 127 | Large-scale integration of carbon nanotubes into silicon-based microelectronics. , 2003, , . | | 2 |
| 128 | Length control of carbon nanotubes through nanorobotic manipulations. , 0, , . | | 2 |
| 129 | Organische Chemie 2002. Nachrichten Aus Der Chemie, 2003, 51, 286-315. | 0.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 130 | Optical Fiber Switch Based on Carbon Nanotube Actuation. Materials Research Society Symposia Proceedings, 2003, 772, 1021. | 0.1 | 0 |
| 131 | Production of high quality single-walled carbon nanotubes in a nano-agglomerated fluidized bed reactor. Materials Research Society Symposia Proceedings, 2003, 785, 941. | 0.1 | 0 |
| 132 | Architecture of a three-probe MEMS nanomanipulator with nanoscale end-effectors. , 0, , . | | 7 |
| 133 | Anab initiostudy of optical and Raman spectra of heavily Li-doped 4 Å... carbon nanotubes. Journal of Physics Condensed Matter, 2004, 16, 1467-1488. | 0.7 | 12 |
| 134 | The nanostructure and electrical properties of SWNT bundle networks grown by an Åall-laserÅ growth process for nanoelectronic device applications. Nanotechnology, 2004, 15, S534-S539. | 1.3 | 21 |
| 135 | Environmental Technologies at the Nanometer-Scale. ACS Symposium Series, 2004, , 7-12. | 0.5 | 0 |
| 136 | Nondestructive and High-Recovery-Yield Purification of Single-Walled Carbon Nanotubes by Chemical Functionalization. Journal of Physical Chemistry B, 2004, 108, 8848-8854. | 1.2 | 49 |
| 137 | Nanometer Scale Technologies: Device Considerations. , 2004, , 5-33. | | 0 |
| 138 | Nanotube-Substrate Interactions: Distinguishing Carbon Nanotubes by the Helical Angle. Physical Review Letters, 2004, 92, 085503. | 2.9 | 36 |
| 139 | Corn-shape carbon nanofibers with dense graphite synthesized by microwave plasma-enhanced chemical vapor deposition. Applied Physics Letters, 2004, 84, 2886-2888. | 1.5 | 22 |
| 140 | Mechanical Properties of Nanosprings. Physical Review Letters, 2004, 92, 175502. | 2.9 | 82 |
| 141 | Writing submicrometric metallic patterns by ultraviolet synchrotron irradiation of nanostructured carbon and TiOxâ€“carbon films. Applied Physics Letters, 2004, 84, 3412-3414. | 1.5 | 12 |
| 142 | Formation of sp ³ Bonding in Nanoindented Carbon Nanotubes and Graphite. Physical Review Letters, 2004, 93, 245502. | 2.9 | 76 |
| 143 | Growth of aligned carbon nanofibres over large areas using colloidal catalysts at low temperatures. Chemical Communications, 2004, , 1416. | 2.2 | 28 |
| 144 | Recent topics of micro -and nano mechatronics. , 0, , . | | 1 |
| 145 | Mixed finite element-tight-binding electromechanical analysis of carbon nanotubes. Journal of Applied Physics, 2004, 96, 6756-6760. | 1.1 | 25 |
| 146 | High-resolution Raman microscopy of curled carbon nanotubes. Applied Physics Letters, 2004, 85, 2598-2600. | 1.5 | 39 |
| 147 | Optical anisotropy of nanotube suspensions. Journal of Chemical Physics, 2004, 121, 1029-1037. | 1.2 | 25 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 148 | Carbon nanotube filaments in household light bulbs. Applied Physics Letters, 2004, 84, 4869-4871. | 1.5 | 105 |
| 149 | Ultrafast carrier dynamics in single-walled carbon nanotubes probed by femtosecond spectroscopy. Journal of Chemical Physics, 2004, 120, 3368-3373. | 1.2 | 186 |
| 150 | Dynamics of all-optical switching in C_6O and its application to optical logic gates. Optical Engineering, 2004, 43, 426. | 0.5 | 24 |
| 151 | Quantitative evaluation of bundling effect on single walled carbon nanotubes by resonance Raman spectra. Materials Research Society Symposia Proceedings, 2004, 858, 58. | 0.1 | 0 |
| 152 | Improved Fracture Toughness in Advanced Nanocrystalline Ceramic Composites. Materials Research Society Symposia Proceedings, 2004, 821, 228. | 0.1 | 2 |
| 153 | Electrostatic Spinning, Pyrolysis, and Characterization of Boron Carbide Nanofibers Prepared from Poly(norbornenyldecaborane) - a Polymeric Ceramic Precursor. Materials Research Society Symposia Proceedings, 2004, 848, 294. | 0.1 | 0 |
| 154 | MATERIALS SCIENCE: Designer Nanotubes by Molecular Self-Assembly. Science, 2004, 304, 1457-1458. | 6.0 | 55 |
| 155 | Covalent Coupling of Gold Nanoparticles to Multiwalled Carbon Nanotubes for Electronic Device Applications. Materials Research Society Symposia Proceedings, 2004, 818, 324. | 0.1 | 2 |
| 156 | Integration Of Carbon Nanotubes Into Device Structures. Materials Research Society Symposia Proceedings, 2004, 858, 82. | 0.1 | 0 |
| 157 | Bioinspired Approaches to Building Nanoscale Devices. , 2004, , 149-160. | | 1 |
| 158 | The Electronic Structures and Formation Mechanisms of the Single-Walled BN Nanotube with Small Diameter. Journal of Physical Chemistry B, 2004, 108, 4024-4034. | 1.2 | 16 |
| 159 | Selective deposition of a gadolinium(III) cluster in a hole opening of single-wall carbon nanohorn. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8527-8530. | 3.3 | 106 |
| 160 | Nanotubes and the Pursuit of Applications. MRS Bulletin, 2004, 29, 281-285. | 1.7 | 150 |
| 161 | Production of Carbon Nanotubes and Other Nanostructures Via Continuous AC Plasma Processing. Fullerenes Nanotubes and Carbon Nanostructures, 2004, 12, 571-581. | 1.0 | 15 |
| 162 | Synthesis, Analysis, and Electrical Property Measurements of Compound Nanotubes in the B-C-N Ceramic System. MRS Bulletin, 2004, 29, 38-42. | 1.7 | 55 |
| 163 | Tensile and bending properties of double-walled carbon nanotubes. Journal Physics D: Applied Physics, 2004, 37, 2358-2363. | 1.3 | 33 |
| 164 | Ways towards the scaleable integration of carbon nanotubes into silicon based technology. Diamond and Related Materials, 2004, 13, 354-361. | 1.8 | 65 |
| 165 | Efficient Direct Water-Solubilisation of Single-Walled Carbon Nanotube Derivatives. Fullerenes Nanotubes and Carbon Nanostructures, 2004, 12, 789-809. | 1.0 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 166 | Contact-damage-resistant ceramic/single-wall carbon nanotubes and ceramic/graphite composites. Nature Materials, 2004, 3, 539-544. | 13.3 | 369 |
| 167 | Tough to test. Nature Materials, 2004, 3, 505-506. | 13.3 | 75 |
| 168 | Flow-induced properties of nanotube-filled polymer materials. Nature Materials, 2004, 3, 564-568. | 13.3 | 440 |
| 169 | Faux food to the rescue?. Nature Materials, 2004, 3, 510-510. | 13.3 | 0 |
| 170 | Swell properties and swift processing. Nature Materials, 2004, 3, 509-510. | 13.3 | 16 |
| 171 | Ultralong single-wall carbon nanotubes. Nature Materials, 2004, 3, 673-676. | 13.3 | 513 |
| 172 | Enhanced ice sheet growth in Eurasia owing to adjacent ice-dammed lakes. Nature, 2004, 427, 429-432. | 13.7 | 108 |
| 173 | Atomic-scale imaging of carbon nanofibre growth. Nature, 2004, 427, 426-429. | 13.7 | 1,318 |
| 174 | Irradiation effects in carbon nanotubes. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 355-366. | 0.6 | 204 |
| 175 | A Convenient Route to Functionalized Carbon Nanotubes. Nano Letters, 2004, 4, 1257-1260. | 4.5 | 297 |
| 176 | Electric Field Effect in Atomically Thin Carbon Films. Science, 2004, 306, 666-669. | 6.0 | 56,177 |
| 177 | Carbon Nanotube Applications in Microelectronics. IEEE Transactions on Components and Packaging Technologies, 2004, 27, 629-634. | 1.4 | 121 |
| 178 | Fluorescence Microscopy Visualization of Single-Walled Carbon Nanotubes Using Semiconductor Nanocrystals. Nano Letters, 2004, 4, 2415-2419. | 4.5 | 78 |
| 179 | The synthesis of boron nitride nanotubes by an extended vapour "liquid" solid method. Nanotechnology, 2004, 15, 727-730. | 1.3 | 34 |
| 180 | Quantum-Mechanical Investigation of Field-Emission Mechanism of a Micrometer-Long Single-Walled Carbon Nanotube. Physical Review Letters, 2004, 92, 106803. | 2.9 | 148 |
| 181 | Effect of charge on the stability of single-walled carbon nanotubes. Science in China Series G: Physics, Mechanics and Astronomy, 2004, 47, 685-693. | 0.2 | 6 |
| 182 | Carbon nanostructures produced by CCVD with induction heating. Carbon, 2004, 42, 503-507. | 5.4 | 32 |
| 183 | Coiled carbon nanotubes growth via reduced-pressure catalytic chemical vapor deposition. Carbon, 2004, 42, 805-811. | 5.4 | 27 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 184 | Storage of methane on wet activated carbon: influence of pore size distribution. Carbon, 2004, 42, 1855-1858. | 5.4 | 40 |
| 185 | Microstructural investigations on zirconium oxide-carbon nanotube composites synthesized by hydrothermal crystallization. Carbon, 2004, 42, 1995-1999. | 5.4 | 111 |
| 186 | Selective synthesis of high-purity carbon nanotubes by thermal plasma jet. Carbon, 2004, 42, 3024-3027. | 5.4 | 9 |
| 187 | Carbon nanotubes with 2D and 3D multiple junctions. Carbon, 2004, 42, 2997-3002. | 5.4 | 30 |
| 188 | Polymer-layered silicate-carbon nanotube nanocomposites: unique nanofiller synergistic effect. Composites Science and Technology, 2004, 64, 2317-2323. | 3.8 | 135 |
| 189 | Electron microscopy investigation of gallium oxide micro/nanowire structures synthesized via vapor phase growth. Micron, 2004, 35, 447-453. | 1.1 | 6 |
| 190 | Fluorescence spectroscopy of single-walled carbon nanotubes in aqueous suspension. Applied Physics A: Materials Science and Processing, 2004, 78, 1111-1116. | 1.1 | 86 |
| 191 | Optical absorption and electron energy loss spectra of carbon and boron nitride nanotubes: a first-principles approach. Applied Physics A: Materials Science and Processing, 2004, 78, 1157-1167. | 1.1 | 105 |
| 192 | Realistic applications of CNTs. Materials Today, 2004, 7, 46-52. | 8.3 | 263 |
| 193 | Hydrostatic pressure effects on the structural and electronic properties of carbon nanotubes. Physica Status Solidi (B): Basic Research, 2004, 241, 3352-3359. | 0.7 | 88 |
| 194 | Numerical simulation of the effect of nanotube orientation on tensile modulus of carbon-nanotube-reinforced polymer composites. Polymer International, 2004, 53, 1461-1466. | 1.6 | 17 |
| 195 | Use of Electrospinning to Directly Fabricate Hollow Nanofibers with Functionalized Inner and Outer Surfaces. Small, 2004, 1, 83-86. | 5.2 | 264 |
| 196 | Side-Wall Opening of Single-Walled Carbon Nanotubes (SWCNTs) by Chemical Modification: A Critical Theoretical Study. Angewandte Chemie - International Edition, 2004, 43, 1552-1554. | 7.2 | 105 |
| 197 | A New Type of Material for the Recovery of Hydrogen from Gas Mixtures. Angewandte Chemie - International Edition, 2004, 43, 2948-2950. | 7.2 | 259 |
| 198 | Multifunctional Carbon Nanotube Composite Fibers. Advanced Engineering Materials, 2004, 6, 801-804. | 1.6 | 57 |
| 199 | High Performance Nanotube-Reinforced Plastics: Understanding the Mechanism of Strength Increase. Advanced Functional Materials, 2004, 14, 791-798. | 7.8 | 575 |
| 200 | Efficient Isolation and Solubilization of Pristine Single-Walled Nanotubes in Bile Salt Micelles. Advanced Functional Materials, 2004, 14, 1105-1112. | 7.8 | 465 |
| 201 | Hierarchical Self-Assembly of Peptide-Coated Carbon Nanotubes. Advanced Functional Materials, 2004, 14, 1147-1151. | 7.8 | 67 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 202 | Polyacrylonitrile Single-Walled Carbon Nanotube Composite Fibers. <i>Advanced Materials</i> , 2004, 16, 58-61. | 11.1 | 320 |
| 203 | In-Situ Growth of "Fused", Ozonized Single-Walled Carbon Nanotubes" CdTe Quantum Dot Junctions. <i>Advanced Materials</i> , 2004, 16, 34-37. | 11.1 | 50 |
| 204 | Multiple-Walled Nanotubes Made of Metals. <i>Advanced Materials</i> , 2004, 16, 264-268. | 11.1 | 221 |
| 205 | Molecular "Glass" Blowing: From Carbon Nanotubes to Carbon Nanobulbs. <i>Advanced Materials</i> , 2004, 16, 443-447. | 11.1 | 15 |
| 206 | Aligning and Reorienting Carbon Nanotubes with Nematic Liquid Crystals. <i>Advanced Materials</i> , 2004, 16, 865-869. | 11.1 | 329 |
| 207 | Preparation of the Novel Nanocomposite Co(OH) ₂ / Ultra-Stable Y Zeolite and Its Application as a Supercapacitor with High Energy Density. <i>Advanced Materials</i> , 2004, 16, 1853-1857. | 11.1 | 517 |
| 208 | Electrospinning of Nanofibers: Reinventing the Wheel?. <i>Advanced Materials</i> , 2004, 16, 1151-1170. | 11.1 | 4,905 |
| 211 | Disposable Carbon Nanotube Modified Screen-Printed Biosensor for Amperometric Detection of Organophosphorus Pesticides and Nerve Agents. <i>Electroanalysis</i> , 2004, 16, 145-149. | 1.5 | 299 |
| 212 | Electrocatalytic Reduction of Oxygen at Multi-Walled Carbon Nanotubes and Cobalt Porphyrin Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2004, 16, 1444-1450. | 1.5 | 76 |
| 213 | Surfactant-Directed Polypyrrole/CNT Nanocables: Synthesis, Characterization, and Enhanced Electrical Properties. <i>ChemPhysChem</i> , 2004, 5, 998-1002. | 1.0 | 130 |
| 214 | Abrasively Immobilised Multiwalled Carbon Nanotube Agglomerates: A Novel Electrode Material Approach for the Analytical Sensing of pH. <i>ChemPhysChem</i> , 2004, 5, 669-677. | 1.0 | 42 |
| 215 | Surface Chemistry and Structure of Purified, Ozonized, Multiwalled Carbon Nanotubes Probed by NEXAFS and Vibrational Spectroscopies. <i>ChemPhysChem</i> , 2004, 5, 1416-1422. | 1.0 | 73 |
| 216 | A Kinetic Study on the Thermal Degradation of Multi-Walled Carbon Nanotubes-Reinforced Poly(propylene) Composites. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 368-374. | 1.7 | 59 |
| 217 | Polymer Nanocomposites Using Urchin-Shaped Carbon Nanotube-Silica Hybrids as Reinforcing Fillers. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1860-1864. | 2.0 | 32 |
| 218 | Incorporation of Carbon Nanotubes into Hollow Microcapsules Using a Removable Template Assembly. <i>Macromolecular Rapid Communications</i> , 2004, 25, 2014-2018. | 2.0 | 12 |
| 219 | Effects of activation conditions on BET specific surface area of activated carbon nanotubes. <i>Microporous and Mesoporous Materials</i> , 2004, 76, 215-219. | 2.2 | 56 |
| 220 | Electrochemical study of tetra-phenyl-porphyrin on the SWNTs film modified glassy carbon electrode. <i>Electrochemistry Communications</i> , 2004, 6, 83-86. | 2.3 | 31 |
| 221 | Carbon nanotube-modified glassy carbon electrode for adsorptive stripping voltammetric detection of ultratrace levels of 2,4,6-trinitrotoluene. <i>Electrochemistry Communications</i> , 2004, 6, 176-179. | 2.3 | 215 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 222 | Electrochemical detection of carbohydrates at carbon-nanotube modified glassy-carbon electrodes. <i>Electrochemistry Communications</i> , 2004, 6, 284-287. | 2.3 | 132 |
| 223 | Fabrication and electrochemical properties of carbon nanotube array electrode for supercapacitors. <i>Electrochimica Acta</i> , 2004, 49, 4157-4161. | 2.6 | 149 |
| 224 | Catalytic synthesis of single-walled carbon nanotubes from coal gas by chemical vapor deposition method. <i>Fuel Processing Technology</i> , 2004, 85, 913-920. | 3.7 | 53 |
| 225 | Preparation and properties of Ni/P/single-walled carbon nanotubes composite coatings by means of electroless plating. <i>Thin Solid Films</i> , 2004, 466, 86-91. | 0.8 | 77 |
| 226 | Nano-scale structures of a one-dimensional junction. <i>Thin Solid Films</i> , 2004, 464-465, 335-337. | 0.8 | 8 |
| 227 | Near-infrared nonlinear optical properties of single-wall carbon nanotubes embedded in polymer film. <i>Thin Solid Films</i> , 2004, 464-465, 368-372. | 0.8 | 46 |
| 228 | van der Waals energy under strong atom-atom field coupling in doped carbon nanotubes. <i>Solid State Communications</i> , 2004, 132, 203-207. | 0.9 | 19 |
| 229 | Synthesis and purification of single-walled carbon nanotubes in the cottonlike soot. <i>Solid State Communications</i> , 2004, 132, 219-224. | 0.9 | 43 |
| 230 | Electrochemical behavior of l-dopa at single-wall carbon nanotube-modified glassy carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 569, 47-52. | 1.9 | 87 |
| 231 | Polymers containing fullerene or carbon nanotube structures. <i>Progress in Polymer Science</i> , 2004, 29, 1079-1141. | 11.8 | 436 |
| 232 | A simple approach in fabricating chemical sensor using laterally grown multi-walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2004, 99, 118-122. | 4.0 | 105 |
| 233 | Simple thermal chemical vapor deposition synthesis and electrical property of multi-walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 24, 14-18. | 1.3 | 21 |
| 234 | Electrochemical determination of 8-azaguanine in human urine at a multi-carbon nanotubes modified electrode. <i>Microchemical Journal</i> , 2004, 77, 37-42. | 2.3 | 21 |
| 235 | Functionalized carbon nanotubes containing isocyanate groups. <i>Journal of Solid State Chemistry</i> , 2004, 177, 4394-4398. | 1.4 | 117 |
| 236 | Effective in-plane stiffness and bending rigidity of armchair and zigzag carbon nanotubes. <i>International Journal of Solids and Structures</i> , 2004, 41, 5451-5461. | 1.3 | 104 |
| 237 | Adsorption and electrooxidation of nucleic acids at carbon nanotubes paste electrodes. <i>Electrochemistry Communications</i> , 2004, 6, 10-16. | 2.3 | 234 |
| 238 | Grand canonical auxiliary field Monte Carlo: a new technique for simulating open systems at high density. <i>Computer Physics Communications</i> , 2004, 157, 201-206. | 3.0 | 14 |
| 239 | Formation of percolating networks in multi-wall carbon-nanotube-epoxy composites. <i>Composites Science and Technology</i> , 2004, 64, 2309-2316. | 3.8 | 571 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 240 | STM study of molecular adsorption on single-wall carbon nanotube surface. <i>Chemical Physics Letters</i> , 2004, 383, 469-474. | 1.2 | 15 |
| 241 | Electronic properties of radial single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2004, 385, 323-328. | 1.2 | 14 |
| 242 | Thermal analysisâ€“mass spectroscopy coupling as a powerful technique to study the growth of carbon nanotubes from benzene. <i>Chemical Physics Letters</i> , 2004, 388, 259-262. | 1.2 | 32 |
| 243 | Growth of double-wall carbon nanotubes with diameter-controlled iron oxide nanoparticles supported on MgO. <i>Chemical Physics Letters</i> , 2004, 391, 308-313. | 1.2 | 84 |
| 244 | The growth of carbon nanotubes at predefined locations using whole nickel nanowires as templates. <i>Chemical Physics Letters</i> , 2004, 393, 511-516. | 1.2 | 2 |
| 245 | Growth mechanisms of carbon nanotubes converted from diamond-like carbon films. <i>Chemical Physics Letters</i> , 2004, 397, 516-519. | 1.2 | 3 |
| 246 | Selective growth of vertically aligned carbon nanotubes on nickel oxide nanostructures created by atomic force microscope nano-oxidation. <i>Chemical Physics Letters</i> , 2004, 399, 422-425. | 1.2 | 15 |
| 247 | Novel electrochemical method for sensitive determination of homocysteine with carbon nanotube-based electrodes. <i>Biosensors and Bioelectronics</i> , 2004, 20, 253-259. | 5.3 | 179 |
| 248 | Carbon-nanotube-modified electrodes for amplified enzyme-based electrical detection of DNA hybridization. <i>Biosensors and Bioelectronics</i> , 2004, 20, 995-1000. | 5.3 | 77 |
| 249 | High dispersion and electrocatalytic properties of platinum on well-aligned carbon nanotube arrays. <i>Carbon</i> , 2004, 42, 191-197. | 5.4 | 253 |
| 250 | A model for the structure and growth of carbon nanofibers synthesized by the CVD method using nickel as a catalyst. <i>Carbon</i> , 2004, 42, 635-640. | 5.4 | 111 |
| 251 | Effects of Ni-catalyst characteristics on the growth of carbon nanowires. <i>Carbon</i> , 2004, 42, 509-514. | 5.4 | 30 |
| 252 | Cationic surfactant directed polyaniline/CNT nanocables: synthesis, characterization, and enhanced electrical properties. <i>Carbon</i> , 2004, 42, 1455-1461. | 5.4 | 126 |
| 253 | Organic derivatization of single-walled carbon nanotubes by clays and intercalated derivatives. <i>Carbon</i> , 2004, 42, 865-870. | 5.4 | 38 |
| 254 | Amorphous carbon nanotubes produced by a temperature controlled DC arc discharge. <i>Carbon</i> , 2004, 42, 1852-1855. | 5.4 | 40 |
| 255 | The role of carbon nanotube structure in purification and hydrogen adsorption. <i>Carbon</i> , 2004, 42, 2315-2322. | 5.4 | 64 |
| 256 | Applications of carbon nanotubes in the twentyâ€“first century. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 2223-2238. | 1.6 | 212 |
| 257 | Microstructures and magnetic properties of boron nitride- and carbon-coated iron nanoparticles synthesized by a solid phase reaction. <i>Journal of Materials Chemistry</i> , 2004, 14, 253. | 6.7 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 258 | A Sonochemical Route to Single-Walled Carbon Nanotubes under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2004, 126, 15982-15983. | 6.6 | 86 |
| 259 | Single-Wall Carbon Nanotube Films for Photocurrent Generation. A Prompt Response to Visible-Light Irradiation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17015-17018. | 1.2 | 148 |
| 260 | Integrating nano carbontubes with microchannel cooler. , 0, , . | | 7 |
| 261 | Solubilization and debundling of purified single-walled carbon nanotubes using solubilizing agents in an aqueous solution by high-speed vibration milling techniqueElectronic supplementary information (ESI) available: UV-vis spectra. See http://www.rsc.org/suppdata/cc/b4/b402042a/ . <i>Chemical Communications</i> , 2004, , 1334. | 2.2 | 62 |
| 262 | A nanoscale dendrimer-based Fe ₂₄ cluster: synthesis and molecular self-assembly. <i>Chemical Communications</i> , 2004, , 2122. | 2.2 | 6 |
| 263 | Super-long continuous Ni nanowires encapsulated in carbon nanotubesElectronic supplementary information (ESI) available: SEM images. See http://www.rsc.org/suppdata/cc/b4/b405444j/ . <i>Chemical Communications</i> , 2004, , 1988. | 2.2 | 26 |
| 264 | Recent topics of micro and nano mechatronics. , 0, , . | | 0 |
| 265 | Carbon nanotubes based position sensors. , 0, , . | | 9 |
| 266 | Carbon nanotube conducting arrays by consecutive amidation reactionsElectronic Supplementary Information (ESI) available: fabrication method and characterization data for micropatterned SWNT conducting arrays. See http://www.rsc.org/suppdata/cc/b3/b315348g/ . <i>Chemical Communications</i> , 2004, , 526. | 2.2 | 9 |
| 267 | Carbon nanotube/poly(2,4-hexadiyne-1,6-diol) nanocomposites prepared with the aid of supercritical CO ₂ . <i>Chemical Communications</i> , 2004, , 2190. | 2.2 | 30 |
| 268 | Hydrogen storage on fullerenes: hydrogenation of C ₅₉ N ₇ using C ₆₀ H ₃₆ as the source of hydrogen. <i>Chemical Communications</i> , 2004, , 1752. | 2.2 | 17 |
| 269 | Field electron emission from branch nanotubes film. , 0, , . | | 0 |
| 270 | Molecular dynamics simulations of bending behavior of tubulargraphite cones. <i>Applied Physics Letters</i> , 2004, 85, 1778-1780. | 1.5 | 12 |
| 271 | Charge transfer in carbon nanotube actuators investigated usingin situRaman spectroscopy. <i>Journal of Applied Physics</i> , 2004, 95, 2038-2048. | 1.1 | 77 |
| 273 | A thermally actuated three-probe nanomanipulator for efficient handling of individual nanostructures. , 0, , . | | 2 |
| 274 | Interactions of Lanthanide Complexes with Oxidized Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2004, 16, 1855-1863. | 3.2 | 29 |
| 275 | Surface Characterizations of Carbon Multiwall Nanotubes: Comparison between Surface Active Sites and Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19361-19367. | 1.2 | 78 |
| 276 | Carbon nanotubes: synthesis and properties, electronic devices and other emerging applications. <i>International Materials Reviews</i> , 2004, 49, 325-377. | 9.4 | 231 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 277 | Characterization of Carbon Nanotubes by TEM and Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3469-3473. | 1.2 | 130 |
| 278 | Fullerenes and Carbon Nanotubes Formed in an Electric Arc at and Above Atmospheric Pressure. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2004, 12, 593-602. | 1.0 | 6 |
| 279 | Electrochemical Hydrogen Storage Behaviors of Ultrafine Amorphous Co [~] B Alloy Particles. <i>Chemistry of Materials</i> , 2004, 16, 5194-5197. | 3.2 | 106 |
| 280 | Growth of Single-Walled Carbon Nanotubes by the Rapid Heating of a Supported Catalyst. <i>Chemistry of Materials</i> , 2004, 16, 5637-5643. | 3.2 | 23 |
| 281 | The Engineering of Hot Carbon Nanotubes with a Focused Electron Beam. <i>Nano Letters</i> , 2004, 4, 1143-1146. | 4.5 | 121 |
| 282 | Nickel Formate Route to the Growth of Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18446-18450. | 1.2 | 32 |
| 283 | Dispersion and Current [~] Voltage Characteristics of Helical Polyacetylene Single Fibers. <i>Journal of the American Chemical Society</i> , 2004, 126, 16722-16723. | 6.6 | 68 |
| 284 | Hydrothermal Synthesis of Prismatic NaHoF ₄ Microtubes and NaSmF ₄ Nanotubes. <i>Inorganic Chemistry</i> , 2004, 43, 1594-1596. | 1.9 | 63 |
| 285 | Deuterium Attachment to Carbon Nanotubes in Deuterated Water. <i>Journal of the American Chemical Society</i> , 2004, 126, 4669-4675. | 6.6 | 21 |
| 286 | Polymer/Single-Walled Carbon Nanotube Films Assembled via Donor [~] Acceptor Interactions and Their Use as Scaffolds for Silica Deposition. <i>Chemistry of Materials</i> , 2004, 16, 3904-3910. | 3.2 | 55 |
| 287 | Binding Kinetics and SWNT Bundle Dissociation in Low Concentration Polymer [~] Nanotube Dispersions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3446-3450. | 1.2 | 65 |
| 288 | Two Confined Phases of Argon Adsorbed Inside Open Single Walled Carbon Nanotubes. <i>Langmuir</i> , 2004, 20, 5940-5945. | 1.6 | 36 |
| 289 | Demonstration of Diameter-Selective Reactivity in the Sidewall Ozonation of SWNTs by Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2004, 4, 1445-1450. | 4.5 | 99 |
| 290 | Nitrogen and Oxygen Mixture Adsorption on Carbon Nanotube Bundles from Molecular Simulation. <i>Langmuir</i> , 2004, 20, 10910-10918. | 1.6 | 62 |
| 291 | Supermolecular Self-Assembly of Graphene Sheets: [~] Formation of Tube-in-Tube Nanostructures. <i>Nano Letters</i> , 2004, 4, 2255-2259. | 4.5 | 74 |
| 292 | Sol [~] Gel-Derived Ceramic [~] Carbon Nanotube Nanocomposite Electrodes: [~] Tunable Electrode Dimension and Potential Electrochemical Applications. <i>Analytical Chemistry</i> , 2004, 76, 6500-6505. | 3.2 | 143 |
| 293 | Phase Behavior and Rheology of SWNTs in Superacids. <i>Macromolecules</i> , 2004, 37, 154-160. | 2.2 | 337 |
| 294 | Noncovalent Functionalization of Carbon Nanotubes with Molecular Anchors Using Supercritical Fluids [~] . <i>Journal of Physical Chemistry B</i> , 2004, 108, 8737-8741. | 1.2 | 44 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 295 | Versatile Synthesis of Individual Single-Walled Carbon Nanotubes from Nickel Nanoparticles for the Study of Their Physical Properties. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17112-17118. | 1.2 | 65 |
| 296 | Ultrathin "Bed-of-Nails" Membranes of Single-Wall Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2004, 126, 9502-9503. | 6.6 | 11 |
| 297 | Preparation of novel nano-composite Ni(OH) ₂ /USY material and its application for electrochemical capacitance storage. Electronic supplementary information (ESI) available: calculation method of the measured and theoretical specific capacitance. See http://www.rsc.org/suppdata/cc/b4/b401922a/ . <i>Chemical Communications</i> , 2004, , 1646. | 2.2 | 78 |
| 298 | Measuring the Compression of a Carbon Nanospring. <i>Nano Letters</i> , 2004, 4, 1009-1016. | 4.5 | 71 |
| 299 | Electron emissive properties of CNT films grown by catalytic method on different types of substrates. <i>Diamond and Related Materials</i> , 2004, 13, 1008-1011. | 1.8 | 20 |
| 300 | Phase transition of iron inside carbon nanotubes under electron irradiation. <i>Journal of Materials Research</i> , 2004, 19, 1835-1839. | 1.2 | 10 |
| 301 | Molecular selectivity due to adsorption properties in nanotubes. <i>Physical Review B</i> , 2004, 69, . | 1.1 | 80 |
| 302 | Polymer Brushes on Single-Walled Carbon Nanotubes by Atom Transfer Radical Polymerization of n-Butyl Methacrylate. <i>Journal of the American Chemical Society</i> , 2004, 126, 170-176. | 6.6 | 391 |
| 303 | Synthesis of corn-shape carbon nanofibers on Si and Mo substrates by bias-enhanced microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2004, 13, 1198-1202. | 1.8 | 5 |
| 304 | Environmental Scanning Electron Microscopy Study of Water in Carbon Nanopipes. <i>Nano Letters</i> , 2004, 4, 989-993. | 4.5 | 202 |
| 305 | Dynamic radiography using a carbon-nanotube-based field-emission x-ray source. <i>Review of Scientific Instruments</i> , 2004, 75, 3264-3267. | 0.6 | 80 |
| 306 | Direct Fabrication of Composite and Ceramic Hollow Nanofibers by Electrospinning. <i>Nano Letters</i> , 2004, 4, 933-938. | 4.5 | 1,158 |
| 307 | Purification of Single-Wall Carbon Nanotubes by Electrochemical Oxidation. <i>Chemistry of Materials</i> , 2004, 16, 5744-5750. | 3.2 | 149 |
| 308 | Room temperature synthesis of carbon nanofibers containing nitrogen by plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2004, 85, 1244-1246. | 1.5 | 56 |
| 309 | Ion ranges and irradiation-induced defects in multiwalled carbon nanotubes. <i>Journal of Applied Physics</i> , 2004, 96, 2864-2871. | 1.1 | 88 |
| 310 | Carbon Nanotube Applications in Microelectronics. , 2004, , 477-488. | | 5 |
| 311 | In Situ TA-MS Study of the Six-Membered-Ring-Based Growth of Carbon Nanotubes with Benzene Precursor. <i>Journal of the American Chemical Society</i> , 2004, 126, 1180-1183. | 6.6 | 105 |
| 312 | Hybrid Devices from Single Wall Carbon Nanotubes Epitaxially Grown into a Semiconductor Heterostructure. <i>Nano Letters</i> , 2004, 4, 349-352. | 4.5 | 51 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 313 | Observation of Water Confined in Nanometer Channels of Closed Carbon Nanotubes. Nano Letters, 2004, 4, 2237-2243. | 4.5 | 239 |
| 314 | Dispersing Single-Walled Carbon Nanotubes with Surfactants: A Small Angle Neutron Scattering Study. Nano Letters, 2004, 4, 1789-1793. | 4.5 | 288 |
| 315 | Combing and Bending of Carbon Nanotube Arrays with Confined Microfluidic Flow on Patterned Surfaces. Journal of Physical Chemistry B, 2004, 108, 4385-4393. | 1.2 | 81 |
| 316 | Liquid-phase fabrication of patterned carbon nanotube field emission cathodes. Applied Physics Letters, 2004, 84, 3738-3740. | 1.5 | 96 |
| 318 | Protein immobilization on carbon nanotubes via a two-step process of diimide-activated amidation. Journal of Materials Chemistry, 2004, 14, 37. | 6.7 | 354 |
| 319 | SIMULATION OF DNA-NANOTUBE INTERACTIONS. Annual Review of Materials Research, 2004, 34, 123-150. | 4.3 | 201 |
| 320 | Unconventional magnetism in all-carbon nanofoam. Physical Review B, 2004, 70, . | 1.1 | 235 |
| 321 | Polyimide-Functionalized Carbon Nanotubes: Synthesis and Dispersion in Nanocomposite Films. Macromolecules, 2004, 37, 6055-6060. | 2.2 | 189 |
| 322 | Synthesis and field-emission testing of carbon nanoflake edge emitters. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 1269. | 1.6 | 40 |
| 323 | Dispersions of Individual Single-Walled Carbon Nanotubes of High Length. Langmuir, 2004, 20, 5149-5152. | 1.6 | 122 |
| 324 | Fabrication and Characterization of Thin Films of Single-Walled Carbon Nanotube Bundles on Flexible Plastic Substrates. Journal of the American Chemical Society, 2004, 126, 4462-4463. | 6.6 | 360 |
| 325 | Amperometric glucose biosensor based on adsorption of glucose oxidase at platinum nanoparticle-modified carbon nanotube electrode. Analytical Biochemistry, 2004, 331, 89-97. | 1.1 | 201 |
| 326 | Inorganic nanotubes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2099-2125. | 1.6 | 181 |
| 327 | Direct Synthesis of High Purity Single-Walled Carbon Nanotube Fibers by Arc Discharge. Journal of Physical Chemistry B, 2004, 108, 4573-4575. | 1.2 | 53 |
| 328 | Solubilization and Purification of Single-Wall Carbon Nanotubes in Water by in Situ Radical Polymerization of Sodium 4-Styrenesulfonate. Macromolecules, 2004, 37, 3965-3967. | 2.2 | 209 |
| 329 | Selective Dispersion of Single-Walled Carbon Nanotubes in the Presence of Polymers: The Role of Molecular and Colloidal Length Scales. Journal of the American Chemical Society, 2004, 126, 14850-14857. | 6.6 | 204 |
| 330 | Covalent Attachment and Hybridization of DNA Oligonucleotides on Patterned Single-Walled Carbon Nanotube Films. Langmuir, 2004, 20, 8886-8891. | 1.6 | 96 |
| 331 | Large-Scale Synthesis of High-Quality Double-Walled Carbon Nanotubes by Catalytic Decomposition of n-Hexane. Journal of Physical Chemistry B, 2004, 108, 2192-2194. | 1.2 | 60 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 332 | Sol-gel transcription of silica-based hybrid nanostructures using poly(N-vinylpyrrolidone)-coated [60]fullerene, single-walled carbon nanotube and block copolymer templates. <i>Journal of Materials Chemistry</i> , 2004, 14, 2106-2114. | 6.7 | 48 |
| 333 | Preparation and Characterization of Individual Peptide-Wrapped Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2004, 126, 7222-7227. | 6.6 | 268 |
| 334 | Spontaneous-decay dynamics in atomically doped carbon nanotubes. <i>Physical Review B</i> , 2004, 70, . | 1.1 | 43 |
| 335 | The application of carbon nanotube - polymer composite as gas sensing materials. , 0, , . | | 10 |
| 336 | SWNT and MWNT Reinforced Carbon Nanocomposite Fibrils. , 2004, , . | | 1 |
| 337 | Light Emission from Carbon Nanotubes Induced by Field Electron Emission from Oriented MWCNT Arrays Accompanied by Re-Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2004, 858, 94. | 0.1 | 0 |
| 338 | Hydrothermal functionalisation of single-walled carbon nanotubes. <i>Synthetic Metals</i> , 2004, 142, 263-266. | 2.1 | 40 |
| 339 | Topochemical strategies and experimental results for the rational synthesis of carbon nanotubes of one specified type. <i>Synthetic Metals</i> , 2004, 141, 87-92. | 2.1 | 19 |
| 340 | Single wall carbon nanotube based aggregates and their electrical characterization. <i>Synthetic Metals</i> , 2004, 145, 171-176. | 2.1 | 10 |
| 341 | Miniaturized capillary electrophoresis system with a carbon nanotube microelectrode for rapid separation and detection of thiols. <i>Talanta</i> , 2004, 64, 1018-1023. | 2.9 | 185 |
| 342 | Preparation of Pt and PtRu nanoparticles supported on carbon nanotubes by microwave-assisted heating polyol process. <i>Materials Letters</i> , 2004, 58, 3166-3169. | 1.3 | 100 |
| 343 | Carbon nanowalls and related materials. <i>Journal of Materials Chemistry</i> , 2004, 14, 469. | 6.7 | 275 |
| 344 | Functionalization of carbon nanotubes via 1,3-dipolar cycloadditions. <i>Journal of Materials Chemistry</i> , 2004, 14, 437. | 6.7 | 275 |
| 345 | Ultrasensitive Electrical Biosensing of Proteins and DNA: Carbon-Nanotube Derived Amplification of the Recognition and Transduction Events. <i>Journal of the American Chemical Society</i> , 2004, 126, 3010-3011. | 6.6 | 686 |
| 346 | Reinforcement of Polymers with Carbon Nanotubes: The Role of Nanotube Surface Area. <i>Nano Letters</i> , 2004, 4, 353-356. | 4.5 | 456 |
| 347 | Morphology and Mechanical Properties of Multiwalled Carbon Nanotubes Reinforced Nylon-6 Composites. <i>Macromolecules</i> , 2004, 37, 7214-7222. | 2.2 | 751 |
| 348 | Capillary Electrophoresis Microchip with a Carbon Nanotube-Modified Electrochemical Detector. <i>Analytical Chemistry</i> , 2004, 76, 298-302. | 3.2 | 166 |
| 349 | Properties and Structure of Nitric Acid Oxidized Single Wall Carbon Nanotube Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16435-16440. | 1.2 | 244 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 350 | An overview of advances in heat conduction models and approaches for prediction of thermal conductivity in thin dielectric films. International Journal of Numerical Methods for Heat and Fluid Flow, 2004, 14, 12-65. | 1.6 | 24 |
| 351 | Assembly of Well-Aligned Multiwalled Carbon Nanotubes in Confined Polyacrylonitrile Environments: A Electrospun Composite Nanofiber Sheets. Journal of the American Chemical Society, 2004, 126, 15754-15761. | 6.6 | 358 |
| 352 | Direct Spinning of Carbon Nanotube Fibers from Chemical Vapor Deposition Synthesis. Science, 2004, 304, 276-278. | 6.0 | 1,307 |
| 353 | Multifunctional Carbon Nanotube Yarns by Downsizing an Ancient Technology. Science, 2004, 306, 1358-1361. | 6.0 | 1,579 |
| 354 | Functionalization of Single-Walled Carbon Nanotubes with Polystyrene via Grafting to and Grafting from Methods. Macromolecules, 2004, 37, 752-757. | 2.2 | 338 |
| 355 | Generic Approach for Dispersing Single-Walled Carbon Nanotubes: A The Strength of a Weak Interaction. Langmuir, 2004, 20, 6085-6088. | 1.6 | 187 |
| 356 | Chemical Reversibility and Stable Low-Potential NADH Detection with Nonconventional Conducting Polymer Nanotubule Modified Glassy Carbon Electrodes. Analytical Chemistry, 2004, 76, 3244-3248. | 3.2 | 59 |
| 357 | Low-Temperature Single-Wall Carbon Nanotube Synthesis by Thermal Chemical Vapor Deposition. Journal of Physical Chemistry B, 2004, 108, 6941-6943. | 1.2 | 34 |
| 358 | P-86: Flexible Transparent Circuits from Carbon Nanotubes. Digest of Technical Papers SID International Symposium, 2004, 35, 582. | 0.1 | 6 |
| 359 | 25.4: Micro-Patterned Carbon Nanotube Arrays Using Pen-Writable Lyotropic Liquid Crystals. Digest of Technical Papers SID International Symposium, 2004, 35, 936. | 0.1 | 1 |
| 360 | Structure and dynamics of fullerenes adsorbed on the Au(111) surface. , 2004, , . | | 3 |
| 361 | Separation of functions as an approach to development of large space telescope mirrors. , 2004, , . | | 4 |
| 362 | Nanolaboratory - a prototype nanomanufacturing system. , 0, , . | | 3 |
| 363 | Synthesis and Characterization of Barium Sulfate Nanotubes. Chemistry Letters, 2004, 33, 1384-1385. | 0.7 | 8 |
| 364 | Curdlan and Schizophyllan (β -1,3-Glucans) can Entrap Single-wall Carbon Nanotubes in Their Helical Superstructure. Chemistry Letters, 2004, 33, 232-233. | 0.7 | 94 |
| 365 | Hyperbranched Poly(amidoamine)-modified Multi-walled Carbon Nanotubes via Grafting-from Method. Chemistry Letters, 2004, 33, 490-491. | 0.7 | 47 |
| 366 | Field emission from one-dimensional nanostructured zinc oxide. International Journal of Nanotechnology, 2004, 1, 452. | 0.1 | 23 |
| 367 | Development of Carbon-Nanotube-Based Nanocomposite Strain Sensor. , 2005, , 987. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 368 | Quasi-one-dimensional nanostructures and efficient heat transfer in nanoscale devices. , 2005, , . | | 0 |
| 369 | Toward the Emergence of Nanoneurosurgery: Part I—Progress in Nanoscience, Nanotechnology, and the Comprehension of Events in the Mesoscale Realm. Neurosurgery, 2005, 57, 606-634. | 0.6 | 58 |
| 370 | Open-Air Synthesis of Carbon Nanotubes by Laser-Induced Chemical Vapor Deposition. , 2005, , 399. | | 0 |
| 371 | Self-Assembled Nanostructures on VSe ₂ Surfaces Induced by Cu Deposition. Microscopy and Microanalysis, 2005, 11, 456-471. | 0.2 | 2 |
| 372 | Overview of nanotechnology and its applicability to the Department of Defense. , 2005, , . | | 0 |
| 373 | Disassembling Single-walled Carbon Nanotube Bundles by Dipole/Dipole Electrostatic Interactions. Chemistry Letters, 2005, 34, 1218-1219. | 0.7 | 54 |
| 374 | Fullerodendron-assisted Dispersion of Single-walled Carbon Nanotubes via Noncovalent Functionalization. Chemistry Letters, 2005, 34, 1608-1609. | 0.7 | 52 |
| 375 | Enhanced mechanical properties and morphological characterizations of poly(vinyl alcohol)/carbon nanotube composite films. Applied Surface Science, 2005, 252, 1404-1409. | 3.1 | 149 |
| 376 | Field electron emission from branched nanotubes film. Applied Surface Science, 2005, 251, 245-248. | 3.1 | 8 |
| 377 | Large-scale synthesis of tube-like ZnS and cable-like ZnS/ZnO arrays: Preparation through the sulfuration conversion from ZnO arrays via a simple chemical solution route. Journal of Solid State Chemistry, 2005, 178, 1589-1594. | 1.4 | 27 |
| 378 | Study of improving identification accuracy of carbon nanotube film cathode gas sensor. Sensors and Actuators A: Physical, 2005, 125, 15-24. | 2.0 | 34 |
| 379 | Mechanical properties of single-walled carbon nanotube bundles as bulk materials. Journal of the Mechanics and Physics of Solids, 2005, 53, 123-142. | 2.3 | 80 |
| 380 | Formation of nanostructured solid-state carbon particles by laser ablation of graphite in isopropyl alcohol. Journal of Physics and Chemistry of Solids, 2005, 66, 555-559. | 1.9 | 12 |
| 381 | Electrochemical oxidation of theophylline at multi-wall carbon nanotube modified glassy carbon electrodes. Journal of Electroanalytical Chemistry, 2005, 581, 303-309. | 1.9 | 97 |
| 382 | Controlled assembly of single SWNTs bundle using dielectrophoresis. Microelectronic Engineering, 2005, 81, 83-89. | 1.1 | 94 |
| 383 | Well-aligned zinc oxide nanorods and nanowires prepared without catalyst. Journal of Crystal Growth, 2005, 274, 126-131. | 0.7 | 81 |
| 384 | Rapid synthesis and photoluminescence of novel ZnO nanotetrapods. Journal of Crystal Growth, 2005, 274, 447-452. | 0.7 | 38 |
| 385 | Fabrication of gadolinium biphthalocyanine nano/microwires by electrophoretic deposition. Journal of Crystal Growth, 2005, 281, 530-537. | 0.7 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 386 | Synthesis, characterization and low field emission of CNx nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 25, 654-659. | 1.3 | 13 |
| 387 | Structure and properties of polyacrylonitrile/single wall carbon nanotube composite films. <i>Polymer</i> , 2005, 46, 3001-3005. | 1.8 | 108 |
| 388 | Effect of solvent solubility parameter on SWNT dispersion in PMMA. <i>Polymer</i> , 2005, 46, 3419-3424. | 1.8 | 62 |
| 389 | Uniaxial deformation of an elastomer nanocomposite containing modified carbon nanofibers by in situ synchrotron X-ray diffraction. <i>Polymer</i> , 2005, 46, 5103-5117. | 1.8 | 45 |
| 390 | Singlewall carbon nanotubes covered with polypyrrole nanoparticles by the miniemulsion polymerization. <i>Polymer</i> , 2005, 46, 6308-6315. | 1.8 | 109 |
| 391 | Polymers and carbon nanotubes—dimensionality, interactions and nanotechnology. <i>Polymer</i> , 2005, 46, 7803-7818. | 1.8 | 276 |
| 392 | Polyethylene multiwalled carbon nanotube composites. <i>Polymer</i> , 2005, 46, 8222-8232. | 1.8 | 753 |
| 393 | A comparison of reinforcement efficiency of various types of carbon nanotubes in polyacrylonitrile fiber. <i>Polymer</i> , 2005, 46, 10925-10935. | 1.8 | 238 |
| 394 | Enhancement of the mechanical properties of poly(styrene-co-acrylonitrile) with poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 422 | 1.8 | 110 |
| 395 | Rheological study of carbon nanofiber induced physical gelation in polyolefin nanocomposite melt. <i>Polymer</i> , 2005, 46, 11591-11599. | 1.8 | 55 |
| 396 | Carbon nanotube synthesis, characteristics, and microbattery applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 116, 363-368. | 1.7 | 27 |
| 397 | Novel cold cathode materials and applications. <i>Materials Science and Engineering Reports</i> , 2005, 48, 47-189. | 14.8 | 525 |
| 398 | Dispersion and alignment of carbon nanotubes in polymer matrix: A review. <i>Materials Science and Engineering Reports</i> , 2005, 49, 89-112. | 14.8 | 1,674 |
| 399 | Coiled carbon nanotubes growth and DSC study in epoxy-based composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 339-343. | 2.3 | 19 |
| 400 | Sensitive electrochemical detection of enzymatically generated thiocholine at carbon nanotube modified glassy carbon electrode. <i>Electrochemistry Communications</i> , 2005, 7, 1163-1169. | 2.3 | 133 |
| 401 | Fire behaviour of polyamide 6/multiwall carbon nanotube nanocomposites. <i>European Polymer Journal</i> , 2005, 41, 1061-1070. | 2.6 | 287 |
| 402 | New materials for electrochemical sensing VI: Carbon nanotubes. <i>TrAC - Trends in Analytical Chemistry</i> , 2005, 24, 826-838. | 5.8 | 626 |
| 403 | Simulation study of the carbon nanotube field effect transistors beyond the complex band structure effect. <i>Solid-State Electronics</i> , 2005, 49, 860-864. | 0.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 404 | Manganese oxide/MWNTs composite electrodes for supercapacitors. <i>Solid State Ionics</i> , 2005, 176, 1169-1174. | 1.3 | 224 |
| 405 | Layer-by-layer assembled carbon nanotubes for selective determination of dopamine in the presence of ascorbic acid. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1270-1276. | 5.3 | 319 |
| 406 | Glucose biosensor based on multi-wall carbon nanotubes and screen printed carbon electrodes. <i>Biosensors and Bioelectronics</i> , 2005, 21, 508-512. | 5.3 | 129 |
| 407 | Field electron emission from amorphous carbon thin films grown by RF magnetron sputtering. <i>Current Applied Physics</i> , 2005, 5, 387-391. | 1.1 | 12 |
| 408 | Oxidative stabilization of PAN/SWNT composite fiber. <i>Carbon</i> , 2005, 43, 599-604. | 5.4 | 56 |
| 409 | Simple approach for the fabrication of carbon nanotube field emitter using conducting paste. <i>Carbon</i> , 2005, 43, 698-703. | 5.4 | 32 |
| 410 | Preparation and characterization of polyaniline/multi-walled carbon nanotube composites. <i>Carbon</i> , 2005, 43, 734-740. | 5.4 | 371 |
| 411 | Solutal Rayleigh-Marangoni instability as a growth mechanism for single-walled carbon nanotubes. <i>Carbon</i> , 2005, 43, 986-993. | 5.4 | 14 |
| 412 | Preparation of PVC pitch from waste pipe. <i>Carbon</i> , 2005, 43, 2022-2025. | 5.4 | 6 |
| 413 | Synthesis of high quality single-walled carbon nanotubes at large scale by electric arc using metal compounds. <i>Carbon</i> , 2005, 43, 2020-2022. | 5.4 | 55 |
| 414 | Structure and energetics of carbon nanotube ropes. <i>Carbon</i> , 2005, 43, 2146-2151. | 5.4 | 13 |
| 415 | Low temperature synthesis of carbon nanofibres on carbon fibre matrices. <i>Carbon</i> , 2005, 43, 2643-2648. | 5.4 | 60 |
| 416 | Catalyst free synthesis of high-purity carbon nanotubes by thermal plasma jet. <i>Carbon</i> , 2005, 43, 2638-2641. | 5.4 | 24 |
| 417 | Synthesis of single-wall carbon nanotubes and long nanotube ribbons with Ho/Ni as catalyst by arc discharge. <i>Carbon</i> , 2005, 43, 2894-2901. | 5.4 | 34 |
| 418 | Ferrocene-filled single-walled carbon nanotubes. <i>Carbon</i> , 2005, 43, 2780-2785. | 5.4 | 131 |
| 419 | Oxygen reduction on Ag/MnO ₂ /SWNT and Ag/MnO ₂ /AB electrodes. <i>Carbon</i> , 2005, 43, 2931-2936. | 5.4 | 73 |
| 420 | Electrocatalytic performances of nanostructured platinum-carbon materials. <i>Catalysis Today</i> , 2005, 102-103, 50-57. | 2.2 | 59 |
| 421 | Curvature effects on axially compressed buckling of a small-diameter double-walled carbon nanotube. <i>International Journal of Solids and Structures</i> , 2005, 42, 5426-5440. | 1.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 422 | Applications of carbon nanotubes in drug delivery. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 674-679. | 2.8 | 1,705 |
| 423 | Solubility of MoS ₂ nanowires. <i>Chemical Physics Letters</i> , 2005, 401, 13-18. | 1.2 | 55 |
| 424 | Gas-sensing properties of thick film based on ZnO nano-tetrapods. <i>Chemical Physics Letters</i> , 2005, 401, 426-429. | 1.2 | 149 |
| 425 | Direct measurement of multiwall nanotube surface tension. <i>Chemical Physics Letters</i> , 2005, 404, 263-266. | 1.2 | 302 |
| 426 | Structural identification of single and double-walled carbon nanotubes by high-resolution transmission electron microscopy. <i>Chemical Physics Letters</i> , 2005, 412, 116-120. | 1.2 | 37 |
| 427 | Highly oriented planar arrays of SWCNTs grown onto HOPG substrates by means of an all-laser process. <i>Chemical Physics Letters</i> , 2005, 413, 182-187. | 1.2 | 5 |
| 428 | Pore structure and oxidation stability of double-walled carbon nanotube-derived bucky paper. <i>Chemical Physics Letters</i> , 2005, 414, 444-448. | 1.2 | 83 |
| 429 | Shear-SANS study of single-walled carbon nanotube suspensions. <i>Chemical Physics Letters</i> , 2005, 416, 182-186. | 1.2 | 28 |
| 430 | Electrochemical activation of carbon nanotubes. <i>Electrochemistry Communications</i> , 2005, 7, 14-18. | 2.3 | 141 |
| 431 | Electronic properties of clean and Li-doped single-walled carbon nanotubes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 793-797. | 0.8 | 16 |
| 432 | Anisotropy of Sheared Carbon-Nanotube Suspensions. <i>Physical Review Letters</i> , 2005, 95, 038304. | 2.9 | 51 |
| 433 | Femtosecond laser pulse irradiation of solid targets as a general route to nanoparticle formation in a vacuum. <i>Physical Review B</i> , 2005, 71, . | 1.1 | 263 |
| 434 | Noncovalent Functionalization of Single-Walled Carbon Nanotubes with Water-Soluble Porphyrins. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7605-7609. | 1.2 | 180 |
| 435 | Carbon nanotubes for clean energy applications. <i>Journal Physics D: Applied Physics</i> , 2005, 38, R231-R252. | 1.3 | 101 |
| 436 | Nanotechnology Challenges for Future Space Weather Forecasting Networks. <i>ACS Symposium Series</i> , 2005, , 46-62. | 0.5 | 0 |
| 437 | Adsorption of Methylene Blue Dye onto Carbon Nanotubes: A Route to an Electrochemically Functional Nanostructure and Its Layer-by-Layer Assembled Nanocomposite. <i>Chemistry of Materials</i> , 2005, 17, 3457-3463. | 3.2 | 340 |
| 438 | Surface Diffusion: The Low Activation Energy Path for Nanotube Growth. <i>Physical Review Letters</i> , 2005, 95, 036101. | 2.9 | 362 |
| 439 | A Stable Single Piece of Unimolecularly π -Stacked Porphyrin Aggregate in a Thixotropic Low Molecular Weight Gel: A One-Dimensional Molecular Template for Polydiacetylene Wiring up to Several Tens of Micrometers in Length. <i>Journal of the American Chemical Society</i> , 2005, 127, 4164-4165. | 6.6 | 228 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 440 | Multiwalled Carbon Nanotubes with Chemically Grafted Polyetherimides. <i>Journal of the American Chemical Society</i> , 2005, 127, 9984-9985. | 6.6 | 151 |
| 441 | Growth of Carbon Nanotubes on Metal Nanoparticles: A Microscopic Mechanism from Ab Initio Molecular Dynamics Simulations. <i>Physical Review Letters</i> , 2005, 95, 096103. | 2.9 | 270 |
| 442 | Molecular dynamics simulations of polarizable nanotubes interacting with water. <i>Physical Review B</i> , 2005, 71, . | 1.1 | 52 |
| 443 | The Effective Density and Transport Properties of Compacted Carbon Nanotubes and Nanowhiskers. <i>Technical Physics Letters</i> , 2005, 31, 159. | 0.2 | 4 |
| 444 | The van der Waals Energy of an Atom near a Carbon Nanotube. <i>Optics and Spectroscopy (English)</i> Tj ETQq0 0 0 rgBT/Overlogk 10 Tf 50 | 0.2 | 3 |
| 445 | Tuning the conductance of single-walled carbon nanotubes by ion irradiation in the Anderson localization regime. <i>Nature Materials</i> , 2005, 4, 534-539. | 13.3 | 378 |
| 446 | Multifunctional brushes made from carbon nanotubes. <i>Nature Materials</i> , 2005, 4, 540-545. | 13.3 | 149 |
| 447 | Novel electrical switching behaviour and logic in carbon nanotube Y-junctions. <i>Nature Materials</i> , 2005, 4, 663-666. | 13.3 | 220 |
| 448 | Multi-Walled Carbon Nanotube Coatings Using Electrophoretic Deposition (EPD). <i>Journal of the American Ceramic Society</i> , 2005, 88, 980-982. | 1.9 | 156 |
| 449 | Carbon Nanotube Reinforced Alumina-Based Ceramics with Novel Mechanical, Electrical, and Thermal Properties. <i>International Journal of Applied Ceramic Technology</i> , 2004, 1, 161-171. | 1.1 | 151 |
| 450 | Deposition and electrocatalytic properties of platinum on well-aligned carbon nanotube (CNT) arrays for methanol oxidation. <i>Materials Chemistry and Physics</i> , 2005, 92, 548-553. | 2.0 | 66 |
| 451 | Enhanced wear resistance and micro-hardness of polystyrene nanocomposites by carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2005, 94, 109-113. | 2.0 | 73 |
| 452 | The fabrication and corrosion behavior of electroless Ni-P-carbon nanotube composite coatings. <i>Materials Research Bulletin</i> , 2005, 40, 1001-1009. | 2.7 | 62 |
| 453 | Novel morphologies of ZnO nanotetrapods. <i>Materials Letters</i> , 2005, 59, 560-563. | 1.3 | 44 |
| 454 | A study on carbon nanotubes reinforced poly(methyl methacrylate) nanocomposites. <i>Materials Letters</i> , 2005, 59, 2128-2132. | 1.3 | 78 |
| 455 | Hydrothermal synthesis of alumina nanotubes templated by anionic surfactant. <i>Materials Letters</i> , 2005, 59, 4034-4037. | 1.3 | 85 |
| 456 | Tiny Solutions for Giant Cardiac Problems. <i>Trends in Cardiovascular Medicine</i> , 2005, 15, 207-211. | 2.3 | 20 |
| 457 | Strengthening and toughening of carbon nanotube reinforced alumina nanocomposite fabricated by molecular level mixing process. <i>Scripta Materialia</i> , 2005, 53, 793-797. | 2.6 | 222 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 458 | Multielemental Siâ€œCâ€œNâ€œO one-dimensional nanomaterials. Scripta Materialia, 2005, 53, 1071-1075. | 2.6 | 1 |
| 459 | Carbon-Nanotube Based Electrochemical Biosensors: A Review. Electroanalysis, 2005, 17, 7-14. | 1.5 | 2,181 |
| 460 | A Disposable Biosensor for Organophosphorus Nerve Agents Based on Carbon Nanotubes Modified Thick Film Strip Electrode. Electroanalysis, 2005, 17, 54-58. | 1.5 | 220 |
| 461 | Comparison of the Electrochemical Reactivity of Electrodes Modified with Carbon Nanotubes from Different Sources. Electroanalysis, 2005, 17, 65-72. | 1.5 | 151 |
| 462 | Enzymatic Biosensors Based on Carbon Nanotubes Paste Electrodes. Electroanalysis, 2005, 17, 73-78. | 1.5 | 145 |
| 463 | Determination of Phenolic Compounds Based on the Tyrosinase- Single Walled Carbon Nanotubes Sensor. Electroanalysis, 2005, 17, 85-88. | 1.5 | 55 |
| 464 | Electrogenerated Chemiluminescence Determination of Dopamine and Epinephrine in the Presence of Ascorbic Acid at Carbon Nanotube/Nafion-Ru(bpy) Composite Film Modified Glassy Carbon Electrode. Electroanalysis, 2005, 17, 607-612. | 1.5 | 58 |
| 465 | Lead Determination on MWNT/Nafion Composite Modified Glassy Carbon Electrodes. Chinese Journal of Chemistry, 2005, 23, 1510-1514. | 2.6 | 9 |
| 466 | Graphite Powder and Multiwalled Carbon Nanotubes Chemically Modified with 4-Nitrobenzylamine. ChemPhysChem, 2005, 6, 352-362. | 1.0 | 51 |
| 467 | Multiwalled Carbon Nanotubes Covalently Modified with Fast Black K. ChemPhysChem, 2005, 6, 590-595. | 1.0 | 21 |
| 468 | Single wall carbon nanotube dispersion and exfoliation in polymers. Journal of Applied Polymer Science, 2005, 98, 985-989. | 1.3 | 93 |
| 469 | Carbonization of Dislike Molecules in Porous Alumina Membranes: Toward Carbon Nanotubes with Controlled Graphene-Layer Orientation. Angewandte Chemie - International Edition, 2005, 44, 2120-2123. | 7.2 | 111 |
| 470 | The Chemistry of Organic Nanomaterials. Angewandte Chemie - International Edition, 2005, 44, 5592-5629. | 7.2 | 658 |
| 471 | Ordered Mesoporous Polymers and Homologous Carbon Frameworks: Amphiphilic Surfactant Templating and Direct Transformation. Angewandte Chemie - International Edition, 2005, 44, 7053-7059. | 7.2 | 1,218 |
| 472 | Carbon nanotubes for science and technology. Bell Labs Technical Journal, 2005, 10, 171-185. | 0.7 | 40 |
| 473 | Carbonization of Dislike Molecules in Porous Alumina Membranes: Toward Carbon Nanotubes with Controlled Graphene-Layer Orientation. Angewandte Chemie, 2005, 117, 2158-2161. | 1.6 | 24 |
| 476 | Preparation of Homogeneously Dispersed Multiwalled Carbon Nanotube/Polystyrene Nanocomposites via Melt Extrusion Using Trialkyl Imidazolium Compatibilizer. Advanced Functional Materials, 2005, 15, 910-916. | 7.8 | 209 |
| 477 | Soluble Self-Aligned Carbon Nanotube/Polyaniline Composites. Advanced Materials, 2005, 17, 278-281. | 11.1 | 171 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 478 | Spinning Solid and Hollow Polymer-Free Carbon Nanotube Fibers. <i>Advanced Materials</i> , 2005, 17, 614-617. | 11.1 | 164 |
| 479 | Covalent Surface Chemistry of Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2005, 17, 17-29. | 11.1 | 1,112 |
| 480 | Highly Conducting Carbon Nanotube/Polyethyleneimine Composite Fibers. <i>Advanced Materials</i> , 2005, 17, 1064-1067. | 11.1 | 120 |
| 481 | Extraordinary Strengthening Effect of Carbon Nanotubes in Metal-Matrix Nanocomposites Processed by Molecular-Level Mixing. <i>Advanced Materials</i> , 2005, 17, 1377-1381. | 11.1 | 592 |
| 482 | Nanohybrid Shish-Kebabs: Periodically Functionalized Carbon Nanotubes. <i>Advanced Materials</i> , 2005, 17, 1198-1202. | 11.1 | 331 |
| 483 | Diels-Alder Reactions of Tetraphenylcyclopentadienones in Nanochannels: Fabrication of Nanotubes from Hyperbranched Polyphenylenes. <i>Advanced Materials</i> , 2005, 17, 1492-1496. | 11.1 | 74 |
| 484 | Microstructure and Electromechanical Properties of Carbon Nanotube/ Poly(vinylidene) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 507 Td (flu 1897-1901. | 11.1 | 189 |
| 485 | Single-Walled Carbon Nanotube Polyelectrolyte Multilayers and Freestanding Films as a Biocompatible Platform for Neuroprosthetic Implants. <i>Advanced Materials</i> , 2005, 17, 2663-2670. | 11.1 | 160 |
| 486 | Single-Walled Carbon Nanotube-CdS Nanocomposites as Light-Harvesting Assemblies: Photoinduced Charge-Transfer Interactions. <i>Advanced Materials</i> , 2005, 17, 2458-2463. | 11.1 | 485 |
| 487 | Uniform Carbon and Carbon/Cobalt Nanostructures by Solid-State Thermolysis of Polyphenylene Dendrimer/Cobalt Complexes. <i>Advanced Materials</i> , 2005, 17, 2957-2960. | 11.1 | 52 |
| 488 | Synthetic Approaches for Carbon Nanotubes. , 2005, , 33-55. | | 1 |
| 489 | A correlated method for quantifying mixed and dispersed carbon nanotubes: analysis of the Raman band intensities and evidence of wavenumber shift. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 400-408. | 1.2 | 42 |
| 490 | Rod-Like Silicate-Epoxy Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1445-1450. | 2.0 | 80 |
| 491 | Electrostatically Dissipative Polystyrene Nanocomposites containing Copper Nanowires. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1677-1681. | 2.0 | 48 |
| 492 | Chiral nanotechnology. <i>Chirality</i> , 2005, 17, 404-420. | 1.3 | 171 |
| 493 | Electrochemical Antitumor Drug Sensitivity Test for Leukemia K562 Cells at a Carbon-Nanotube-Modified Electrode. <i>Chemistry - A European Journal</i> , 2005, 11, 1467-1472. | 1.7 | 96 |
| 494 | Conducting Polymer Nanostructures. <i>ChemInform</i> , 2005, 36, no. | 0.1 | 0 |
| 495 | Graft Polymerization of Styrene from Single-Walled Carbon Nanotube using Atom Transfer Radical Polymerization. <i>Polymer Bulletin</i> , 2005, 55, 173-179. | 1.7 | 25 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 496 | Tubular composite of doped polyaniline with multi-walled carbon nanotubes. Applied Physics A: Materials Science and Processing, 2005, 80, 1813-1817. | 1.1 | 83 |
| 497 | Alumina nanotubes and nanowires from Al-based porous alumina membranes. Applied Physics A: Materials Science and Processing, 2005, 81, 621-625. | 1.1 | 14 |
| 498 | Characterization and field-emission property of aligned porous carbon nanotube film by hydrogen-ion implantation. Applied Physics A: Materials Science and Processing, 2005, 81, 169-172. | 1.1 | 2 |
| 499 | Tin-doped indium oxide nanobelts grown by carbothermal reduction method. Applied Physics A: Materials Science and Processing, 2005, 80, 23-25. | 1.1 | 25 |
| 500 | Crystallization kinetics and interfacial behaviors of polypropylene composites reinforced with multi-walled carbon nanotubes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 404, 79-84. | 2.6 | 211 |
| 501 | An amperometric cholesterol biosensor based on multiwalled carbon nanotubes and organically modified sol-gel/chitosan hybrid composite film. Analytical Biochemistry, 2005, 337, 111-120. | 1.1 | 269 |
| 502 | Liquid filled nanoparticles as a drug delivery tool for protein therapeutics. Biomaterials, 2005, 26, 7154-7163. | 5.7 | 175 |
| 503 | Effects of CF4 plasma on the field emission properties of aligned multi-wall carbon nanotube films. Carbon, 2005, 43, 395-400. | 5.4 | 71 |
| 504 | Growth of carbon nanotubes by open-air laser-induced chemical vapor deposition. Carbon, 2005, 43, 437-446. | 5.4 | 61 |
| 505 | Selecting peptides for use in nanoscale materials using phage-displayed combinatorial peptide libraries. Current Opinion in Biotechnology, 2005, 16, 470-475. | 3.3 | 79 |
| 506 | High dispersion and electrocatalytic properties of palladium nanoparticles on single-walled carbon nanotubes. Journal of Colloid and Interface Science, 2005, 286, 274-279. | 5.0 | 128 |
| 507 | Improved nanocomposite materials for biosensor applications investigated by electrochemical impedance spectroscopy. Sensors and Actuators B: Chemical, 2005, 109, 221-226. | 4.0 | 92 |
| 508 | Centrifugal purification of chemically modified single-walled carbon nanotubes. Science and Technology of Advanced Materials, 2005, 6, 571-581. | 2.8 | 39 |
| 509 | Properties of polyacrylonitrile/single wall carbon nanotube composite films prepared in nitric acid. Fibers and Polymers, 2005, 6, 108-112. | 1.1 | 8 |
| 510 | Synthesis and characterization of water-soluble carbon nanotubes from mustard soot. Pramana - Journal of Physics, 2005, 65, 681-697. | 0.9 | 48 |
| 511 | Electron microscope visualization of multiphase fluids contained in closed carbon nanotubes. Journal of Visualization, 2005, 8, 137-144. | 1.1 | 4 |
| 512 | Preparation and tribological properties of poly(methyl methacrylate)/multi-walled carbon nanotubes composites. Journal of Materials Science, 2005, 40, 4379-4382. | 1.7 | 9 |
| 513 | Synthesis of carbon nanotubes using a novel catalyst derived from hydrotalcite-like Co ₂ Al layered double hydroxide precursor. Catalysis Letters, 2005, 99, 151-156. | 1.4 | 94 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 514 | Rigidity percolation model of polymer fracture. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 168-183. | 2.4 | 24 |
| 515 | Solid-State Synthesis of "Bamboo-Like" and Straight Carbon Nanotubes by Thermolysis of Hexa-peri-hexabenzocoronene" Cobalt Complexes. <i>Small</i> , 2005, 1, 210-212. | 5.2 | 56 |
| 516 | Molecular Dynamics Study of the Mechanical and Electronic Properties of Carbon Nanotubes. <i>Small</i> , 2005, 1, 399-402. | 5.2 | 16 |
| 517 | Low-Temperature, Controlled Synthesis of Carbon Nanotubes. <i>Small</i> , 2005, 1, 274-276. | 5.2 | 14 |
| 518 | The Tube or the Helix? This is the Question: Towards the Fully Controlled DNA-Directed Assembly of Carbon Nanotubes. <i>Small</i> , 2005, 1, 590-592. | 5.2 | 11 |
| 519 | Solid-State Pyrolyses of Metal Phthalocyanines: A Simple Approach towards Nitrogen-Doped CNTs and Metal/Carbon Nanocables. <i>Small</i> , 2005, 1, 798-801. | 5.2 | 84 |
| 520 | Cutting Single-Walled Carbon Nanotubes with an Electron Beam: Evidence for Atom Migration Inside Nanotubes. <i>Small</i> , 2005, 1, 953-956. | 5.2 | 93 |
| 521 | Individualization of Single-Walled Carbon Nanotubes: Is the Solvent Important?. <i>Small</i> , 2005, 1, 1117-1124. | 5.2 | 103 |
| 522 | Preparation of Multi-Walled Carbon Nanotube Compact by the Spark Plasma System (SPS). <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005, 52, 115-119. | 0.1 | 0 |
| 523 | Evaluation of Mechanical Properties of Single-Walled Carbon Nanotube Solids Prepared by Spark Plasma Sintering. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005, 52, 826-830. | 0.1 | 1 |
| 524 | Direct proteins electrochemistry based on ionic liquid mediated carbon nanotube modified glassy carbon electrode. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 326. | 3.0 | 80 |
| 525 | Nanorobotic Systems. <i>International Journal of Advanced Robotic Systems</i> , 2005, 2, 28. | 1.3 | 11 |
| 526 | Influence of Acid Treatment on Dispersion of Carbon Nanotubes in PBO Matrix. <i>Advanced Composites Letters</i> , 2005, 14, 096369350501400. | 1.3 | 1 |
| 527 | Nanotube multi-functional nanoposition sensors. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2005, 219, 23-27. | 0.1 | 7 |
| 528 | Physical and mechanical characterization of nanocomposites with carbon nanotubes functionalized with the matrix polymer. <i>Composite Interfaces</i> , 2005, 12, 757-768. | 1.3 | 17 |
| 529 | CONTINUUM MODEL FOR STABILITY ANALYSIS OF CARBON NANOTUBES UNDER INITIAL BEND. <i>International Journal of Structural Stability and Dynamics</i> , 2005, 05, 579-595. | 1.5 | 8 |
| 530 | Preparation and Properties of Carbon Nanofiber/Polyimide Composite Films. <i>Materials Science Forum</i> , 2005, 486-487, 493-496. | 0.3 | 2 |
| 531 | Electrochemistry of Nucleic Acids. <i>Perspectives in Bioanalysis</i> , 2005, 1, 73-173. | 0.3 | 48 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 532 | Binormal Nanohelices. Materials Research Society Symposia Proceedings, 2005, 903, 1. | 0.1 | 0 |
| 533 | Hydrogen Storage in Carbon Nanoscrolls: A Molecular Dynamics Study. Materials Research Society Symposia Proceedings, 2005, 885, 1. | 0.1 | 1 |
| 534 | Sprayed Carbon Nanotube Thin Films as Hydrogen Sensors. Materials Research Society Symposia Proceedings, 2005, 900, 1. | 0.1 | 0 |
| 535 | Reversible transport characteristics of multi-walled carbon nanotubes in free space. Nanotechnology, 2005, 16, 1707-1711. | 1.3 | 10 |
| 536 | Chaotic signature in the motion of coupled carbon nanotube oscillators. Nanotechnology, 2005, 16, 583-589. | 1.3 | 34 |
| 537 | Field Emission from Carbon-Nanotube-Dispersed Conducting Polymer Thin Film and Its Application to Photovoltaic Devices. Japanese Journal of Applied Physics, 2005, 44, 636-640. | 0.8 | 33 |
| 538 | Stability analysis of carbon nanotube probes for an atomic force microscope via a continuum model. Smart Materials and Structures, 2005, 14, 1196-1203. | 1.8 | 14 |
| 539 | Stable and high emission current from carbon nanotube paste with spin on glass. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 702. | 1.6 | 12 |
| 540 | Investigation of single-walled carbon nanotube growth parameters using alcohol catalytic chemical vapour deposition. Nanotechnology, 2005, 16, 2153-2163. | 1.3 | 58 |
| 541 | Functionalization of single-walled carbon nanotubes using isotropic plasma treatment: Resonant Raman spectroscopy study. Journal of Applied Physics, 2005, 97, 104324. | 1.1 | 41 |
| 542 | Collapse of single-walled carbon nanotubes. Journal of Applied Physics, 2005, 97, 074310. | 1.1 | 76 |
| 543 | Fluid structure and transport properties of water inside carbon nanotubes. Journal of Chemical Physics, 2005, 123, 234701. | 1.2 | 136 |
| 544 | Effects of oxygen on the electron transport properties of carbon nanotubes: Ultraviolet desorption and thermally induced processes. Physical Review B, 2005, 71, . | 1.1 | 47 |
| 545 | Quantum mechanical understanding of field dependence of the apex barrier of a single-wall carbon nanotube. Physical Review B, 2005, 72, . | 1.1 | 26 |
| 546 | Effect of Kapitza contact and consideration of tube-end transport on the effective conductivity in nanotube-based composites. Journal of Applied Physics, 2005, 97, 104312. | 1.1 | 44 |
| 547 | Polarization of metallic carbon nanotubes from a model that includes both net charges and dipoles. Physical Review B, 2005, 71, . | 1.1 | 55 |
| 548 | Quasi-aligned single-crystalline GaN nanowire arrays. Applied Physics Letters, 2005, 87, 073106. | 1.5 | 68 |
| 549 | Structures and stability of defect-free multiwalled carbon toroidal rings. Journal of Applied Physics, 2005, 98, 113522. | 1.1 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 550 | Efficient field emission from Fe_2O_3 nanoflakes on an atomic force microscope tip. Applied Physics Letters, 2005, 87, 023103. | 1.5 | 82 |
| 551 | Adhesion between single-walled carbon nanotubes. Journal of Applied Physics, 2005, 97, 074304. | 1.1 | 52 |
| 552 | Magnetically steered liquid crystal-nanotube switch. Applied Physics Letters, 2005, 87, 233507. | 1.5 | 70 |
| 553 | Dielectrophoretic micro/nanoassembly with microtweezers and nanoelectrodes. , 0, , . | | 11 |
| 554 | Protein-functionalized carbon nanotube-polymer composites. Applied Physics Letters, 2005, 86, 113104. | 1.5 | 69 |
| 555 | Femtosecond Spectroscopy of Optical Excitations in Single-Walled Carbon Nanotubes: Evidence for Exciton-Exciton Annihilation. Physical Review Letters, 2005, 94, 157402. | 2.9 | 214 |
| 556 | Study of the current stressing in nanomanipulated three-dimensional carbon nanotube structures. Applied Physics Letters, 2005, 87, 033102. | 1.5 | 14 |
| 557 | Isotropic Knight shift of metallic carbon nanotubes. Physical Review B, 2005, 72, . | 1.1 | 21 |
| 558 | A monopole-dipole model to compute the polarization of metallic carbon nanotubes. Applied Physics Letters, 2005, 86, 153110. | 1.5 | 28 |
| 559 | Effects of dangling ends on the conductance of side-contacted carbon nanotubes. Physical Review B, 2005, 72, . | 1.1 | 13 |
| 560 | Signature of the Aharonov-Bohm phase in field emission of carbon nanotubes under magnetic fields. Physical Review B, 2005, 72, . | 1.1 | 3 |
| 561 | Single-crystalline nanotubes of IIB-VI semiconductors. Applied Physics Letters, 2005, 87, 113107. | 1.5 | 46 |
| 562 | Structure and thermal expansion of multi-walled carbon nanotubes before and after high temperature treatment. Journal Physics D: Applied Physics, 2005, 38, 4302-4307. | 1.3 | 74 |
| 563 | EFFECT OF THE VAN DER WAALS INTERACTION ON ANALYSIS OF DOUBLE-WALLED CARBON NANOTUBES. International Journal of Structural Stability and Dynamics, 2005, 05, 457-474. | 1.5 | 4 |
| 564 | Effect of carbon nanofibre structure on the binding of antibodies. Nanotechnology, 2005, 16, 567-571. | 1.3 | 25 |
| 565 | Engineered metal-oxide-metal heterojunction nanowires. Journal of Materials Research, 2005, 20, 2613-2617. | 1.2 | 29 |
| 566 | Integrated nanotube microcooler for microelectronics applications. , 0, , . | | 17 |
| 567 | Fabrication of carbon nanotube-based microcapsules by a colloid templating technique. Nanotechnology, 2005, 16, 1522-1525. | 1.3 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 568 | Aligned carbon nanotubes for electrical interconnect and thermal management. , 0, , . | | 13 |
| 569 | Preparation of Single-Walled Carbon Nanotube Solids and Their Mechanical Properties. Journal of Materials Research, 2005, 20, 2609-2612. | 1.2 | 13 |
| 570 | Continuous Production of Polycarbonate-Carbon Nanotube Composites. Journal of Polymer Engineering, 2005, 25, . | 0.6 | 1 |
| 571 | Synthesis of single-crystalline β -Si ₃ N ₄ nanobelts by extended vapour "liquid" solid growth. Nanotechnology, 2005, 16, 2282-2287. | 1.3 | 66 |
| 572 | Investigations of dc electrical properties in electron-beam modified carbon nanotube films: single- and multiwalled. Materials Research Society Symposia Proceedings, 2005, 887, 1. | 0.1 | 2 |
| 573 | Self-Assembly and Nanostructured Materials. , 2005, , 217-239. | | 50 |
| 574 | Feature Article: Versatile Carbon Nanotubes: Synthesis, Purification and Their Applications. Polymer News, 2005, 30, 6-13. | 0.1 | 1 |
| 575 | Resonant Raman studies on multi walled carbon nanotubes treated in acids. , 2005, 5824, 50. | | 0 |
| 576 | Mesoscale modelling: recent developments and applications to nanocomposites, drug delivery and precipitation membranes. International Journal of Nanotechnology, 2005, 2, 198. | 0.1 | 30 |
| 577 | Structure Analyses of Dodecylated Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 13941-13948. | 6.6 | 67 |
| 578 | Properties of Polyaniline/Carbon Nanotube Multilayer Films in Neutral Solution and Their Application for Stable Low-Potential Detection of Reduced β -Nicotinamide Adenine Dinucleotide. Langmuir, 2005, 21, 5596-5599. | 1.6 | 130 |
| 579 | Fabrication and characterization of magnetic carbon nanotube composites. Journal of Materials Chemistry, 2005, 15, 4497. | 6.7 | 81 |
| 580 | Attachment of Magnetic Nanoparticles on Carbon Nanotubes and Their Soluble Derivatives. Chemistry of Materials, 2005, 17, 1613-1617. | 3.2 | 225 |
| 581 | Biomedical applications of functionalised carbon nanotubes. Chemical Communications, 2005, , 571. | 2.2 | 953 |
| 582 | Super-Compressible Foamlike Carbon Nanotube Films. Science, 2005, 310, 1307-1310. | 6.0 | 743 |
| 583 | Synthesis and characterization of diamond nanowires from carbon nanotubes. Diamond and Related Materials, 2005, 14, 749-752. | 1.8 | 41 |
| 584 | Synthesis and characterization of metal-filled carbon nanotubes by microwave plasma chemical vapor deposition. Diamond and Related Materials, 2005, 14, 790-793. | 1.8 | 24 |
| 585 | Field emission properties and stability of thermally treated photosensitive carbon nanotube paste with different inorganic binders. Diamond and Related Materials, 2005, 14, 2113-2117. | 1.8 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 586 | Effects of binders and organic vehicles on the emission properties of carbon nanotube paste. <i>Diamond and Related Materials</i> , 2005, 14, 1463-1468. | 1.8 | 13 |
| 587 | Polymer nanofibers by soft lithography. <i>Applied Physics Letters</i> , 2005, 87, 123109. | 1.5 | 32 |
| 588 | Growth of Aligned Carbon Nanotube Arrays for Electrical Interconnect. , 0, , . | | 5 |
| 589 | The two-step chemical vapor deposition of Pd(allyl)Cp as an atom-efficient route to synthesize highly dispersed palladium nanoparticles on carbon nanofibers. <i>Chemical Communications</i> , 2005, , 282-284. | 2.2 | 59 |
| 590 | Effects of dangling ends on the conductance of side-contacted carbon nanotubes. , 0, , . | | 0 |
| 591 | Rational design of oligopeptide organizers for the formation of poly(ethylene oxide) nanofibers. <i>Chemical Communications</i> , 2005, , 2814. | 2.2 | 122 |
| 592 | Electric Double-Layer Capacitors Using "Bucky Gels" Consisting of an Ionic Liquid and Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , 2005, 152, A1913. | 1.3 | 83 |
| 593 | Aligned Carbon Nanotube Stacks by Water-Assisted Selective Etching. <i>Nano Letters</i> , 2005, 5, 2641-2645. | 4.5 | 120 |
| 594 | Parametric excitation of higher-order electromechanical vibrations of carbon nanotubes. <i>Physical Review B</i> , 2005, 72, . | 1.1 | 14 |
| 595 | Controllable p and n doping of single-walled carbon nanotubes by encapsulation of organic molecules and fullerene: A theoretical investigation. <i>Applied Physics Letters</i> , 2005, 86, 223113. | 1.5 | 17 |
| 596 | Recent Advances on Polymers and Polymer Nanocomposites for Advanced Electronic Packaging Applications. , 2005, , . | | 5 |
| 597 | Chapter 7 New materials for biosensors, biochips and molecular bioelectronics. <i>Comprehensive Analytical Chemistry</i> , 2005, , 285-327. | 0.7 | 16 |
| 598 | New carbon-rich materials for electronics, lithium battery, and hydrogen storage applications. <i>Chemical Communications</i> , 2005, , 2197. | 2.2 | 59 |
| 599 | Combining one-, two- and three-dimensional polyphenylene nanostructures. <i>Journal of Materials Chemistry</i> , 2005, 15, 41-52. | 6.7 | 50 |
| 600 | Peptide cross-linking modulated stability and assembly of peptide-wrapped single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2005, 15, 1734. | 6.7 | 52 |
| 601 | Electrical properties of inorganic nanowire" polymer composites. <i>Journal of Materials Chemistry</i> , 2005, 15, 4922. | 6.7 | 71 |
| 602 | Hot filament chemical vapour deposition processing of titanate nanotube coatings. <i>Nanotechnology</i> , 2005, 16, 1186-1191. | 1.3 | 15 |
| 603 | Production of Carbon Nanofibers in High Yields Using a Sodium Chloride Support. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16665-16670. | 1.2 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 604 | Carbon Nanotube-Poly(vinylalcohol) Nanocomposite Film Devices: Applications for Femtosecond Fiber Laser Mode Lockers and Optical Amplifier Noise Suppressors. Japanese Journal of Applied Physics, 2005, 44, 1621-1625. | 0.8 | 90 |
| 605 | Functional One-Dimensional Lipid Bilayers on Carbon Nanotube Templates. Journal of the American Chemical Society, 2005, 127, 7538-7542. | 6.6 | 58 |
| 606 | Effects of catalyst film thickness on plasma-enhanced carbon nanotube growth. Journal of Applied Physics, 2005, 98, 034308. | 1.1 | 123 |
| 607 | Dispersion of Single-Walled Carbon Nanotubes of Narrow Diameter Distribution. Journal of Physical Chemistry B, 2005, 109, 14454-14460. | 1.2 | 254 |
| 608 | β -1,3-Glucan polysaccharides as novel one-dimensional hosts for DNA/RNA, conjugated polymers and nanoparticles. Chemical Communications, 2005, , 4383. | 2.2 | 116 |
| 609 | Aligned Double-Walled Carbon Nanotube Long Ropes with a Narrow Diameter Distribution. Journal of Physical Chemistry B, 2005, 109, 7169-7173. | 1.2 | 45 |
| 610 | Submicron Patterning of Iron Nanoparticle Monolayers for Carbon Nanotube Growth. Chemistry of Materials, 2005, 17, 237-241. | 3.2 | 46 |
| 611 | Electrocatalytic Oxidation of DNA-Wrapped Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 11952-11953. | 6.6 | 56 |
| 612 | Vacuum Field Effects in Atomically Doped Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 21-31. | 1.0 | 0 |
| 613 | Colloidal Particles Coated and Stabilized by DNA-Wrapped Carbon Nanotubes. Langmuir, 2005, 21, 10284-10287. | 1.6 | 51 |
| 614 | Inclusion of Cut and As-Grown Single-Walled Carbon Nanotubes in the Helical Superstructure of Schizophyllan and Curdlan (β -1,3-Glucans). Journal of the American Chemical Society, 2005, 127, 5875-5884. | 6.6 | 225 |
| 615 | ^{129}Xe and ^{131}Xe NMR of Gas Adsorption on Single- and Multi-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 17907-17912. | 1.2 | 35 |
| 616 | Dispersion of Acid-Treated Carbon Nanofibers into Gel Matrices Prepared by the Sol-Gel Method. Journal of Physical Chemistry B, 2005, 109, 23170-23174. | 1.2 | 22 |
| 617 | Control of Carbon Nanotube-Surface Interactions: The Role of Grafted Polymers. Langmuir, 2005, 21, 12072-12075. | 1.6 | 29 |
| 618 | Covalent Cross-Linked Polymer/Single-Wall Carbon Nanotube Multilayer Films. Chemistry of Materials, 2005, 17, 2131-2135. | 3.2 | 71 |
| 619 | Polymer-Assisted Dispersion of Single-Walled Carbon Nanotubes in Alcohols and Applicability toward Carbon Nanotube/Sol-Gel Composite Formation. Langmuir, 2005, 21, 1055-1061. | 1.6 | 81 |
| 620 | Dynamics and Density Profile of Water in Nanotubes as One-Dimensional Fluid. Langmuir, 2005, 21, 12025-12030. | 1.6 | 75 |
| 621 | Exciton Binding Energy in Semiconducting Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 15671-15674. | 1.2 | 110 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 622 | Growth of Conical Carbon Nanotubes by Chemical Reduction of MgCO ₃ . Journal of Physical Chemistry B, 2005, 109, 10557-10560. | 1.2 | 22 |
| 623 | Parallel Alignment of Carbon Nanotubes Induced with Inorganic Molecules. Langmuir, 2005, 21, 12068-12071. | 1.6 | 5 |
| 624 | Single-Walled Carbon Nanotube-Based Coaxial Nanowires: Synthesis, Characterization, and Electrical Properties. Journal of Physical Chemistry B, 2005, 109, 1101-1107. | 1.2 | 70 |
| 625 | Persistence Length Control of the Polyelectrolyte Layer-by-Layer Self-Assembly on Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 14176-14177. | 6.6 | 43 |
| 626 | Near-Edge X-ray Absorption Fine Structure Investigations of Order in Carbon Nanotube-Based Systems. Journal of Physical Chemistry B, 2005, 109, 8489-8495. | 1.2 | 76 |
| 627 | Vapor-Solid Growth and Characterization of Aluminum Nitride Nanocones. Journal of the American Chemical Society, 2005, 127, 1318-1322. | 6.6 | 258 |
| 628 | Optically Active Polymer Carbon Nanotube Composite. Journal of Physical Chemistry B, 2005, 109, 22725-22729. | 1.2 | 47 |
| 629 | Formation of Two-Dimensional Array of Multiwalled Carbon Nanotubes in Polystyrene/Poly(methyl Methacrylate) Nanocomposites. Journal of Physical Chemistry B, 2005, 109, 22725-22729. | 2.2 | 25 |
| 630 | Carbon Nanotubes for Biomedical Applications. IEEE Transactions on Nanobioscience, 2005, 4, 180-195. | 2.2 | 348 |
| 631 | Actuator Based on MWNT/PVA Hydrogels. Journal of Physical Chemistry B, 2005, 109, 14789-14791. | 1.2 | 62 |
| 632 | Investigations on hydrogen storage behavior of CNT doped NaAlH ₄ . Journal of Alloys and Compounds, 2005, 403, 312-317. | 2.8 | 64 |
| 633 | SWNTs coated by conducting polyaniline: Synthesis and modified properties. Synthetic Metals, 2005, 151, 131-135. | 2.1 | 114 |
| 634 | Novel Electrochemical Biosensing Platform Using Self-Assembled Peptide Nanotubes. Nano Letters, 2005, 5, 183-186. | 4.5 | 289 |
| 635 | Effect of SOCl ₂ Treatment on Electrical and Mechanical Properties of Single-Wall Carbon Nanotube Networks. Journal of the American Chemical Society, 2005, 127, 5125-5131. | 6.6 | 330 |
| 636 | Materials for fluorescence-based optical chemical sensors. Journal of Materials Chemistry, 2005, 15, 2657. | 6.7 | 448 |
| 637 | Mechanical Properties of Continuously Spun Fibers of Carbon Nanotubes. Nano Letters, 2005, 5, 1529-1533. | 4.5 | 178 |
| 638 | Pen-writable nanocarbon arrays fabricated using liquid-crystalline materials for potential use in displays. Journal of the Society for Information Display, 2005, 13, 735. | 0.8 | 0 |
| 639 | Synthesis of Water-Soluble Multiwalled Carbon Nanotubes with Grafted Temperature-Responsive Shells by Surface RAFT Polymerization. Chemistry of Materials, 2005, 17, 2247-2254. | 3.2 | 288 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 640 | Nanotube-polymer composites: insights from Flory-Huggins theory and mesoscale simulations. <i>Molecular Simulation</i> , 2005, 31, 143-149. | 0.9 | 104 |
| 641 | Synthesis and Optical Properties of Gallium Phosphide Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19719-19722. | 1.2 | 59 |
| 642 | Effect of single wall carbon nanotubes on human HEK293 cells. <i>Toxicology Letters</i> , 2005, 155, 73-85. | 0.4 | 773 |
| 643 | Defect-induced vibrational response of multi-walled carbon nanotubes using resonance Raman spectroscopy. <i>Journal of Materials Research</i> , 2005, 20, 3368-3373. | 1.2 | 56 |
| 644 | Large-scale synthesis and field emission properties of vertically oriented CuO nanowire films. <i>Nanotechnology</i> , 2005, 16, 88-92. | 1.3 | 348 |
| 645 | Single-Walled Carbon Nanotube Purification, Pelletization, and Surfactant-Assisted Dispersion: A Combined TEM and Resonant Micro-Raman Spectroscopy Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4455-4463. | 1.2 | 70 |
| 646 | Carbon nanotube-polymer nanocomposites: The role of interfaces. <i>Composite Interfaces</i> , 2005, 11, 567-586. | 1.3 | 93 |
| 647 | Electrochemical fabrication and capacitance of composite films of carbon nanotubes and polyaniline. <i>Journal of Materials Chemistry</i> , 2005, 15, 2297. | 6.7 | 167 |
| 648 | Carbon Nanotubes Loaded with Magnetic Particles. <i>Nano Letters</i> , 2005, 5, 879-884. | 4.5 | 393 |
| 649 | Wave propagation in carbon nanotubes via nonlocal continuum mechanics. <i>Journal of Applied Physics</i> , 2005, 98, 124301. | 1.1 | 563 |
| 650 | Growth of Si nanowires by thermal evaporation. <i>Nanotechnology</i> , 2005, 16, 417-421. | 1.3 | 86 |
| 651 | Carbon Nanotube-Adsorbed Polystyrene and Poly(methyl methacrylate) Microspheres. <i>Chemistry of Materials</i> , 2005, 17, 4034-4037. | 3.2 | 146 |
| 652 | Field emission and photoluminescence of SnO ₂ nanograss. <i>Journal of Applied Physics</i> , 2005, 98, 124303. | 1.1 | 68 |
| 653 | A novel method for the fabrication of high-aspect ratio C-MEMS structures. <i>Journal of Microelectromechanical Systems</i> , 2005, 14, 348-358. | 1.7 | 202 |
| 654 | Controlled Syntheses of Aligned Multi-Walled Carbon Nanotubes: Catalyst Particle Size and Density Control via Layer-by-Layer Assembling. <i>Chemistry of Materials</i> , 2005, 17, 6599-6604. | 3.2 | 20 |
| 655 | DNA Functionalized Single-Walled Carbon Nanotubes for Electrochemical Detection. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20072-20076. | 1.2 | 127 |
| 656 | Synthesis and characterization of phase controllable ZrO ₂ -carbon nanotube nanocomposites. <i>Nanotechnology</i> , 2005, 16, 625-630. | 1.3 | 93 |
| 657 | Atomistic simulations of formation and stability of carbon nanorings. <i>Physical Review B</i> , 2005, 72, . | 1.1 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 658 | Stability analysis of carbon nanotubes via continuum models. <i>Smart Materials and Structures</i> , 2005, 14, 281-286. | 1.8 | 56 |
| 659 | Morphological effects on the field emission of ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2005, 86, 203115. | 1.5 | 243 |
| 660 | FUNDAMENTALS OF FRACTURE IN BIO-BASED POLYMERS. , 2005, , 149-201. | | 3 |
| 661 | Functionalization of Carbon Nanotubes with Derivatized Polyimide. <i>Macromolecules</i> , 2005, 38, 7670-7675. | 2.2 | 85 |
| 662 | Diameter-Selective Solubilization of Single-Walled Carbon Nanotubes by Reversible Cyclic Peptides. <i>Journal of the American Chemical Society</i> , 2005, 127, 9512-9517. | 6.6 | 157 |
| 663 | Single-Wall Carbon Nanotube-Based Proton Exchange Membrane Assembly for Hydrogen Fuel Cells. <i>Langmuir</i> , 2005, 21, 8487-8494. | 1.6 | 214 |
| 664 | Determination of MWNTs length-to-diameter ratio by static and dynamic light scattering. <i>Diamond and Related Materials</i> , 2005, 14, 846-849. | 1.8 | 11 |
| 665 | Calculation of the electrostatic forces that act on carbon nanotubes placed in the vicinity of metallic protrusions. <i>Nanotechnology</i> , 2005, 16, 2685-2695. | 1.3 | 20 |
| 666 | Bioelectrochemically Functional Nanohybrids through Co-Assembling of Proteins and Surfactants onto Carbon Nanotubes:â€‰ Facilitated Electron Transfer of Assembled Proteins with Enhanced Faradic Response. <i>Langmuir</i> , 2005, 21, 6560-6566. | 1.6 | 115 |
| 667 | Importance of Aromatic Content for Peptide/Single-Walled Carbon Nanotube Interactions. <i>Journal of the American Chemical Society</i> , 2005, 127, 12323-12328. | 6.6 | 176 |
| 668 | Coupled defect-size effects on interlayer friction in multiwalled carbon nanotubes. <i>Physical Review B</i> , 2005, 72, . | 1.1 | 73 |
| 669 | Raman Spectral Imaging of a Carbon Nanotube Intramolecular Junction. <i>Physical Review Letters</i> , 2005, 94, 016802. | 2.9 | 71 |
| 670 | CVD Growth of Single-Walled Carbon Nanotubes with Narrow Diameter Distribution over Fe/MgO Catalyst and Their Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10035-10041. | 1.2 | 125 |
| 671 | Raman Spectroscopy and Imaging of Ultralong Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3751-3758. | 1.2 | 75 |
| 672 | Carbon Nanotubeâ€™Metal Cluster Composites:Â A New Road to Chemical Sensors?. <i>Nano Letters</i> , 2005, 5, 847-851. | 4.5 | 209 |
| 673 | Liquid crystalâ€“carbon nanotube dispersions. <i>Journal of Applied Physics</i> , 2005, 97, 044309. | 1.1 | 370 |
| 674 | Noise in carbon nanotube electronics (Invited Paper). , 2005, 5846, 92. | | 3 |
| 675 | Accurate determination of atomic structure of multiwalled carbon nanotubes by nondestructive nanobeam electron diffraction. <i>Applied Physics Letters</i> , 2005, 86, 191903. | 1.5 | 38 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 676 | van der Waals coupling in atomically doped carbon nanotubes. <i>Physical Review B</i> , 2005, 72, . | 1.1 | 48 |
| 677 | Electrical Properties of Soluble Carbon Nanotube/Polymer Composite Films. <i>Chemistry of Materials</i> , 2005, 17, 130-135. | 3.2 | 106 |
| 678 | Controllable Pt Nanoparticle Deposition on Carbon Nanotubes as an Anode Catalyst for Direct Methanol Fuel Cells. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22212-22216. | 1.2 | 454 |
| 679 | Ultrasensitive voltammetric detection of trace heavy metal ions using carbon nanotube nanoelectrode array. <i>Analyst, The</i> , 2005, 130, 1098. | 1.7 | 134 |
| 680 | Substrate-Enhanced Electroless Deposition of Metal Nanoparticles on Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2005, 127, 10806-10807. | 6.6 | 291 |
| 681 | Purification and defect elimination of single-walled carbon nanotubes by the thermal reduction technique. <i>Nanotechnology</i> , 2005, 16, 639-646. | 1.3 | 14 |
| 682 | Peptide Nanotube-Modified Electrodes for Enzyme Biosensor Applications. <i>Analytical Chemistry</i> , 2005, 77, 5155-5159. | 3.2 | 252 |
| 683 | Real-Time Observation of Tubule Formation from Amorphous Carbon Nanowires under High-Bias Joule Heating. <i>Nano Letters</i> , 2006, 6, 1699-1705. | 4.5 | 112 |
| 684 | Optical absorption by atomically doped carbon nanotubes. <i>Physical Review B</i> , 2006, 74, . | 1.1 | 17 |
| 685 | Adsorption of multi-walled carbon nanotube onto poly(methyl methacrylate) microsphere and its electrorheology. <i>Diamond and Related Materials</i> , 2006, 15, 1094-1097. | 1.8 | 25 |
| 686 | Blood Compatible Carbon Nanotubes Nano-based Neoproteoglycans. <i>Langmuir</i> , 2006, 22, 3461-3463. | 1.6 | 104 |
| 687 | Theoretical and Experimental Investigation of Morphology and Temperature Effects on Adsorption of Organic Vapors in Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7640-7647. | 1.2 | 93 |
| 688 | Electronic Fluctuations in Nanotube Circuits and Their Sensitivity to Gases and Liquids. <i>Nano Letters</i> , 2006, 6, 1564-1568. | 4.5 | 22 |
| 689 | Electromagnetic Interference (EMI) Shielding of Single-Walled Carbon Nanotube Epoxy Composites. <i>Nano Letters</i> , 2006, 6, 1141-1145. | 4.5 | 1,106 |
| 690 | Silylation of Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 4827-4839. | 3.2 | 70 |
| 691 | The advantage of using carbon nanotubes compared with edge plane pyrolytic graphite as an electrode material for oxidase-based biosensors. <i>Analyst, The</i> , 2006, 131, 1292. | 1.7 | 29 |
| 692 | Poly(L-lactide) (PLLA)/Multiwalled Carbon Nanotube (MWCNT) Composite: Characterization and Biocompatibility Evaluation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12910-12915. | 1.2 | 220 |
| 693 | The quantitative characterization of the concentration and dispersion of multi-walled carbon nanotubes in suspension by spectrophotometry. <i>Nanotechnology</i> , 2006, 17, 3692-3698. | 1.3 | 94 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 694 | Assembly of Metal Nanoparticle-Carbon Nanotube Composite Materials at the Liquid/Liquid Interface. <i>Langmuir</i> , 2006, 22, 1817-1821. | 1.6 | 77 |
| 695 | Shear-Induced Orientation and Structure Development in Isotactic Polypropylene Melt Containing Modified Carbon Nanofibers. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 247-261. | 0.4 | 31 |
| 697 | Carbon Nanofiber-Based Glucose Biosensor. <i>Analytical Chemistry</i> , 2006, 78, 5538-5542. | 3.2 | 290 |
| 698 | Raman study of multiwalled carbon nanotubes functionalized with oxygen groups. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 715. | 1.3 | 220 |
| 699 | Porous hollow carbon nanotube composite cages. <i>Chemical Communications</i> , 2006, , 1206. | 2.2 | 27 |
| 700 | Isolation and Characterization of Fluorescent Nanoparticles from Pristine and Oxidized Electric Arc-Produced Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 831-836. | 1.2 | 187 |
| 701 | Effect of Rare-Earth Component of the RE/Ni Catalyst on the Formation and Nanostructure of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15284-15290. | 1.2 | 22 |
| 702 | Single Wall Carbon Nanotube Amplification: A Route to a Type-Specific Growth Mechanism. <i>Journal of the American Chemical Society</i> , 2006, 128, 15824-15829. | 6.6 | 209 |
| 703 | Growth kinetics and microstructure of carbon nanotubes using open air laser chemical vapor deposition. <i>Diamond and Related Materials</i> , 2006, 15, 1438-1446. | 1.8 | 3 |
| 704 | Effects of Gas Adsorption on the Electrical Conductivity of Single-Wall Carbon Nanohorns. <i>Nano Letters</i> , 2006, 6, 1325-1328. | 4.5 | 89 |
| 705 | Bond-Curvature Effect of Sidewall [2+1] Cycloadditions of Single-Walled Carbon Nanotubes: A New Criterion To the Adduct Structures. <i>Chemistry of Materials</i> , 2006, 18, 3579-3584. | 3.2 | 43 |
| 706 | Surfactant-Assisted Route to Synthesize Well-Aligned ZnO Nanorod Arrays on Sol-Gel-Derived ZnO Thin Films. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14266-14272. | 1.2 | 86 |
| 707 | In-Depth Study into the Interaction of Single Walled carbon Nanotubes with Anthracene and p-Terphenyl. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3895-3901. | 1.2 | 46 |
| 708 | Aqueous colloidal processing of single-wall carbon nanotubes and their composites with ceramics. <i>Nanotechnology</i> , 2006, 17, 1770-1777. | 1.3 | 96 |
| 709 | A Biomimetic "Polysoap" for Single-Walled Carbon Nanotube Dispersion. <i>Journal of the American Chemical Society</i> , 2006, 128, 6556-6557. | 6.6 | 80 |
| 710 | Nonequilibrium Carrier Dynamics in Semiconductors. <i>Springer Proceedings in Physics</i> , 2006, , . | 0.1 | 6 |
| 711 | Dispersion and Rheological Aspects of SWNTs in Ultrahigh Molecular Weight Polyethylene. <i>Macromolecules</i> , 2006, 39, 658-666. | 2.2 | 208 |
| 712 | Nonequilibrium Phase Diagram of Sticky Nanotube Suspensions. <i>Physical Review Letters</i> , 2006, 97, 036101. | 2.9 | 113 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 713 | Epitaxial GaN nanorods free from strain and luminescent defects. Applied Physics Letters, 2006, 88, 153124. | 1.5 | 23 |
| 714 | Effect of length, spacing and morphology of vertically aligned RuO ₂ nanostructures on field-emission properties. Nanotechnology, 2006, 17, 3149-3153. | 1.3 | 19 |
| 715 | Ribbon-to-Fiber Transformation in the Process of Spinning of Carbon-Nanotube Dispersion. Physical Review Letters, 2006, 97, 188303. | 2.9 | 16 |
| 716 | Freestanding carbon nanowalls by microwave plasma-enhanced chemical vapour deposition. Diamond and Related Materials, 2006, 15, 1103-1106. | 1.8 | 91 |
| 717 | Life-Cycle Effects of Single-Walled Carbon Nanotubes (SWNTs) on an Estuarine Meiobenthic Copepod. Environmental Science & Technology, 2006, 40, 7387-7393. | 4.6 | 209 |
| 718 | Separating spin and charge transport in single-wall carbon nanotubes. Physical Review B, 2006, 73, . | 1.1 | 95 |
| 719 | Pseudo Y-Junction Single-Walled Carbon Nanotube Based Ambipolar Transistor Operating at Room Temperature. IEEE Nanotechnology Magazine, 2006, 5, 731-736. | 1.1 | 7 |
| 720 | ZnO nanoresistors by vapor phase transport method. , 0, , . | | 0 |
| 721 | Local Growth of Carbon Nanotubes with a Simple Mask CVD Method on 3-D substrates. , 2006, , . | | 0 |
| 722 | Electrophoretic Deposition of Carbon Nanotubes on Metallic Surfaces. Key Engineering Materials, 2006, 314, 141-146. | 0.4 | 33 |
| 723 | Carbon Nanotubes and Si Nanowires as an Alternative Route to Future Nanoelectronics. , 0, , . | | 0 |
| 724 | A micro-scale multi-frequency reactance measurement technique to detect bacterial growth at low bio-particle concentrations. Lab on A Chip, 2006, 6, 682. | 3.1 | 35 |
| 725 | Functionalized carbon nanotubes as sensitive materials for electrochemical detection of ultra-trace 2,4,6-trinitrotoluene. Physical Chemistry Chemical Physics, 2006, 8, 3567. | 1.3 | 66 |
| 726 | Localized growth of suspended SWCNTs by means of an "all-laser" process and their direct integration into nanoelectronic devices. IEEE Nanotechnology Magazine, 2006, 5, 237-242. | 1.1 | 6 |
| 727 | In-situ Opening Aligned Carbon Nanotubes and Applications for Device Assembly and Field Emission. , 2006, , . | | 11 |
| 728 | Multigap Pseudospark Switches for High Voltage Applications. , 2006, , . | | 3 |
| 729 | Controlled Growth of Well-Aligned Carbon Nanotubes and Their Assembly. , 0, , . | | 0 |
| 730 | Elastic properties of nanowires. Journal of Applied Physics, 2006, 99, 094310. | 1.1 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 731 | In-Situ Opening Aligned Carbon Nanotube Films/Arrays for Multichannel Ballistic Transport in Electrical Interconnect. , 0, , . | | 6 |
| 732 | Transmission through the band-gap states in Schottky-barrier carbon nanotube transistors. IEEE Nanotechnology Magazine, 2006, 5, 80-83. | 1.1 | 1 |
| 733 | Nanocomposite for Advanced Packaging of Microelectronics. , 2006, , . | | 1 |
| 734 | A Customized Radiation Sensor for Ionization Collection. IEEE Sensors Journal, 2006, 6, 1523-1530. | 2.4 | 1 |
| 735 | Fabrication of suspended single-walled carbon nanotubes via a direct lithographic route. Journal of Materials Chemistry, 2006, 16, 174-178. | 6.7 | 8 |
| 736 | Carbon nanotubes: enhancing the polymer building blocks for intelligent materials. Journal of Materials Chemistry, 2006, 16, 3598. | 6.7 | 64 |
| 737 | Imperfect surface order and functionalization in vertical carbon nanotube arrays probed by near edge X-ray absorption fine structure spectroscopy (NEXAFS). Physical Chemistry Chemical Physics, 2006, 8, 5038. | 1.3 | 20 |
| 738 | Conjugating self-assembling rigid rings to flexible polymer coils for the design of organic nanotubes. Soft Matter, 2006, 2, 1005. | 1.2 | 35 |
| 739 | Study and characterization of tobacco mosaic virus head-to-tail assembly assisted by aniline polymerization. Chemical Communications, 2006, , 3019. | 2.2 | 82 |
| 740 | Utilizing polymers for shaping the interfacial behavior of carbon nanotubes. Soft Matter, 2006, 2, 24-28. | 1.2 | 47 |
| 741 | Interwall interaction and elastic properties of carbon nanotubes. Physical Review B, 2006, 73, . | 1.1 | 59 |
| 742 | Carbon Nanotubes for Potential Device and Interconnect Applications. , 2006, , . | | 4 |
| 743 | Coating carbon nanotubes with polymer in supercritical carbon dioxide. Chemical Communications, 2006, , 1670. | 2.2 | 26 |
| 744 | Characterize the Thermal Properties of the Vertical Aligned Carbon Nanotubes Array Used for IC Cooling with Photothermal Method. , 2006, , . | | 1 |
| 745 | Ultrathin Transparent Conductive Films of Polymer-Modified Multiwalled Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 14640-14644. | 1.2 | 46 |
| 746 | Interactions between Individual Carbon Nanotubes Studied by Rayleigh Scattering Spectroscopy. Physical Review Letters, 2006, 96, 167401. | 2.9 | 117 |
| 747 | Electrical measurement on individual multi-walled carbon nanotubes. Transactions of Nonferrous Metals Society of China, 2006, 16, s772-s775. | 1.7 | 0 |
| 748 | One-Pot Synthesis of Poly(cyclotriphosphazene-co-4,4'-sulfonyldiphenol) Nanotubes via an In-Situ Template Approach. Advanced Materials, 2006, 18, 2997-3000. | 11.1 | 167 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 749 | Separation of Semiconducting from Metallic Carbon Nanotubes by Selective Functionalization with Azomethine Ylides. <i>Journal of the American Chemical Society</i> , 2006, 128, 6552-6553. | 6.6 | 126 |
| 750 | Electrical conductivity and dielectric properties of multiwalled carbon nanotube and alumina composites. <i>Applied Physics Letters</i> , 2006, 89, 133122. | 1.5 | 197 |
| 751 | Single-Walled Carbon Nanotubes Template the One-Dimensional Ordering of a Polythiophene Derivative. <i>Organic Letters</i> , 2006, 8, 5489-5492. | 2.4 | 83 |
| 752 | Fracture of vacancy-defected carbon nanotubes and their embedded nanocomposites. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 67 |
| 753 | Water-Solubilization of Nucleotides-Coated Single-Walled Carbon Nanotubes Using a High-Speed Vibration Milling Technique. <i>Organic Letters</i> , 2006, 8, 1153-1156. | 2.4 | 65 |
| 754 | Fuel-Powered Artificial Muscles. <i>Science</i> , 2006, 311, 1580-1583. | 6.0 | 140 |
| 755 | High-pressure pyrolysis of melamine route to nitrogen-doped conical hollow and bamboo-like carbon nanotubes. <i>Diamond and Related Materials</i> , 2006, 15, 164-170. | 1.8 | 52 |
| 756 | Fabrication of carbon nanotube emitter on the flexible substrate. <i>Diamond and Related Materials</i> , 2006, 15, 44-48. | 1.8 | 23 |
| 757 | Single-Step in Situ Preparation of Polymer-Grafted Multi-Walled Carbon Nanotube Composites under ^{60}Co γ -Ray Irradiation. <i>Chemistry of Materials</i> , 2006, 18, 2929-2934. | 3.2 | 82 |
| 758 | Generation of Hydrophilic, Bamboo-Shaped Multiwalled Carbon Nanotubes by Solid-State Pyrolysis and Its Electrochemical Studies. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2037-2044. | 1.2 | 74 |
| 759 | In Situ Synthesis, Magnetic Property, and Formation Mechanism of Fe_3O_4 Particles Encapsulated in 1D Bamboo-Shaped Carbon Microtubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3871-3875. | 1.2 | 34 |
| 760 | Aligned carbon nanotubes grown on alumina and quartz substrates by a simple thermal CVD process. <i>Diamond and Related Materials</i> , 2006, 15, 1059-1063. | 1.8 | 34 |
| 761 | Lateral growth of single wall carbon nanotubes on various substrates by means of an "all-laser" synthesis approach. <i>Diamond and Related Materials</i> , 2006, 15, 1064-1069. | 1.8 | 2 |
| 762 | Magnetic response and NMR spectra of carbon nanotubes from ab initio calculations. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 69 |
| 763 | Exciton-exciton annihilation in single-walled carbon nanotubes. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 75 |
| 764 | Vibration of carbon nanotubes studied using nonlocal continuum mechanics. <i>Smart Materials and Structures</i> , 2006, 15, 659-666. | 1.8 | 288 |
| 765 | Debundling of Single-Walled Nanotubes by Dilution: Observation of Large Populations of Individual Nanotubes in Amide Solvent Dispersions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15708-15718. | 1.2 | 330 |
| 766 | Uniform Directional Alignment of Single-Walled Carbon Nanotubes in Viscous Polymer Flow. <i>Langmuir</i> , 2006, 22, 1858-1862. | 1.6 | 66 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 767 | Multigram synthesis of copper nanowires using ac electrodeposition into porous aluminium oxide templates. <i>Journal of Materials Chemistry</i> , 2006, 16, 3075. | 6.7 | 69 |
| 768 | Synthesis of, Light Emission from, and Optical Power Limiting in Soluble Single-Walled Carbon Nanotubes Functionalized by Disubstituted Polyacetylenes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2302-2309. | 1.2 | 73 |
| 769 | Single-Walled Carbon Nanotube Growth from Highly Activated Metal Nanoparticles. <i>Nano Letters</i> , 2006, 6, 2642-2645. | 4.5 | 413 |
| 770 | High Yield Multiwall Carbon Nanotube Synthesis in Supercritical Fluids. <i>Chemistry of Materials</i> , 2006, 18, 3356-3364. | 3.2 | 37 |
| 771 | Dynamic electrical properties of polymer-carbon nanotube composites: Enhancement through covalent bonding. <i>Journal of Materials Research</i> , 2006, 21, 1071-1077. | 1.2 | 53 |
| 772 | Composite Electrodeposition of Zinc and Carbon Nanotubes. , 2006, , . | | 4 |
| 773 | Electrospinning carbon nanotube polymer composite nanofibers. <i>Journal of Experimental Nanoscience</i> , 2006, 1, 177-209. | 1.3 | 134 |
| 774 | Characteristics of aligned carbon nanotubes synthesized using a high-rate low-temperature process. <i>Diamond and Related Materials</i> , 2006, 15, 1210-1216. | 1.8 | 27 |
| 775 | A carbon nanotube strain sensor for structural health monitoring. <i>Smart Materials and Structures</i> , 2006, 15, 737-748. | 1.8 | 862 |
| 776 | Shape/Size-Controlled Syntheses of Metal Nanoparticles for Site-Selective Modification of Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2006, 128, 5523-5532. | 6.6 | 203 |
| 777 | V-Type Nerve Agent Detection Using a Carbon Nanotube-Based Amperometric Enzyme Electrode. <i>Analytical Chemistry</i> , 2006, 78, 331-336. | 3.2 | 146 |
| 778 | Electrical Bistability and Memory Phenomenon in Carbon Nanotube-Conjugated Polymer Matrixes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8274-8277. | 1.2 | 98 |
| 779 | Self-Assembly of Linear Arrays of Semiconductor Nanoparticles on Carbon Single-Walled Nanotubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25153-25157. | 1.2 | 26 |
| 780 | Thermionic emission and work function of multiwalled carbon nanotube yarns. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 98 |
| 781 | Directly growing ionic polymers on multi-walled carbon nanotubes via surface RAFT polymerization. <i>Nanotechnology</i> , 2006, 17, 2350-2354. | 1.3 | 64 |
| 782 | Spark light radiation coupled with the field electron emission from carbon nanotube forests. <i>Journal of Applied Physics</i> , 2006, 100, 044327. | 1.1 | 8 |
| 783 | Rheo-optical studies of carbon nanotube suspensions. <i>Journal of Chemical Physics</i> , 2006, 124, 054703. | 1.2 | 42 |
| 784 | Preparation of Poly(acrylic acid) Grafted Multiwalled Carbon Nanotubes by a Two-Step Irradiation Technique. <i>Macromolecules</i> , 2006, 39, 330-334. | 2.2 | 145 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 785 | Charge-dipole model to compute the polarization of fullerenes. <i>Applied Physics Letters</i> , 2006, 89, 063117. | 1.5 | 47 |
| 786 | Toolbox for Dispersing Carbon Nanotubes into Polymers To Get Conductive Nanocomposites. <i>Chemistry of Materials</i> , 2006, 18, 1089-1099. | 3.2 | 496 |
| 787 | Nonlinear stick-spiral model for predicting mechanical behavior of single-walled carbon nanotubes. <i>Physical Review B</i> , 2006, 74, . | 1.1 | 61 |
| 788 | Ultrahigh-Surface-Area Metallic Electrodes by Templated Electroless Deposition on Functionalized Carbon Nanofiber Scaffolds. <i>Chemistry of Materials</i> , 2006, 18, 5398-5400. | 3.2 | 30 |
| 789 | Structure of Semidilute Single-Wall Carbon Nanotube Suspensions and Gels. <i>Nano Letters</i> , 2006, 6, 313-317. | 4.5 | 116 |
| 790 | Sodium Chloride-Catalyzed Oxidation of Multiwalled Carbon Nanotubes for Environmental Benefit. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12017-12021. | 1.2 | 8 |
| 791 | Synthesis of ZrO ₂ -Carbon Nanotube Composites and Their Application as Chemiluminescent Sensor Material for Ethanol. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13410-13414. | 1.2 | 97 |
| 792 | Noncovalent interactions between organometallic metallocene complexes and single-walled carbon nanotubes. <i>Journal of Chemical Physics</i> , 2006, 125, 154704. | 1.2 | 43 |
| 793 | Comparative Measures of Single-Wall Carbon Nanotube Dispersion. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23801-23805. | 1.2 | 90 |
| 794 | Growth and Structure of Carbon Nanotube Y-Junctions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23694-23700. | 1.2 | 12 |
| 795 | Transport Phenomena and Conduction Mechanism of Single-Walled Carbon Nanotubes (SWNTs) at Y- and Crossed-Junctions. <i>Nano Letters</i> , 2006, 6, 2821-2825. | 4.5 | 47 |
| 796 | Flow around Surface-Attached Carbon Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 1797-1804. | 1.8 | 8 |
| 797 | Electrocatalytic Activity of Bamboo-Structured Carbon Nanotubes Paste Electrode Toward Hydrogen Peroxide. <i>Analytical Letters</i> , 2006, 39, 903-911. | 1.0 | 26 |
| 798 | Electron-Transfer Reduction of Cup-Stacked Carbon Nanotubes Affording Cup-Shaped Carbons with Controlled Diameter and Size. <i>Journal of the American Chemical Society</i> , 2006, 128, 14216-14217. | 6.6 | 50 |
| 799 | Self-Assembly of Single-Walled Carbon Nanotubes into Multiwalled Carbon Nanotubes in Water: A Molecular Dynamics Simulations. <i>Nano Letters</i> , 2006, 6, 430-434. | 4.5 | 75 |
| 800 | Tailoring (n,m) Structure of Single-Walled Carbon Nanotubes by Modifying Reaction Conditions and the Nature of the Support of CoMo Catalysts. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2108-2115. | 1.2 | 261 |
| 801 | Hexagonal and Prismatic Nanowalled ZnO Microboxes. <i>Inorganic Chemistry</i> , 2006, 45, 3256-3260. | 1.9 | 42 |
| 802 | Carbon nanotube-reinforced composites as structural materials for microactuators in microelectromechanical systems. <i>Nanotechnology</i> , 2006, 17, 4895-4903. | 1.3 | 106 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 803 | Hydrothermally synthesised Fe ₂ O ₃ nanoparticles as catalyst precursors for the CVD production of graphitic nanofibres. <i>Journal of Physics: Conference Series</i> , 2006, 26, 195-198. | 0.3 | 7 |
| 804 | Growth and profile modification of carbon nanotubes designed for field emission applications by hydrogen plasma pretreatment. <i>Diamond and Related Materials</i> , 2006, 15, 1132-1137. | 1.8 | 9 |
| 805 | Thermodynamic model for growth mechanisms of multiwall carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 89, 241915. | 1.5 | 15 |
| 806 | Electrically Conductive Bacterial Cellulose by Incorporation of Carbon Nanotubes. <i>Biomacromolecules</i> , 2006, 7, 1280-1284. | 2.6 | 206 |
| 807 | Carbon Nanotube Network Formation from Evaporating Sessile Drops. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13029-13036. | 1.2 | 56 |
| 808 | Controlled Nanofiber Composed of Multi-Wall Carbon Nanotube/Poly(Ethylene Oxide). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 785-796. | 1.2 | 14 |
| 809 | Minimization of Internal Molecular Free Volume: A Mechanism for the Simultaneous Enhancement of Polymer Stiffness, Strength, and Ductility. <i>Macromolecules</i> , 2006, 39, 3350-3358. | 2.2 | 145 |
| 810 | Water-Soluble Multiwalled Carbon Nanotubes Functionalized with Sulfonated Polyaniline. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9095-9099. | 1.2 | 116 |
| 811 | Graphitic Structures by Design. <i>Langmuir</i> , 2006, 22, 9694-9703. | 1.6 | 28 |
| 812 | Electrowetting of Aligned Carbon Nanotube Films. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15945-15950. | 1.2 | 81 |
| 813 | Biocompatibility and Toxicological Studies of Carbon Nanotubes Doped with Nitrogen. <i>Nano Letters</i> , 2006, 6, 1609-1616. | 4.5 | 332 |
| 814 | Preferential Forest Assembly of Single-Wall Carbon Nanotubes on Low-Energy Electron-Beam Patterned Nafion Films. <i>Chemistry of Materials</i> , 2006, 18, 1100-1106. | 3.2 | 18 |
| 815 | Functionalized carbon nanotubes as emerging nanovectors for the delivery of therapeutics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 404-412. | 1.4 | 477 |
| 816 | Anomalous Increase in Carbon Capacitance at Pore Sizes Less Than 1 Nanometer. <i>Science</i> , 2006, 313, 1760-1763. | 6.0 | 3,404 |
| 817 | Thermal properties of carbon nanotube array used for integrated circuit cooling. <i>Journal of Applied Physics</i> , 2006, 100, 074302. | 1.1 | 95 |
| 818 | Phase behavior of nanotube suspensions: from attraction induced percolation to liquid crystalline phases. <i>Journal of Materials Chemistry</i> , 2006, 16, 4095. | 6.7 | 74 |
| 819 | Morphology and Crystallization Behavior of HDPE/CNT Nanocomposite. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 231-245. | 0.4 | 157 |
| 820 | Brief Review: Basic Properties and Applications of Carbon Nanotubes. <i>Microscopy Today</i> , 2006, 14, 22-29. | 0.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 821 | Surface Functionalization of Multiwalled Carbon Nanotube with Trifluorophenyl. Journal of Nanomaterials, 2006, 2006, 1-5. | 1.5 | 40 |
| 823 | Fe ₃ O ₄ -modified Carbon Nanotubes: A Facile and Efficient Method to Orientate Alignment in Magnetic Field. Chemistry Letters, 2006, 35, 1092-1093. | 0.7 | 1 |
| 824 | Synthesis and Deposition of Water-Dispersed Prussian Blue Nanocrystals on Polymers and CNTs. , 0, , 161-167. | | 4 |
| 825 | Carbon nanotube-enabled materials. , 2006, , 213-274. | | 12 |
| 826 | Electromechanical properties and applications of carbon nanotubes. , 2006, , 187-211. | | 4 |
| 827 | Chapter 7 Chains of sp Elements. Handbook of Metal Physics, 2006, , 97-129. | 0.0 | 0 |
| 828 | Assessment of influence of finely dispersed carbon nanotubes in polymer electrolytes for lithium batteries. , 0, , . | | 0 |
| 829 | Carbon Nanotubes for Potential Device and Interconnect Applications. , 0, , . | | 0 |
| 830 | Photoluminescence instrumentation for nanophotonics applications. , 2006, , . | | 0 |
| 831 | Stabilization of amphiphilic block copolymer nanotubes and vesicles by photopolymerization. , 2006, , . | | 0 |
| 832 | Ultrafast exciton dynamics in semiconducting single-walled carbon nanotubes. Molecular Physics, 2006, 104, 1179-1189. | 0.8 | 24 |
| 833 | Nonlocal continuum models for carbon nanotubes subjected to static loading. Journal of Mechanics of Materials and Structures, 2006, 1, 663-680. | 0.4 | 34 |
| 834 | The Electrophoretic Deposition of Inorganic Nanoscaled Materials-A Review-. Journal of the Ceramic Society of Japan, 2006, 114, 1-14. | 1.3 | 128 |
| 835 | A study of the tribological behavior of carbon-nanotube-reinforced ultrahigh molecular weight polyethylene composites. Surface and Interface Analysis, 2006, 38, 883-886. | 0.8 | 52 |
| 836 | Near-Edge X-ray Absorption Fine Structure Spectroscopy as a Tool for Investigating Nanomaterials. Small, 2006, 2, 26-35. | 5.2 | 152 |
| 837 | pH-Sensitive Dispersion and Debundling of Single-Walled Carbon Nanotubes: Lysozyme as a Tool. Small, 2006, 2, 406-412. | 5.2 | 203 |
| 838 | Dramatic Effect of Dispersed Carbon Nanotubes on the Mechanical and Electroconductive Properties of Polymers Derived from Ionic Liquids. Small, 2006, 2, 554-560. | 5.2 | 221 |
| 839 | Medical Application of Carbon-Nanotube-Filled Nanocomposites: The Microcatheter. Small, 2006, 2, 1406-1411. | 5.2 | 44 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 840 | Molecular-Dynamic Studies of Carbon-Water-Carbon Composite Nanotubes. <i>Small</i> , 2006, 2, 1348-1355. | 5.2 | 34 |
| 841 | Electrochemically Functionalized Carbon Nanotubes and their Application to Rechargeable Lithium Batteries. <i>Small</i> , 2006, 2, 1075-1082. | 5.2 | 47 |
| 842 | Functionalized Carbon Nanotubes: Synthesis of Meltable and Amphiphilic Derivatives. <i>Small</i> , 2006, 2, 1188-1191. | 5.2 | 72 |
| 843 | Effect of nanofillers on the properties of flexible protective polymer coatings. <i>Polymer Composites</i> , 2006, 27, 368-380. | 2.3 | 26 |
| 844 | Polymer layered silicate/carbon nanotube nanocomposites: The catalyzed polymerization approach. <i>Polymer Engineering and Science</i> , 2006, 46, 1022-1030. | 1.5 | 32 |
| 845 | Isothermal and nonisothermal crystallization kinetics of poly(ϵ -caprolactone)/multi-walled carbon nanotube composites. <i>Polymer Engineering and Science</i> , 2006, 46, 1309-1317. | 1.5 | 57 |
| 846 | Synthesis and self-assembly of polystyrene-grafted multiwalled carbon nanotubes with a hairy-rod nanostructure. <i>Journal of Polymer Science Part A</i> , 2006, 44, 3869-3881. | 2.5 | 71 |
| 847 | Synthesis and characterization of conducting polythiophene/carbon nanotubes composites. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5283-5290. | 2.5 | 168 |
| 848 | Synthesis, characterization, and electrical properties of polypyrrole/multiwalled carbon nanotube composites. <i>Journal of Polymer Science Part A</i> , 2006, 44, 6449-6457. | 2.5 | 99 |
| 849 | Crystallization behavior of poly(ϵ -caprolactone)/multiwalled carbon nanotube composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 598-606. | 2.4 | 109 |
| 850 | Characterization and electrical properties of polypyrrole/multiwalled carbon nanotube composites synthesized by in situ chemical oxidative polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1413-1418. | 2.4 | 83 |
| 851 | Isothermal crystallization kinetics of poly(butylene terephthalate)/attapulgitite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2112-2121. | 2.4 | 43 |
| 852 | Electrospun fiber mats of poly(3-hydroxybutyrate), poly(3-hydroxybutyrate-co-3-hydroxyvalerate), and their blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2923-2933. | 2.4 | 77 |
| 853 | Crystallization and melting behavior of multi-walled carbon nanotube-reinforced nylon-6 composites. <i>Polymer International</i> , 2006, 55, 71-79. | 1.6 | 120 |
| 854 | Functionalized multi-walled carbon nanotubes with poly(N-(2-hydroxypropyl)methacrylamide) by RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2006, 44, 2419-2427. | 2.5 | 81 |
| 855 | Growth of calcium phosphate mineral on carbon nanotube buckypapers. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3230-3233. | 0.7 | 16 |
| 856 | A method for enhanced analysis of specific as-grown carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3138-3141. | 0.7 | 4 |
| 857 | In Situ Coating Carbon Nanotubes with Wurtzite ZnS Nanocrystals. <i>Journal of the American Ceramic Society</i> , 2006, 89, 759-762. | 1.9 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 858 | Superplastic carbon nanotubes. <i>Nature</i> , 2006, 439, 281-281. | 13.7 | 347 |
| 859 | Multifunctional composites using reinforced laminae with carbon-nanotube forests. <i>Nature Materials</i> , 2006, 5, 457-462. | 13.3 | 681 |
| 860 | Shape-engineerable and highly densely packed single-walled carbon nanotubes and their application as super-capacitor electrodes. <i>Nature Materials</i> , 2006, 5, 987-994. | 13.3 | 1,811 |
| 861 | Saving the world with nanotechnology. <i>Nature Nanotechnology</i> , 2006, 1, 96-97. | 15.6 | 10 |
| 862 | Sorting carbon nanotubes by electronic structure using density differentiation. <i>Nature Nanotechnology</i> , 2006, 1, 60-65. | 15.6 | 2,075 |
| 863 | Electrochemical properties of bamboo-shaped multiwalled carbon nanotubes generated by solid state pyrolysis. <i>Electrochemistry Communications</i> , 2006, 8, 1099-1105. | 2.3 | 49 |
| 864 | Electrochemical oxidation of glutathione at well-aligned carbon nanotube array electrode. <i>Electrochimica Acta</i> , 2006, 51, 3046-3051. | 2.6 | 74 |
| 865 | Electrochemical behavior and adsorptive stripping voltammetric determination of quercetin at multi-wall carbon nanotubes-modified paraffin-impregnated graphite disk electrode. <i>Electrochimica Acta</i> , 2006, 51, 4341-4346. | 2.6 | 61 |
| 866 | Nanocomposites of polystyrene-b-polyisoprene copolymer with layered silicates and carbon nanotubes. <i>European Polymer Journal</i> , 2006, 42, 2098-2107. | 2.6 | 35 |
| 867 | Wave characteristics of carbon nanotubes. <i>International Journal of Solids and Structures</i> , 2006, 43, 254-265. | 1.3 | 137 |
| 868 | Scale effect on wave propagation of double-walled carbon nanotubes. <i>International Journal of Solids and Structures</i> , 2006, 43, 6071-6084. | 1.3 | 118 |
| 869 | The interface behavior and biocatalytic activity of superoxide dismutase at carbon nanotube. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1350-1354. | 5.3 | 20 |
| 870 | Facile preparation of amperometric laccase biosensor with multifunction based on the matrix of carbon nanotubes-chitosan composite. <i>Biosensors and Bioelectronics</i> , 2006, 21, 2195-2201. | 5.3 | 269 |
| 871 | A sensitive determination of estrogens with a Pt nano-clusters/multi-walled carbon nanotubes modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2006, 22, 253-259. | 5.3 | 120 |
| 872 | Selective attachment of functionalized nanospheres to carbon nanotubes-distributed template in a large area. <i>Current Applied Physics</i> , 2006, 6, e48-e53. | 1.1 | 2 |
| 873 | Carbon nanotube reinforced hydroxyapatite composite coatings produced through laser surface alloying. <i>Carbon</i> , 2006, 44, 37-45. | 5.4 | 128 |
| 874 | Surfactant functionalization of carbon nanotubes (CNTs) for layer-by-layer assembling of CNT multi-layer films and fabrication of gold nanoparticle/CNT nanohybrid. <i>Carbon</i> , 2006, 44, 276-283. | 5.4 | 222 |
| 875 | Growth and electrical characterization of high-aspect-ratio carbon nanotube arrays. <i>Carbon</i> , 2006, 44, 253-258. | 5.4 | 121 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 876 | Hollow nickel microspheres covered with oriented carbon nanotubes and its magnetic property. Carbon, 2006, 44, 211-215. | 5.4 | 35 |
| 877 | Spectroscopic and SEM studies of SWNTs: Polymer solutions and films. Carbon, 2006, 44, 1292-1297. | 5.4 | 34 |
| 878 | Enhanced interactions between multi-walled carbon nanotubes and polystyrene induced by melt mixing. Carbon, 2006, 44, 692-698. | 5.4 | 122 |
| 879 | Low percolation threshold in single-walled carbon nanotube/high density polyethylene composites prepared by melt processing technique. Carbon, 2006, 44, 778-785. | 5.4 | 275 |
| 880 | Enhancement of interfacial adhesion and dynamic mechanical properties of poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 587 Td (r Carbon, 2006, 44, 613-617. | 5.4 | 84 |
| 881 | Doping effects of B and N on hydrogen adsorption in single-walled carbon nanotubes through density functional calculations. Carbon, 2006, 44, 939-947. | 5.4 | 169 |
| 882 | Respiratory toxicity of carbon nanotubes: How worried should we be?. Carbon, 2006, 44, 1048-1056. | 5.4 | 130 |
| 883 | Microstructural and electrochemical characterization of RuO ₂ /CNT composites synthesized in supercritical diethyl amine. Carbon, 2006, 44, 888-893. | 5.4 | 56 |
| 884 | X-ray absorption near-edge structure and photoelectron spectroscopy of single-walled carbon nanotubes modified by a HBr solution. Carbon, 2006, 44, 866-872. | 5.4 | 38 |
| 885 | Synthesis and characterization of carbon nanotube/metal nanoparticle composites well dispersed in organic media. Carbon, 2006, 44, 848-853. | 5.4 | 85 |
| 886 | Etching effects of ethanol on multi-walled carbon nanotubes. Carbon, 2006, 44, 1218-1224. | 5.4 | 61 |
| 887 | Ordered mesoporous carbon particles covered with carbon nanotubes. Carbon, 2006, 44, 801-803. | 5.4 | 16 |
| 888 | Synthesis of carbon nanotubes by electrochemical deposition at room temperature. Carbon, 2006, 44, 1013-1016. | 5.4 | 37 |
| 889 | Accurate measurement of interlayer spacing value of carbon fibers using a silver foil as an internal standard. Carbon, 2006, 44, 1016-1019. | 5.4 | 6 |
| 890 | Highly dispersed multi-walled carbon nanotubes in ethanol using potassium doping. Carbon, 2006, 44, 1491-1495. | 5.4 | 44 |
| 891 | Mechanical and NH ₃ sensing properties of long multi-walled carbon nanotube ropes. Carbon, 2006, 44, 1821-1825. | 5.4 | 29 |
| 892 | Effect of the reaction atmosphere on the diameter of single-walled carbon nanotubes produced by chemical vapor deposition. Carbon, 2006, 44, 1706-1712. | 5.4 | 35 |
| 893 | Semi-quantitative study on the fabrication of densely packed and vertically aligned single-walled carbon nanotubes. Carbon, 2006, 44, 2009-2014. | 5.4 | 84 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 894 | Small but strong: A review of the mechanical properties of carbon nanotube-polymer composites. Carbon, 2006, 44, 1624-1652. | 5.4 | 3,611 |
| 895 | The effect of feedstock and process conditions on the synthesis of high purity CNTs from aromatic hydrocarbons. Carbon, 2006, 44, 2236-2245. | 5.4 | 55 |
| 896 | The thermal and mechanical properties of a polyurethane/multi-walled carbon nanotube composite. Carbon, 2006, 44, 2701-2707. | 5.4 | 310 |
| 897 | The effect of electrolytic oxidation on the electrochemical properties of multi-walled carbon nanotubes. Carbon, 2006, 44, 2919-2924. | 5.4 | 51 |
| 898 | Gas analysis of the CVD process for high yield growth of carbon nanotubes over metal-supported catalysts. Carbon, 2006, 44, 2912-2918. | 5.4 | 134 |
| 899 | Electrophoretic deposition of carbon nanotubes. Carbon, 2006, 44, 3149-3160. | 5.4 | 624 |
| 900 | Multilayer membranes for glucose biosensing via layer-by-layer assembly of multiwall carbon nanotubes and glucose oxidase. Analytical Biochemistry, 2006, 350, 138-144. | 1.1 | 206 |
| 901 | Optical properties and photonic devices of doped carbon nanotubes. Analytica Chimica Acta, 2006, 568, 161-170. | 2.6 | 41 |
| 902 | Fabrication of a new polyaniline grafted multi-wall carbon nanotube modified electrode and its application for electrochemical detection of hydrogen peroxide. Analytica Chimica Acta, 2006, 575, 32-38. | 2.6 | 103 |
| 903 | The role of surfactants in dispersion of carbon nanotubes. Advances in Colloid and Interface Science, 2006, 128-130, 37-46. | 7.0 | 1,224 |
| 904 | Microstructure of carbon nanotubes/PET conductive composites fibers and their properties. Composites Science and Technology, 2006, 66, 1022-1029. | 3.8 | 148 |
| 905 | Effect of multi-wall carbon nanotubes on the mechanical properties of natural rubber. Composite Structures, 2006, 75, 496-500. | 3.1 | 136 |
| 906 | Gold/carbon nanocomposite foam. Chemical Physics Letters, 2006, 420, 86-89. | 1.2 | 24 |
| 907 | Debundling by dilution: Observation of significant populations of individual MoSI nanowires in high concentration dispersions. Chemical Physics Letters, 2006, 425, 89-93. | 1.2 | 28 |
| 908 | Direct growth of carbon nanotube junctions by a two-step chemical vapor deposition. Chemical Physics Letters, 2006, 432, 177-183. | 1.2 | 12 |
| 909 | Control of multiwall carbon nanotubes dispersion in polyamide6 matrix: An assessment through electrical conductivity. Chemical Physics Letters, 2006, 432, 480-485. | 1.2 | 173 |
| 910 | Electrochemical characteristics of facile prepared carbon nanotubes-ionic liquid gel modified microelectrode and application in bioelectrochemistry. Electrochemistry Communications, 2006, 8, 1429-1434. | 2.3 | 71 |
| 911 | Fabrication of network films of conducting polymer-linked polyoxometallate-stabilized carbon nanostructures. Electrochimica Acta, 2006, 51, 2373-2379. | 2.6 | 101 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 912 | Studies on electrochemical properties of MWNTs-Nafion composite films based on the redox behavior of incorporated Eu ³⁺ by voltammetry and electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2006, 51, 3013-3021. | 2.6 | 41 |
| 913 | Class-fibre-reinforced composites with enhanced mechanical and electrical properties – Benefits and limitations of a nanoparticle modified matrix. <i>Engineering Fracture Mechanics</i> , 2006, 73, 2346-2359. | 2.0 | 334 |
| 914 | Carbon nanotube growth on cobalt-sprayed substrates by thermal CVD. <i>Materials Science and Engineering C</i> , 2006, 26, 1185-1188. | 3.8 | 51 |
| 915 | Polyazomethine/carbon nanotube composites. <i>Materials Science and Engineering C</i> , 2006, 26, 1198-1201. | 3.8 | 15 |
| 916 | Electronic excitations of double-walled armchair carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 32, 569-572. | 1.3 | 4 |
| 917 | The effect of uniaxial and torsional deformations on quantum interference of carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 351, 308-313. | 0.9 | 12 |
| 918 | Small scale effect on elastic buckling of carbon nanotubes with nonlocal continuum models. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 357, 130-135. | 0.9 | 189 |
| 919 | A dendrimer-based Co ₃₂ nanocluster: Synthesis and application in diameter-controlled growth of single-walled carbon nanotubes. <i>Polyhedron</i> , 2006, 25, 585-590. | 1.0 | 16 |
| 920 | Fabrication and distribution characteristics of polyurethane/single-walled carbon nanotube composite with anisotropic structure. <i>Polymer</i> , 2006, 47, 1763-1766. | 1.8 | 33 |
| 921 | Oriented and exfoliated single wall carbon nanotubes in polyacrylonitrile. <i>Polymer</i> , 2006, 47, 3494-3504. | 1.8 | 197 |
| 922 | Nylon 610 and carbon nanotube composite by in situ interfacial polymerization. <i>Polymer</i> , 2006, 47, 3961-3966. | 1.8 | 92 |
| 923 | A new approach to functionalize multi-walled carbon nanotubes by the use of functional polymers. <i>Polymer</i> , 2006, 47, 4300-4309. | 1.8 | 126 |
| 924 | Constructing polymer brushes on multiwalled carbon nanotubes by in situ reversible addition fragmentation chain transfer polymerization. <i>Polymer</i> , 2006, 47, 5909-5918. | 1.8 | 77 |
| 925 | Relationship between structure and dynamic mechanical properties of a carbon nanofiber reinforced elastomeric nanocomposite. <i>Polymer</i> , 2006, 47, 6797-6807. | 1.8 | 17 |
| 926 | A review of anode catalysis in the direct methanol fuel cell. <i>Journal of Power Sources</i> , 2006, 155, 95-110. | 4.0 | 1,651 |
| 927 | Radiation induced synthesis of Pt nanoparticles supported on carbon nanotubes. <i>Journal of Power Sources</i> , 2006, 161, 839-842. | 4.0 | 45 |
| 928 | The structure optimization of the carbon nanotube film cathode in the application of gas sensor. <i>Sensors and Actuators A: Physical</i> , 2006, 128, 278-289. | 2.0 | 25 |
| 929 | Detection of H ₂ S down to ppb levels at room temperature using sensors based on ZnO nanorods. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 320-323. | 4.0 | 326 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 930 | Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 678-684. | 4.0 | 116 |
| 931 | Layer-by-Layer assembly and humidity sensitive behavior of poly(ethyleneimine)/multiwall carbon nanotube composite films. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 512-515. | 4.0 | 93 |
| 932 | Stability of the aqueous suspensions of nanotubes in the presence of nonionic surfactant. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 740-746. | 5.0 | 96 |
| 933 | Immobilization and electro-oxidation of calf thymus deoxyribonucleic acid at alkylamine modified carbon nanotube electrode and its interaction with promethazine hydrochloride. <i>Journal of Electroanalytical Chemistry</i> , 2006, 587, 269-275. | 1.9 | 28 |
| 934 | Highly sensitive electrogenerated chemiluminescence produced at in Eastman-AQ55D-carbon nanotube composite film electrode. <i>Journal of Electroanalytical Chemistry</i> , 2006, 592, 63-67. | 1.9 | 27 |
| 935 | Fabrication and characterization of suspended single-walled carbon nanotubes. <i>Solid State Communications</i> , 2006, 139, 186-190. | 0.9 | 5 |
| 936 | Formation of Y-junction carbon nanotubes by catalytic CVD of methane. <i>Solid State Communications</i> , 2006, 140, 248-250. | 0.9 | 14 |
| 937 | Carbon nanostructures by Hot Filament Chemical Vapor Deposition: Growth, properties, applications. <i>Thin Solid Films</i> , 2006, 501, 8-14. | 0.8 | 25 |
| 938 | DAPHNIA MAGNA MORTALITY WHEN EXPOSED TO TITANIUM DIOXIDE AND FULLERENE (C60) NANOPARTICLES. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 1132. | 2.2 | 564 |
| 939 | Chemistry of Carbon Nanotubes. <i>Chemical Reviews</i> , 2006, 106, 1105-1136. | 23.0 | 3,905 |
| 940 | The contrast mechanism in low voltage scanning electron microscopy of single-walled carbon nanotubes. <i>Nanotechnology</i> , 2006, 17, 272-276. | 1.3 | 35 |
| 941 | Mechanical Properties of Individual Nanotubes and Composites. , 2006, , 439-493. | | 9 |
| 942 | Effect of Apical Defects and Doped Atoms on Field Emission of Boron Nitride Nanocones. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16346-16352. | 1.2 | 22 |
| 943 | Quantum-chemical calculations of the piezoelectric characteristics of boron nitride and carbon nanotubes. <i>Physics of the Solid State</i> , 2006, 48, 2028-2034. | 0.2 | 8 |
| 944 | Ï€-Electronic Soft Materials Based on Graphitic Nanostructures. <i>Polymer Journal</i> , 2006, 38, 743-756. | 1.3 | 18 |
| 945 | Isotropicâˆ’Nematic Phase Transition of Single-Walled Carbon Nanotubes in Strong Acids. <i>Journal of the American Chemical Society</i> , 2006, 128, 591-595. | 6.6 | 122 |
| 946 | On-chip micromanipulation and assembly of colloidal particles by electric fields. <i>Soft Matter</i> , 2006, 2, 738. | 1.2 | 300 |
| 947 | Effects of activation temperature on the electrochemical capacitance of activated carbon nanotubes. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 17, 373-377. | 1.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 948 | Electrospun composite nanofibers for functional applications. <i>Journal of Nanoparticle Research</i> , 2006, 8, 769-781. | 0.8 | 152 |
| 949 | The seminal literature of nanotechnology research. <i>Journal of Nanoparticle Research</i> , 2006, 8, 193-213. | 0.8 | 71 |
| 950 | Carbon Nanotubes in Analytical Sciences. <i>Mikrochimica Acta</i> , 2006, 152, 157-174. | 2.5 | 245 |
| 951 | Applications of Carbon Nanotubes in Electrochemical DNA Biosensors. <i>Mikrochimica Acta</i> , 2006, 152, 175-186. | 2.5 | 88 |
| 952 | Assemble-Electrodeposited Ultrathin Conducting Poly(Azure A) at a Carbon Nanotube-Modified Glassy Carbon Electrode, and its Electrocatalytic Properties to the Reduction of Nitrite. <i>Mikrochimica Acta</i> , 2006, 155, 379-386. | 2.5 | 32 |
| 953 | Curvature effects on pressure-induced buckling of empty or filled double-walled carbon nanotubes. <i>Acta Mechanica</i> , 2006, 187, 55-73. | 1.1 | 4 |
| 954 | Electrically developed morphology of carbon nanoparticles in suspensions monitored by in situ optical observations under sinusoidal electric field. <i>Colloid and Polymer Science</i> , 2006, 284, 562-567. | 1.0 | 4 |
| 955 | Electrochemical charging and electrocatalysis at hybrid films of polymer-interconnected polyoxometallate-stabilized carbon submicroparticles. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 168-175. | 1.2 | 47 |
| 956 | Connection of silicon nanocrystals (Si-nc) with multi-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 153-157. | 1.1 | 4 |
| 957 | Doped polyaniline/multi-walled carbon nanotube composites: Preparation, characterization and properties. <i>Polymer</i> , 2006, 47, 3576-3582. | 1.8 | 256 |
| 958 | Polymeric nanocomposite films from functionalized vs suspended single-walled carbon nanotubes. <i>Polymer</i> , 2006, 47, 5323-5329. | 1.8 | 30 |
| 959 | A XANES characterization of structural defects in single-walled carbon nanotubes. <i>Radiation Physics and Chemistry</i> , 2006, 75, 1861-1865. | 1.4 | 9 |
| 960 | First-principles study of field emission properties of gas adsorption on the carbon nanotubes. <i>Chemical Physics</i> , 2006, 330, 417-422. | 0.9 | 16 |
| 961 | On the effective thermal conductivity of carbon nanotube reinforced polymer composites. <i>Composites Science and Technology</i> , 2006, 66, 1703-1712. | 3.8 | 104 |
| 962 | Fabrication of poly(toluidine blue O)/carbon nanotube composite nanowires and its stable low-potential detection of NADH. <i>Journal of Electroanalytical Chemistry</i> , 2006, 595, 152-160. | 1.9 | 107 |
| 963 | Novel carbon nanotube iron oxide magnetic nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 305, 321-324. | 1.0 | 35 |
| 964 | Phase composition and magnetic characteristics of Fe-filled multi-walled carbon nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 306, 40-50. | 1.0 | 23 |
| 965 | Nanoelectronics beyond silicon. <i>Microelectronic Engineering</i> , 2006, 83, 619-623. | 1.1 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 966 | Synthesis of titanate nanotubes and its processing by different methods. <i>Electrochimica Acta</i> , 2006, 52, 1781-1787. | 2.6 | 22 |
| 967 | Mechanism of field electron emission from carbon nanotubes. <i>Frontiers of Physics in China</i> , 2006, 1, 305-316. | 1.0 | 6 |
| 968 | Aggregate structure of hydroxyproline-rich glycoprotein (HRGP) and HRGP assisted dispersion of carbon nanotubes. <i>Nanoscale Research Letters</i> , 2006, 1, 154-159. | 3.1 | 6 |
| 969 | Post-treatment method for improving field emission from carbon nanotubes/nanofibers. <i>Optoelectronics Letters</i> , 2006, 2, 252-255. | 0.4 | 1 |
| 970 | A rapid growth of aligned carbon nanotube films and high-aspect-ratio arrays. <i>Journal of Electronic Materials</i> , 2006, 35, 195-199. | 1.0 | 11 |
| 971 | Semihydrogenation of phenylacetylene catalyzed by metallic nanoparticles containing noble metals. <i>Journal of Catalysis</i> , 2006, 243, 74-81. | 3.1 | 121 |
| 972 | Synthesis and Application of Carbon Nanotubes. <i>Journal of Natural Gas Chemistry</i> , 2006, 15, 235-246. | 1.8 | 30 |
| 973 | Production of High Purity Multi-Walled Carbon Nanotubes from Catalytic Decomposition of Methane. <i>Journal of Natural Gas Chemistry</i> , 2006, 15, 266-270. | 1.8 | 14 |
| 974 | Thermoelectric properties of carbon nanotube/ceramic nanocomposites. <i>Scripta Materialia</i> , 2006, 54, 77-82. | 2.6 | 88 |
| 975 | Fabrication of aligned carbon nanotube-filled rubber composite. <i>Scripta Materialia</i> , 2006, 54, 31-35. | 2.6 | 154 |
| 976 | Effects of the addition of multi-walled carbon nanotubes on the positive temperature coefficient characteristics of carbon-black-filled high-density polyethylene nanocomposites. <i>Scripta Materialia</i> , 2006, 55, 1119-1122. | 2.6 | 130 |
| 977 | Carbon nanotube synthesis and parametric study using CaCO ₃ nanocrystals as catalyst support by CVD. <i>Materials Chemistry and Physics</i> , 2006, 95, 5-11. | 2.0 | 79 |
| 978 | Preparation and magnetic property of the MWNT-Fe ²⁺ composite. <i>Materials Chemistry and Physics</i> , 2006, 95, 289-293. | 2.0 | 13 |
| 979 | Effects of protection gas flow rate on the electrochemical capacitance of activated carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2006, 99, 314-317. | 2.0 | 2 |
| 980 | Electrical properties of low-density polyethylene/ZnO nanocomposites. <i>Materials Chemistry and Physics</i> , 2006, 100, 1-5. | 2.0 | 86 |
| 981 | Large-scale synthesis of single-crystalline ZnO nanotubes based on polymer-inducement. <i>Materials Research Bulletin</i> , 2006, 41, 1979-1983. | 2.7 | 13 |
| 982 | Multiwall carbon nanotubes from pyrolysis of tetrahydrofuran. <i>Materials Research Bulletin</i> , 2006, 41, 2311-2317. | 2.7 | 52 |
| 983 | Preparation and properties of the powder SBR composites filled with CNTs by spray drying process. <i>Materials Letters</i> , 2006, 60, 3769-3775. | 1.3 | 48 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 984 | Hydrogen-Bonded Hexamers Self-Assemble as Spherical and Tubular Superstructures on the Sub-Micron Scale. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6221-6224. | 7.2 | 48 |
| 985 | Fabrication of High-Purity, Double-Walled Carbon Nanotube Buckypaper. <i>Chemical Vapor Deposition</i> , 2006, 12, 327-330. | 1.4 | 101 |
| 986 | Aerosol Catalyst Particles for Substrate CVD Synthesis of Single-Walled Carbon Nanotubes. <i>Chemical Vapor Deposition</i> , 2006, 12, 364-369. | 1.4 | 5 |
| 987 | Direct Synthesis of Macroscopic Multiwalled Carbon Nanotube Ribbons. <i>Chemical Vapor Deposition</i> , 2006, 12, 417-419. | 1.4 | 2 |
| 988 | Oligophenylcalix[4]arenes as Potential Precursors for Funnelenes and Calix[4]triphenylenes: Syntheses and Preliminary Cyclodehydration Studies. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 4951-4962. | 1.2 | 11 |
| 989 | Direct Electrochemistry of Multi-Copper Oxidases at Carbon Nanotubes Noncovalently Functionalized with Cellulose Derivatives. <i>Electroanalysis</i> , 2006, 18, 587-594. | 1.5 | 117 |
| 990 | Enhanced Electrocatalysis for the Reduction of Hydrogen Peroxide at New Multiwall Carbon Nanotube Grafted Polydiphenylamine Modified Electrode. <i>Electroanalysis</i> , 2006, 18, 894-903. | 1.5 | 50 |
| 991 | Optical and Bioelectrochemical Characterization of Water-Miscible Ionic Liquids Based Composites of Multiwalled Carbon Nanotubes. <i>Electroanalysis</i> , 2006, 18, 1681-1688. | 1.5 | 29 |
| 992 | Electrochemical Behavior of Deoxycholic Acid on Multiwalled Carbon Nanotubes Modified Electrode. <i>Electroanalysis</i> , 2006, 18, 2385-2388. | 1.5 | 8 |
| 993 | Bacteria capture, concentration and detection by alternating current dielectrophoresis and self-assembly of dispersed single-wall carbon nanotubes. <i>Electrophoresis</i> , 2006, 27, 1376-1385. | 1.3 | 83 |
| 994 | Carbon nanotube/poly(methyl methacrylate) composite electrode for capillary electrophoretic measurement of honokiol and magnolol in <i>Cortex Magnoliae Officinalis</i> . <i>Electrophoresis</i> , 2006, 27, 3233-3242. | 1.3 | 42 |
| 995 | Carbon Nanotube-Adsorbed Electrospun Nanofibrous Membranes of Nylon 6. <i>Macromolecular Rapid Communications</i> , 2006, 27, 146-151. | 2.0 | 87 |
| 998 | Amorphous Carbon Nanotubes with Tunable Properties via Template Wetting. <i>Advanced Functional Materials</i> , 2006, 16, 1476-1480. | 7.8 | 97 |
| 999 | Enhancement of Modulus, Strength, and Toughness in Poly(methyl methacrylate)-Based Composites by the Incorporation of Poly(methyl methacrylate)-Functionalized Nanotubes. <i>Advanced Functional Materials</i> , 2006, 16, 1608-1614. | 7.8 | 219 |
| 1000 | Low Electrical Percolation Threshold of Silver and Copper Nanowires in Polystyrene Composites. <i>Advanced Functional Materials</i> , 2006, 16, 2423-2430. | 7.8 | 168 |
| 1001 | Efficient Synthesis of Carbon Nanotube-Nanoparticle Hybrids. <i>Advanced Functional Materials</i> , 2006, 16, 2431-2437. | 7.8 | 110 |
| 1002 | Self-Assembly of Single-Walled Carbon Nanotubes into a Sheet by Drop Drying. <i>Advanced Materials</i> , 2006, 18, 29-34. | 11.1 | 119 |
| 1003 | Growth of Carbon Nanotubes on Clay: Unique Nanostructured Filler for High-Performance Polymer Nanocomposites. <i>Advanced Materials</i> , 2006, 18, 73-77. | 11.1 | 165 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 1004 | Field-Emission Behavior of a Carbon-Nanotube-Implanted Co Nanocomposite Fabricated from Pearl-Necklace-Structured Carbon Nanotube/Co Powders. <i>Advanced Materials</i> , 2006, 18, 553-558. | 11.1 | 57 |
| 1005 | Photoluminescence Quenching Control in Quantum Dot-Embedded Carbon Nanotube Composite Colloids Using a Silica-Shell Spacer. <i>Advanced Materials</i> , 2006, 18, 415-420. | 11.1 | 106 |
| 1006 | Alignment of Carbon Nanotube Additives for Improved Performance of Magnesium Diboride Superconductors. <i>Advanced Materials</i> , 2006, 18, 785-788. | 11.1 | 59 |
| 1007 | Ultrathin Single-Walled Layered Membranes from Double-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2006, 18, 1695-1700. | 11.1 | 57 |
| 1008 | Mechanical Reinforcement of Polymers Using Carbon Nanotubes. <i>Advanced Materials</i> , 2006, 18, 689-706. | 11.1 | 1,504 |
| 1009 | Fast Carbon Nanotube Charging and Actuation. <i>Advanced Materials</i> , 2006, 18, 870-873. | 11.1 | 60 |
| 1010 | Water-Assisted Growth of Aligned Carbon Nanotube-ZnO Heterojunction Arrays. <i>Advanced Materials</i> , 2006, 18, 1740-1744. | 11.1 | 135 |
| 1011 | Acellular Synthesis of a Human Enamel-like Microstructure. <i>Advanced Materials</i> , 2006, 18, 1846-1851. | 11.1 | 191 |
| 1012 | Spinning and Processing Continuous Yarns from 4-Inch Wafer Scale Super-Aligned Carbon Nanotube Arrays. <i>Advanced Materials</i> , 2006, 18, 1505-1510. | 11.1 | 563 |
| 1013 | Carbon-Nanotube-Based Glucose/O ₂ Biofuel Cells. <i>Advanced Materials</i> , 2006, 18, 2639-2643. | 11.1 | 244 |
| 1014 | Polyacylation of Single-Walled Nanotubes under Friedel-Crafts Conditions: An Efficient Method for Functionalizing, Purifying, Decorating, and Linking Carbon Allotropes. <i>Advanced Materials</i> , 2006, 18, 2763-2767. | 11.1 | 80 |
| 1015 | An Easy Way to Construct an Ordered Array of Nickel Nanotubes: The Triblock-Copolymer-Assisted Hard-Template Method. <i>Advanced Materials</i> , 2006, 18, 2161-2164. | 11.1 | 111 |
| 1016 | Ordered Whiskerlike Polyaniline Grown on the Surface of Mesoporous Carbon and Its Electrochemical Capacitance Performance. <i>Advanced Materials</i> , 2006, 18, 2619-2623. | 11.1 | 1,033 |
| 1017 | Controlling the Morphology of Carbon Nanotube Films by Varying the Areal Density of Catalyst Nanoclusters Using Block-Copolymer Micellar Thin Films. <i>Advanced Materials</i> , 2006, 18, 2274-2279. | 11.1 | 63 |
| 1018 | Sustained Growth of Ultralong Carbon Nanotube Arrays for Fiber Spinning. <i>Advanced Materials</i> , 2006, 18, 3160-3163. | 11.1 | 332 |
| 1019 | Electronic Structure Calculations for Nanomolecular Systems. , 2006, , 77-116. | | 3 |
| 1020 | Assessment of influence of finely dispersed carbon nanotubes in polymer electrolytes for lithium batteries. , 2006, , . | | 0 |
| 1021 | A Novel Dual-Walled CNT Bus Architecture with Reduced Cross-Coupling Features. , 2006, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1022 | Stable and robust nanotubes formed from self-assembled polymer membranes. , 2006, , . | | 1 |
| 1023 | An artificial carbon nano-thorn synthesized by a plasma chemical vapour deposition. Journal Physics D: Applied Physics, 2006, 39, 3337-3341. | 1.3 | 0 |
| 1024 | Geometric and electronic structure of carbon nanotube networks: "super"™-carbon nanotubes. Nanotechnology, 2006, 17, 617-621. | 1.3 | 74 |
| 1025 | Quantum Transport in Carbon Nanotubes. , 2006, , 351-380. | | 3 |
| 1026 | Effect of rapid thermal annealing (RTA) on thermal properties of carbon nanofibre (CNF) arrays. Journal Physics D: Applied Physics, 2006, 39, 4878-4885. | 1.3 | 14 |
| 1027 | Isothermal atomistic simulations of nano-electromechanical systems. Nanotechnology, 2006, 17, 1370-1374. | 1.3 | 5 |
| 1028 | Synthesis and Characterization of Single-Walled Carbon Nanotube/Silicon Carbide Composites. AIP Conference Proceedings, 2006, , . | 0.3 | 0 |
| 1029 | Structural and electronic properties of diazonium functionalized (4, 4) single walled carbon nanotube: an <i>ab initio</i> study. Molecular Simulation, 2006, 32, 1213-1217. | 0.9 | 4 |
| 1030 | Synthesis and field emission of four kinds of ZnO nanostructures: nanosleeve-fishes, radial nanowire arrays, nanocombs and nanoflowers. Nanotechnology, 2006, 17, 2855-2859. | 1.3 | 81 |
| 1031 | Modeling and design challenges and solutions for carbon nanotube-based interconnect in future high performance integrated circuits. ACM Journal on Emerging Technologies in Computing Systems, 2006, 2, 155-196. | 1.8 | 105 |
| 1032 | Carbon Nanotube as Probe for Atomic Force Microscope. Key Engineering Materials, 2006, 315-316, 758-761. | 0.4 | 0 |
| 1033 | Carbon Nanotube-Based Fluid Flow/Shear Sensors. Materials Research Society Symposia Proceedings, 2006, 963, 1. | 0.1 | 2 |
| 1034 | Carbon Nanotube Based Electrodes for Neuroprosthetic Applications. Materials Research Society Symposia Proceedings, 2006, 926, 1. | 0.1 | 3 |
| 1035 | Properties of Polypropylene/Carbon Nanotube Composites Compatibilized by Maleic Anhydride Grafted SEBS. Key Engineering Materials, 2006, 312, 223-228. | 0.4 | 19 |
| 1036 | Enhancement of Field Emission Current from ZnO Nanorods Fabricated by Two Step Chemical Vapor Deposition with Laser Ablation of ZnO. Materials Research Society Symposia Proceedings, 2006, 957, 1. | 0.1 | 0 |
| 1037 | Improvement of Emission Current by Using CNT Based X-ray Tube. Materials Research Society Symposia Proceedings, 2006, 963, 1. | 0.1 | 0 |
| 1038 | Elastic Properties of Normal and Binormal Helical Nanowires. Materials Research Society Symposia Proceedings, 2006, 963, 1. | 0.1 | 0 |
| 1039 | Self-Assembled Conductive Network of Carbon Nanotubes in Polyaniline Forming Potential Nanocomposites. Materials Research Society Symposia Proceedings, 2006, 963, 1. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1040 | Optical and field emission properties of ZnO nanorod arrays synthesized on zinc foils by the solvothermal route. <i>Nanotechnology</i> , 2006, 17, 1533-1540. | 1.3 | 92 |
| 1041 | Properties of the incandescent light emitted from double-walled carbon nanotube filament. <i>Chinese Physics B</i> , 2006, 15, 2731-2734. | 1.3 | 2 |
| 1042 | Template synthesis, characterization and magnetic property of Fe nanowires-filled amorphous carbon nanotubes array. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 3939-3944. | 1.3 | 10 |
| 1043 | Molecular dynamics simulations on buckling of multiwalled carbon nanotubes under bending. <i>Journal of Applied Physics</i> , 2006, 100, 114327. | 1.1 | 30 |
| 1044 | Effect of Multi-Wall Carbon Nanotubes on the Mechanical Properties of Natural Rubber. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 641-649. | 1.0 | 22 |
| 1045 | Chromatographic Separation of Single Wall Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2006, 922, 1. | 0.1 | 1 |
| 1046 | Ultrasound-induced Functionalization and Solubilization of Carbon Nanotubes for Potential Nanotextiles Applications. <i>Materials Research Society Symposia Proceedings</i> , 2006, 920, 2. | 0.1 | 4 |
| 1047 | Development of Hybrid MEMS/FIB Processes and Applications of Three-pronged Active Nanotweezers For Manipulation of Nano Objects. <i>Materials Research Society Symposia Proceedings</i> , 2006, 983, 1. | 0.1 | 0 |
| 1048 | Single-walled carbon nanotube-supported platinum nanoparticles as fuel cell electrocatalysts. <i>Journal of Materials Research</i> , 2006, 21, 2841-2846. | 1.2 | 20 |
| 1049 | Controlling the shape, orientation, and linkage of carbon nanotube features with nano affinity templates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2026-2031. | 3.3 | 204 |
| 1050 | A Scalable Technique for the Synthesis of Carbon Nanotubes. , 2006, , . | | 2 |
| 1051 | Influence of anode surface temperature in a continuously-fed arc discharge depositing carbon nanotubes. , 2006, , . | | 0 |
| 1052 | Axial-Strain-Induced Torsion in Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2006, 96, 165501. | 2.9 | 58 |
| 1053 | Self-Assembled Nanofold Network Formation on Layered Crystal Surfaces during Metal Intercalation. <i>Physical Review Letters</i> , 2006, 96, 086401. | 2.9 | 43 |
| 1054 | Kink Formation and Motion in Carbon Nanotubes at High Temperatures. <i>Physical Review Letters</i> , 2006, 97, 075501. | 2.9 | 74 |
| 1055 | Large-Scale Synthesis of Herringbone Carbon Nanofibers on Nonsupported Nickel Catalyst. , 2006, , . | | 0 |
| 1056 | Detection of phospholipid-carbon nanotube translocation using fluorescence energy transfer. <i>Applied Physics Letters</i> , 2006, 89, 143118. | 1.5 | 39 |
| 1057 | In situ fluorescence microscopy visualization and characterization of nanometer-scale carbon nanotubes labeled with 1-pyrenebutanoic acid, succinimidyl ester. <i>Applied Physics Letters</i> , 2006, 88, 213110. | 1.5 | 25 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1058 | Nonlinear characteristics of pseudo-Y-junction single-walled carbon nanotubes. Journal of Applied Physics, 2006, 99, 056106. | 1.1 | 13 |
| 1059 | Observation and analysis of percolation behavior in carbon microcoils/silicone-rubber composite sheets. Applied Physics Letters, 2006, 88, 232115. | 1.5 | 28 |
| 1060 | Theoretical study of the molecular and electronic structure of one-dimensional crystals of potassium iodide and composites formed upon intercalation in single-walled carbon nanotubes. Physical Review B, 2006, 73, . | 1.1 | 39 |
| 1061 | Coulomb blockade of field emission from nanoscale conductors. Physical Review B, 2006, 73, . | 1.1 | 29 |
| 1062 | Imaging of liquid crystals confined in carbon nanopipes. Applied Physics Letters, 2006, 89, 043123. | 1.5 | 8 |
| 1063 | Electron beam-induced surface modification and nano-engineering of carbon nanotubes: Single-walled and multiwalled. Journal of Materials Research, 2006, 21, 3109-3123. | 1.2 | 7 |
| 1064 | Carbon nanotubes as nanoelectromechanical systems components. , 2006, , 361-488. | | 1 |
| 1065 | Electrochemical properties of carbon nanotubes. , 2006, , 297-321. | | 1 |
| 1066 | Separation of metallic and semiconducting single-walled carbon nanotubes. , 2006, , 255-295. | | 12 |
| 1067 | One-dimensional Magnetic Composite of Polypyrrole-containing Carbon Nanotubes/Ni _{0.75} Zn _{0.25} Fe ₂ O ₄ . Journal of Macromolecular Science - Physics, 2006, 45, 541-547. | 0.4 | 1 |
| 1068 | Mechanical Design of Compliant Parallel Micromanipulators for Nano Scale Manipulation. , 2006, , . | | 6 |
| 1069 | Radial moduli of individual single-walled carbon nanotubes with and without electric current flow. Applied Physics Letters, 2006, 89, 211906. | 1.5 | 12 |
| 1070 | Effect of PbO on The Field Emission Characteristics of Carbon Nanotube Paste. , 2006, , . | | 0 |
| 1071 | An electrically controllable nanoporous smart system. Journal of Applied Physics, 2006, 99, 064313. | 1.1 | 19 |
| 1072 | Symmetry restrictions in the chirality dependence of physical properties of single-wall nanotubes. Physical Review B, 2006, 73, . | 1.1 | 5 |
| 1073 | A study on the pulse generator for CNT Lamp driving. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , . | 0.0 | 4 |
| 1074 | Scanning transmission x-ray microscopy of isolated multiwall carbon nanotubes. Applied Physics Letters, 2006, 89, 093123. | 1.5 | 34 |
| 1075 | Dielectrophoretic assembly and characterization of individually suspended Ag, GaN, SnO ₂ and Ga ₂ O ₃ nanowires. Nanotechnology, 2006, 17, 3388-3393. | 1.3 | 29 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1076 | Reinforcement of semicrystalline polymers with collagen-modified single walled carbon nanotubes. Applied Physics Letters, 2006, 88, 233119. | 1.5 | 41 |
| 1077 | Electric-field-induced microstructural transformation of carbon nanotubes. Applied Physics Letters, 2006, 89, 063124. | 1.5 | 29 |
| 1078 | Nanorobotic Manipulator Controlled Nanowire Growth. , 2006, , . | | 3 |
| 1079 | Penetration of external field into regular and random arrays of nanotubes: Implications for field emission. Physical Review B, 2006, 73, . | 1.1 | 11 |
| 1080 | Energy absorption capacity of carbon nanotubes under ballistic impact. Applied Physics Letters, 2006, 89, 123127. | 1.5 | 25 |
| 1081 | Solid-state formation of carbon nanotubes. , 2006, , 53-80. | | 8 |
| 1082 | Optical Tracking of Multi-walled Carbon Nanotubes by Attaching Functionalized Quantum Dots. , 2006, , . | | 1 |
| 1084 | Stable and robust polymer nanotubes stretched from polymersomes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1173-1177. | 3.3 | 45 |
| 1085 | High sensitivity to Cu ²⁺ ions of electrodes coated with ethylenediamine-modified multi-walled carbon nanotubes. Nanotechnology, 2006, 17, 4825-4829. | 1.3 | 19 |
| 1086 | Synthesis of Single-Wall Carbon Nanotubes from Diesel Soot. Japanese Journal of Applied Physics, 2006, 45, 8027-8029. | 0.8 | 19 |
| 1087 | Microfabrication of Single-Wall Carbon Nanotube One-Dimensional Unit. , 2006, , . | | 0 |
| 1088 | Thiolation of carbon nanotubes and sidewall functionalization. Journal of Materials Research, 2006, 21, 1012-1018. | 1.2 | 37 |
| 1089 | Single-walled carbon nanotube-derived novel structural material. Journal of Materials Research, 2006, 21, 1537-1542. | 1.2 | 35 |
| 1090 | Characterisation of the Growth Mechanism during PECVD of Multiwalled Carbon Nanotubes. , 0, , 77-93. | | 9 |
| 1091 | Formation, Atomic Structures and Properties of Carbon Nanocage Materials. Topics in Applied Physics, 2006, , 187-216. | 0.4 | 27 |
| 1092 | Bio-Applications of Nanoparticles. Advances in Experimental Medicine and Biology, 2007, , . | 0.8 | 26 |
| 1093 | Resonance charaterizaion of multi-wall cabon nanotubes. , 2007, , . | | 0 |
| 1094 | Assembling Carbon Nanotube Films as Thermal Interface Materials. , 2007, , . | | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1096 | A new approach towards improving the quality and yield of arc-generated carbon nanotubes. Journal Physics D: Applied Physics, 2007, 40, 4829-4835. | 1.3 | 12 |
| 1097 | Electrically Conducting Polymeric Microspheres Prepared by Adsorption of Multiwalled Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 2007, 464, 57/[639]-64/[646]. | 0.4 | 2 |
| 1098 | Fabrication and Tribological Properties of Polymer-Carbon Nanotubes Nanocomposites. Key Engineering Materials, 2007, 334-335, 661-664. | 0.4 | 6 |
| 1099 | Electrochemical actuation of carbon nanotube yarns. Smart Materials and Structures, 2007, 16, S243-S249. | 1.8 | 120 |
| 1100 | Anharmonic effects in single-walled carbon nanotubes. Journal of Physics Condensed Matter, 2007, 19, 486210. | 0.7 | 6 |
| 1101 | Chapter 7 Toward nanomaterials: Structural, energetic and reactivity aspects of single-walled carbon nanotubes. Theoretical and Computational Chemistry, 2007, 18, 167-199. | 0.2 | 13 |
| 1102 | Discoitacâ€Functionalized Nanomaterials. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2007, 37, 327-331. | 0.6 | 19 |
| 1103 | Flexible transfer of aligned carbon nanotube films for integration at lower temperature. Nanotechnology, 2007, 18, 355709. | 1.3 | 32 |
| 1104 | Carbon Based Sample Supports and Matrices for Laser Desorption/Ionization Mass Spectrometry. Recent Patents on Nanotechnology, 2007, 1, 113-119. | 0.7 | 10 |
| 1105 | Nanomaterial Based Environmental Sensors. , 2007, , 439-497. | | 0 |
| 1106 | An Equivalent Orthotropic Representation of the Nonlinear Elastic Behavior of Multiwalled Carbon Nanotubes. Journal of Engineering Materials and Technology, Transactions of the ASME, 2007, 129, 431-439. | 0.8 | 12 |
| 1107 | Influence of RuO[sub 2] nanoparticles on electron emission from carbon nanotubes. Journal of Vacuum Science & Technology B, 2007, 25, 1814. | 1.3 | 12 |
| 1108 | Integrated plasma synthesis of efficient catalytic nanostructures for fuel cell electrodes. Nanotechnology, 2007, 18, 305603. | 1.3 | 33 |
| 1109 | Covalently attached multilayer self-assemblies of single-walled carbon nanotubols and diazoresins. Nanotechnology, 2007, 18, 365704. | 1.3 | 17 |
| 1110 | Amorphous carbon contamination monitoring and process optimization for single-walled carbon nanotube integration. Nanotechnology, 2007, 18, 075603. | 1.3 | 19 |
| 1111 | Dynamic observations of the effect of pressure and temperature conditions on the selective synthesis of carbon nanotubes. Nanotechnology, 2007, 18, 125602. | 1.3 | 48 |
| 1112 | Carbon Nanowires Spontaneously Formed on Surface of Freshly Cleaved Highly Ordered Pyrolytic Graphite Wafer. Japanese Journal of Applied Physics, 2007, 46, 5568. | 0.8 | 3 |
| 1113 | Fabrication of Multilayered Hollow Nanofibers and Estimation of Its Young's Modulus. Japanese Journal of Applied Physics, 2007, 46, 6790-6795. | 0.8 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1114 | Control of adsorption and alignment of V ₂ O ₅ nanowires via chemically functionalized patterns. <i>Nanotechnology</i> , 2007, 18, 015304. | 1.3 | 27 |
| 1115 | Frequency-dependent surface acoustic wave behavior of hydrogen-sensitive nanoscale PdNi thin films. <i>Nanotechnology</i> , 2007, 18, 435502. | 1.3 | 7 |
| 1116 | New Technique for Fabrication of Individual Carbon-Nanotube Field Emitters. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 430-433. | 0.8 | 2 |
| 1117 | Layered tin dioxide microrods. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 3998-4002. | 1.3 | 1 |
| 1118 | Transfer characteristics and high frequency modeling of logic gates using carbon nanotube field effect transistors (CNT-FETs). , 2007, , . | | 1 |
| 1119 | One-dimensional carbon nanotube-Fe ₃ C nanocrystal composite. <i>Nanotechnology</i> , 2007, 18, 105602. | 1.3 | 13 |
| 1120 | Electrospun carbon nanotube composite nanofibres with uniaxially aligned arrays. <i>Nanotechnology</i> , 2007, 18, 115611. | 1.3 | 53 |
| 1121 | Large-area ordered C ₆₀ nanoparticle arrays. <i>Nanotechnology</i> , 2007, 18, 245306. | 1.3 | 4 |
| 1122 | Is it possible to grow amorphous normal nanosprings?. <i>Nanotechnology</i> , 2007, 18, 435606. | 1.3 | 4 |
| 1123 | Surface modification of CNT-cathodes by an acid-erosion process. <i>Nanotechnology</i> , 2007, 18, 505701. | 1.3 | 2 |
| 1124 | Using a cut-paste method to prepare a carbon nanotube fur electrode. <i>Nanotechnology</i> , 2007, 18, 195607. | 1.3 | 52 |
| 1125 | Deformation of isolated single-wall carbon nanotubes in electrospun polymer nanofibres. <i>Nanotechnology</i> , 2007, 18, 235707. | 1.3 | 64 |
| 1126 | Modified Eshelby tensor modeling for elastic property prediction of carbon nanotube reinforced ceramic nanocomposites. <i>Applied Physics Letters</i> , 2007, 91, . | 1.5 | 25 |
| 1127 | Laser direct writing carbon nanotube arrays on transparent substrates. <i>Applied Physics Letters</i> , 2007, 90, 133108. | 1.5 | 26 |
| 1128 | Microscopic investigation of laser-induced structural changes in single-wall carbon nanotubes. <i>Physical Review B</i> , 2007, 75, . | 1.1 | 15 |
| 1129 | Commensurate phases of gases adsorbed on carbon nanotubes. <i>Physical Review B</i> , 2007, 75, . | 1.1 | 14 |
| 1130 | Tensile mechanical behavior of hollow and filled carbon nanotubes under tension or combined tension-torsion. <i>Applied Physics Letters</i> , 2007, 90, 023102. | 1.5 | 72 |
| 1131 | Elastic torsional responses of carbon nanotube systems. <i>Journal of Applied Physics</i> , 2007, 101, 084309. | 1.1 | 76 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1132 | Modeling of fracture of carbon nanotubes with vacancy defect. <i>Physical Review B</i> , 2007, 75, . | 1.1 | 26 |
| 1133 | Photoinduced anisotropic response of azobenzene chromophore functionalized multiwalled carbon nanotubes. <i>Journal of Applied Physics</i> , 2007, 102, 053102. | 1.1 | 14 |
| 1134 | Multi-Walled Carbon Nanotube Networks As Gas Sensors for NO ₂ Detection. , 2007, , . | | 1 |
| 1135 | Synthesis of confined electrically conducting carbon nanowires by heavy ion irradiation of fullerene thin film. <i>Journal of Applied Physics</i> , 2007, 101, 014308. | 1.1 | 61 |
| 1136 | Horizontally directed growth of carbon nanotubes utilizing self-generated electric field from plasma induced surface charging. <i>Applied Physics Letters</i> , 2007, 91, . | 1.5 | 17 |
| 1137 | The effect of dimensional factors on buckling of multiwall carbon nanotubes. <i>Journal of Applied Physics</i> , 2007, 101, 014306. | 1.1 | 8 |
| 1138 | Suspended heated silicon platform for rapid thermal control of surface reactions with application to carbon nanotube synthesis. <i>Review of Scientific Instruments</i> , 2007, 78, 083901. | 0.6 | 27 |
| 1139 | Dispersion and purification of Mo ₆ S ₃ I ₆ nanowires in organic solvents. <i>Journal of Applied Physics</i> , 2007, 101, 014317. | 1.1 | 35 |
| 1140 | Efficient field emission from Li-salt functionalized multiwall carbon nanotubes on flexible substrates. <i>Applied Physics Letters</i> , 2007, 90, 013120. | 1.5 | 35 |
| 1141 | 1 [∧] f noise and percolation in carbon nanotube random networks. <i>Applied Physics Letters</i> , 2007, 90, 082107. | 1.5 | 41 |
| 1142 | Fabrication and characterization of PbS/multiwalled carbon nanotube heterostructures. <i>Applied Physics Letters</i> , 2007, 90, 161103. | 1.5 | 19 |
| 1143 | Electronic Bisection of a Single-Wall Carbon Nanotube by Controlled Chemisorption. <i>Physical Review Letters</i> , 2007, 99, 026802. | 2.9 | 18 |
| 1144 | Carbon Nanotube-Organized Polymeric Fibers and Measurement of Their Electrical Conductivity. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 464, 15/[597]-21/[603]. | 0.4 | 3 |
| 1145 | Charge transfer composites of bis(cyclopentadienyl) and bis(benzene) transition metal complexes encapsulated in single-walled carbon nanotubes. <i>Physical Review B</i> , 2007, 75, . | 1.1 | 18 |
| 1146 | Field emission from multiwall carbon nanotubes on paper substrates. <i>Applied Physics Letters</i> , 2007, 90, 173124. | 1.5 | 36 |
| 1147 | Prediction of the hydrogen storage capacity of carbon nanoscrolls. <i>Physical Review B</i> , 2007, 75, . | 1.1 | 98 |
| 1148 | Assessing the pulmonary toxicity of single-walled carbon nanohorns. <i>Nanotoxicology</i> , 2007, 1, 157-166. | 1.6 | 45 |
| 1149 | Dielectrophoresis force driven dynamics of carbon nanotubes in liquid crystal medium. <i>Journal of Applied Physics</i> , 2007, 102, 043503. | 1.1 | 30 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1150 | System Response of Nanotube based Actuators. Mechanics of Advanced Materials and Structures, 2007, 14, 57-65. | 1.5 | 10 |
| 1151 | Assessing the Implications of Process Variations on Future Carbon Nanotube Bundle Interconnect Solutions. , 2007, , . | | 52 |
| 1152 | Carbon Nanotube/Copper Composites for Via Filling and Thermal Management. , 2007, , . | | 35 |
| 1153 | Assembling Carbon Nanotube Bundles Using Transfer Process for Fine-Pitch Electrical Interconnect Applications. , 2007, , . | | 8 |
| 1154 | Passive wireless strain and pH sensing using carbon nanotube-gold nanocomposite thin films. , 2007, , . | | 17 |
| 1155 | The present status and key problems of carbon nanotube based polymer composites. EXPRESS Polymer Letters, 2007, 1, 253-273. | 1.1 | 408 |
| 1156 | DEPENDENCE OF MATERIAL QUALITY ON PERFORMANCE OF FLEXIBLE TRANSPARENT CONDUCTING FILMS WITH SINGLE-WALLED CARBON NANOTUBES. Nano, 2007, 02, 157-167. | 0.5 | 44 |
| 1157 | Chemical Attachment of Functionalized Single-Walled Carbon Nanotubes on Self-Assembled Monolayer. Solid State Phenomena, 2007, 121-123, 491-494. | 0.3 | 0 |
| 1158 | Fabrication of Closed packed Single-walled Carbon Nanotube film with nanometer thickness. Materials Research Society Symposia Proceedings, 2007, 1057, 1. | 0.1 | 0 |
| 1159 | Novel magnetic hydrogen sensing: a case study using antiferromagnetic haematite nanoparticles. Nanotechnology, 2007, 18, 165502. | 1.3 | 30 |
| 1160 | Chemical Vapor Deposition Growth of Multi-Walled Carbon Nanotubes on Metallic Substrates. Solid State Phenomena, 2007, 121-123, 101-104. | 0.3 | 0 |
| 1161 | Fabrication of Multiwall Carbon Nanotube-nanocrystalline Copper Nanocomposite Film by Electrochemical Deposition. Materials Research Society Symposia Proceedings, 2007, 1056, 1. | 0.1 | 2 |
| 1162 | Synthesis of Locally-Ordered Carbon Nanotube Arrays from Patterned Catalyst by Self-Assembly Technique. Solid State Phenomena, 2007, 121-123, 483-486. | 0.3 | 0 |
| 1163 | Stiffness and Thermal Conductivity of Carbon Nanotube Containing Aluminum. Key Engineering Materials, 2007, 353-358, 587-590. | 0.4 | 1 |
| 1164 | The Thinking on Multiphase Materials. Key Engineering Materials, 2007, 351, 233-237. | 0.4 | 0 |
| 1165 | Fabrication of Field Emission Cathode by Spraying Multiwalled Carbon Nanotubes on Screen Printed Substrate. Solid State Phenomena, 2007, 121-123, 247-250. | 0.3 | 1 |
| 1166 | Febrication of MWNTs Composites with In Situ Precipitation Method. Solid State Phenomena, 2007, 121-123, 135-138. | 0.3 | 3 |
| 1167 | Liquid Crystallinity and Novel Assembly of Amorphous Polymer Grafted Carbon Nanotubes. Solid State Phenomena, 2007, 121-123, 1411-1414. | 0.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1168 | Low Temperature Transfer of Aligned Carbon Nanotube Films Using Liftoff Technique. , 2007, , . | | 13 |
| 1169 | Generally Cylindrical Orthotropic Constitutive Properties Modeling of Matrix-filled Single-walled Nanotubes: Axial Mechanical Properties. Journal of Composite Materials, 2007, 41, 757-779. | 1.2 | 9 |
| 1170 | Rheology of concentrated carbon nanotube suspensions. Journal of Chemical Physics, 2007, 126, 124907. | 1.2 | 127 |
| 1171 | Parameters Affecting the Structure and Yield of Carbon Nanotubes in CVD Method. Materials Science Forum, 2007, 544-545, 773-776. | 0.3 | 0 |
| 1172 | BUCKLING AND POSTBUCKLING ANALYSIS OF MULTI-WALLED CARBON NANOTUBES BASED ON THE CONTINUUM SHELL MODEL. International Journal of Structural Stability and Dynamics, 2007, 07, 629-645. | 1.5 | 8 |
| 1173 | Assembly of Fine-Pitch Carbon Nanotube Bundles for Electrical Interconnect Applications. Materials Research Society Symposia Proceedings, 2007, 990, 1. | 0.1 | 1 |
| 1174 | Double-Walled Carbon Nanotube Electrodes for Electrochemical Sensing. Electrochemical and Solid-State Letters, 2007, 10, F13. | 2.2 | 30 |
| 1175 | Single-walled carbon nanotube growth on glass. Nanotechnology, 2007, 18, 015601. | 1.3 | 11 |
| 1177 | Conceptual Design of a Carbon Nanotube Based Gearbox. , 2007, , 881. | | 0 |
| 1178 | Spectrometric and Voltammetric Analysis of Urease â€“ Nickel Nanoelectrode as an Electrochemical Sensor. Sensors, 2007, 7, 1238-1255. | 2.1 | 48 |
| 1179 | Artificial introduction of defects into vertically aligned multiwalled carbon nanotube ensembles: Application to electrochemical sensors. Journal of Applied Physics, 2007, 102, . | 1.1 | 46 |
| 1180 | Tribological and Strength Properties of Alumina/Multi-Walled Carbon Nanotube Composites. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 1182 | Solubilization of Carbon Nanotubes and Their Applications. Kobunshi Ronbunshu, 2007, 64, 539-552. | 0.2 | 4 |
| 1183 | Nanofabrication Techniques. , 0, , 1-24. | | 0 |
| 1184 | Predictive Carbon Nanotube Models Using the Eigenvector Dimension Reduction (EDR) Method. , 2007, , . | | 0 |
| 1185 | Photoluminescence Properties of Carbon Nanotubes. Springer Series on Fluorescence, 2007, , 363-380. | 0.8 | 1 |
| 1186 | Study of the alignment of multiwalled carbon nanotubes using dielectrophoresis. , 2007, , . | | 0 |
| 1187 | Inkjet printing: a viable tool for processing polymer carbon nanotube composites. , 2007, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1188 | Autonomous multifunctional nanobrushes-autonomous materials. , 2007, , . | | 2 |
| 1189 | Three-dimensional multifunctional hierarchical nanocomposites: multifunctional materials. , 2007, , . | | 0 |
| 1190 | Electrical impedance tomography of carbon nanotube composite materials. , 2007, , . | | 9 |
| 1191 | Chapter 29 Rapid detection of organophosphates, Ochratoxin A, and Fusarium sp. in durum wheat via screen printed based electrochemical sensors. Comprehensive Analytical Chemistry, 2007, 49, 687-718. | 0.7 | 0 |
| 1192 | Real-Time Electrical Characterization of Dielectrophoretic Assembly of Multi-Walled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2007, 1057, 1. | 0.1 | 0 |
| 1193 | Nanomaterials hold promise in natural gas industry. International Journal of Nanotechnology, 2007, 4, 680. | 0.1 | 7 |
| 1194 | P&€100: Field&€Emission Properties of Photosensitive Carbon Nanotube Using Ethanol. Digest of Technical Papers SID International Symposium, 2007, 38, 580-582. | 0.1 | 0 |
| 1195 | Ethylene&€Norborene Copolymerization by Rare&€Earth Metal Complexes and by Carbon Nanotube&€Supported Metallocene Catalysis. Macromolecular Symposia, 2007, 260, 114-121. | 0.4 | 13 |
| 1196 | 42.2: Efficient Field Emission from ZnO by Morphological and Electronic Design. Digest of Technical Papers SID International Symposium, 2007, 38, 1413-1416. | 0.1 | 0 |
| 1197 | Conducting textiles from single-walled carbon nanotubes. Synthetic Metals, 2007, 157, 358-362. | 2.1 | 76 |
| 1198 | Magnetic loading of carbon nanotube/nano-Fe3O4 composite for electrochemical sensing. Talanta, 2007, 71, 1096-1102. | 2.9 | 211 |
| 1199 | Ultrasensitive electrogenerated chemiluminescence detection of DNA hybridization using carbon-nanotubes loaded with tris(2,2&€bipyridyl) ruthenium derivative tags. Talanta, 2007, 72, 1704-1709. | 2.9 | 61 |
| 1200 | Carbon nanotube/polystyrene composite electrode for microchip electrophoretic determination of rutin and quercetin in Flos Sophorae Immaturus. Talanta, 2007, 73, 932-937. | 2.9 | 74 |
| 1201 | Carbon nanotube and diamond as electrochemical detectors in microchip and conventional capillary electrophoresis. Talanta, 2007, 74, 326-332. | 2.9 | 47 |
| 1202 | Magnetic beads as versatile tools for electrochemical DNA and protein biosensing. Talanta, 2007, 74, 276-290. | 2.9 | 218 |
| 1203 | Biomolecules-carbon nanotubes doped conducting polymer nanocomposites and their sensor application. Talanta, 2007, 74, 370-375. | 2.9 | 60 |
| 1204 | Preparation and characterization of carbon paste micro-electrode based on carbon nano-particles. Talanta, 2007, 74, 405-411. | 2.9 | 38 |
| 1205 | Carbon nanotubes for electrochemical biosensing. Talanta, 2007, 74, 291-307. | 2.9 | 513 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 1206 | Rapid amperometric detection of coliforms based on MWNTs/Nafion composite film modified glass carbon electrode. <i>Talanta</i> , 2007, 75, 167-71. | 2.9 | 21 |
| 1207 | Thermally driven large-amplitude fluctuations in carbon-nanotube-based devices: Molecular dynamics simulations. <i>Physical Review B</i> , 2007, 75, . | 1.1 | 31 |
| 1208 | Electronic and transport properties of nanotubes. <i>Reviews of Modern Physics</i> , 2007, 79, 677-732. | 16.4 | 1,234 |
| 1209 | Toxicity Studies of Carbon Nanotubes. <i>Advances in Experimental Medicine and Biology</i> , 2007, 620, 181-204. | 0.8 | 137 |
| 1210 | Improved Optical Enrichment of SWNTs through Extraction with Chiral Nanotweezers of 2,6-Pyridylene-Bridged Diporphyrins. <i>Journal of the American Chemical Society</i> , 2007, 129, 15947-15953. | 6.6 | 100 |
| 1211 | Multi-gap Pseudospark Switches for High Voltage Applications. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2007, 14, 968-975. | 1.8 | 20 |
| 1212 | Controlled Synthesis and Novel Solution Rheology of Hyperbranched Poly(urea-urethane)-Functionalized Multiwalled Carbon Nanotubes. <i>Macromolecules</i> , 2007, 40, 5858-5867. | 2.2 | 55 |
| 1213 | Mechanical properties of carbon nanotube networks by molecular mechanics and impact molecular dynamics calculations. <i>Physical Review B</i> , 2007, 75, . | 1.1 | 49 |
| 1214 | Ethical issues in clinical trials involving nanomedicine. <i>Contemporary Clinical Trials</i> , 2007, 28, 433-441. | 0.8 | 92 |
| 1215 | Molecular dynamics simulation of polarizable carbon nanotubes. <i>Computational Materials Science</i> , 2007, 40, 460-465. | 1.4 | 10 |
| 1216 | The effects of the variations of carbon nanotubes on the micro-tribological behavior of carbon nanotubes/bismaleimide nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1957-1964. | 3.8 | 63 |
| 1217 | Synthesis and characterization of multiwalled carbon nanotube reinforced ultra high molecular weight polyethylene composite by electrostatic spraying technique. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2493-2499. | 3.8 | 103 |
| 1218 | Are Diamond Nanoparticles Cytotoxic?. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2-7. | 1.2 | 641 |
| 1219 | Effects of Carbon Nanotubes on Processing Stability of Polyoxymethylene in Melt-Mixing Process. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13945-13950. | 1.5 | 40 |
| 1220 | Solubilization of Single-Walled Carbon Nanotubes by Supramolecular Complexes of Barbituric Acid and Triaminopyrimidines. <i>Langmuir</i> , 2007, 23, 10913-10915. | 1.6 | 47 |
| 1221 | Pt-Catalyzed Formation of Ni Nanoshells on Carbon Nanotubes. <i>Angewandte Chemie</i> , 2007, 119, 7156-7160. | 1.6 | 6 |
| 1222 | Preparation of Carbon Nanotubes/Neutral Red Composite Film Modified Electrode and Its Catalysis on Rutin. <i>Electroanalysis</i> , 2007, 19, 2329-2334. | 1.5 | 22 |
| 1223 | Biomedical Platforms Based on Composite Nanomaterials and Cellular Toxicity. <i>Journal of Physics: Conference Series</i> , 2007, 61, 95-98. | 0.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1224 | Soft materials with graphitic nanostructures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1539-1552. | 1.6 | 29 |
| 1225 | Dispersion of carbon nanotubes and polymer nanocomposite fabrication using trifluoroacetic acid as a co-solvent. Nanotechnology, 2007, 18, 415606. | 1.3 | 62 |
| 1226 | Formulation in terms of normalized propagators of a charge-dipole model enabling the calculation of the polarization properties of fullerenes and carbon nanotubes. Physical Review B, 2007, 75, . | 1.1 | 111 |
| 1227 | Decorating carbon nanotubes with metal or semiconductor nanoparticles. Journal of Materials Chemistry, 2007, 17, 2679. | 6.7 | 622 |
| 1228 | Structural Characterization of Carbon Nanotube Rope Films for Gossamer Structure Applications. , 2007, , . | | 0 |
| 1229 | Characterization of Single- and Multi-walled Carbon Nanotubes at Microwave Frequencies. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , . | 0.0 | 5 |
| 1230 | Hot electron relaxation and phonon dynamics in graphene. Applied Physics Letters, 2007, 91, . | 1.5 | 160 |
| 1231 | Nitrogen-mediated fabrication of transition metal-carbon nanotube hybrid materials. Applied Physics Letters, 2007, 90, 013103. | 1.5 | 47 |
| 1232 | Predicting the Performance and Reliability of Carbon Nanotube Bundles for On-Chip Interconnect. , 2007, , . | | 47 |
| 1233 | DNA Damage Induced by Multiwalled Carbon Nanotubes in Mouse Embryonic Stem Cells. Nano Letters, 2007, 7, 3592-3597. | 4.5 | 351 |
| 1234 | Modeling of carbon nanotube composites for vibration damping. , 2007, , . | | 4 |
| 1235 | Spontaneous Debundling of Single-Walled Carbon Nanotubes in DNA-Based Dispersions. Journal of Physical Chemistry C, 2007, 111, 66-74. | 1.5 | 93 |
| 1236 | Synthesis and Characterization of Platinum Nanowireâ€“Carbon Nanotube Heterostructures. Chemistry of Materials, 2007, 19, 6376-6378. | 3.2 | 100 |
| 1238 | Entanglement of a pair of atomic qubits near a carbon nanotube. Physical Review B, 2007, 75, . | 1.1 | 24 |
| 1239 | Single-Walled MoTe ₂ Nanotubes. Nano Letters, 2007, 7, 2987-2992. | 4.5 | 37 |
| 1240 | Voltage and Length-Dependent Phase Diagram of the Electronic Transport in Carbon Nanotubes. Nano Letters, 2007, 7, 2568-2573. | 4.5 | 32 |
| 1241 | Development of Carbon Nanotube-Based Sensorsâ€”A Review. IEEE Sensors Journal, 2007, 7, 266-284. | 2.4 | 242 |
| 1242 | Modeling Crosstalk Effects in CNT Bus Architectures. IEEE Nanotechnology Magazine, 2007, 6, 133-145. | 1.1 | 90 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 1243 | Microwave Absorption of Single-Walled Carbon Nanotubes/Soluble Cross-Linked Polyurethane Composites. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13696-13700. | 1.5 | 324 |
| 1244 | Behavioral and Physiological Changes in <i>Daphnia magna</i> when Exposed to Nanoparticle Suspensions (Titanium Dioxide, Nano-C60, and C60HxC70Hx). <i>Environmental Science & Technology</i> , 2007, 41, 4465-4470. | 4.6 | 362 |
| 1245 | Silicon-Based Low-Dimensional Nanomaterials and Nanodevices. <i>Chemical Reviews</i> , 2007, 107, 1454-1532. | 23.0 | 219 |
| 1246 | Effects of anisotropy, aspect ratio, and nonstraightness of carbon nanotubes on thermal conductivity of carbon nanotube composites. <i>Applied Physics Letters</i> , 2007, 90, 021914. | 1.5 | 204 |
| 1247 | Field emission properties of carbon nanostructures: A review. , 2007, , . | | 4 |
| 1248 | Quantitative structural analysis of individual nanotubes by electron diffraction. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2007, 222, . | 0.4 | 15 |
| 1249 | Collective modes of a carbon nanotube array and Brillouin scattering of a laser. <i>Nanotechnology</i> , 2007, 18, 315702. | 1.3 | 6 |
| 1250 | Bioinspired functional block copolymers. <i>Soft Matter</i> , 2007, 3, 394-408. | 1.2 | 212 |
| 1251 | Thermal properties and percolation in carbon nanotube-polymer composites. <i>Applied Physics Letters</i> , 2007, 91, . | 1.5 | 260 |
| 1252 | Growth Kinetics of 0.5 cm Vertically Aligned Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1907-1910. | 1.2 | 165 |
| 1253 | Competition and cooperation between lattice-oriented growth and step-templated growth of aligned carbon nanotubes on sapphire. <i>Applied Physics Letters</i> , 2007, 90, 123112. | 1.5 | 57 |
| 1254 | Fine-pitch carbon nanotube bundles assembly using CNT transfer for electrical interconnects. , 2007, , . | | 7 |
| 1256 | Raman Spectral Measuring of the Growth Rate of Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8407-8409. | 1.5 | 23 |
| 1257 | Size Dependence of Gas Sensitivity of ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1900-1903. | 1.5 | 393 |
| 1258 | Bistable electrical switching and write-once read-many-times memory effect in a donor-acceptor containing polyfluorene derivative and its carbon nanotube composites. <i>Journal of Applied Physics</i> , 2007, 102, 024502. | 1.1 | 81 |
| 1259 | Robust cell migration and neuronal growth on pristine carbon nanotube sheets and yarns. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 1245-1261. | 1.9 | 154 |
| 1260 | Synthesis of high purity single-walled carbon nanotubes from ethanol by catalytic gas flow CVD reactions. <i>Nanotechnology</i> , 2007, 18, 225604. | 1.3 | 49 |
| 1261 | Electron energy-loss spectroscopy characterization and microwave absorption of iron-filled carbon-nitrogen nanotubes. <i>Nanotechnology</i> , 2007, 18, 355705. | 1.3 | 27 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1262 | In-Situ Synthesis of Soluble Poly(3-hexylthiophene)/Multiwalled Carbon Nanotube Composite: Morphology, Structure, and Conductivity. <i>Macromolecules</i> , 2007, 40, 278-287. | 2.2 | 144 |
| 1263 | Facilitating the CVD synthesis of seamless double-walled carbon nanotubes. <i>Nanotechnology</i> , 2007, 18, 275610. | 1.3 | 26 |
| 1264 | Polycarbosilane-derived SiC/single-walled carbon nanotube nanocomposites. <i>Nanotechnology</i> , 2007, 18, 145614. | 1.3 | 16 |
| 1265 | Fluorescence Visualization of Carbon Nanotubes Using Quenching Effect for Nanomanipulation. , 2007, , . | | 4 |
| 1266 | Polymer Grafting of Carbon Nanotubes Using Living Free-Radical Polymerization. <i>Polymer Reviews</i> , 2007, 47, 265-290. | 5.3 | 115 |
| 1267 | Dielectric Response of Aligned Semiconducting Single-Wall Nanotubes. <i>Physical Review Letters</i> , 2007, 98, 147402. | 2.9 | 74 |
| 1268 | Torsional behavior of chiral single-walled carbon nanotubes is loading direction dependent. <i>Applied Physics Letters</i> , 2007, 90, 201910. | 1.5 | 74 |
| 1269 | Carbon nanotube cantilevers on self-aligned copper silicide nanobeams. <i>Applied Physics Letters</i> , 2007, 90, 173107. | 1.5 | 21 |
| 1270 | The State-of-the-art Hybrid Power Supply for FED with Carbon Nanotube. , 2007, , . | | 0 |
| 1271 | Multi-walled Carbon Nanotubes/Poly(L-lactide) Nanocomposite Strain Sensor for Biomechanical Implants. , 2007, , . | | 15 |
| 1272 | Comparisons of different carbon conductive additives on the electrochemical performance of activated carbon. <i>Nanotechnology</i> , 2007, 18, 205705. | 1.3 | 27 |
| 1273 | Fiddling the string of carbon nanotubes with amphiphiles. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 439-447. | 1.3 | 37 |
| 1274 | Graphite-like carbon-encapsulated iron nanoparticle self-assembly into macroscopic microtube structures. <i>Journal of Materials Chemistry</i> , 2007, 17, 4619. | 6.7 | 12 |
| 1275 | Inelastic buckling of carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 90, 033110. | 1.5 | 68 |
| 1276 | Fabrication of densely packed multi-walled carbon nanotube ultrathin films using a liquid-liquid interface. <i>Journal of Materials Chemistry</i> , 2007, 17, 3806. | 6.7 | 46 |
| 1277 | Observation of carbon nanotubes in water by supplying fluorescent reagent with porous structured PDMS supports. , 2007, , . | | 0 |
| 1278 | Quantitative Control over Electrodeposition of Silica Films onto Single-Walled Carbon Nanotube Surfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17730-17742. | 1.5 | 25 |
| 1279 | Thermal Stability of Carbon-Nanotube-Based Field Emission Diodes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12112-12115. | 1.5 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1280 | Fabrication of Three-Dimensional ZnO ²⁺ Carbon Nanotube (CNT) Hybrids Using Self-Assembled CNT Micropatterns as Framework. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17254-17259. | 1.5 | 44 |
| 1281 | Supramolecular single-walled carbon nanotubes (SWCNTs) network polymer made by hybrids of SWCNTs and water-soluble calix[8]arenes. <i>Chemical Communications</i> , 2007, , 4776. | 2.2 | 39 |
| 1282 | Nanorobotic manipulation setup for pick-and-place handling and nondestructive characterization of carbon nanotubes. , 2007, , . | | 30 |
| 1283 | Polymer-masking for controlled functionalization of carbon nanotubes. <i>Chemical Communications</i> , 2007, , 3859. | 2.2 | 20 |
| 1284 | Assessing Carbon Nanotube Bundle Interconnect for Future FPGA Architectures. , 2007, , . | | 54 |
| 1285 | Peptides that non-covalently functionalize single-walled carbon nanotubes to give controlled solubility characteristics. <i>Journal of Materials Chemistry</i> , 2007, 17, 1909. | 6.7 | 76 |
| 1286 | Patterned forest-assembly of single-wall carbon nanotubes on gold using a non-thiol functionalization technique. <i>Journal of Materials Chemistry</i> , 2007, 17, 4577. | 6.7 | 13 |
| 1287 | Concepts for Carbon Nanotube Sensors. , 2007, , . | | 4 |
| 1288 | Hybrid ballast for field emission lamp with CNT emitter. , 2007, , . | | 4 |
| 1289 | Aligned Heterostructures of Single-Crystalline Tin Nanowires Encapsulated in Amorphous Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9130-9135. | 1.5 | 55 |
| 1290 | Direct Observation of Field Emission in a Single TaSi ₂ Nanowire. <i>Nano Letters</i> , 2007, 7, 2243-2247. | 4.5 | 33 |
| 1291 | Individual Multiwall Carbon Nanotubes Spectroscopy by Scanning Transmission X-ray Microscopy. <i>Nano Letters</i> , 2007, 7, 2435-2440. | 4.5 | 51 |
| 1292 | Detection of NADH and Ethanol Based on Catalytic Activity of Soluble Carbon Nanofiber with Low Overpotential. <i>Analytical Chemistry</i> , 2007, 79, 453-458. | 3.2 | 190 |
| 1293 | Use of High-Purity Metal-Catalyst-Free Multiwalled Carbon Nanotubes To Avoid Potential Experimental Misinterpretations. <i>Langmuir</i> , 2007, 23, 9501-9504. | 1.6 | 91 |
| 1294 | Functionalization of Single-Walled Carbon Nanotubes and Fullerenes via a Dimethyl Acetylenedicarboxylate ²⁻ 4-Dimethylaminopyridine Zwitterion Approach. <i>Journal of the American Chemical Society</i> , 2007, 129, 7714-7715. | 6.6 | 58 |
| 1295 | Nanometer scale carbon structures for charge-transfer systems and photovoltaic applications. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1400. | 1.3 | 123 |
| 1296 | Preparation and Characterization of Linear Low Density Polyethylene/Carbon Nanotube Nanocomposites. <i>Journal of Macromolecular Science - Physics</i> , 2007, 46, 877-889. | 0.4 | 58 |
| 1297 | Vertically Aligned Large-Diameter Double-Walled Carbon Nanotube Arrays Having Ultralow Density. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9077-9080. | 1.5 | 69 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1298 | Integration of Conductivity, Transparency, and Mechanical Strength into Highly Homogeneous Layer-by-Layer Composites of Single-Walled Carbon Nanotubes for Optoelectronics. <i>Chemistry of Materials</i> , 2007, 19, 5467-5474. | 3.2 | 154 |
| 1299 | Static and Optical Transverse and Longitudinal Screened Polarizabilities of Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3285-3289. | 1.5 | 17 |
| 1300 | Nanoscale Curvature Effect on Ordering of N_2 Molecules Adsorbed on Single Wall Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15660-15663. | 1.5 | 26 |
| 1301 | Molecular Monolayers Enhance the Formation of Electrocatalytic Platinum Nanoparticles on Vertically Aligned Carbon Nanofiber Scaffolds. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7260-7265. | 1.5 | 25 |
| 1302 | Controlling Nanotube Dimensions: Correlation between Composition, Diameter, and Internal Energy of Single-Walled Mixed Oxide Nanotubes. <i>ACS Nano</i> , 2007, 1, 393-402. | 7.3 | 61 |
| 1303 | Short, Highly Ordered, Single-Walled Mixed-Oxide Nanotubes Assemble from Amorphous Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 6820-6826. | 6.6 | 82 |
| 1304 | Application of nonlocal elastic shell theory in wave propagation analysis of carbon nanotubes. <i>Smart Materials and Structures</i> , 2007, 16, 178-190. | 1.8 | 176 |
| 1305 | Electron Dephasing and Weak Localization in Sn Doped In_2O_3 Nanowires. <i>Nano Letters</i> , 2007, 7, 1439-1443. | 4.5 | 43 |
| 1306 | DNA-Hemoglobin-Multiwalls Carbon Nanotube Hybrid Material with Sandwich Structure: Preparation, Characterization, and Application in Bioelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8655-8660. | 1.5 | 39 |
| 1307 | Near-Static Dielectric Polarization of Individual Carbon Nanotubes. <i>Nano Letters</i> , 2007, 7, 2729-2733. | 4.5 | 116 |
| 1308 | Bifunctional Anchors Connecting Carbon Nanotubes to Metal Electrodes for Improved Nanoelectronics. <i>Journal of the American Chemical Society</i> , 2007, 129, 9834-9835. | 6.6 | 26 |
| 1309 | Optical Absorption Spectra and Polarizabilities of Silicon Carbide Nanotubes: A First Principles Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18864-18870. | 1.5 | 11 |
| 1310 | Functional One-Dimensional Nanomaterials: Applications in Nanoscale Biosensors. <i>Analytical Letters</i> , 2007, 40, 2067-2096. | 1.0 | 90 |
| 1311 | Novel Method to Evaluate the Carbon Network of Single-Walled Carbon Nanotubes by Hydrogen Physisorption. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14937-14941. | 1.5 | 41 |
| 1312 | Alignment of Carbon Nanotubes by Acoustic Manipulation in a Fluidic Medium. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16802-16807. | 1.5 | 21 |
| 1313 | Adsorption Behavior of DNA-Wrapped Carbon Nanotubes on Self-Assembled Monolayer Surfaces. <i>Langmuir</i> , 2007, 23, 6252-6256. | 1.6 | 27 |
| 1314 | A Highly Selective, One-Pot Purification Method for Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1249-1252. | 1.2 | 99 |
| 1315 | Chemisorption of Hydrogen Atoms on the Sidewalls of Armchair Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7376-7383. | 1.5 | 79 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1316 | Characterizing the Morphologies of Mechanically Manipulated Multiwall Carbon Nanotube Films by Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17933-17940. | 1.5 | 29 |
| 1317 | Room temperature dc electrical conductivity studies of electron-beam irradiated carbon nanotubes. <i>Diamond and Related Materials</i> , 2007, 16, 236-242. | 1.8 | 17 |
| 1318 | One-Step Synthesis of Polycrystalline Carbon Nanofibers with Periodic Dome-Shaped Interiors and Their Reversible Lithium-Ion Storage Properties. <i>Chemistry of Materials</i> , 2007, 19, 4198-4204. | 3.2 | 53 |
| 1319 | Microstructure, Hardness, and Bending Strength of Carbon Nanotube-Iron Aluminide Composites. <i>Journal of Composite Materials</i> , 2007, 41, 2025-2031. | 1.2 | 12 |
| 1320 | Frequency Dependence of Gold Nanoparticle Superassembly by Dielectrophoresis. <i>Langmuir</i> , 2007, 23, 12450-12456. | 1.6 | 130 |
| 1321 | Longer Nanotubes at Lower Temperatures: The Influence of Effective Activation Energies on Carbon Nanotube Growth by Thermal Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17705-17712. | 1.5 | 39 |
| 1322 | Preparation and Characterization of AlN-Based Hierarchical Nanostructures with Improved Chemical Stability. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12639-12642. | 1.5 | 23 |
| 1323 | Size-Controlled in situ Synthesis of Metal Nanoparticles on Dendrimer-Modified Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2416-2420. | 1.5 | 84 |
| 1324 | Comparison of electronic and geometric structures of nanotubes with subnanometer diameters: A density functional theory study. <i>Physical Review B</i> , 2007, 76, . | 1.1 | 21 |
| 1325 | Quantum-Chemical Interpretation of Current-Induced Forces on Adatoms on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12478-12482. | 1.5 | 6 |
| 1326 | Practical Modeling of Heterogeneous Bundles of Single-Walled Carbon Nanotubes for Adsorption Applications: Estimating the Fraction of Open-Ended Nanotubes in Samples. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13747-13755. | 1.5 | 30 |
| 1327 | Van der Waals-Like Isotherms in a Confined Electrolyte by Spherical and Cylindrical Nanopores. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2033-2044. | 1.2 | 12 |
| 1328 | Effect of Interfacial Interaction on the Cross-Sectional Morphology of Tobacco Mosaic Virus Using GISAXS. <i>Langmuir</i> , 2007, 23, 11157-11163. | 1.6 | 34 |
| 1329 | Bonding changes in single wall carbon nanotubes (SWCNT) on Ti and TiH ₂ addition probed by X-ray Raman scattering. <i>Diamond and Related Materials</i> , 2007, 16, 1136-1139. | 1.8 | 9 |
| 1330 | Nanostructured Gas Diffusion and Catalyst Layers for Proton Exchange Membrane Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, B47. | 2.2 | 40 |
| 1331 | Modification of carbon nanotubes and their electrochemical detection. <i>Diamond and Related Materials</i> , 2007, 16, 1988-1991. | 1.8 | 5 |
| 1332 | Important parameters for the catalytic nanoparticles formation towards the growth of carbon nanotube aligned arrays. <i>Diamond and Related Materials</i> , 2007, 16, 1082-1086. | 1.8 | 14 |
| 1333 | Physical and mechanical properties of thick self-standing layers of multiwall carbon nanotubes. <i>Diamond and Related Materials</i> , 2007, 16, 1174-1178. | 1.8 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1334 | Growth model for plasma-CVD growth of carbon nano-tubes on Ni-sheets. <i>Diamond and Related Materials</i> , 2007, 16, 369-378. | 1.8 | 29 |
| 1335 | Physical Adsorption of Block Copolymers to SWNT and MWNT: A Nonwrapping Mechanism. <i>Macromolecules</i> , 2007, 40, 3676-3685. | 2.2 | 155 |
| 1336 | Chemically-Responsive Sol-Gel Transition of Supramolecular Single-Walled Carbon Nanotubes (SWNTs) Hydrogel Made by Hybrids of SWNTs and Cyclodextrins. <i>Journal of the American Chemical Society</i> , 2007, 129, 4878-4879. | 6.6 | 246 |
| 1337 | A Review of Carbon Nanotube Synthesis via Fluidized-Bed Chemical Vapor Deposition. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 997-1012. | 1.8 | 271 |
| 1338 | Meeting the Clean Energy Demand: Nanostructure Architectures for Solar Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2834-2860. | 1.5 | 2,094 |
| 1339 | Superior flexibility of super carbon nanotubes: Molecular dynamics simulations. <i>Applied Physics Letters</i> , 2007, 91, . | 1.5 | 36 |
| 1340 | Ab Initio Calculation of a Graphene-Ribbon-Based Molecular Switch. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14266-14273. | 1.5 | 27 |
| 1341 | Supported metallocene catalysis as an efficient tool for the preparation of polyethylene/carbon nanotube nanocomposites: effect of the catalytic system on the coating morphology. <i>Journal of Materials Chemistry</i> , 2007, 17, 2359. | 6.7 | 45 |
| 1342 | Organic spintronics. <i>Journal Physics D: Applied Physics</i> , 2007, 40, R205-R228. | 1.3 | 425 |
| 1343 | Multiscale-failure criteria of carbon nanotube systems under biaxial tension-torsion. <i>Nanotechnology</i> , 2007, 18, 485715. | 1.3 | 12 |
| 1344 | Potential Applications of Carbon Nanotubes. <i>Topics in Applied Physics</i> , 2007, , 13-62. | 0.4 | 307 |
| 1345 | Shear-induced conductor-insulator transition in melt-mixed polypropylene-carbon nanotube dispersions. <i>Physical Review B</i> , 2007, 76, . | 1.1 | 78 |
| 1346 | Zeta-Potential Measurements of Surfactant-Wrapped Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13684-13690. | 1.5 | 348 |
| 1347 | Simple Length Determination of Single-Walled Carbon Nanotubes by Viscosity Measurements in Dilute Suspensions. <i>Macromolecules</i> , 2007, 40, 4043-4047. | 2.2 | 75 |
| 1348 | Temperature and pH-Responsive Single-Walled Carbon Nanotube Dispersions. <i>Nano Letters</i> , 2007, 7, 1480-1484. | 4.5 | 156 |
| 1349 | An Electrothermal Carbon Nanotube Gas Sensor. <i>Nano Letters</i> , 2007, 7, 3686-3690. | 4.5 | 142 |
| 1350 | Measurement of Single-Wall Nanotube Dispersion by Size Exclusion Chromatography. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17914-17918. | 1.5 | 51 |
| 1351 | Raman Spectral Evolution in Individual Metallic Single-Walled Carbon Nanotubes upon Covalent Sidewall Functionalization. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17755-17760. | 1.5 | 23 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1352 | Enhanced Half-Metallicity in Edge-Oxidized Zigzag Graphene Nanoribbons. <i>Nano Letters</i> , 2007, 7, 2295-2299. | 4.5 | 547 |
| 1353 | Low-frequency excitation spectra in double-walled armchair carbon nanotubes. <i>Physical Review B</i> , 2007, 76, . | 1.1 | 12 |
| 1354 | Piezoelectric $\hat{\Gamma}^2$ Polymorph in Poly(vinylidene fluoride)-Functionalized Multiwalled Carbon Nanotube Nanocomposite Films. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14670-14680. | 1.5 | 161 |
| 1355 | Dendrimer-Mediated Synthesis of Water-Dispersible Carbon-Nanotube-Supported Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8459-8462. | 1.5 | 35 |
| 1356 | Structure and Photoresponsive Behaviors of Multiwalled Carbon Nanotubes Grafted by Polyurethanes Containing Azobenzene Side Chains. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11231-11239. | 1.5 | 64 |
| 1357 | Multifunctional layer-by-layer carbon nanotubeâ€“polyelectrolyte thin films for strain and corrosion sensing. <i>Smart Materials and Structures</i> , 2007, 16, 429-438. | 1.8 | 259 |
| 1358 | New Antibody Immobilization Strategy Based on Gold Nanoparticles and Azure I/Multi-Walled Carbon Nanotube Composite Membranes for an Amperometric Enzyme Immunosensor. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8443-8450. | 1.5 | 65 |
| 1359 | Influence of Finely Dispersed Carbon Nanotubes on the Performance Characteristics of Polymer Electrolytes for Lithium Batteries. <i>IEEE Nanotechnology Magazine</i> , 2007, 6, 362-367. | 1.1 | 13 |
| 1360 | Production and Characterization of Coaxial Nanotube Junctions and Networks of CN_x/CNT. <i>Nano Letters</i> , 2007, 7, 2220-2226. | 4.5 | 62 |
| 1361 | Synthesis of Single Walled Carbon Nanotubes by Laser Vaporized Catalytic Chemical Vapor Deposition Technique. , 2007, , . | | 1 |
| 1362 | Microscopic polarization in ropes and films of aligned carbon nanotubes. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2007, 6, 353-364. | 0.1 | 1 |
| 1364 | Carbon Nanotube/Poly(methyl methacrylate) (CNT/PMMA) Composite Electrode Fabricated by In Situ Polymerization for Microchip Capillary Electrophoresis. <i>Chemistry - A European Journal</i> , 2007, 13, 846-853. | 1.7 | 88 |
| 1365 | Ionic Liquids for Soft Functional Materials with Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2007, 13, 5048-5058. | 1.7 | 504 |
| 1366 | Polypropylene/carbon nanotube nanocomposite fibers: Processâ€“morphologyâ€“property relationships. <i>Journal of Applied Polymer Science</i> , 2007, 103, 3844-3850. | 1.3 | 87 |
| 1367 | Polymeric carbon nanocomposites from multiwalled carbon nanotubes functionalized with segmented polyurethane. <i>Journal of Applied Polymer Science</i> , 2007, 105, 1642-1650. | 1.3 | 59 |
| 1368 | Rheology, morphology, and crystallization behavior of meltâ€“mixed blends of polyamide6 and acrylonitrileâ€“butadieneâ€“styrene: Influence of reactive compatibilizer premixed with multiwall carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3394-3408. | 1.3 | 67 |
| 1369 | Aligned Carbon Nanotubes in the Supramolecular Order of Discotic Liquid Crystals. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1501-1503. | 7.2 | 110 |
| 1370 | Ptâ€“Catalyzed Formation of Ni Nanoshells on Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7026-7030. | 7.2 | 56 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 1371 | Controlled Hybrid Nanostructures through Protein-Mediated Noncovalent Functionalization of Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6446-6449. | 7.2 | 67 |
| 1374 | The Synergistic Effect of Prussian-Blue-Grafted Carbon Nanotube/Poly(4-vinylpyridine) Composites for Amperometric Sensing. <i>Advanced Functional Materials</i> , 2007, 17, 1574-1580. | 7.8 | 202 |
| 1375 | Platinum Nanoparticle Clusters Immobilized on Multiwalled Carbon Nanotubes: Electrodeposition and Enhanced Electrocatalytic Activity for Methanol Oxidation. <i>Advanced Functional Materials</i> , 2007, 17, 1537-1541. | 7.8 | 148 |
| 1376 | Preparation of Smart Polymer/Carbon Nanotube Conjugates via Stimuli-Responsive Linkages. <i>Advanced Functional Materials</i> , 2007, 17, 2470-2477. | 7.8 | 42 |
| 1377 | Facile Synthesis of Nanostructured Carbon through Self-Assembly between Block Copolymers and Carbohydrates. <i>Advanced Functional Materials</i> , 2007, 17, 2710-2716. | 7.8 | 52 |
| 1378 | Regenerated-Cellulose/Multiwalled- Carbon-Nanotube Composite Fibers with Enhanced Mechanical Properties Prepared with the Ionic Liquid 1-Allyl-3-methylimidazolium Chloride. <i>Advanced Materials</i> , 2007, 19, 698-704. | 11.1 | 262 |
| 1379 | Giant Dielectric Permittivities in Functionalized Carbon-Nanotube/ Electroactive-Polymer Nanocomposites. <i>Advanced Materials</i> , 2007, 19, 852-857. | 11.1 | 764 |
| 1380 | Water-Redispersible Isolated Single-Walled Carbon Nanotubes Fabricated by In-Situ Polymerization of Micelles. <i>Advanced Materials</i> , 2007, 19, 929-933. | 11.1 | 80 |
| 1381 | Rapid Mass Transport in Mixed Matrix Nanotube/Polymer Membranes. <i>Advanced Materials</i> , 2007, 19, 2672-2676. | 11.1 | 39 |
| 1382 | From Well-Defined Carbon-Rich Precursors to Monodisperse Carbon Particles with Hierarchic Structures. <i>Advanced Materials</i> , 2007, 19, 1849-1853. | 11.1 | 43 |
| 1383 | Multifunctional Macroarchitectures of Double-Walled Carbon Nanotube Fibers. <i>Advanced Materials</i> , 2007, 19, 1719-1723. | 11.1 | 52 |
| 1384 | The Catalytic Synthesis of Three-Dimensional Hierarchical Carbon Nanotube Composites with High Electrical Conductivity Based on Electrochemical Iron Deposition. <i>Advanced Materials</i> , 2007, 19, 2957-2960. | 11.1 | 40 |
| 1385 | Anchoring ZnO Particles on Functionalized Single Wall Carbon Nanotubes. Excited State Interactions and Charge Collection. <i>Advanced Materials</i> , 2007, 19, 2935-2940. | 11.1 | 187 |
| 1386 | Capillarity-Driven Assembly of Carbon Nanotubes on Substrates into Dense Vertically Aligned Arrays. <i>Advanced Materials</i> , 2007, 19, 2984-2987. | 11.1 | 31 |
| 1387 | Observation of Percolation-Like Scaling "Far from the Percolation Threshold" in High Volume Fraction, High Conductivity Polymer-Nanotube Composite Films. <i>Advanced Materials</i> , 2007, 19, 4443-4447. | 11.1 | 89 |
| 1388 | Structure-Dependent Electrical Properties of Carbon Nanotube Fibers. <i>Advanced Materials</i> , 2007, 19, 3358-3363. | 11.1 | 393 |
| 1389 | Ultrathick Freestanding Aligned Carbon Nanotube Films. <i>Advanced Materials</i> , 2007, 19, 3300-3303. | 11.1 | 136 |
| 1390 | A Carbon Nanomattress: A New Nanosystem with Intrinsic, Tunable, Damping Properties. <i>Advanced Materials</i> , 2007, 19, 2941-2945. | 11.1 | 44 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 1391 | Hybrid Diamond-Graphite Nanowires Produced by Microwave Plasma Chemical Vapor Deposition. <i>Advanced Materials</i> , 2007, 19, 4058-4062. | 11.1 | 107 |
| 1392 | Carbon Nanotubes for Electronic and Electrochemical Detection of Biomolecules. <i>Advanced Materials</i> , 2007, 19, 3214-3228. | 11.1 | 460 |
| 1393 | Controlled Etching of Carbon Nanotubes by Iron-Catalyzed Steam Gasification. <i>Advanced Materials</i> , 2007, 19, 3648-3652. | 11.1 | 44 |
| 1394 | Spent FCC catalysts: An untapped resource of carbon nanotubes?. <i>AIChE Journal</i> , 2007, 53, 2198-2200. | 1.8 | 2 |
| 1395 | Electrocatalytic Reduction of H ₂ O ₂ and Oxygen on the Surface of Thionin Incorporated onto MWCNTs Modified Glassy Carbon Electrode: Application to Glucose Detection. <i>Electroanalysis</i> , 2007, 19, 1100-1108. | 1.5 | 39 |
| 1396 | A Novel Functionalized Single-Wall Carbon Nanotube Modified Electrode and Its Application in Determination of Dopamine and Uric Acid in the Presence of High Concentrations of Ascorbic Acid. <i>Electroanalysis</i> , 2007, 19, 1695-1701. | 1.5 | 90 |
| 1397 | Simultaneous Voltammetric Determination of Uric Acid and Ascorbic Acid Using a Carbon-Paste Electrode Modified with Multi-Walled Carbon Nanotubes/Nafion and Cobalt(II)nitrosalophen. <i>Electroanalysis</i> , 2007, 19, 2234-2242. | 1.5 | 46 |
| 1398 | Preparation of High Performance Pt/CNT Catalysts Stabilized by Ethylenediaminetetraacetic Acid Disodium Salt. <i>Fuel Cells</i> , 2007, 7, 402-407. | 1.5 | 28 |
| 1399 | Carbon nanotube-enhanced thermal destruction of cancer cells in a noninvasive radiofrequency field. <i>Cancer</i> , 2007, 110, 2654-2665. | 2.0 | 381 |
| 1400 | Electrical Properties of a Composite Film of Poly(acrylonitrile) Nanoparticles Coated with Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 377-383. | 1.1 | 18 |
| 1401 | Peroxide Assisted Coupling and Characterization of Carbon-Nanofiber-Reinforced Poly(propylene) Composites. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 1095-1102. | 1.7 | 10 |
| 1402 | Ethylene-Norbornene Copolymerization by Carbon Nanotube-Supported Metallocene Catalysis: Generation of High-Performance Polyolefinic Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2007, 28, 822-827. | 2.0 | 28 |
| 1403 | Microwave-Assisted Synthesis of Crosslinked Poly(vinyl alcohol) Nanocomposites Comprising Single-Walled Carbon Nanotubes, Multi-Walled Carbon Nanotubes, and Buckminsterfullerene. <i>Macromolecular Rapid Communications</i> , 2007, 28, 842-847. | 2.0 | 56 |
| 1404 | Water-Soluble Carbon Nanotubes by Redox Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1553-1558. | 2.0 | 35 |
| 1405 | Photothermal antimicrobial nanotherapy and nanodiagnostics with self-assembling carbon nanotube clusters. <i>Lasers in Surgery and Medicine</i> , 2007, 39, 622-634. | 1.1 | 133 |
| 1406 | Changes in the vibrational modes of carbon nanotubes induced by electron-beam irradiation: resonance Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 188-199. | 1.2 | 37 |
| 1407 | Monitoring oxidation of multiwalled carbon nanotubes by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 728-736. | 1.2 | 537 |
| 1408 | Single-walled carbon nanotube fibers, films and balls. <i>Solid State Communications</i> , 2007, 141, 459-463. | 0.9 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1409 | Structure and electronic properties of armchair boron nitride nanotubes. Computational and Theoretical Chemistry, 2007, 817, 137-145. | 1.5 | 42 |
| 1410 | One-dimensional carbon and ZnO. Thin Solid Films, 2007, 515, 5123-5130. | 0.8 | 5 |
| 1411 | Surface characterization of oxygen-functionalized multi-walled carbon nanotubes by high-resolution X-ray photoelectron spectroscopy and temperature-programmed desorption. Applied Surface Science, 2007, 254, 247-250. | 3.1 | 185 |
| 1412 | The fabrication of hollow multilayered polyelectrolyte fibrous mats and its morphology study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 293, 272-277. | 2.3 | 26 |
| 1413 | Functionalization of carbon nanofibres by 1,3-dipolar cycloaddition reactions and its effect on composite properties. Composites Science and Technology, 2007, 67, 806-810. | 3.8 | 23 |
| 1414 | Different types of molecular interactions in carbon nanotube/conducting polymer composites – A close analysis. Composites Science and Technology, 2007, 67, 900-905. | 3.8 | 55 |
| 1415 | Vibrations of carbon nanotubes and their composites: A review. Composites Science and Technology, 2007, 67, 1-28. | 3.8 | 478 |
| 1416 | Effects of oxidative conditions on properties of multi-walled carbon nanotubes in polymer nanocomposites. Composites Science and Technology, 2007, 67, 1027-1034. | 3.8 | 60 |
| 1417 | Poly(N-vinyl carbazole) and carbon nanotubes based composites and their application to rechargeable lithium batteries. Composites Science and Technology, 2007, 67, 2556-2563. | 3.8 | 73 |
| 1418 | Rheological and mechanical properties of surface modified multi-walled carbon nanotube-filled PET composite. Composites Science and Technology, 2007, 67, 3434-3441. | 3.8 | 147 |
| 1419 | The effect of van der Waals-based interface cohesive law on carbon nanotube-reinforced composite materials. Composites Science and Technology, 2007, 67, 2941-2946. | 3.8 | 133 |
| 1420 | Electrically conductive yarns based on PVA/carbon nanotubes. Composite Structures, 2007, 78, 271-277. | 3.1 | 107 |
| 1421 | Shape memory effect and mechanical properties of carbon nanotube/shape memory polymer nanocomposites. Composite Structures, 2007, 81, 176-184. | 3.1 | 225 |
| 1422 | Stone-Wales defects with two different orientations in (5, 5) single-walled carbon nanotubes: A theoretical study. Chemical Physics Letters, 2007, 434, 86-91. | 1.2 | 80 |
| 1423 | Hydrogen storage in carbon nanoscrolls: An atomistic molecular dynamics study. Chemical Physics Letters, 2007, 441, 78-82. | 1.2 | 65 |
| 1424 | Covalent sidewall functionalization of single-walled carbon nanotubes via one-electron reduction of benzophenone by potassium. Chemical Physics Letters, 2007, 446, 142-144. | 1.2 | 27 |
| 1425 | Overoxidized polypyrrole film directed single-walled carbon nanotubes immobilization on glassy carbon electrode and its sensing applications. Biosensors and Bioelectronics, 2007, 22, 3120-3125. | 5.3 | 138 |
| 1426 | Controlling the dispersion of multi-wall carbon nanotubes in aqueous surfactant solution. Carbon, 2007, 45, 618-623. | 5.4 | 652 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1428 | Laser-induced electron pooling from carbon nano Æœtest tubeÆ dispersed in aqueous solution. Carbon, 2007, 45, 684-687. | 5.4 | 2 |
| 1429 | Alignment of amorphous carbon nanotubes with graphitized branches grown by radio frequency plasma-enhanced chemical vapor deposition. Carbon, 2007, 45, 681-684. | 5.4 | 6 |
| 1430 | Aqueous suspension of carbon nanotubes via non-covalent functionalization with oligothiophene-terminated poly(ethylene glycol). Carbon, 2007, 45, 1051-1057. | 5.4 | 111 |
| 1431 | Macroscopic growth of carbon nanotube mats and their mechanical properties. Carbon, 2007, 45, 1133-1136. | 5.4 | 30 |
| 1432 | Wear studies of hydroxyapatite composite coating reinforced by carbon nanotubes. Carbon, 2007, 45, 998-1004. | 5.4 | 77 |
| 1433 | Quantitative assessment of carbon nanotube dispersions by Raman spectroscopy. Carbon, 2007, 45, 907-912. | 5.4 | 62 |
| 1434 | Raman scattering from an individual tubular graphite cone. Carbon, 2007, 45, 1116-1119. | 5.4 | 10 |
| 1435 | Oxidative stabilization of polyacrylonitrile in the presence of functionalized carbon nanotubes. Carbon, 2007, 45, 1114-1116. | 5.4 | 18 |
| 1436 | The effect of catalyst calcination temperature on the diameter of carbon nanotubes synthesized by the decomposition of methane. Carbon, 2007, 45, 1535-1541. | 5.4 | 56 |
| 1437 | The influence of single-walled carbon nanotube structure on the electromagnetic interference shielding efficiency of its epoxy composites. Carbon, 2007, 45, 1614-1621. | 5.4 | 524 |
| 1438 | Effects of polarity and pH on the solubility of acid-treated carbon nanotubes in different media. Carbon, 2007, 45, 1880-1890. | 5.4 | 175 |
| 1439 | Preparation of titania/carbon nanotube composites using supercritical ethanol and their photocatalytic activity for phenol degradation under visible light irradiation. Carbon, 2007, 45, 1795-1801. | 5.4 | 341 |
| 1440 | Molecular mechanics modeling of carbon nanotube fracture. Carbon, 2007, 45, 1769-1776. | 5.4 | 96 |
| 1441 | A multi-step strategy for cutting and purification of single-walled carbon nanotubes. Carbon, 2007, 45, 1972-1978. | 5.4 | 51 |
| 1442 | Influence of single-walled carbon nanotube films on metabolic activity and adherence of human osteoblasts. Carbon, 2007, 45, 2266-2272. | 5.4 | 43 |
| 1443 | Effect of carbon deposits on the reactor wall during the growth of multi-walled carbon nanotube arrays. Carbon, 2007, 45, 2379-2387. | 5.4 | 26 |
| 1444 | Characterization of a manganese dioxide/carbon nanotube composite fabricated using an in situ coating method. Carbon, 2007, 45, 2365-2373. | 5.4 | 363 |
| 1445 | Ordered carbon nanotube thin films produced by the trapping of water-soluble single-wall carbon nanotubes at the air/water interface. Carbon, 2007, 45, 2448-2450. | 5.4 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1446 | Coating carbon nanotubes with metal oxides in a supercritical carbon dioxide ethanol solution. <i>Carbon</i> , 2007, 45, 2589-2596. | 5.4 | 65 |
| 1447 | Reinforcement of styrene-butadiene-styrene tri-block copolymer by multi-walled carbon nanotubes via melt mixing. <i>Carbon</i> , 2007, 45, 2621-2627. | 5.4 | 66 |
| 1448 | Selected area deposition of multiwalled carbon nanotubes from solution. <i>Carbon</i> , 2007, 45, 2732-2736. | 5.4 | 11 |
| 1449 | Nanotubes based composites rich in nitrogen for supercapacitor application. <i>Electrochemistry Communications</i> , 2007, 9, 1828-1832. | 2.3 | 239 |
| 1450 | Composite of Pt-Ru supported SnO ₂ nanowires grown on carbon paper for electrocatalytic oxidation of methanol. <i>Electrochemistry Communications</i> , 2007, 9, 2229-2234. | 2.3 | 70 |
| 1451 | Probing buried carbon nanotubes within polymer-nanotube composite matrices by atomic force microscopy. <i>European Polymer Journal</i> , 2007, 43, 4136-4142. | 2.6 | 20 |
| 1452 | Electrical detection of deoxyribonucleic acid hybridization based on carbon-nanotubes/nano zirconium dioxide/chitosan-modified electrodes. <i>Analytica Chimica Acta</i> , 2007, 584, 268-274. | 2.6 | 109 |
| 1453 | Determination of trace thiocyanate with nano-silver coated multi-walled carbon nanotubes modified glassy carbon electrode. <i>Analytica Chimica Acta</i> , 2007, 585, 331-336. | 2.6 | 61 |
| 1454 | A novel amperometric immunosensor based on layer-by-layer assembly of gold nanoparticles-multi-walled carbon nanotubes-thionine multilayer films on polyelectrolyte surface. <i>Analytica Chimica Acta</i> , 2007, 603, 205-213. | 2.6 | 124 |
| 1455 | Tribological behavior of plasma-sprayed carbon nanotube-reinforced hydroxyapatite coating in physiological solution. <i>Acta Biomaterialia</i> , 2007, 3, 944-951. | 4.1 | 183 |
| 1456 | The effect of reduction temperature on Co-Mo/Al ₂ O ₃ catalysts for carbon nanotubes formation. <i>Applied Catalysis A: General</i> , 2007, 326, 173-179. | 2.2 | 55 |
| 1457 | Atomic entanglement in carbon nanotubes. <i>Materials Science and Engineering C</i> , 2007, 27, 1117-1120. | 3.8 | 0 |
| 1458 | Analysis of wave propagation in carbon nanotubes via elastic shell theories. <i>International Journal of Engineering Science</i> , 2007, 45, 227-241. | 2.7 | 99 |
| 1459 | The mechanism of hydrogen storage in carbon materials. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2513-2517. | 3.8 | 38 |
| 1460 | Electrorheological properties of carbon nanotubes-coated monodisperse polymeric microspheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 298, 245-251. | 2.3 | 13 |
| 1461 | Thermodynamic study on aniline adsorption on chemical modified multi-walled carbon nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 308, 54-59. | 2.3 | 61 |
| 1462 | Application of thionine-nafion supported on multi-walled carbon nanotube for preparation of a modified electrode in simultaneous voltammetric detection of dopamine and ascorbic acid. <i>Electrochimica Acta</i> , 2007, 52, 6310-6317. | 2.6 | 104 |
| 1463 | Room-temperature ionic liquids/multi-walled carbon nanotubes/chitosan composite electrode for electrochemical analysis of NADH. <i>Electrochimica Acta</i> , 2007, 52, 6630-6637. | 2.6 | 97 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1464 | Effect of fiber length of carbon nanotubes on the absorption of erythropoietin from rat small intestine. <i>International Journal of Pharmaceutics</i> , 2007, 337, 357-360. | 2.6 | 25 |
| 1465 | Sorption properties of modified single-walled carbon nanotubes. <i>Microporous and Mesoporous Materials</i> , 2007, 99, 98-105. | 2.2 | 40 |
| 1466 | Fabrication and microstructure of Fe ₃ Al matrix composite reinforced by carbon nanotube. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 447, 146-149. | 2.6 | 31 |
| 1467 | Multifunctional carbon nanotube yarns and transparent sheets: Fabrication, properties, and applications. <i>Physica B: Condensed Matter</i> , 2007, 394, 339-343. | 1.3 | 116 |
| 1468 | Temperature dependence of electron properties of Sn doped nanobelts. <i>Physica B: Condensed Matter</i> , 2007, 400, 243-247. | 1.3 | 3 |
| 1469 | Synthesis of carbon nanostructures with different morphologies by CVD of methane. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 460-461, 255-260. | 2.6 | 30 |
| 1470 | Electrochemical properties of ultra-long, aligned, carbon nanotube array electrode in organic electrolyte. <i>Journal of Power Sources</i> , 2007, 172, 476-480. | 4.0 | 46 |
| 1471 | A highly coercive carbon nanotube coated with Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nanocrystals synthesized by chemical precipitation hydrothermal process. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3218-3223. | 1.4 | 39 |
| 1472 | Optical absorption by atomically doped carbon nanotubes under strong atom-field coupling. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 105-108. | 1.3 | 0 |
| 1473 | The parameter space for the direct spinning of fibres and films of carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 40-43. | 1.3 | 42 |
| 1474 | Development of a new radiation detector utilizing carbon nanotube as anode. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 40, 422-424. | 1.3 | 6 |
| 1475 | Torsional buckling of carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 367, 135-139. | 0.9 | 50 |
| 1476 | Structure and crystallization behavior of Nylon 66/multi-walled carbon nanotube nanocomposites at low carbon nanotube contents. <i>Polymer</i> , 2007, 48, 3452-3460. | 1.8 | 295 |
| 1477 | Intercalated structure of polypropylene/in situ polymerization-modified talc composites via melt compounding. <i>Polymer</i> , 2007, 48, 3555-3564. | 1.8 | 25 |
| 1478 | In situ grafting of carboxylic acid-terminated hyperbranched poly(ether-ketone) to the surface of carbon nanotubes. <i>Polymer</i> , 2007, 48, 4034-4040. | 1.8 | 54 |
| 1479 | Preparation of multi-walled carbon nanotubes grafted with synthetic poly(l-lysine) through surface-initiated ring-opening polymerization. <i>Polymer</i> , 2007, 48, 4352-4360. | 1.8 | 37 |
| 1480 | Welding method for fabricating carbon nanotube probe. <i>Journal of Materials Processing Technology</i> , 2007, 190, 397-401. | 3.1 | 8 |
| 1481 | Micromechanics and macromechanics of carbon nanotube-enhanced elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 1321-1339. | 2.3 | 46 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1482 | A novel âœœdual modeâ€•actuation in chitosan/polyaniline/carbon nanotube fibers. Sensors and Actuators B: Chemical, 2007, 121, 616-621. | 4.0 | 70 |
| 1483 | Novel selective sensors based on carbon nanotube films for hydrogen detection. Sensors and Actuators B: Chemical, 2007, 122, 75-80. | 4.0 | 99 |
| 1484 | Polymer artificial muscles. Materials Today, 2007, 10, 30-38. | 8.3 | 787 |
| 1485 | Carbon nanotubes for nanorobotics. Nano Today, 2007, 2, 12-21. | 6.2 | 94 |
| 1486 | Effect of tube length on the chemisorptions of one and two hydrogen atoms on the sidewalls of (3,3) and (4,4) single-walled carbon nanotubes: A theoretical study. International Journal of Quantum Chemistry, 2007, 107, 2211-2219. | 1.0 | 32 |
| 1487 | Cumulative Î€Î€ interaction triggers unusually high stabilization of linear hydrocarbons inside the single-walled carbon nanotube. International Journal of Quantum Chemistry, 2007, 107, 2204-2210. | 1.0 | 31 |
| 1488 | Ultralight Conductive Carbon-Nanotubeâ€•Polymer Composite. Small, 2007, 3, 408-411. | 5.2 | 155 |
| 1489 | Compression-Modulated Tunable-Pore Carbon-Nanotube Membrane Filters. Small, 2007, 3, 595-599. | 5.2 | 40 |
| 1490 | Desktop Growth of Carbon-Nanotube Monoliths with Inâ€•Situ Optical Imaging. Small, 2007, 3, 772-777. | 5.2 | 66 |
| 1491 | Controlled Growth and Characterization of Two-Dimensional Single-Walled Carbon-Nanotube Networks for Electrical Applications. Small, 2007, 3, 860-870. | 5.2 | 46 |
| 1492 | Environmentally Friendly Methodologies of Nanostructure Synthesis. Small, 2007, 3, 1122-1139. | 5.2 | 314 |
| 1493 | Selfâ€•Templated Growth of Carbonâ€•Nanotube Walls at High Temperatures. Small, 2007, 3, 1735-1739. | 5.2 | 22 |
| 1494 | Ionic Liquid of Ultralong Carbon Nanotubes. Small, 2007, 3, 1889-1893. | 5.2 | 54 |
| 1495 | Transparent conducting antimonyâ€•doped tin oxide films containing functionalized multiâ€•walled carbon nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3380-3386. | 0.8 | 9 |
| 1496 | Influence of the substrate loading on the quality and diameter distribution of SWCNT in alcoholâ€•CVD. Physica Status Solidi (B): Basic Research, 2007, 244, 3925-3929. | 0.7 | 11 |
| 1497 | Covalently functionalized carbon nanotubes as macroinitiators for radical polymerization. Physica Status Solidi (B): Basic Research, 2007, 244, 4046-4050. | 0.7 | 28 |
| 1498 | Preparation of poly(styrene-co-acrylonitrile)-grafted multiwalled carbon nanotubes via surface-initiated atom transfer radical polymerization. Journal of Polymer Science Part A, 2007, 45, 460-470. | 2.5 | 98 |
| 1499 | Quantum optics phenomena in atomically doped carbon nanotubes. Optics and Spectroscopy (English) Tj ETQq1 1,0,784314,rgBT/Ove | 0,2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 1500 | Temperature-mediated growth of single-walled carbon-nanotube intramolecular junctions. <i>Nature Materials</i> , 2007, 6, 283-286. | 13.3 | 238 |
| 1501 | Optically active single-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2007, 2, 361-365. | 15.6 | 234 |
| 1502 | Biotechnology and Nanotechnology: Science-based Enabling Technologies as Windows of Opportunity for LDCs?. <i>World Development</i> , 2007, 35, 426-438. | 2.6 | 94 |
| 1503 | LiNi _{0.8} Co _{0.2} O ₂ /MWCNT composite electrodes for supercapacitors. <i>Materials Chemistry and Physics</i> , 2007, 105, 169-174. | 2.0 | 25 |
| 1504 | Microwave-accelerated dissolution of MWNT in aniline. <i>Materials Letters</i> , 2007, 61, 16-18. | 1.3 | 15 |
| 1505 | Carbon nanobelts synthesized via chemical metathesis route. <i>Materials Letters</i> , 2007, 61, 1122-1124. | 1.3 | 11 |
| 1506 | Radiolytic synthesis of conducting polypyrrole/carbon nanotube composites. <i>Materials Letters</i> , 2007, 61, 1688-1692. | 1.3 | 77 |
| 1507 | One-step preparation of poly(vinyl alcohol)-protected Pt nanoparticles through a heat-treatment method. <i>Materials Letters</i> , 2007, 61, 2015-2017. | 1.3 | 30 |
| 1508 | Electrorheological properties of poly(acrylonitrile) microspheres coated with multiwall carbon nanotubes. <i>Materials Letters</i> , 2007, 61, 3995-3999. | 1.3 | 21 |
| 1509 | Graphitization of solid carbon nanofibers at an unexpectedly low temperature. <i>Materials Letters</i> , 2007, 61, 4272-4275. | 1.3 | 9 |
| 1510 | Thermal conductivity in multi-wall carbon nanotube/silica-based nanocomposites. <i>Scripta Materialia</i> , 2007, 56, 265-268. | 2.6 | 104 |
| 1511 | Single-wall carbon nanotubes at ceramic grain boundaries. <i>Scripta Materialia</i> , 2007, 56, 461-463. | 2.6 | 66 |
| 1512 | On the Impact of Process Variations for Carbon Nanotube Bundles for VLSI Interconnect. <i>IEEE Transactions on Electron Devices</i> , 2007, 54, 446-455. | 1.6 | 85 |
| 1513 | Nanocomposite based on polyamidoimide with hydrosilicate nanoparticles of varied morphology. <i>Russian Journal of Applied Chemistry</i> , 2007, 80, 2142-2148. | 0.1 | 15 |
| 1514 | Reactivity Differences between Carbon Nano Onions (CNOs) Prepared by Different Methods. <i>Chemistry - an Asian Journal</i> , 2007, 2, 625-633. | 1.7 | 128 |
| 1515 | Graphenes as Potential Material for Electronics. <i>Chemical Reviews</i> , 2007, 107, 718-747. | 23.0 | 2,480 |
| 1516 | EFFECT OF CARBON NANOTUBES ON DEVELOPING ZEBRAFISH (DANIO RERIO) EMBRYOS. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 708. | 2.2 | 349 |
| 1517 | Towards cost-efficient EMI shielding materials using carbon nanostructure-based nanocomposites. <i>Nanotechnology</i> , 2007, 18, 345701. | 1.3 | 156 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 1518 | In situ decoration of carbon nanotubes with nearly monodisperse magnetite nanoparticles in liquid polyols. <i>Journal of Materials Chemistry</i> , 2007, 17, 1188. | 6.7 | 180 |
| 1519 | Length-Dependent Optical Effects in Single-Wall Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2007, 129, 10607-10612. | 6.6 | 138 |
| 1520 | Carrier Density and Effective Mass Calculations for Carbon Nanotubes. , 2007, , . | | 5 |
| 1521 | Dielectric elastomers as next-generation polymeric actuators. <i>Soft Matter</i> , 2007, 3, 1116. | 1.2 | 360 |
| 1522 | Design of fluorescent materials for chemical sensing. <i>Chemical Society Reviews</i> , 2007, 36, 993. | 18.7 | 909 |
| 1524 | Preparation of Novel Polymer Hybrids from Imogolite Nanofiber. <i>Polymer Journal</i> , 2007, 39, 1-15. | 1.3 | 52 |
| 1525 | Controlled Hydrothermal Growth and Up-Conversion Emission of NaLnF ₄ (Ln = Y, Dy~Yb). <i>Inorganic Chemistry</i> , 2007, 46, 5404-5410. | 1.9 | 133 |
| 1526 | Dispersion and Percolation Transitions of Nanorods in Polymer Solutions. <i>Macromolecules</i> , 2007, 40, 344-354. | 2.2 | 58 |
| 1527 | Chirality Changes in Carbon Nanotubes Studied with Near-Field Raman Spectroscopy. <i>Nano Letters</i> , 2007, 7, 577-582. | 4.5 | 124 |
| 1528 | CVD growth of carbon nanotubes at very low pressure of acetylene. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 687-691. | 1.1 | 38 |
| 1529 | Rapid determination of triazophos using acetylcholinesterase biosensor based on sol~gel interface assembling multiwall carbon nanotubes. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 893-898. | 1.5 | 41 |
| 1530 | Interfacial stress transfer of fiber pullout for carbon nanotubes with a composite coating. <i>Journal of Materials Science</i> , 2007, 42, 4191-4196. | 1.7 | 16 |
| 1531 | Synthesis and Catalytic Studies of Uniform Os & Os~Pd Nanoparticles Supported on MWNTs. <i>Journal of Cluster Science</i> , 2007, 18, 51-65. | 1.7 | 17 |
| 1532 | Simplified gauge-cell method and its application to the study of capillary phase transition of propane in carbon nanotubes. <i>Adsorption</i> , 2007, 13, 21-32. | 1.4 | 19 |
| 1533 | Buckling-driven debonding of a carbon nanotube rope. <i>Acta Mechanica</i> , 2007, 192, 65-75. | 1.1 | 0 |
| 1534 | Experimental observation on the flow-induced assembly of Carbon nanotube suspensions to form helical bands. <i>Rheologica Acta</i> , 2007, 46, 979-987. | 1.1 | 66 |
| 1535 | Nanocrystalline nickel cobalt hydroxides/ultrastable Y zeolite composite for electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 571-576. | 1.2 | 71 |
| 1536 | Electrical applications for novel carbon nanotube morphologies: Does function follow shape?. <i>Jom</i> , 2007, 59, 33-38. | 0.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1537 | Carbon nanotube reinforced polymer compositesâ€”A state of the art. <i>Bulletin of Materials Science</i> , 2007, 30, 379-386. | 0.8 | 230 |
| 1538 | Cavity Quantum Electrodynamics, Nanophotonics, and Quantum Communication with Atomically Doped Carbon Nanotubes. <i>Journal of Electronic Materials</i> , 2007, 36, 1579-1586. | 1.0 | 10 |
| 1539 | Effects of boron-doping on the morphology and magnetic property of carbon nanotubes. <i>Frontiers of Materials Science in China</i> , 2007, 1, 379-382. | 0.5 | 4 |
| 1540 | Efficient photo-assisted Fenton oxidation treatment of multi-walled carbon nanotubes. <i>Science Bulletin</i> , 2007, 52, 2054-2062. | 1.7 | 23 |
| 1541 | Effect of interface on the thermal conductivity of carbon nanotube composites. <i>International Journal of Thermal Sciences</i> , 2007, 46, 842-847. | 2.6 | 76 |
| 1542 | Development of a carbon nanotube paste electrode osmium polymer-mediated biosensor for determination of glucose in alcoholic beverages. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2611-2617. | 5.3 | 117 |
| 1543 | High Aspect Ratio Nanometrology using Carbon Nanotube Probes in Atomic Force Microscopy. <i>CIRP Annals - Manufacturing Technology</i> , 2007, 56, 533-536. | 1.7 | 14 |
| 1544 | A study on the tensile response and fracture in carbon nanotube-based composites using molecular mechanics. <i>Composites Science and Technology</i> , 2007, 67, 530-540. | 3.8 | 126 |
| 1545 | Capacitance properties of single wall carbon nanotube/polypyrrole composite films. <i>Composites Science and Technology</i> , 2007, 67, 2981-2985. | 3.8 | 185 |
| 1546 | Raman Spectroscopy of nanomaterials: How spectra relate to disorder, particle size and mechanical properties. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2007, 53, 1-56. | 1.8 | 865 |
| 1547 | Bone scaffolds from electrospun fiber mats of poly(3-hydroxybutyrate), poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and their blend. <i>Polymer</i> , 2007, 48, 1419-1427. | 1.8 | 173 |
| 1548 | Direct conversion of highly aromatic phthalonitrile thermosetting resins into carbon nanotube containing solids. <i>Polymer</i> , 2007, 48, 7484-7489. | 1.8 | 53 |
| 1549 | Nano electromechanical sensors based on carbon nanotubes. <i>Sensors and Actuators A: Physical</i> , 2007, 136, 51-61. | 2.0 | 238 |
| 1550 | Fabrication of carbon nanotubes/poly(1,2-diaminobenzene) nanoporous composite via multipulse chronoamperometric electropolymerization process and its electrocatalytic property toward oxidation of NADH. <i>Sensors and Actuators B: Chemical</i> , 2007, 120, 595-602. | 4.0 | 48 |
| 1551 | Novel amperometric carbon monoxide sensor based on multi-wall carbon nanotubes grafted with polydiphenylamineâ€”Fabrication and performance. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 92-99. | 4.0 | 73 |
| 1552 | A highly selective chemical gas sensor based on functionalization of multi-walled carbon nanotubes with poly(ethylene glycol). <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 361-367. | 4.0 | 115 |
| 1553 | Nanotechnology and the environment: A European perspective. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 19-24. | 2.8 | 184 |
| 1554 | Electropolymerization and catalysis of well-dispersed polyaniline/carbon nanotube/gold composite. <i>Journal of Electroanalytical Chemistry</i> , 2007, 599, 121-126. | 1.9 | 79 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1555 | Recent advances in activity and durability enhancement of Pt/C catalytic cathode in PEMFC. <i>Journal of Power Sources</i> , 2007, 172, 133-144. | 4.0 | 458 |
| 1556 | Carbon nanotubes – Production and industrial applications. <i>Materials & Design</i> , 2007, 28, 1477-1489. | 5.1 | 441 |
| 1557 | Temperature dependency of electrical behaviors in single walled carbon nanotube/conducting polymer composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 138, 284-288. | 1.7 | 26 |
| 1558 | Preparation and electrochemical characterization of polyaniline/multi-walled carbon nanotubes composites for supercapacitor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 143, 7-13. | 1.7 | 199 |
| 1559 | A highly-sensitive l-lactate biosensor based on sol-gel film combined with multi-walled carbon nanotubes (MWCNTs) modified electrode. <i>Materials Science and Engineering C</i> , 2007, 27, 29-34. | 3.8 | 48 |
| 1560 | Structural characterization and frictional properties of carbon nanotube/alumina composites prepared by precursor method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 148, 265-269. | 1.7 | 70 |
| 1561 | A multiwalled carbon nanotube/dihydropyran composite film electrode for insulin detection in a microphysiometer chamber. <i>Analytica Chimica Acta</i> , 2008, 609, 44-52. | 2.6 | 57 |
| 1562 | An efficient route towards the covalent functionalization of single walled carbon nanotubes. <i>Applied Surface Science</i> , 2008, 254, 4936-4943. | 3.1 | 71 |
| 1563 | Effect of heat-pretreatment of the graphite rod on the quality of SWCNTs by arc discharge. <i>Applied Surface Science</i> , 2008, 254, 5247-5251. | 3.1 | 3 |
| 1564 | Hydrogen adsorption on carbon nanocone material studied by thermal desorption and photoemission. <i>Applied Surface Science</i> , 2008, 255, 1906-1910. | 3.1 | 24 |
| 1565 | Integration of single-walled carbon nanotubes into polymer films by thermo-compression. <i>Chemical Engineering Journal</i> , 2008, 136, 409-413. | 6.6 | 43 |
| 1566 | Coating of multiwalled carbon nanotubes with crosslinked silicon-containing polymer. <i>Composites Science and Technology</i> , 2008, 68, 321-328. | 3.8 | 17 |
| 1567 | Sensors and actuators based on carbon nanotubes and their composites: A review. <i>Composites Science and Technology</i> , 2008, 68, 1227-1249. | 3.8 | 845 |
| 1568 | Thermal properties of CNT-Alumina nanocomposites. <i>Composites Science and Technology</i> , 2008, 68, 2178-2183. | 3.8 | 156 |
| 1569 | Preparation and characterization of conductive carbon nanotube-polystyrene nanocomposites using latex technology. <i>Composites Science and Technology</i> , 2008, 68, 2254-2259. | 3.8 | 51 |
| 1570 | High performance fully plastic actuator based on ionic-liquid-based bucky gel. <i>Electrochimica Acta</i> , 2008, 53, 5555-5562. | 2.6 | 208 |
| 1571 | Polymer transcrystallinity induced by carbon nanotubes. <i>Polymer</i> , 2008, 49, 1356-1364. | 1.8 | 207 |
| 1572 | Polymer nanotechnology: Nanocomposites. <i>Polymer</i> , 2008, 49, 3187-3204. | 1.8 | 2,871 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1573 | Conductivity enhancement of carbon nanotube and nanofiber-based polymer nanocomposites by melt annealing. <i>Polymer</i> , 2008, 49, 4846-4851. | 1.8 | 152 |
| 1574 | Improvement of emission reliability of carbon nanotube emitters by electrical conditioning. <i>Thin Solid Films</i> , 2008, 516, 3618-3621. | 0.8 | 7 |
| 1575 | Surface modification of multi-wall carbon nanotube with ultraviolet-curable hyperbranched polymer. <i>Thin Solid Films</i> , 2008, 516, 4076-4082. | 0.8 | 18 |
| 1576 | Synthesis and Catalytic Performance of Highly Ordered Ru-Containing Mesoporous Carbons for Hydrogenation of Cinnamaldehyde. <i>Catalysis Letters</i> , 2008, 125, 289-295. | 1.4 | 47 |
| 1577 | New nanocomposites containing metal nanoparticles, carbon nanotube and polymer. <i>Journal of Nanoparticle Research</i> , 2008, 10, 1309-1318. | 0.8 | 85 |
| 1578 | Separation of nanocarbons by molecular recognition. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2008, 61, 195-216. | 1.6 | 27 |
| 1579 | Purification of catalytically produced carbon nanotubes for use as support for fuel cell cathode Pt catalyst. <i>Journal of Materials Science</i> , 2008, 43, 557-567. | 1.7 | 7 |
| 1580 | Two opposite growth modes of carbon nanofibers prepared by catalytic decomposition of acetylene at low temperature. <i>Journal of Materials Science</i> , 2008, 43, 883-886. | 1.7 | 6 |
| 1581 | Effects of activation time on the electrochemical capacitance of activated carbon nanotubes. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 241-245. | 1.1 | 1 |
| 1582 | Polythiophene-graft-PMMA as a dispersing agent for multi-walled carbon nanotubes in organic solvent. <i>Macromolecular Research</i> , 2008, 16, 749-752. | 1.0 | 14 |
| 1583 | Pulse gas alignment and AFM manipulation of single-wall carbon nanotube. <i>Science Bulletin</i> , 2008, 53, 3590-3596. | 4.3 | 3 |
| 1584 | Imaging electronic structure of carbon nanotubes by voltage-contrast scanning electron microscopy. <i>Nano Research</i> , 2008, 1, 321-332. | 5.8 | 29 |
| 1585 | Direct spinning of carbon nanotube fibres from liquid feedstock. <i>International Journal of Material Forming</i> , 2008, 1, 59-62. | 0.9 | 40 |
| 1586 | The Influences of H ₂ Plasma Pretreatment on the Growth of Vertically Aligned Carbon Nanotubes by Microwave Plasma Chemical Vapor Deposition. <i>Nanoscale Research Letters</i> , 2008, 3, . | 3.1 | 14 |
| 1587 | Femtosecond Dynamics in Single Wall Carbon Nanotube/Poly(3-Hexylthiophene) Composites. <i>Nanoscale Research Letters</i> , 2008, 3, . | 3.1 | 14 |
| 1588 | ZnO 1-D nanostructures: Low temperature synthesis and characterizations. <i>Bulletin of Materials Science</i> , 2008, 31, 551-559. | 0.8 | 18 |
| 1589 | Trace determination of clenbuterol with an MWCNT-Nafion nanocomposite modified electrode. <i>Mikrochimica Acta</i> , 2008, 161, 265-272. | 2.5 | 42 |
| 1590 | A simple method to fabricate a Prussian Blue nanoparticles/carbon nanotubes/poly(1,2-diaminobenzene) based glucose biosensor. <i>Mikrochimica Acta</i> , 2008, 160, 261-267. | 2.5 | 46 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1591 | Nano-silver/multi-walled carbon nanotube composite films for hydrogen peroxide electroanalysis. <i>Mikrochimica Acta</i> , 2008, 162, 51-56. | 2.5 | 33 |
| 1592 | Microwave-assisted preparation of a carbon nanotube/La(OH) ₃ nanocomposite, and its application to electrochemical determination of adenine and guanine. <i>Mikrochimica Acta</i> , 2008, 162, 175-180. | 2.5 | 27 |
| 1593 | Polypyrrole- <i>in situ</i> multi-walled carbon nanotube nanocomposites synthesized in oil-in-water microemulsion. <i>Colloid and Polymer Science</i> , 2008, 286, 587-591. | 1.0 | 38 |
| 1594 | Carbon nanotube-based neat fibers. <i>Nano Today</i> , 2008, 3, 24-34. | 6.2 | 255 |
| 1595 | From carbon nanotube coatings to high-performance polymer nanocomposites. <i>Polymer International</i> , 2008, 57, 547-553. | 1.6 | 73 |
| 1596 | Nanocomposites based on polyolefins and functional thermoplastic materials. <i>Polymer International</i> , 2008, 57, 805-836. | 1.6 | 124 |
| 1597 | Carbon Nanotubes as Liquid Crystals. <i>Small</i> , 2008, 4, 1270-1283. | 5.2 | 136 |
| 1598 | Functional Quantum-Dot/Dendrimer Nanotubes for Sensitive Detection of DNA Hybridization. <i>Small</i> , 2008, 4, 566-571. | 5.2 | 80 |
| 1599 | Magnificent Sea-Anemone-Like Magnetic Silica Capsules Reinforced with Carbon Nanotubes. <i>Small</i> , 2008, 4, 583-586. | 5.2 | 14 |
| 1600 | Polyaniline-Coated Fe ₃ O ₄ Nanoparticle-Carbon Nanotube Composite and its Application in Electrochemical Biosensing. <i>Small</i> , 2008, 4, 462-466. | 5.2 | 177 |
| 1601 | The Role of Interfacial Oxygen Atoms in the Enhanced Mechanical Properties of Carbon Nanotube-Reinforced Metal Matrix Nanocomposites. <i>Small</i> , 2008, 4, 1936-1940. | 5.2 | 177 |
| 1602 | Debundling, Isolation, and Identification of Carbon Nanotubes in Electrospun Nanofibers. <i>Small</i> , 2008, 4, 930-933. | 5.2 | 18 |
| 1603 | Multi-walled carbon nanotubes encapsulated with polyurethane and its nanocomposites. <i>Journal of Polymer Science Part A</i> , 2008, 46, 4857-4865. | 2.5 | 34 |
| 1604 | Nylon 610/functionalized multiwalled carbon nanotube composite prepared from <i>in situ</i> interfacial polymerization. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6041-6050. | 2.5 | 28 |
| 1605 | Polyelectrolyte-grafted carbon nanotubes: Synthesis, reversible phase-transition behavior, and tribological properties as lubricant additives. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7225-7237. | 2.5 | 63 |
| 1606 | Synthesis, characterization, and properties of monodispersed magnetite coated multi-walled carbon nanotube/polypyrrole nanocomposites synthesized by <i>in situ</i> chemical oxidative polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 727-733. | 2.4 | 21 |
| 1607 | Effect of interaction between poly(ethylene terephthalate) and carbon nanotubes on the morphology and properties of their nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 900-910. | 2.4 | 41 |
| 1608 | Enhancing dispersion of copper nanowires in melt-mixed polystyrene composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2064-2078. | 2.4 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1609 | Influence of multiwall carbon nanotubes on morphology and electrical conductivity of PP/ABS blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2286-2295. | 2.4 | 109 |
| 1610 | Synthesis and characterization of polyanilineâ€‘multiwalled carbon nanotube nanocomposites in the presence of sodium dodecyl sulfate. <i>Polymers for Advanced Technologies</i> , 2008, 19, 1754-1762. | 1.6 | 89 |
| 1611 | Electrical and mechanical properties of multiâ€‘walled carbon nanotubes reinforced PMMA and PS composites. <i>Polymer Composites</i> , 2008, 29, 717-727. | 2.3 | 182 |
| 1612 | PEDOTâ€‘PSS/singlewall carbon nanotubes composites. <i>Polymer Engineering and Science</i> , 2008, 48, 1-10. | 1.5 | 53 |
| 1613 | Mechanical, thermal, and fire behavior of bisphenol a polycarbonate/multiwall carbon nanotube nanocomposites. <i>Polymer Engineering and Science</i> , 2008, 48, 149-158. | 1.5 | 93 |
| 1614 | Tribological behaviors of aligned carbon nanotube/fullereneâ€‘epoxy nanocomposites. <i>Polymer Engineering and Science</i> , 2008, 48, 1467-1475. | 1.5 | 26 |
| 1615 | Carrier density and effective mass calculations in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2558-2562. | 0.7 | 61 |
| 1616 | Carbon diffusion in CVD growth of carbon nanotubes on metal nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2185-2188. | 0.7 | 15 |
| 1617 | Preparation and selected properties of a composite of the C ₆₀ â€‘Pd conducting polymer and singleâ€‘wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2292-2295. | 0.7 | 15 |
| 1618 | A Nonâ€‘Covalent Method to Functionalize Multiâ€‘Walled Carbon Nanotubes Using Sixâ€‘Armed Star Poly(L-lactide) with a Triphenylene Core. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 783-793. | 1.1 | 38 |
| 1619 | A Novel Route for Polystyrene Grafted Singleâ€‘Walled Carbon Nanotubes and their Characterization. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1137-1144. | 1.1 | 15 |
| 1620 | Electromagnetic Interference (EMI) Shielding Effectiveness of PP/PS Polymer Blends Containing High Structure Carbon Black. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 621-630. | 1.7 | 142 |
| 1621 | Use of Singleâ€‘Walled Carbon Nanotubes as Reinforcing Fillers in UVâ€‘Curable Epoxy Systems. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 708-713. | 1.7 | 20 |
| 1622 | Antistatic Epoxy Coatings With Carbon Nanotubes Obtained by Cationic Photopolymerization. <i>Macromolecular Rapid Communications</i> , 2008, 29, 396-400. | 2.0 | 77 |
| 1623 | Functionalization of Multiâ€‘Walled Carbon Nanotubes by Thermoâ€‘Grafting with Methylstyreneâ€‘Containing Copolymers. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1521-1526. | 2.0 | 15 |
| 1624 | Highly Conductive Coreâ€‘Shell Nanocomposite of Poly(vinylcarbazole)â€‘Polypyrrole with Multiwalled Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1582-1587. | 2.0 | 47 |
| 1625 | Anisotropic Electronic Conductivity in Layerâ€‘Byâ€‘Layer Composite Film Composed of Waterâ€‘Soluble Conjugated Polymers and SWNTs. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1877-1881. | 2.0 | 14 |
| 1626 | A Universal Model for Nanoporous Carbon Supercapacitors Applicable to Diverse Pore Regimes, Carbon Materials, and Electrolytes. <i>Chemistry - A European Journal</i> , 2008, 14, 6614-6626. | 1.7 | 545 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1627 | Pt@MOF-177: Synthesis, Room-Temperature Hydrogen Storage and Oxidation Catalysis. Chemistry - A European Journal, 2008, 14, 8204-8212. | 1.7 | 272 |
| 1628 | Carbon Nanotube-Alginate Composite Modified Electrode Fabricated by In Situ Gelation for Capillary Electrophoresis. Chemistry - A European Journal, 2008, 14, 9779-9785. | 1.7 | 33 |
| 1629 | Mechanism-Guided Improvements to the Single Molecule Oxidation of Carbon Nanotube Sidewalls. ChemPhysChem, 2008, 9, 1053-1056. | 1.0 | 17 |
| 1630 | Multiple-Charge Separation in Nanoscale Artificial Photosynthetic Models. ChemPhysChem, 2008, 9, 1514-1518. | 1.0 | 17 |
| 1631 | Morphology and photoluminescence properties of ZnO nanostructures fabricated with different given time of Ar. Crystal Research and Technology, 2008, 43, 1041-1045. | 0.6 | 23 |
| 1632 | Synthesis of Porous Carbon Fibers from Collagen Fiber. ChemSusChem, 2008, 1, 298-301. | 3.6 | 36 |
| 1633 | Investigation on Nanodiamond and Carbon Nanotube-Diamond Nanocomposite Synthesized using RF-PECVD. Chemical Vapor Deposition, 2008, 14, 236-240. | 1.4 | 6 |
| 1634 | Covalent Sidewall Functionalization of SWNTs by Nucleophilic Addition of Lithium Amides. European Journal of Organic Chemistry, 2008, 2008, 2544-2550. | 1.2 | 95 |
| 1635 | Electrochemical Characteristics of Mediated Laccase-Catalysis and Electrochemical Detection of Environmental Pollutants. Electroanalysis, 2008, 20, 827-832. | 1.5 | 9 |
| 1636 | Fabrication, Characterization, and Application of Sandwich-Type™ Electrode Based on Single-Walled Carbon Nanotubes and Room Temperature Ionic Liquid. Electroanalysis, 2008, 20, 1909-1916. | 1.5 | 6 |
| 1637 | Synthesis and Characterization of MWNTs/Au NPs/HS(CH ₂) ₆ Fc Nanocomposite: Application to Electrochemical Determination of Ascorbic Acid. Electroanalysis, 2008, 20, 1819-1824. | 1.5 | 15 |
| 1638 | Electrochemical Biosensing for Cancer Cells Based on TiO ₂ /CNT Nanocomposites Modified Electrodes. Electroanalysis, 2008, 20, 2526-2530. | 1.5 | 65 |
| 1639 | Polymer nanocomposites containing carbon nanotubes and miscible polymer blends based on poly[ethylene-co-(acrylic acid)]. Journal of Applied Polymer Science, 2008, 108, 1462-1472. | 1.3 | 10 |
| 1640 | Preparation and tribological properties of poly(methyl methacrylate)/styrene/MWNTs copolymer nanocomposites. Journal of Applied Polymer Science, 2008, 108, 1675-1679. | 1.3 | 22 |
| 1641 | Polyaniline-multiwalled carbon nanotube composites: Characterization by WAXS and TGA. Journal of Applied Polymer Science, 2008, 109, 200-210. | 1.3 | 27 |
| 1642 | Dispersion and noncovalent modification of multiwalled carbon nanotubes by various polystyrene-based polymers. Journal of Applied Polymer Science, 2008, 109, 3525-3532. | 1.3 | 28 |
| 1643 | Amino-functionalized multiple-walled carbon nanotubes-polyimide nanocomposite films fabricated by in situ polymerization. Journal of Applied Polymer Science, 2008, 110, 701-705. | 1.3 | 27 |
| 1644 | Silica supported single-walled carbon nanotubes as a modifier in polyethylene composites. Journal of Applied Polymer Science, 2009, 111, 589-601. | 1.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 1645 | Surfactant-free Synthesis of SnO ₂ @PMMA and TiO ₂ @PMMA Core-shell Nanobeads Designed for Peptide/Protein Enrichment and MALDI-TOF MS Analysis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4204-4207. | 7.2 | 51 |
| 1646 | Reversible Solubilization and Precipitation of Carbon Nanotubes through Oxidation-Reduction Reactions of a Solubilizing Agent. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4577-4580. | 7.2 | 46 |
| 1647 | Carbon Nanotube Triggered Self-Assembly of Oligo(<i>p</i> -phenylene vinylene)s to Stable Hybrid Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5746-5749. | 7.2 | 119 |
| 1648 | Reactive Spinning of Cyanate Ester Fibers Reinforced with Aligned Amino-Functionalized Single Wall Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2008, 18, 888-897. | 7.8 | 25 |
| 1649 | Directed Self-Assembly of Gradient Concentric Carbon Nanotube Rings. <i>Advanced Functional Materials</i> , 2008, 18, 2114-2122. | 7.8 | 77 |
| 1650 | High-Conductivity Polymer Nanocomposites Obtained by Tailoring the Characteristics of Carbon Nanotube Fillers. <i>Advanced Functional Materials</i> , 2008, 18, 3226-3234. | 7.8 | 217 |
| 1651 | Carbon Nanotube Network Structuring Using Two-Dimensional Colloidal Crystal Templates. <i>Advanced Materials</i> , 2008, 20, 457-461. | 11.1 | 51 |
| 1652 | Nanometer-scale Catalyst Patterning for Controlled Growth of Individual Single-walled Carbon Nanotubes. <i>Advanced Materials</i> , 2008, 20, 1344-1347. | 11.1 | 21 |
| 1653 | Turning PMMA Nanofibers into Graphene Nanoribbons by In Situ Electron Beam Irradiation. <i>Advanced Materials</i> , 2008, 20, 3284-3288. | 11.1 | 77 |
| 1654 | Optimizing Single-walled Carbon Nanotube Films for Applications in Electroluminescent Devices. <i>Advanced Materials</i> , 2008, 20, 4442-4449. | 11.1 | 92 |
| 1655 | Hydroentangling: A Novel Approach to High-speed Fabrication of Carbon Nanotube Membranes. <i>Advanced Materials</i> , 2008, 20, 4140-4144. | 11.1 | 10 |
| 1656 | Simply Modified Chiral Diphosphine: Catalyst Recycling <i>via</i> Non-covalent Adsorption on Carbon Nanotubes. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 1013-1016. | 2.1 | 55 |
| 1660 | Exciton-photon correlations in carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2365-2369. | 1.3 | 13 |
| 1661 | On the fabrication of resistor-shaped ZnO nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 859-865. | 1.3 | 5 |
| 1662 | Mixed SnO ₂ /TiO ₂ included with carbon nanotubes for gas-sensing application. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 41, 258-263. | 1.3 | 67 |
| 1663 | In situ preparation and continuous fiber spinning of poly(<i>p</i> -phenylene benzobisoxazole) composites with oligo-hydroxyamide-functionalized multi-walled carbon nanotubes. <i>Polymer</i> , 2008, 49, 2520-2530. | 1.8 | 85 |
| 1664 | On the influence of the processing conditions on the performance of electrically conductive carbon nanotube/polymer nanocomposites. <i>Polymer</i> , 2008, 49, 2866-2872. | 1.8 | 94 |
| 1665 | Preparation and properties of biodegradable PBS/multi-walled carbon nanotube nanocomposites. <i>Polymer</i> , 2008, 49, 4602-4611. | 1.8 | 123 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 1666 | Processing and nanodispersion: A quantitative approach for polylactide nanocomposite. <i>Polymer Testing</i> , 2008, 27, 2-10. | 2.3 | 50 |
| 1667 | The mass production of carbon nanotubes using a nano-agglomerate fluidized bed reactor: A multiscale space-time analysis. <i>Powder Technology</i> , 2008, 183, 10-20. | 2.1 | 146 |
| 1668 | Fabrication of CNTs/Cu composite thin films for interconnects application. <i>Microelectronic Engineering</i> , 2008, 85, 1984-1987. | 1.1 | 33 |
| 1669 | Multiscale modeling with carbon nanotubes. <i>Microelectronics Journal</i> , 2008, 39, 208-221. | 1.1 | 35 |
| 1670 | High loading and monodispersed Pt nanoparticles on multiwalled carbon nanotubes for high performance proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2008, 177, 314-322. | 4.0 | 158 |
| 1671 | A polyoxometalate-deposited Pt/CNT electrocatalyst via chemical synthesis for methanol electrooxidation. <i>Journal of Power Sources</i> , 2008, 179, 81-86. | 4.0 | 81 |
| 1672 | Polyoxometalate-stabilized Pt-Ru catalysts on multiwalled carbon nanotubes: Influence of preparation conditions on the performance of direct methanol fuel cells. <i>Journal of Power Sources</i> , 2008, 184, 361-369. | 4.0 | 48 |
| 1673 | Nanowire-based three-dimensional hierarchical core/shell heterostructured electrodes for high performance proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2008, 185, 1079-1085. | 4.0 | 35 |
| 1674 | Polymer-assisted fabrication of nanoparticles and nanocomposites. <i>Progress in Polymer Science</i> , 2008, 33, 40-112. | 11.8 | 486 |
| 1675 | Polymers for flexible displays: From material selection to device applications. <i>Progress in Polymer Science</i> , 2008, 33, 581-630. | 11.8 | 848 |
| 1676 | Radiation-induced grafting of multi-walled carbon nanotubes in glycidyl methacrylate-maleic acid binary aqueous solution. <i>Radiation Physics and Chemistry</i> , 2008, 77, 656-662. | 1.4 | 20 |
| 1677 | Disposable electrodes modified with multi-wall carbon nanotubes for biosensor applications. <i>Irbm</i> , 2008, 29, 202-207. | 3.7 | 26 |
| 1678 | Electrocatalytical properties of bergenin on a multi-wall carbon nanotubes modified carbon paste electrode and its determination in tablets. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 500-506. | 4.0 | 35 |
| 1679 | Nonlocal shell model for elastic wave propagation in single- and double-walled carbon nanotubes. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 3475-3485. | 2.3 | 369 |
| 1680 | Electrophoretic deposition: From traditional ceramics to nanotechnology. <i>Journal of the European Ceramic Society</i> , 2008, 28, 1353-1367. | 2.8 | 617 |
| 1681 | Co-production of hydrogen and multi-wall carbon nanotubes from ethanol decomposition over Fe/Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 433-439. | 10.8 | 61 |
| 1682 | Modified π -states in ion-irradiated carbon. <i>Applied Surface Science</i> , 2008, 254, 2790-2796. | 3.1 | 6 |
| 1683 | Development of electrochemical oxidase biosensors based on carbon nanotube-modified carbon film electrodes for glucose and ethanol. <i>Electrochimica Acta</i> , 2008, 53, 6732-6739. | 2.6 | 84 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1684 | Polyoxometallate-stabilized platinum catalysts on multi-walled carbon nanotubes for fuel cell applications. <i>Electrochimica Acta</i> , 2008, 53, 6410-6416. | 2.6 | 33 |
| 1685 | Processing and modeling of conductive thermoplastic/carbon nanotube films for strain sensing. <i>Composites Part B: Engineering</i> , 2008, 39, 209-216. | 5.9 | 296 |
| 1686 | Carbon nanotube composite: Dispersion routes and field emission parameters. <i>Composites Science and Technology</i> , 2008, 68, 753-759. | 3.8 | 40 |
| 1687 | Biocomposite of double-walled carbon nanotube-doped alginate gel for biomaterial immobilization. <i>Composites Science and Technology</i> , 2008, 68, 1297-1303. | 3.8 | 12 |
| 1688 | A comparative study on electrochemistry of laccase at two kinds of carbon nanotubes and its application for biofuel cell. <i>Chemical Physics Letters</i> , 2008, 457, 381-385. | 1.2 | 68 |
| 1689 | Efficient anchorage of Pt clusters on N-doped carbon nanotubes and their catalytic activity. <i>Chemical Physics Letters</i> , 2008, 463, 124-129. | 1.2 | 91 |
| 1690 | Linear and nonlinear spectroscopic studies of phthalocyanine-carbon nanotube blends. <i>Chemical Physics Letters</i> , 2008, 465, 265-271. | 1.2 | 39 |
| 1691 | An electrochemical sensor for detection of laccase activities from <i>Penicillium simplicissimum</i> in compost based on carbon nanotubes modified glassy carbon electrode. <i>Bioresource Technology</i> , 2008, 99, 8748-8751. | 4.8 | 26 |
| 1692 | Amperometric glucose biosensor based on layer-by-layer covalent attachment of AMWNTs and IO4 ⁻ -oxidized GOx. <i>Biosensors and Bioelectronics</i> , 2008, 24, 22-28. | 5.3 | 43 |
| 1693 | Photoelectrochemical signal chain based on quantum dots on gold ⁺ Sensitive to superoxide radicals in solution. <i>Biosensors and Bioelectronics</i> , 2008, 24, 260-265. | 5.3 | 55 |
| 1694 | Highly sensitive biosensor based on bionanomultilayer with water-soluble multiwall carbon nanotubes for determination of phenolics. <i>Biosensors and Bioelectronics</i> , 2008, 24, 306-312. | 5.3 | 34 |
| 1695 | On the factors controlling the mechanical properties of nanotube films. <i>Carbon</i> , 2008, 46, 41-47. | 5.4 | 49 |
| 1696 | Tuning nitrogen functionalities in catalytically grown nitrogen-containing carbon nanotubes. <i>Carbon</i> , 2008, 46, 138-148. | 5.4 | 199 |
| 1697 | Purification of single-walled carbon nanotubes using a fixed bed reactor packed with zirconia beads. <i>Carbon</i> , 2008, 46, 245-254. | 5.4 | 16 |
| 1698 | Modeling of the mechanical instability of carbon nanotubes. <i>Carbon</i> , 2008, 46, 285-290. | 5.4 | 39 |
| 1699 | Removal of entrapped iron compounds from isothermally treated catalytic chemical vapor deposition derived multi-walled carbon nanotubes. <i>Carbon</i> , 2008, 46, 391-396. | 5.4 | 18 |
| 1700 | Amorphous carbon-matrix composites with interconnected carbon nano-ribbon networks for electromagnetic interference shielding. <i>Carbon</i> , 2008, 46, 461-465. | 5.4 | 61 |
| 1701 | Oxidation of single-walled carbon nanotubes in dilute aqueous solutions by ozone as affected by ultrasound. <i>Carbon</i> , 2008, 46, 466-475. | 5.4 | 150 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1702 | High-purity synthesis of scrolled mats of multi-walled carbon nanotubes using temperature modulation. Carbon, 2008, 46, 567-576. | 5.4 | 17 |
| 1703 | Mechanical and electrical properties of cross-linked carbon nanotubes. Carbon, 2008, 46, 482-488. | 5.4 | 82 |
| 1704 | Field emission from ordered carbon nanotube-ZnO heterojunction arrays. Carbon, 2008, 46, 753-758. | 5.4 | 97 |
| 1705 | Noncatalytic synthesis of carbon nanotubes, graphene and graphite on SiC. Carbon, 2008, 46, 841-849. | 5.4 | 123 |
| 1706 | Growth dynamics of vertically aligned single-walled carbon nanotubes from in situ measurements. Carbon, 2008, 46, 923-930. | 5.4 | 116 |
| 1707 | Particle exposure levels during CVD growth and subsequent handling of vertically-aligned carbon nanotube films. Carbon, 2008, 46, 974-977. | 5.4 | 93 |
| 1708 | Characterization of single-walled carbon nanotube mats and their performance as electromechanical actuators. Carbon, 2008, 46, 1085-1090. | 5.4 | 41 |
| 1709 | Enhanced conductivity in polybenzoxazoles doped with carboxylated multi-walled carbon nanotubes. Carbon, 2008, 46, 1232-1240. | 5.4 | 68 |
| 1710 | Enhanced ablation of small anodes in a carbon nanotube arc plasma. Carbon, 2008, 46, 1322-1326. | 5.4 | 46 |
| 1711 | An easy single step route to synthesize open [~] ended carbon nanotubes. Carbon, 2008, 46, 1615-1619. | 5.4 | 4 |
| 1712 | Structural changes of carbon nanotubes in their macroscopic films and fibers by electric sparking processing. Carbon, 2008, 46, 1751-1756. | 5.4 | 7 |
| 1713 | Efficient microwave energy absorption by carbon nanotubes. Carbon, 2008, 46, 1935-1941. | 5.4 | 112 |
| 1714 | Optimization of water assisted chemical vapor deposition parameters for super growth of carbon nanotubes. Carbon, 2008, 46, 1987-1993. | 5.4 | 99 |
| 1715 | Electrochemical behaviors of amino acids at multiwall carbon nanotubes and Cu ₂ O modified carbon paste electrode. Analytical Biochemistry, 2008, 381, 199-204. | 1.1 | 48 |
| 1716 | Immobilization of trypsin in polyaniline-coated nano-Fe ₃ O ₄ /carbon nanotube composite for protein digestion. Analytica Chimica Acta, 2008, 612, 182-189. | 2.6 | 81 |
| 1717 | Tunneling effect in a polymer/carbon nanotube nanocomposite strain sensor. Acta Materialia, 2008, 56, 2929-2936. | 3.8 | 822 |
| 1718 | Preparation of poly 2-hydroxyethyl methacrylate functionalized carbon nanotubes as novel biomaterial nanocomposites. European Polymer Journal, 2008, 44, 579-586. | 2.6 | 68 |
| 1719 | Nanostructured carbon black filled polypropylene/polystyrene blends containing styrene- [~] butadiene- [~] styrene copolymer: Influence of morphology on electrical resistivity. European Polymer Journal, 2008, 44, 1931-1939. | 2.6 | 63 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1720 | Atomistic-mesoscale interfacial resistance based thermal analysis of carbon nanotube systems. <i>International Journal of Thermal Sciences</i> , 2008, 47, 1602-1609. | 2.6 | 28 |
| 1721 | Determination of zearalenone and its metabolites in urine samples by liquid chromatography with electrochemical detection using a carbon nanotube-modified electrode. <i>Journal of Chromatography A</i> , 2008, 1212, 54-60. | 1.8 | 48 |
| 1722 | The effect of different kinds of nano-carbon conductive additives in lithium ion batteries on the resistance and electrochemical behavior of the LiCoO ₂ composite cathodes. <i>Solid State Ionics</i> , 2008, 179, 263-268. | 1.3 | 119 |
| 1723 | Fabrication of patterned single-walled carbon nanotube films using electrophoretic deposition. <i>Ultramicroscopy</i> , 2008, 108, 1005-1008. | 0.8 | 7 |
| 1724 | Characteristics of Co-filled carbon nanotubes. <i>Applied Surface Science</i> , 2008, 254, 1890-1894. | 3.1 | 5 |
| 1725 | Field electron emission from HfN _x O _y thin films deposited by direct current sputtering. <i>Applied Surface Science</i> , 2008, 254, 3074-3077. | 3.1 | 3 |
| 1726 | Reinforcement of hydrogenated carboxylated nitrile-butadiene rubber by multi-walled carbon nanotubes. <i>Applied Surface Science</i> , 2008, 255, 2162-2166. | 3.1 | 68 |
| 1727 | High-field electron emission of carbon nanotubes grown on carbon fibers. <i>Physica B: Condensed Matter</i> , 2008, 403, 2662-2665. | 1.3 | 12 |
| 1728 | Structure dependent interaction between organic dyes and carbon nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 9-12. | 2.3 | 73 |
| 1729 | Properties of nanocomposites based on sulfonated poly(styrene-b-ethylenebutylene-b-styrene) and multiwalled carbon nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 239-241. | 2.3 | 5 |
| 1730 | The adsorption of resorcinol from water using multi-walled carbon nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 312, 160-165. | 2.3 | 154 |
| 1731 | Colloid-imprinted carbon with superb nanostructure as an efficient cathode electrocatalyst support in proton exchange membrane fuel cell. <i>Electrochemistry Communications</i> , 2008, 10, 659-662. | 2.3 | 66 |
| 1732 | Self-assembly of carbon nanotubes and alumina-coated silica nanoparticles on a glassy carbon electrode for electroanalysis. <i>Electrochemistry Communications</i> , 2008, 10, 749-752. | 2.3 | 18 |
| 1733 | Physical vapor deposited zinc oxide nanoparticles for direct electron transfer of superoxide dismutase. <i>Electrochemistry Communications</i> , 2008, 10, 818-820. | 2.3 | 28 |
| 1734 | Nanostructured carbon electrodes for laccase-catalyzed oxygen reduction without added mediators. <i>Electrochimica Acta</i> , 2008, 53, 3983-3990. | 2.6 | 52 |
| 1735 | Voltammetric quantum charging capacitance behaviour of functionalised carbon nanotubes in solution. <i>Electrochimica Acta</i> , 2008, 53, 4059-4064. | 2.6 | 14 |
| 1736 | Electrocatalytic activity of 2,3,5,6-tetrachloro-1,4-benzoquinone/multi-walled carbon nanotubes immobilized on edge plane pyrolytic graphite electrode for NADH oxidation. <i>Electrochimica Acta</i> , 2008, 53, 4706-4714. | 2.6 | 26 |
| 1737 | Direct electrochemistry and electrocatalysis of cytochrome c based on chitosan room temperature ionic liquid-carbon nanotubes composite. <i>Electrochimica Acta</i> , 2008, 54, 749-754. | 2.6 | 53 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 1738 | The electromagnetic characteristics and absorbing properties of multi-walled carbon nanotubes filled with Er ₂ O ₃ nanoparticles as microwave absorbers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 153, 78-82. | 1.7 | 76 |
| 1739 | Site-specific forest-assembly of single-wall carbon nanotubes on electron-beam patterned SiO _x /Si substrates. <i>Materials Science and Engineering C</i> , 2008, 28, 1366-1371. | 3.8 | 5 |
| 1740 | Swift heavy ion induced modifications of fullerene C ₇₀ thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 3257-3262. | 0.6 | 37 |
| 1741 | Shortening of multi-walled carbon nanotubes by ¹³⁷ I-irradiation in the presence of hydrogen peroxide. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 3491-3494. | 0.6 | 16 |
| 1742 | A perspective on combining molecular nanomagnets and carbon nanotube electronics. <i>Inorganica Chimica Acta</i> , 2008, 361, 3807-3819. | 1.2 | 32 |
| 1743 | Carbon nanomaterials synthesized using liquid petroleum gas: Analysis toward applications in hydrogen storage and production. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3102-3106. | 3.8 | 24 |
| 1744 | Synthesis of carbon nanostructured materials using LPG. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 593-600. | 2.2 | 21 |
| 1745 | Application of a hybrid quantum mechanics and empirical molecular dynamics multiscale method to carbon nanotubes. <i>European Physical Journal B</i> , 2008, 65, 515-523. | 0.6 | 3 |
| 1746 | Decorating Graphene Sheets with Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5263-5266. | 1.5 | 864 |
| 1747 | Hydrogen spillover in the context of hydrogen storage using solid-state materials. <i>Energy and Environmental Science</i> , 2008, 1, 338. | 15.6 | 133 |
| 1748 | CNT-based organic-inorganic composite materials with optoelectronic functionality. <i>Research on Chemical Intermediates</i> , 2008, 34, 115-125. | 1.3 | 5 |
| 1749 | Phenolic Resin-MWNT Nanocomposites Prepared through an in situ Polymerization Method. <i>Polymer Journal</i> , 2008, 40, 1067-1073. | 1.3 | 32 |
| 1751 | Chapter 3 The electronic properties of carbon nanotubes. <i>Contemporary Concepts of Condensed Matter Science</i> , 2008, 3, 49-81. | 0.5 | 8 |
| 1752 | Template-Directed Synthesis of Oxide Nanotubes: Fabrication, Characterization, and Applications. <i>Chemistry of Materials</i> , 2008, 20, 756-767. | 3.2 | 289 |
| 1753 | Effect of Confinement in Carbon Nanotubes on the Activity of Fischer-Tropsch Iron Catalyst. <i>Journal of the American Chemical Society</i> , 2008, 130, 9414-9419. | 6.6 | 709 |
| 1754 | Doping and de-doping of carbon nanotube transparent conducting films by dispersant and chemical treatment. <i>Journal of Materials Chemistry</i> , 2008, 18, 1261. | 6.7 | 132 |
| 1755 | Recent progress in carbon nanotube-based gas sensors. <i>Nanotechnology</i> , 2008, 19, 332001. | 1.3 | 559 |
| 1756 | Quantum Dot Solar Cells. Semiconductor Nanocrystals as Light Harvesters. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18737-18753. | 1.5 | 2,322 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 1757 | In Vivo Detection of Superoxide Anion in Bean Sprout Based on ZnO Nanodisks with Facilitated Activity for Direct Electron Transfer of Superoxide Dismutase. <i>Analytical Chemistry</i> , 2008, 80, 5839-5846. | 3.2 | 108 |
| 1758 | Thermal Conductivity of Plasma-Sprayed Aluminum Oxide-Multiwalled Carbon Nanotube Composites. <i>Journal of the American Ceramic Society</i> , 2008, 91, 942-947. | 1.9 | 50 |
| 1759 | Fabrication of Nanocomposite Powders of Carbon Nanotubes and Montmorillonite. <i>Journal of the American Ceramic Society</i> , 2008, 91, 975-978. | 1.9 | 2 |
| 1760 | Preparation and Catalytic Activity of Carbon Nanotube-Supported Metalloporphyrin Electrocatalyst. <i>Chinese Journal of Catalysis</i> , 2008, 29, 519-523. | 6.9 | 13 |
| 1761 | Protein microarrays with carbon nanotubes as multicolor Raman labels. <i>Nature Biotechnology</i> , 2008, 26, 1285-1292. | 9.4 | 317 |
| 1762 | Processable aqueous dispersions of graphene nanosheets. <i>Nature Nanotechnology</i> , 2008, 3, 101-105. | 15.6 | 8,393 |
| 1763 | Energy Requirements of Carbon Nanoparticle Production. <i>Journal of Industrial Ecology</i> , 2008, 12, 360-375. | 2.8 | 114 |
| 1764 | Growth of filamentous carbon by decomposition of ethanol on nickel foam: Influence of synthesis conditions and catalytic nanoparticles on growth yield and mechanism. <i>Journal of Catalysis</i> , 2008, 260, 217-226. | 3.1 | 49 |
| 1765 | Multi-walled carbon nanotube-reinforced magnesium alloy composites. <i>Scripta Materialia</i> , 2008, 58, 267-270. | 2.6 | 199 |
| 1766 | Deformation and damage mechanisms of multiwalled carbon nanotubes under high-velocity impact. <i>Scripta Materialia</i> , 2008, 59, 499-502. | 2.6 | 38 |
| 1767 | In situ growth of carbon nanotubes on inorganic fibers with different surface properties. <i>Materials Chemistry and Physics</i> , 2008, 107, 317-321. | 2.0 | 30 |
| 1768 | The changes of morphology, structure and optical properties from carbon nanotubes treated by hydrogen plasma. <i>Materials Chemistry and Physics</i> , 2008, 108, 82-87. | 2.0 | 13 |
| 1769 | The synthesis, characterization of oxidized multi-walled carbon nanotubes, and application to surface acoustic wave quartz crystal gas sensor. <i>Materials Chemistry and Physics</i> , 2008, 109, 148-155. | 2.0 | 48 |
| 1770 | Preparation and characterization of low- and high-adherent transparent multi-walled carbon nanotube thin films. <i>Materials Chemistry and Physics</i> , 2008, 111, 317-321. | 2.0 | 21 |
| 1771 | Polyaniline nanofibers as the electrode material for supercapacitors. <i>Materials Chemistry and Physics</i> , 2008, 112, 127-131. | 2.0 | 159 |
| 1772 | Enhanced field emission from density-controlled SiC nanowires. <i>Materials Chemistry and Physics</i> , 2008, 112, 88-93. | 2.0 | 68 |
| 1773 | The effect of reaction temperature on the diameter distribution of carbon nanotubes grown from ethylene decomposition over a Co-La-O catalyst. <i>Materials Chemistry and Physics</i> , 2008, 112, 407-411. | 2.0 | 30 |
| 1774 | Synthesis of conducting polythiophene composites with multi-walled carbon nanotube by the β -radiolysis polymerization method. <i>Materials Chemistry and Physics</i> , 2008, 112, 779-782. | 2.0 | 45 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1775 | Recent advances in carbon nanotube-based electronics. <i>Materials Research Bulletin</i> , 2008, 43, 2517-2526. | 2.7 | 82 |
| 1776 | Morphology control and transition of ZnO nanorod arrays by a simple hydrothermal method. <i>Materials Letters</i> , 2008, 62, 1503-1506. | 1.3 | 64 |
| 1777 | Preparation and gas-sensing property of ZnO nanorod-bundle thin films. <i>Materials Letters</i> , 2008, 62, 2307-2310. | 1.3 | 27 |
| 1778 | Hollow fibers of yttria-stabilized zirconia (8YSZ) prepared by calcination of electrospun composite fibers. <i>Materials Letters</i> , 2008, 62, 2396-2399. | 1.3 | 30 |
| 1779 | Vacuum brazing of carbon nanotube bundles. <i>Materials Letters</i> , 2008, 62, 4486-4488. | 1.3 | 28 |
| 1780 | Scale effect on wave propagation of double-walled carbon nanotubes with initial axial loading. <i>Nanotechnology</i> , 2008, 19, 185703. | 1.3 | 93 |
| 1781 | Super-Robust, Lightweight, Conducting Carbon Nanotube Blocks Cross-Linked by De-fluorination. <i>ACS Nano</i> , 2008, 2, 348-356. | 7.3 | 46 |
| 1782 | Transport properties of an armchair carbon nanotube with a double vacancy under stretching. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 345225. | 0.7 | 2 |
| 1783 | Vertical Alignment of Single-Walled Carbon Nanotube Films Formed by Electrophoretic Deposition. <i>Langmuir</i> , 2008, 24, 12936-12942. | 1.6 | 27 |
| 1784 | Synthesis of aluminum oxy-hydroxide nanofibers from porous anodic alumina. <i>Nanotechnology</i> , 2008, 19, 395603. | 1.3 | 28 |
| 1785 | Simulation of the Adsorption of Nucleotide Monophosphates on Carbon Nanotubes in Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6271-6278. | 1.5 | 27 |
| 1786 | Preparative Ultracentrifuge Method for Characterization of Carbon Nanotube Dispersions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19193-19202. | 1.5 | 48 |
| 1787 | Modeling of the carbon nanotube chemical vapor deposition process using methane and acetylene precursor gases. <i>Nanotechnology</i> , 2008, 19, 165607. | 1.3 | 18 |
| 1788 | Micro/Nanorobots. , 2008, , 411-450. | | 13 |
| 1789 | Growth of Manganese Oxide Nanoflowers on Vertically-Aligned Carbon Nanotube Arrays for High-Rate Electrochemical Capacitive Energy Storage. <i>Nano Letters</i> , 2008, 8, 2664-2668. | 4.5 | 610 |
| 1790 | First-Principles Study of a Carbon Nanobud. <i>ACS Nano</i> , 2008, 2, 1459-1465. | 7.3 | 59 |
| 1791 | Effect of Metal Elements in Catalytic Growth of Carbon Nanotubes. <i>Physical Review Letters</i> , 2008, 100, 156102. | 2.9 | 189 |
| 1792 | Hydrothermal treatment to prepare hydroxyl group modified multi-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2008, 18, 350-354. | 6.7 | 85 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1793 | Nanotribology of carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 365214. | 0.7 | 16 |
| 1794 | Dielectric response of multiwalled carbon nanotubes as a function of applied ac-electric fields. <i>Journal of Applied Physics</i> , 2008, 104, . | 1.1 | 24 |
| 1795 | Continuous Carbon Nanotube Reinforced Composites. <i>Nano Letters</i> , 2008, 8, 2762-2766. | 4.5 | 289 |
| 1796 | Separation of Single-Walled Carbon Nanotubes by Use of Ionic Liquid-Aided Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2008, 80, 2672-2679. | 3.2 | 50 |
| 1797 | Self-Sorted, Aligned Nanotube Networks for Thin-Film Transistors. <i>Science</i> , 2008, 321, 101-104. | 6.0 | 571 |
| 1798 | Mechanical and electrical properties of polycarbonate nanotube buckypaper composite sheets. <i>Nanotechnology</i> , 2008, 19, 325705. | 1.3 | 113 |
| 1799 | Biomedical Applications of Functionalised Carbon Nanotubes. <i>Carbon Materials</i> , 2008, , 23-50. | 0.2 | 23 |
| 1800 | Microwave-promoted hydrogenation and alkynylation reactions with palladium-loaded multi-walled carbon nanotubes. <i>New Journal of Chemistry</i> , 2008, 32, 920. | 1.4 | 26 |
| 1801 | Diameter-Selective Growth of Single-Walled Carbon Nanotubes with High Quality by Floating Catalyst Method. <i>ACS Nano</i> , 2008, 2, 1722-1728. | 7.3 | 88 |
| 1802 | Multipurpose Organically Modified Carbon Nanotubes: From Functionalization to Nanotube Composites. <i>Journal of the American Chemical Society</i> , 2008, 130, 8733-8740. | 6.6 | 209 |
| 1803 | Suspension assisted synthesis of triblock copolymer-templated ordered mesoporous carbon spheres with controlled particle size. <i>Chemical Communications</i> , 2008, , 2647. | 2.2 | 39 |
| 1804 | Structural Details of Cellulose Nanocrystals/Polyelectrolytes Multilayers Probed by Neutron Reflectivity and AFM. <i>Langmuir</i> , 2008, 24, 3452-3458. | 1.6 | 93 |
| 1805 | Colloidal Stability of Bare and Polymer-Grafted Silica Nanoparticles in Ionic Liquids. <i>Langmuir</i> , 2008, 24, 5253-5259. | 1.6 | 167 |
| 1806 | In Situ Cationic Ring-Opening Polymerization and Quaternization Reactions To Confine Ferricyanide onto Carbon Nanotubes: A General Approach to Development of Integrative Nanostructured Electrochemical Biosensors. <i>Analytical Chemistry</i> , 2008, 80, 6587-6593. | 3.2 | 33 |
| 1807 | Strain-dependent twist stretch elasticity in chiral filaments. <i>Journal of the Royal Society Interface</i> , 2008, 5, 303-310. | 1.5 | 24 |
| 1808 | Site-specific gene transfer with high efficiency onto a carbon nanotube-loaded electrode. <i>Journal of the Royal Society Interface</i> , 2008, 5, 909-918. | 1.5 | 26 |
| 1809 | One-step functionalization of carbon nanotubes by free-radical modification for the preparation of nanocomposite bipolar plates in polymer electrolyte membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2008, 18, 3993. | 6.7 | 54 |
| 1810 | Understanding structures and electronic/spintronic properties of single molecules, nanowires, nanotubes, and nanoribbons towards the design of nanodevices. <i>Journal of Materials Chemistry</i> , 2008, 18, 4510. | 6.7 | 59 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1811 | Universal band gap modulation by radial deformation in semiconductor single-walled carbon nanotubes. <i>Physical Review B</i> , 2008, 78, . | 1.1 | 27 |
| 1812 | Single-walled carbon nanotubes deposited on surface electrodes to improve interface impedance. <i>Physiological Measurement</i> , 2008, 29, S203-S212. | 1.2 | 23 |
| 1813 | Quantitative Evaluation of Surfactant-stabilized Single-walled Carbon Nanotubes: Dispersion Quality and Its Correlation with Zeta Potential. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10692-10699. | 1.5 | 343 |
| 1814 | Mechanical properties and structural characterization of carbon nanotube/alumina composites prepared by precursor method. <i>Diamond and Related Materials</i> , 2008, 17, 1554-1557. | 1.8 | 28 |
| 1815 | The Gate Leakage Current in Graphene Field-Effect Transistor. <i>IEEE Electron Device Letters</i> , 2008, 29, 1047-1049. | 2.2 | 24 |
| 1816 | Carbon nanotubes synergistically enhance photocatalytic activity of TiO ₂ . <i>Catalysis Communications</i> , 2008, 9, 1410-1413. | 1.6 | 92 |
| 1817 | Large Populations of Individual Nanotubes in Surfactant-Based Dispersions without the Need for Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 972-977. | 1.5 | 75 |
| 1818 | First-principles simulations of dissociated and molecular H_2 adsorption on Pd_4 -cluster-functionalized | 1.1 | 8 |
| 1819 | Functionalized carbon nanotubes responsive to environmental stimuli. <i>Journal of Materials Chemistry</i> , 2008, 18, 1831. | 6.7 | 31 |
| 1820 | Self-Assembled Monolayer-Assisted Chemical Transfer of In Situ Functionalized Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 9636-9637. | 6.6 | 48 |
| 1821 | The 2008 Kavli Prize in Nanoscience: Carbon Nanotubes. <i>ACS Nano</i> , 2008, 2, 1329-1335. | 7.3 | 48 |
| 1822 | Medicinal Chemistry and Pharmacological Potential of Fullerenes and Carbon Nanotubes. <i>Carbon Materials</i> , 2008, , . | 0.2 | 115 |
| 1823 | Chemical Functionalization of Single-Walled Carbon Nanotubes (SWNTs) by Aryl Groups: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13141-13149. | 1.5 | 29 |
| 1824 | On the friction and wear of carbon nanofiber-reinforced PEEK-based polymer composites. <i>Tribology and Interface Engineering Series</i> , 2008, , 149-208. | 0.0 | 7 |
| 1825 | Multiwalled carbon nanotube sheets as transparent electrodes in high brightness organic light-emitting diodes. <i>Applied Physics Letters</i> , 2008, 93, . | 1.5 | 84 |
| 1826 | Magneto-mechanical coupling behavior of defective single-walled carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 325701. | 1.3 | 5 |
| 1827 | Determination of the stiffness of cellulose nanowhiskers and the fiber-matrix interface in a nanocomposite using Raman spectroscopy. <i>Applied Physics Letters</i> , 2008, 93, . | 1.5 | 237 |
| 1828 | pH Effects On BSA-Dispersed Carbon Nanotubes Studied by Spectroscopy-Enhanced Composition Evaluation Techniques. <i>Analytical Chemistry</i> , 2008, 80, 4049-4054. | 3.2 | 69 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 1830 | A Study of the Interaction between Single-Walled Carbon Nanotubes and Polycyclic Aromatic Hydrocarbons: Toward Structure~Property Relationships. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10418-10422. | 1.5 | 26 |
| 1831 | A novel structure for carbon nanotube reinforced alumina composites with improved mechanical properties. <i>Nanotechnology</i> , 2008, 19, 315708. | 1.3 | 220 |
| 1832 | Design, Characterization and Evaluation of Material Systems for Ballistic Resistant Body Armor: A Comparative Study. , 2008, , . | | 1 |
| 1833 | Asymmetrically Charged Carbon Nanotubes by Controlled Functionalization. <i>ACS Nano</i> , 2008, 2, 1833-1840. | 7.3 | 28 |
| 1834 | Carbon nanotube~nanocrystal heterostructures fabricated by electrophoretic deposition. <i>Nanotechnology</i> , 2008, 19, 195301. | 1.3 | 50 |
| 1835 | Electromechanical properties of nanotube~PVA composite actuator bimorphs. <i>Nanotechnology</i> , 2008, 19, 325501. | 1.3 | 34 |
| 1836 | Effect of ZnO catalyst on carbon nanotube growth by thermal chemical vapor deposition. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 1765. | 1.3 | 8 |
| 1837 | Carbon nanotubes in triphenylene and rufigallol-based room temperature monomeric and polymeric discotic liquid crystals. <i>Journal of Materials Chemistry</i> , 2008, 18, 3032. | 6.7 | 87 |
| 1838 | Tuning of Vertically-Aligned Carbon Nanotube Diameter and Areal Density through Catalyst Pre-Treatment. <i>Nano Letters</i> , 2008, 8, 3587-3593. | 4.5 | 220 |
| 1839 | Comparison of the Quality of Aqueous Dispersions of Single Wall Carbon Nanotubes Using Surfactants and Biomolecules. <i>Langmuir</i> , 2008, 24, 5070-5078. | 1.6 | 225 |
| 1841 | Immobilization of acetylcholinesterase based on the controllable adsorption of carbon nanotubes onto an alkanethiol monolayer for carbaryl sensing. <i>Analyst, The</i> , 2008, 133, 1790. | 1.7 | 53 |
| 1842 | Carbon nanotube-modified electrodes for solar energy conversion. <i>Energy and Environmental Science</i> , 2008, 1, 120. | 15.6 | 176 |
| 1843 | Nanostructured materials for enzyme immobilization and biosensors. , 2008, , 355-394. | | 17 |
| 1844 | Hydrodynamic Characterization of Surfactant Encapsulated Carbon Nanotubes Using an Analytical Ultracentrifuge. <i>ACS Nano</i> , 2008, 2, 2291-2300. | 7.3 | 118 |
| 1845 | Light-Controlled Single-Walled Carbon Nanotube Dispersions in Aqueous Solution. <i>Langmuir</i> , 2008, 24, 9233-9236. | 1.6 | 61 |
| 1846 | Frequency- and electric-field-dependent conductivity of single-walled carbon nanotube networks of varying density. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 37 |
| 1847 | Electron transfer in pristine and functionalised single-walled carbon nanotubes. <i>Chemical Communications</i> , 2008, , 4867. | 2.2 | 19 |
| 1848 | Growth interruption studies on vertically aligned 2-3 wall carbon nanotubes by water assisted chemical vapor deposition. <i>Applied Physics Letters</i> , 2008, 93, 114101. | 1.5 | 23 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 1849 | UV-induced surface electrical conductivity jump of polymer nanocomposites. Applied Physics Letters, 2008, 92, 203113. | 1.5 | 6 |
| 1850 | Preparation and magnetic properties of iron oxide and carbide nanoparticles in carbon nanotube matrix. Journal of Alloys and Compounds, 2008, 455, 5-9. | 2.8 | 38 |
| 1851 | Carbon nanotube networks as gas sensors for NO ₂ detection. Talanta, 2008, 77, 758-764. | 2.9 | 117 |
| 1852 | Stiffness- and Conformation-Dependent Polymer Wrapping onto Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2008, 130, 16697-16703. | 6.6 | 69 |
| 1853 | Simultaneous Enrichments of Optical Purity and (<i>n</i>,<i>m</i>) Abundance of SWNTs through Extraction with 3,6-Carbazolyene-Bridged Chiral Diporphyrin Nanotweezers. ACS Nano, 2008, 2, 2045-2050. | 7.3 | 78 |
| 1854 | Self-Passivating Edge Reconstructions of Graphene. Physical Review Letters, 2008, 101, 115502. | 2.9 | 674 |
| 1855 | Exploring the mechanisms of carbon-nanotube dispersion aggregation in a highly polar solvent. Europhysics Letters, 2008, 83, 66009. | 0.7 | 24 |
| 1856 | Single Gold-Nanoparticle-Enhanced Raman Scattering of Individual Single-Walled Carbon Nanotubes via Atomic Force Microscope Manipulation. Journal of Physical Chemistry C, 2008, 112, 7119-7123. | 1.5 | 59 |
| 1857 | Liquid crystal cells with built-in CdSe nanotubes for chromogenic smart emission devices. Optics Express, 2008, 16, 671. | 1.7 | 20 |
| 1858 | Room-temperature growth and characterization of iron-carbon nanocomposite fibers. , 2008, , . | | 0 |
| 1860 | Carbon nanotubes in liquid crystals. Journal of Materials Chemistry, 2008, 18, 2890. | 6.7 | 248 |
| 1861 | Interactions between transition metals and defective carbon nanotubes. Computational Materials Science, 2008, 43, 823-828. | 1.4 | 64 |
| 1862 | Fabrication and properties of carbon nanotubes reinforced Fe/hydroxyapatite composites by in situ chemical vapor deposition. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1128-1132. | 3.8 | 32 |
| 1863 | Metal~Carbon Nanotube Contacts: The Link between Schottky Barrier and Chemical Bonding. Journal of the American Chemical Society, 2008, 130, 5848-5849. | 6.6 | 43 |
| 1864 | Thermal Stability and Reducibility of Oxygen-Containing Functional Groups on Multiwalled Carbon Nanotube Surfaces: A Quantitative High-Resolution XPS and TPD/TPR Study. Journal of Physical Chemistry C, 2008, 112, 16869-16878. | 1.5 | 799 |
| 1865 | Nanotubes, Nanofibers and Nanowires as Supports for Catalysts. , 2008, , 655-714. | | 5 |
| 1866 | Silicon Carbide Nanotubes Functionalized by Transition Metal Atoms:~ A Density-Functional Study. Journal of Physical Chemistry C, 2008, 112, 2558-2564. | 1.5 | 107 |
| 1867 | Molecular Simulation of Water in Carbon Nanotubes. Chemical Reviews, 2008, 108, 5014-5034. | 23.0 | 440 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1868 | Hollow Macroporous Core/Mesoporous Shell Carbon with a Tailored Structure as a Cathode Electrocatalyst Support for Proton Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 639-645. | 1.5 | 103 |
| 1869 | Analytically Calculated Polarizability of Carbon Nanotubes: Single Wall, Coaxial, and Bundled Systems. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1396-1400. | 1.5 | 26 |
| 1870 | Controlled synthesis of rare earth nanostructures. <i>Journal of Materials Chemistry</i> , 2008, 18, 5046. | 6.7 | 204 |
| 1871 | Semiempirical calculations on the electronic properties of finite-length models of carbon nanotubes based on Clar sextet theory. <i>Molecular Simulation</i> , 2008, 34, 905-908. | 0.9 | 5 |
| 1872 | Self-Assembly and Cathodoluminescence of Microbelts from Cu-Doped Boron Nitride Nanotubes. <i>ACS Nano</i> , 2008, 2, 1523-1532. | 7.3 | 41 |
| 1873 | Individually Dispersing Single-Walled Carbon Nanotubes with Novel Neutral pH Water-Soluble Chitosan Derivatives. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7579-7587. | 1.5 | 102 |
| 1874 | Smart Electronic Yarns and Wearable Fabrics for Human Biomonitoring made by Carbon Nanotube Coating with Polyelectrolytes. <i>Nano Letters</i> , 2008, 8, 4151-4157. | 4.5 | 496 |
| 1875 | Near-Infrared Fluorescent Materials for Sensing of Biological Targets. <i>Sensors</i> , 2008, 8, 3082-3105. | 2.1 | 173 |
| 1876 | Inhalation vs. aspiration of single-walled carbon nanotubes in C57BL/6 mice: inflammation, fibrosis, oxidative stress, and mutagenesis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 295, L552-L565. | 1.3 | 562 |
| 1877 | Effects of annealing Ni catalyst in nitrogen-containing gases on the surface morphology and field-emission properties of thermal chemical vapor deposited carbon nanotubes. <i>New Carbon Materials</i> , 2008, 23, 302-308. | 2.9 | 6 |
| 1878 | Synthesis of thin-walled carbon nanotubes from methane by changing the Ni/Mo ratio in a Ni/Mo/MgO catalyst. <i>New Carbon Materials</i> , 2008, 23, 319-325. | 2.9 | 20 |
| 1879 | Numerical Modeling of the I-V Characteristic of Carbon Nanotube Field Effect Transistors (CNT-FETs). <i>System Theory, Proceedings of the Southeastern Symposium on</i> , 2008, , . | 0.0 | 7 |
| 1880 | Protein-Mediated Assembly of Nanodiamond Hydrogels into a Biocompatible and Biofunctional Multilayer Nanofilm. <i>ACS Nano</i> , 2008, 2, 203-212. | 7.3 | 206 |
| 1881 | Au-carbon nanotube composites from self-reduction of Au ³⁺ upon poly(ethylene imine) functionalized SWNT thin films. <i>Journal of Materials Chemistry</i> , 2008, 18, 1694. | 6.7 | 21 |
| 1882 | Defection-selective solubilization and chemically-responsive solubility switching of single-walled carbon nanotubes with cucurbit[7]uril. <i>Chemical Communications</i> , 2008, , 2245. | 2.2 | 17 |
| 1883 | Angle-controlled arrangement of single-walled carbon nanotubes solubilised by 8-quinolinol metal chelate derivatives on mica. <i>Chemical Communications</i> , 2008, , 1801. | 2.2 | 9 |
| 1884 | Nanomaterial-incorporated blown bubble films for large-area, aligned nanostructures. <i>Journal of Materials Chemistry</i> , 2008, 18, 728. | 6.7 | 95 |
| 1885 | Ab initio study of the dielectric response of crystalline ropes of metallic single-walled carbon nanotubes: Tube-diameter and helicity effects. <i>Physical Review B</i> , 2008, 78, . | 1.1 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1886 | Gas temperature measurements in a microwave plasma by optical emission spectroscopy under single-wall carbon nanotube growth conditions. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 095206. | 1.3 | 14 |
| 1887 | Optical absorption spectrum of single-walled carbon nanotubes dispersed in sodium cholate and sodium dodecyl sulfate. <i>Journal of Materials Research</i> , 2008, 23, 632-636. | 1.2 | 8 |
| 1888 | Assembling of carbon nanotube structures by chemical anchoring for packaging applications. , 2008, , . | | 5 |
| 1889 | Controlled deposition of polymer carbon Nanotube composites through inkjet printing. <i>Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on</i> , 2008, , . | 0.0 | 1 |
| 1890 | Supersensitive linear piezoresistive property in carbon nanotubesâ•silicone rubber nanocomposites. <i>Journal of Applied Physics</i> , 2008, 104, . | 1.1 | 117 |
| 1891 | Comparison of Dynamic Response of Functionalized and Bare MWNT Sensors. , 2008, , . | | 0 |
| 1892 | Environmental materials research: opportunities and challenges in China. <i>International Journal of Sustainable Development and World Ecology</i> , 2008, 15, 1S-10S. | 3.2 | 3 |
| 1893 | The non-covalent functionalisation of carbon nanotubes studied by density functional and semi-empirical molecular orbital methods including dispersion corrections. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 128-135. | 1.3 | 30 |
| 1894 | Investigation of Colloidal Suspension of SWCNT and Î³-Cyclodextrin Using AFM and Molecular Dynamics Simulation. <i>ACS Symposium Series</i> , 2008, , 402-416. | 0.5 | 1 |
| 1895 | Multi-walled carbon nanotube/nanocrystalline copper nanocomposite film as an interconnect material. , 2008, , . | | 2 |
| 1896 | Chemical Transfer of in-situ Functionalized Aligned Carbon Nanotube Structures for Microelectronic Packaging Applications. , 2008, , . | | 0 |
| 1897 | Vertically-aligned carbon nanotubes infiltrated with temperature-responsive polymers: smart nanocomposite films for self-cleaning and controlled release. <i>Chemical Communications</i> , 2008, , 163-165. | 2.2 | 30 |
| 1898 | Fabrication of carbon nano-tubes decorated with ultra fine superparamagnetic nano-particles under continuous flow conditions. <i>Lab on A Chip</i> , 2008, 8, 439. | 3.1 | 39 |
| 1899 | One-step solid-state thermolysis of a metalâ€organic framework: a simple and facile route to large-scale of multiwalled carbon nanotubes. <i>Chemical Communications</i> , 2008, , 1581. | 2.2 | 100 |
| 1900 | Directing single-walled carbon nanotubes to self-assemble at water/oil interfaces and facilitate electron transfer. <i>Chemical Communications</i> , 2008, , 4273. | 2.2 | 31 |
| 1901 | A Nanogripper Employing Aligned Multiwall Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , 2008, 7, 389-393. | 1.1 | 16 |
| 1902 | Aligned Bundles of Carbon Nanotubes Are Easily Grown on As-Synthesized Mesoporous Silicate Substrates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15157-15162. | 1.5 | 10 |
| 1903 | Protein Binding by Functionalized Multiwalled Carbon Nanotubes Is Governed by the Surface Chemistry of Both Parties and the Nanotube Diameter. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3300-3307. | 1.5 | 151 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1904 | Organic Solvent-Redispersible Isolated Single Wall Carbon Nanotubes Coated by in-Situ Polymerized Surfactant Monolayer. <i>Macromolecules</i> , 2008, 41, 3261-3266. | 2.2 | 35 |
| 1905 | Cross-Linking of Multiwalled Carbon Nanotubes with Polymeric Amines. <i>Macromolecules</i> , 2008, 41, 6141-6146. | 2.2 | 58 |
| 1906 | Enhanced dispersion of carbon nanotubes in hyperbranched polyurethane and properties of nanocomposites. <i>Nanotechnology</i> , 2008, 19, 495707. | 1.3 | 74 |
| 1907 | Stable Luminescence from Individual Carbon Nanotubes in Acidic, Basic, and Biological Environments. <i>Journal of the American Chemical Society</i> , 2008, 130, 2626-2633. | 6.6 | 68 |
| 1908 | First-Principles Calculation of ¹³ C NMR Chemical Shifts of Infinite Single-Walled Carbon Nanotubes: New Data for Large-Diameter and Four-Helical Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16417-16421. | 1.5 | 18 |
| 1910 | Direct Synthesis and the Morphological Control of Highly Ordered Two-Dimensional <i>P6mm</i> Mesoporous Niobium Silicates with High Niobium Content. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10130-10140. | 1.5 | 22 |
| 1911 | Effects of Multiwalled Carbon Nanotubes on the Shear-Induced Crystallization Behavior of Poly(butylene terephthalate). <i>Macromolecules</i> , 2008, 41, 8103-8113. | 2.2 | 53 |
| 1912 | Tuning the dispersion of multiwall carbon nanotubes in co-continuous polymer blends: a generic approach. <i>Nanotechnology</i> , 2008, 19, 335704. | 1.3 | 55 |
| 1913 | Femtosecond Photon Echo Spectroscopy of Semiconducting Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2008, 8, 3936-3941. | 4.5 | 40 |
| 1914 | <i>Ab initio</i> prediction of stable boron sheets and boron nanotubes: Structure, stability, and electronic properties. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 315 |
| 1915 | Size Separation of Single-Wall Carbon Nanotubes by Flow-Field Flow Fractionation. <i>Analytical Chemistry</i> , 2008, 80, 2514-2523. | 3.2 | 78 |
| 1916 | Enhancement of Water Solubility of Single-Walled Carbon Nanotubes by Formation of Host-Guest Complexes of Cyclodextrins with Various Guest Molecules. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13079-13083. | 1.5 | 19 |
| 1917 | Optical Properties of Ultrashort Semiconducting Single-Walled Carbon Nanotube Capsules Down to Sub-10 nm. <i>Journal of the American Chemical Society</i> , 2008, 130, 6551-6555. | 6.6 | 142 |
| 1918 | Characterization of Electrical and Mechanical Properties for Coaxial Nanofibers with Poly(ethylene Terephthalate). <i>Journal of Applied Physics</i> , 2008, 104, 044304. | 2.2 | 43 |
| 1919 | Carbon nanotubes as integrative materials for organic photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2008, 18, 153-157. | 6.7 | 124 |
| 1920 | Noncovalent Modification of Carbon Nanotubes with Ferrocene-Amino Acid Conjugates for Electrochemical Sensing of Chemical Warfare Agent Mimics. <i>Analytical Chemistry</i> , 2008, 80, 2574-2582. | 3.2 | 54 |
| 1921 | Au(Si)-filled β -Ga ₂ O ₃ nanotubes as wide range high temperature nanothermometers. <i>Applied Physics Letters</i> , 2008, 92, . | 1.5 | 40 |
| 1922 | Chromatographic Fractionation of SWNT/DNA Dispersions with On-Line Multi-Angle Light Scattering. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1842-1850. | 1.5 | 39 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1923 | Spontaneous Reduction of Pt(IV) onto the Sidewalls of Functionalized Multiwalled Carbon Nanotubes as Catalysts for Oxygen Reduction Reaction in PEMFCs. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2671-2677. | 1.5 | 50 |
| 1924 | Tandem Action of Early~Late Transition Metal Catalysts for the Surface Coating of Multiwalled Carbon Nanotubes with Linear Low-Density Polyethylene. <i>Chemistry of Materials</i> , 2008, 20, 3092-3098. | 3.2 | 35 |
| 1925 | Ab Initio Study of Phonon-Induced Dephasing of Electronic Excitations in Narrow Graphene Nanoribbons. <i>Nano Letters</i> , 2008, 8, 2510-2516. | 4.5 | 42 |
| 1926 | Investigation of Insulin Loaded Self-Assembled Microtubules for Drug Release. <i>Bioconjugate Chemistry</i> , 2008, 19, 2394-2400. | 1.8 | 21 |
| 1927 | A critical assessment of the elastic properties and effective wall thickness of single-walled carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 075705. | 1.3 | 111 |
| 1928 | Chiral-Angle Distribution for Separated Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2008, 8, 3151-3154. | 4.5 | 69 |
| 1929 | Exciton Dynamics and Biexciton Formation in Single-Walled Carbon Nanotubes Studied with Femtosecond Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4507-4516. | 1.5 | 58 |
| 1930 | Toughness Enhancement in ROMP Functionalized Carbon Nanotube/Polydicyclopentadiene Composites. <i>Chemistry of Materials</i> , 2008, 20, 7060-7068. | 3.2 | 149 |
| 1931 | Lithography inside Cu(OH) ₂ Nanorods: A General Route to Controllable Synthesis of the Arrays of Copper Chalcogenide Nanotubes with Double Walls. <i>Inorganic Chemistry</i> , 2008, 47, 699-704. | 1.9 | 48 |
| 1932 | Catalyst-Free Growth of Well Vertically Aligned GaN Needlelike Nanowire Array with Low-Field Electron Emission Properties. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18821-18824. | 1.5 | 25 |
| 1933 | Directed Three-Dimensional Patterning of Self-Assembled Peptide Fibrils. <i>Nano Letters</i> , 2008, 8, 538-543. | 4.5 | 125 |
| 1934 | Carbon nitride nanotubes synthesized by high-frequency induction heating quickly and their field-emission properties. , 2008, , . | | 0 |
| 1935 | Growth of CNTs on Fe~Si catalyst prepared on Si and Al coated Si substrates. <i>Nanotechnology</i> , 2008, 19, 095607. | 1.3 | 24 |
| 1936 | Use of Dynamic Rheological Behavior to Estimate the Dispersion of Carbon Nanotubes in Carbon Nanotube/Polymer Composites. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12606-12611. | 1.2 | 136 |
| 1937 | From RADAR to NODAR. , 2008, , . | | 0 |
| 1938 | From Carbon-Encapsulated Iron Nanorods to Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5835-5839. | 1.5 | 5 |
| 1939 | Carbon Nanotube Electroactive Polymer Materials: Opportunities and Challenges. <i>MRS Bulletin</i> , 2008, 33, 215-224. | 1.7 | 51 |
| 1940 | Synthesis, Characterization and Aspects of Superhydrophobic Functionalized Carbon Nanotubes. <i>Chemistry of Materials</i> , 2008, 20, 2884-2886. | 3.2 | 105 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1941 | Electrical and Thermal Interface Conductance of Carbon Nanotubes Grown under Direct Current Bias Voltage. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19727-19733. | 1.5 | 23 |
| 1942 | CNTs/Cu composite thin films fabricated by electrophoresis and electroplating techniques. , 2008, , . | | 1 |
| 1943 | On-chip deposition of carbon nanotubes using CMOS microhotplates. <i>Nanotechnology</i> , 2008, 19, 025607. | 1.3 | 47 |
| 1944 | Hydrogen Adsorption in Single-Walled Carbon Nanotubes. , 2008, , 369-401. | | 1 |
| 1945 | Quantum-Dot/Dendrimer Based Functional Nanotubes for Sensitive Detection of DNA Hybridization. <i>Advances in Science and Technology</i> , 2008, 55, 84-90. | 0.2 | 2 |
| 1946 | Energy dissipation of high-speed nanobearings from double-walled carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 465703. | 1.3 | 21 |
| 1947 | Tailoring the Electrochemical Behavior of Multiwalled Carbon Nanotubes Through Argon and Hydrogen Ion Irradiation. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, K35. | 2.2 | 9 |
| 1948 | Preparation and characterization of catalyst mix Fe-Co/MgO for carbon nanotubes growth. <i>Polish Journal of Chemical Technology</i> , 2008, 10, 1-3. | 0.3 | 3 |
| 1949 | Reinforced membrane based on crosslink reaction between water soluble sulfonated carbon nanotubes and sulfonated polystyrene. , 2008, , . | | 0 |
| 1950 | Carbon as a MEMS material: micro and nanofabrication of pyrolysed photoresist carbon. <i>International Journal of Manufacturing Technology and Management</i> , 2008, 13, 360. | 0.1 | 19 |
| 1951 | Bilayer Memory Device Based on a Conjugated Copolymer and a Carbon Nanotube/Polyaniline Composite. <i>Journal of the Electrochemical Society</i> , 2008, 155, H205. | 1.3 | 12 |
| 1952 | Continuous Carbon Nanotube-PDMS Composites. , 2008, , . | | 1 |
| 1953 | Carbon nanotube yarns: sensors, actuators, and current carriers. , 2008, , . | | 4 |
| 1954 | Vibrations of Double-Walled Carbon Nanotubes With Different Boundary Conditions Between Inner and Outer Tubes. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, . | 1.1 | 50 |
| 1955 | Synthesis and analysis of aligned multi-walled carbon nanotubes by chemical vapour deposition. <i>International Journal of Nanoparticles</i> , 2008, 1, 283. | 0.1 | 1 |
| 1956 | An analysis of carbon nanotube structure wettability before and after oxidation treatment. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 474206. | 0.7 | 50 |
| 1957 | Fabrication of SWNT device by self-assembly technology. , 2008, , . | | 1 |
| 1958 | ON INSTABILITY OF SINGLE-WALLED CARBON NANOTUBES WITH A VACANCY DEFECT. <i>International Journal of Structural Stability and Dynamics</i> , 2008, 08, 357-366. | 1.5 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1959 | Electro-Mechanical and Thermal Properties of Multiwalled Carbon Nanotube Reinforced Alumina Composites. Key Engineering Materials, 2008, 368-372, 701-703. | 0.4 | 3 |
| 1960 | SYNTHESIS OF SINGLE-WALLED CARBON NANOTUBES FROM LIQUEFIED PETROLEUM GAS. Nano, 2008, 03, 95-100. | 0.5 | 11 |
| 1961 | DIELECTRIC ELASTOMERS AS HIGH-PERFORMANCE ELECTROACTIVE POLYMERS. , 2008, , 13-21. | | 11 |
| 1962 | Carbon Nanotube Fibers Are Compatible With Mammalian Cells and Neurons. IEEE Transactions on Nanobioscience, 2008, 7, 11-14. | 2.2 | 50 |
| 1963 | Sensitive Detection of NADH by Ferrocenylalkanethiol Functionalized Multiwall Carbon Nanotubes Electrodes. Analytical Letters, 2008, 41, 1236-1247. | 1.0 | 8 |
| 1964 | Transverse Pressure Induced Phase Transitions in Boron Nitride Nanotube Bundles and the Lightest Boron Nitride Crystal. Journal of the American Chemical Society, 2008, 130, 5257-5261. | 6.6 | 33 |
| 1965 | Carbon Nanotube Yarn Actuators: An Electrochemical Impedance Model. ECS Transactions, 2008, 13, 13-27. | 0.3 | 0 |
| 1966 | Self-Catalyzed Hydrogenolysis of Nickelocene: Functional Metal Coating of Three-Dimensional Nanosystems at Low Temperature. Journal of the Electrochemical Society, 2008, 155, D580. | 1.3 | 18 |
| 1967 | Flexible Carbon Nanotube~Polymer Composite Films with High Conductivity and Superhydrophobicity Made by Solution Process. Nano Letters, 2008, 8, 4454-4458. | 4.5 | 154 |
| 1968 | Preparation of poly(methyl methacrylate) grafted titanate nanotubes by in situ atom transfer radical polymerization. Nanotechnology, 2008, 19, 495604. | 1.3 | 12 |
| 1969 | Preparation of Carbon Nanotube~Toughened Alumina Composites. AIP Conference Proceedings, 2008, , . | 0.3 | 2 |
| 1970 | Carbon nanotube screening effects on the water-ion channels. Applied Physics Letters, 2008, 93, 43122. | 1.5 | 14 |
| 1971 | Conducting carbon nanopatterns (nanowire) by energetic ion irradiation. Journal Physics D: Applied Physics, 2008, 41, 095304. | 1.3 | 9 |
| 1972 | Field Emission from Self-Assembled Arrays of Lanthanum Monosulfide Nanoprotrusions. Journal of Nanomaterials, 2008, 2008, 1-4. | 1.5 | 2 |
| 1973 | Radio-frequency characterization of varactors based on carbon nanotube arrays. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2008, 222, 111-115. | 0.1 | 1 |
| 1974 | Introduction to nanojoining. , 2008, , 545-579. | | 1 |
| 1975 | Preparation and Characterization of Polyurethane/Multi-Walled Carbon Nanotubes Composites with Multi Functional Performance. Advanced Materials Research, 0, 47-50, 765-768. | 0.3 | 10 |
| 1976 | PURITY MEASUREMENT OF SINGLE-WALLED CARBON NANOTUBES BY UV-VIS-NIR ABSORPTION SPECTROSCOPY AND THERMOGRAVIMETRIC ANALYSIS. Nano, 2008, 03, 101-108. | 0.5 | 28 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1977 | The Role of Defects in Carbon Nanostructures Probed through Ion Implantation and Electrochemistry. Materials Research Society Symposia Proceedings, 2008, 1142, 40401. | 0.1 | 0 |
| 1978 | Nanofiber Mats from DNA, SWNTs, and Poly(ethylene oxide) and Their Application in Glucose Biosensors. Journal of the Electrochemical Society, 2008, 155, K100. | 1.3 | 24 |
| 1980 | Effect of conformations on charge transport in a thin elastic tube. Nonlinearity, 2008, 21, 1-11. | 0.6 | 69 |
| 1981 | Current transport modeling in carbon nanotube field effect transistors (CNT-FETs) and bio-sensing applications. Proceedings of SPIE, 2008, , . | 0.8 | 1 |
| 1982 | Structural and electronic properties of carbon nanotubes under hydrostatic pressures. Chinese Physics B, 2008, 17, 1881-1886. | 0.7 | 12 |
| 1983 | Air-assisted growth of ultra-long carbon nanotube bundles. Nanotechnology, 2008, 19, 455609. | 1.3 | 66 |
| 1984 | Skin-Core Micro-Structure and Surface Orientation of Carbon Nanotube Composites by Injection Molding Process. Solid State Phenomena, 2008, 136, 51-56. | 0.3 | 7 |
| 1985 | FEW WALLED CARBON NANOTUBE PRODUCTION IN LARGE-SCALE BY NANO-AGGLOMERATE FLUIDIZED-BED PROCESS. Nano, 2008, 03, 45-50. | 0.5 | 18 |
| 1986 | CNT Based Sensors. Advances in Science and Technology, 0, , . | 0.2 | 9 |
| 1987 | Continuous Extraction of Highly Pure Metallic Single-Walled Carbon Nanotubes in a Microfluidic Channel. Nano Letters, 2008, 8, 4380-4385. | 4.5 | 72 |
| 1988 | Low Overpotential Detection of NADH and Ethanol Based on Thionine Single-Walled Carbon Nanotube Composite. Journal of the Electrochemical Society, 2008, 155, F231. | 1.3 | 18 |
| 1989 | Tailoring Piezoresistive Sensitivity of Multilayer Carbon Nanotube Composite Strain Sensors. Journal of Intelligent Material Systems and Structures, 2008, 19, 747-764. | 1.4 | 155 |
| 1990 | Conducting Polymer nanoComposites (CPC): Nanocharacterisation of layer by layer sprayed PMMA-CNT vapour sensors by Atomic force Microscopy in current Sensing Mode (CS-AFM). Materials Research Society Symposia Proceedings, 2008, 1143, 20601. | 0.1 | 1 |
| 1991 | Entanglement and the Nonlinear Elastic Behavior of Forests of Coiled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2008, 1081, 1. | 0.1 | 0 |
| 1992 | Femtosecond laser nanoablation of glass in the near-field of single wall carbon nanotube bundles. Journal Physics D: Applied Physics, 2008, 41, 185306. | 1.3 | 4 |
| 1993 | One-dimensional character of Sn doped In ₂ O ₃ nanowires probed by magnetotransport measurements. Journal Physics D: Applied Physics, 2008, 41, 045106. | 1.3 | 15 |
| 1994 | Synthesis of well-aligned bamboo-like carbon nanotube arrays from ethanol and acetone. Journal Physics D: Applied Physics, 2008, 41, 095409. | 1.3 | 15 |
| 1995 | Improvement of the sputtered platinum utilization in proton exchange membrane fuel cells using plasma-based carbon nanofibres. Journal Physics D: Applied Physics, 2008, 41, 185307. | 1.3 | 20 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1996 | Advances in engineering of diameter and distribution of the number of walls of carbon nanotubes in alcohol CVD. <i>Nanotechnology</i> , 2008, 19, 365605. | 1.3 | 17 |
| 1997 | Synthesis of hollow silver nanostructures by a simple strategy. <i>Nanotechnology</i> , 2008, 19, 045607. | 1.3 | 18 |
| 1998 | Adhesion, friction and wear on the nanoscale of MWNT tips and SWNT and MWNT arrays. <i>Nanotechnology</i> , 2008, 19, 125702. | 1.3 | 28 |
| 1999 | Growth and characterization of V-shaped IrO ₂ nanowedges via metal-organic vapor deposition. <i>Nanotechnology</i> , 2008, 19, 465607. | 1.3 | 8 |
| 2000 | Conformal metal oxide coatings on nanotubes by direct low temperature metal-organic pyrolysis in supercritical carbon dioxide. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 978. | 1.3 | 8 |
| 2001 | A one-step technique to prepare aligned arrays of carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 155602. | 1.3 | 46 |
| 2002 | MORPHOLOGY CONTROL OF CARBON NANOTUBES THROUGH FOCUSED ION BEAMS. <i>Nano</i> , 2008, 03, 449-454. | 0.5 | 5 |
| 2003 | Influence of oxygen on the growth of carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 205306. | 1.3 | 12 |
| 2004 | The coordinated buckling of carbon nanotube turfs under uniform compression. <i>Nanotechnology</i> , 2008, 19, 175704. | 1.3 | 97 |
| 2005 | Reorientation Dynamics of Liquid Crystal Nanotube Dispersions. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 6390-6393. | 0.8 | 37 |
| 2006 | UNUSUAL ELECTROCHEMICAL RESPONSE OF ELECTROCHEMICAL ETCHING ON MULTIWALLED CARBON NANOTUBES. <i>Nano</i> , 2008, 03, 461-467. | 0.5 | 4 |
| 2007 | Metal-Fixed Multiwalled Carbon Nanotube Patterned Emitters Using Photolithography and Electrodeposition Technique. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, D72. | 2.2 | 12 |
| 2008 | Electromechanical actuation of single-walled carbon nanotubes: an <i>ab initio</i> study. <i>Nanotechnology</i> , 2008, 19, 315706. | 1.3 | 10 |
| 2009 | Enhanced mechanical and electrical properties of antimony-doped tin oxide coatings. <i>Semiconductor Science and Technology</i> , 2008, 23, 035013. | 1.0 | 10 |
| 2010 | Towards tough, yet stiff, composites by filling an elastomer with single-walled nanotubes at very high loading levels. <i>Nanotechnology</i> , 2008, 19, 415709. | 1.3 | 30 |
| 2011 | Bilinear responses and rippling morphologies of multiwalled carbon nanotubes under torsion. <i>Applied Physics Letters</i> , 2008, 93, . | 1.5 | 15 |
| 2012 | Efficient dispersion and exfoliation of single-walled nanotubes in 3-aminopropyltriethoxysilane and its derivatives. <i>Nanotechnology</i> , 2008, 19, 485702. | 1.3 | 6 |
| 2013 | Raman Vibrational Properties of Carbon Nanotubes with the Radiation Defect Formation. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 497, 38/[370]-45/[377]. | 0.4 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2014 | Probing quantum confinement of single-walled carbon nanotubes by resonant soft-x-ray emission spectroscopy. Applied Physics Letters, 2008, 93, . | 1.5 | 12 |
| 2015 | Effectively enhanced oxygen sensitivity of individual ZnO tetrapod sensor by water preadsorption. Applied Physics Letters, 2008, 92, . | 1.5 | 25 |
| 2016 | Effect of bending on Raman-active vibration modes of carbon nanotubes. Physical Review B, 2008, 78, . | 1.1 | 21 |
| 2017 | Length-dependent oscillations in the dc conductance of laser-driven quantum wires. Physical Review B, 2008, 78, . | 1.1 | 19 |
| 2018 | Electrospun fibrous nanocomposites as permeable, flexible strain sensors. Journal of Applied Physics, 2008, 103, . | 1.1 | 45 |
| 2019 | Electrical Characteristics of the Backgated Bottom-Up Silicon Nanowire FETs. IEEE Nanotechnology Magazine, 2008, 7, 683-687. | 1.1 | 10 |
| 2020 | Terahertz spectroscopy of carbon nanotubes embedded in a deformable rubber. Journal of Applied Physics, 2008, 103, . | 1.1 | 30 |
| 2021 | Direct imaging of current paths in multiwalled carbon nanofiber polymer nanocomposites using conducting-tip atomic force microscopy. Journal of Applied Physics, 2008, 104, . | 1.1 | 38 |
| 2022 | One-step grown aligned bulk carbon nanotubes by chloride mediated chemical vapor deposition. Applied Physics Letters, 2008, 92, . | 1.5 | 137 |
| 2023 | Raman and morphological characteristics of carbon nanotubes depending on substrate temperatures by chemical vapor deposition. , 2008, , . | | 0 |
| 2024 | Generation of ultrasmall nanostructures in oxide layers assisted by self-organization. Journal of Applied Physics, 2008, 103, 064303. | 1.1 | 10 |
| 2025 | The resistivity of a new composite system: CNT-ceramic. , 2008, , . | | 1 |
| 2026 | Synthesis and Nonisothermal Crystallization Behavior of Poly(ethylene terephthalate)/Attapulgit Nanocomposites. Journal of Macromolecular Science - Physics, 2008, 47, 217-229. | 0.4 | 6 |
| 2027 | Distinguishing self-gated rectification action from ordinary diode rectification in back-gated carbon nanotube devices. Applied Physics Letters, 2008, 92, 133111. | 1.5 | 6 |
| 2028 | First-principles study for transport properties of armchair carbon nanotubes with a double vacancy under strain. Journal of Applied Physics, 2008, 103, 113714. | 1.1 | 5 |
| 2029 | Transversely isotropic elastic properties of single-walled carbon nanotubes by a rectangular beam model for the C _i -C _j bonds. Journal of Applied Physics, 2008, 103, . | 1.1 | 43 |
| 2030 | Carbon nanotubes synthesized by simple thermal chemical vapor deposition and their electrical properties. , 2008, , . | | 0 |
| 2031 | Shaping electrodes for ultrahigh precision dielectrophoretic manipulation of carbon nanotubes. , 2008, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2032 | Constant-power operation of functionalized carbon nanotube sensors for alcohol vapor detection. , 2008, , . | | 4 |
| 2033 | Towards new functional nanostructures for medical imaging. <i>Medical Physics</i> , 2008, 35, 4474-4487. | 1.6 | 38 |
| 2034 | Growth and characterization of carbon nanotubes on constantan (Cuâ€“Niâ€“Mn alloy) metallic substrates without adding additional catalysts. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 832-835. | 0.9 | 12 |
| 2035 | Thermoelectric power in carbon nanotubes and quantum wires of nonlinear optical, optoelectronic, and related materials under strong magnetic field: Simplified theory and relative comparison. <i>Journal of Applied Physics</i> , 2008, 103, . | 1.1 | 18 |
| 2036 | Buckling analysis of carbon nanotubes modeled using nonlocal continuum theories. <i>Journal of Applied Physics</i> , 2008, 103, . | 1.1 | 92 |
| 2037 | Optical characterization of single walled carbon nanotubes dispersed in sodium cholate and sodium dodecyl sulfate. , 2008, , . | | 2 |
| 2038 | Characterizing the global dispersion of carbon nanotubes in ceramic matrix nanocomposites. <i>Applied Physics Letters</i> , 2008, 93, 201910. | 1.5 | 10 |
| 2039 | Wave propagation in double-walled carbon nanotubes conveying fluid. <i>Journal of Applied Physics</i> , 2008, 103, . | 1.1 | 17 |
| 2040 | Electronic transport in carbon nanotubes: Diffusive and localized regimes. <i>Physical Review B</i> , 2008, 78, . | 1.1 | 14 |
| 2041 | Localizations on complex networks. <i>Physical Review E</i> , 2008, 77, 066113. | 0.8 | 28 |
| 2042 | Creep-resistant composites of alumina and single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2008, 92, . | 1.5 | 36 |
| 2043 | High intensity, plasma-induced emission from large area ZnO nanorod array cathodes. <i>Physics of Plasmas</i> , 2008, 15, 114505. | 0.7 | 18 |
| 2044 | Adhesion and friction of a multiwalled carbon nanotube sliding against single-walled carbon nanotube. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 67 |
| 2045 | Simple model of van der Waals interactions between two radially deformed single-wall carbon nanotubes. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 33 |
| 2046 | Abrupt self-termination of vertically aligned carbon nanotube growth. <i>Applied Physics Letters</i> , 2008, 92, . | 1.5 | 107 |
| 2047 | Entanglement and the Nonlinear Elastic Behavior of Forests of Coiled Carbon Nanotubes. <i>Physical Review Letters</i> , 2008, 100, 086807. | 2.9 | 42 |
| 2048 | Adhesion and friction between individual carbon nanotubes measured using force-versus-distance curves in atomic force microscopy. <i>Physical Review B</i> , 2008, 78, . | 1.1 | 37 |
| 2049 | Manipulation and Observation of Carbon Nanotubes in Water Using Microfluidic Chip Under Optical Microscope. , 2008, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2050 | P-153: Field Emission Properties of Dual Emitter in Planar Gate Structure. Digest of Technical Papers SID International Symposium, 2008, 39, 1777. | 0.1 | 0 |
| 2052 | Fabrication and characterisation of suspended carbon nanotube devices in liquid. International Journal of Nanotechnology, 2008, 5, 488. | 0.1 | 1 |
| 2053 | PLA nanocomposites: quantification of clay nanodispersion and reaction to fire. International Journal of Nanotechnology, 2008, 5, 683. | 0.1 | 26 |
| 2054 | Tensile and electrical properties of carbon nanotube yarns and knitted tubes in pure or composite form. International Journal of Technology Transfer and Commercialisation, 2008, 7, 258. | 0.2 | 4 |
| 2057 | Synthesis of Carbon Nanotubes, and the Effect on Thermal Stability in High-Impact Polystyrene. Australian Journal of Chemistry, 2008, 61, 72. | 0.5 | 7 |
| 2058 | Reactive Nanocolloids for Nanotechnologies and Microsystems. , 0, , 1-30. | | 2 |
| 2059 | Inductively coupled nanocomposite wireless strain and pH sensors. Smart Structures and Systems, 2008, 4, 531-548. | 1.9 | 46 |
| 2060 | Electroanalysis of NADH Using Conducting and Redox Active Polymer/Carbon Nanotubes Modified Electrodes-A Review. Sensors, 2008, 8, 739-766. | 2.1 | 123 |
| 2061 | Electrochemical Performance of a Carbon Nanotube/La-Doped TiO ₂ Nanocomposite and its Use for Preparation of an Electrochemical Nicotinic Acid Sensor. Sensors, 2008, 8, 7085-7096. | 2.1 | 13 |
| 2062 | Growth of self-aligned single-walled carbon nanotubes by laser-assisted chemical vapor deposition. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 2063 | Novel gas sensors based on carbon nanotube networks. Journal of Physics: Conference Series, 2008, 127, 012012. | 0.3 | 3 |
| 2064 | Scalable Assembly Method of Vertically-Suspended and Stretched Carbon Nanotube Network Devices for Nanoscale Electro-Mechanical Sensing Components. Nano Letters, 2008, 8, 4483-4487. | 4.5 | 32 |
| 2065 | Spatial structural sensing by carbon nanotube-based skins. , 2008, , . | | 2 |
| 2066 | Comparison of Mechanical Properties of Various Types of Carbon Nanotubes in Polypropylene Fiber. Research Journal of Textile and Apparel, 2008, 12, 80-86. | 0.6 | 1 |
| 2067 | Micro Electro Discharge Machining of Polymethylmethacrylate (PMMA)/Multi-Walled Carbon Nanotube (MWCNT) Nanocomposites. Advanced Composites Letters, 2008, 17, 096369350801700. | 1.3 | 7 |
| 2068 | Protein cages, rings and tubes: useful components of future nanodevices?. Nanotechnology, Science and Applications, 2008, Volume 1, 67-78. | 4.6 | 42 |
| 2069 | Preparation and Characterization of Polyurethane/Multiwalled Carbon Nanotube Composites. Polymers and Polymer Composites, 2008, 16, 501-507. | 1.0 | 28 |
| 2070 | Electrochemical Determination of Trace Sudan I Contamination in Chili Powder at Carbon Nanotube Modified Electrodes. Sensors, 2008, 8, 1890-1900. | 2.1 | 24 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2071 | The Study on the Microstructures and High Performances of Melt Blending Polyurethane/Multiwalled Carbon Nanotubes Composites. <i>Polymers and Polymer Composites</i> , 2008, 16, 509-518. | 1.0 | 11 |
| 2072 | Engineering Hybrid Nanotubes Wires for Efficient O ₂ Electroreduction in Physiological Conditions. <i>ECS Meeting Abstracts</i> , 2009, . , . | 0.0 | 0 |
| 2075 | EFFECTS OF INTERPHASE AND MATRIX PROPERTIES ON EFFECTIVE TENSILE ELASTIC MODULUS OF CARBON NANOTUBE-BASED COMPOSITE. <i>Journal of the Institution of Engineers, Bangladesh</i> , 2009, 40, 29-38. | 0.5 | 3 |
| 2077 | Obtenç~o de um revestimento comp~sito de poli~ster-uretana refor~ado com alumina pela t~cnica de deposi~o por imers~o sobre fibras de poliamida 6. <i>Ceramica</i> , 2009, 55, 379-384. | 0.3 | 2 |
| 2078 | Modifying the electronic structure of semiconducting single-walled carbon nanotubes by Ar ⁺ ion irradiation. <i>Physical Review B</i> , 2009, 79, . | 1.1 | 42 |
| 2079 | Dielectrophoretic and electrophoretic force analysis of colloidal fullerenes in a nematic liquid-crystal medium. <i>Physical Review E</i> , 2009, 80, 051702. | 0.8 | 21 |
| 2080 | Nearly-free-electron effective model for conducting nanotubes. <i>Physical Review B</i> , 2009, 79, . | 1.1 | 8 |
| 2081 | High Aspect Ratio Nanoparticles and the Fibre Pathogenicity Paradigm. , 0, , 61-79. | | 6 |
| 2082 | Effects of tube diameter and chirality on the stability of single-walled carbon nanotubes under ion irradiation. <i>Journal of Applied Physics</i> , 2009, 106, . | 1.1 | 17 |
| 2083 | Effective coarse-grained simulations of super-thick multi-walled carbon nanotubes under torsion. <i>Journal of Applied Physics</i> , 2009, 105, 033516. | 1.1 | 19 |
| 2084 | Potential Roles of ROS and NF-kappaB in TNF-alpha Release in Rat Alveolar Macrophages Exposed to Single-Walled Carbon Nanotubes. , 2009, , . | | 1 |
| 2085 | Transport properties in heterogeneous compacted granular media made of carbon nanotubes and potassium bromide. <i>Applied Physics Letters</i> , 2009, 94, . | 1.5 | 9 |
| 2086 | Field-Induced Self-Assembly of Suspended Colloidal Membranes. <i>Physical Review Letters</i> , 2009, 103, 228301. | 2.9 | 127 |
| 2087 | Gold Nanoparticles and Carbon Nanotubes: Precursors for Novel Composite Materials. , 0, , 249-295. | | 1 |
| 2088 | Plasma restructuring of catalysts for chemical vapor deposition of carbon nanotubes. <i>Journal of Applied Physics</i> , 2009, 105, 064304. | 1.1 | 22 |
| 2089 | Nonequilibrium Green's function study of $\langle mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle mml:mrow > \langle mml:mrow > \langle mml:msub > \langle mml:mrow > \langle mml:mtext > Pd / \langle mml:mtext > \langle mml:mrow > \langle mml:mn > 4 \langle mml:mn > \langle mml:msu$ carbon nanotubes as hydrogen sensors. <i>Physical Review B</i> , 2009, 79, . | 1.1 | 19 |
| 2090 | Diffusion mediated photoconduction in multiwalled carbon nanotube films. <i>Journal of Applied Physics</i> , 2009, 106, 074307. | 1.1 | 19 |
| 2091 | Novel method to extract arrays of aligned carbon nanotube bundles from CNT film using solder ball grid arrays for higher performance device interconnects. , 2009, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2092 | Transplanting assembly of carbon-nanotube-tipped atomic force microscope probes. Applied Physics Letters, 2009, 94, 193102. | 1.5 | 11 |
| 2093 | Detection of defective DNA in carbon nanotubes by combined molecular dynamics/tight-binding technique. Applied Physics Letters, 2009, 95, 113116. | 1.5 | 6 |
| 2094 | Buckling properties of carbon nanotubes under hydrostatic pressure. Journal of Applied Physics, 2009, 106, 084310. | 1.1 | 8 |
| 2095 | FUNCTIONALIZATION OF MULTI-WALLED CARBON NANOTUBES WITH CYSTEAMINE FOR THE CONSTRUCTION OF CNT/GOLD NANOPARTICLE HYBRID NANOSTRUCTURES. Surface Review and Letters, 2009, 16, 487-492. | 0.5 | 15 |
| 2096 | The performance volatility of carbon nanotube-based devices: Impact of ambient oxygen. Applied Physics Letters, 2009, 95, 123118. | 1.5 | 6 |
| 2097 | Screening the Missing Electron: Nanochemistry in Action. Physical Review Letters, 2009, 102, 046804. | 2.9 | 64 |
| 2098 | Self-Assembly and Growth of Smart Cell-Adhesive Mucin-Bound Microtubes. Soft Materials, 2009, 7, 21-36. | 0.8 | 14 |
| 2099 | Lateral carbon nanotube field emission devices for integrated electronics operating in harsh environments. , 2009, , . | | 0 |
| 2100 | Polarization-induced switching effect in graphene nanoribbon edge-defect junction. Journal of Chemical Physics, 2009, 131, 234706. | 1.2 | 8 |
| 2101 | Observation of Exciton-Phonon Sideband in Individual Metallic Single-Walled Carbon Nanotubes. Physical Review Letters, 2009, 102, 136406. | 2.9 | 15 |
| 2102 | Growth and field emission properties of one-dimensional carbon composite structure consisting of vertically aligned carbon nanotubes and nanocones. Journal Physics D: Applied Physics, 2009, 42, 035409. | 1.3 | 5 |
| 2103 | The role of surface species in chemical vapor deposited carbon nanotubes. Nanotechnology, 2009, 20, 115605. | 1.3 | 10 |
| 2104 | Synthesis of MWNT/PEDOT Composites for the Application of Organic Light Emitting Diodes. Molecular Crystals and Liquid Crystals, 2009, 514, 36/[366]-44/[374]. | 0.4 | 2 |
| 2105 | Untangling the electronic properties in highly similar multi-walled carbon nanotubes by terahertz spectroscopy. , 2009, , . | | 1 |
| 2106 | Characterization of the uncertainties in the constitutive behavior of carbon nanotube/cement composites. Science and Technology of Advanced Materials, 2009, 10, 045007. | 2.8 | 14 |
| 2107 | Dielectric monitoring of carbon nanotube network formation in curing thermosetting nanocomposites. Journal Physics D: Applied Physics, 2009, 42, 155402. | 1.3 | 17 |
| 2108 | Influence of MWCNTs Doping on the Structure and Properties of PEDOT:PSS Films. International Journal of Photoenergy, 2009, 2009, 1-5. | 1.4 | 32 |
| 2109 | Stochastic models of exciton dynamics in a 4- μ m long single air-suspended single-walled carbon nanotube. Proceedings of SPIE, 2009, , . | 0.8 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2110 | High-yield growth of vertically aligned carbon nanotubes on a continuously moving substrate. <i>Nanotechnology</i> , 2009, 20, 405611. | 1.3 | 42 |
| 2111 | Synthesis and Properties of Magnetic Composites of Carbon Nanotubes/Fe Nanoparticle. <i>Chinese Physics Letters</i> , 2009, 26, 116103. | 1.3 | 7 |
| 2112 | Synthesis and characterization of highly-ordered barium-strontium titanate nanotube arrays fabricated by sol-gel method. <i>Chinese Physics B</i> , 2009, 18, 3922-3927. | 0.7 | 4 |
| 2113 | Con_A-carbone nanotube conjugate with short wave near-infrared laser ablation for tumor therapy. , 2009, , . | | 2 |
| 2114 | Recent Developments in Nanoparticle Based Targeted Delivery of Chemotherapeutics. <i>Current Bioactive Compounds</i> , 2009, 5, 170-184. | 0.2 | 3 |
| 2115 | Improved field emission via laser processing of carbon nanotubes on paper substrates. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 1068. | 1.3 | 6 |
| 2116 | Empirical expression for the emission site density of nanotube film emitters. <i>Nanotechnology</i> , 2009, 20, 275206. | 1.3 | 17 |
| 2117 | MEMS-based carbon nanotube and carbon nanofiber Cu micro special electric contact. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 065001. | 1.5 | 5 |
| 2118 | Angle-Resolved Field Emission of Individual Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 072402. | 0.8 | 1 |
| 2119 | Buckling of carbon nanotubes at high temperatures. <i>Nanotechnology</i> , 2009, 20, 215702. | 1.3 | 46 |
| 2120 | Study of axial strain-induced torsion of single-wall carbon nanotubes using the 2D continuum anharmonic anisotropic elastic model. <i>New Journal of Physics</i> , 2009, 11, 113049. | 1.2 | 14 |
| 2121 | Nanostructures for Treating Musculoskeletal Conditions. <i>Current Bioactive Compounds</i> , 2009, 5, 185-194. | 0.2 | 3 |
| 2122 | Carbon nanotube coated high-throughput neurointerfaces in assistive environments. , 2009, , . | | 0 |
| 2123 | Carbon Nanotubes Based on Laterally Formed Anodic Aluminum Oxide Template. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 040204. | 0.8 | 2 |
| 2124 | Emission site density depending on surface area and morphology of nanotube film emitters. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 2435-2438. | 1.3 | 6 |
| 2125 | Improvement of the Properties of PC/LCP/MWCNT with or without Silane Coupling Agents. <i>Polymer-Plastics Technology and Engineering</i> , 2009, 48, 1107-1112. | 1.9 | 17 |
| 2126 | The Addition of Carbon Nanotube on the Tensile Properties of Carbon Fiber-Reinforced PEEK Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2009, 48, 1176-1179. | 1.9 | 8 |
| 2127 | Atomic Force Microscopy Observation of Membrane Proteins Suspended over Carbon Nanotube Network. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 08JB18. | 0.8 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2128 | Ideal dipole approximation fails to predict electronic coupling and energy transfer between semiconducting single-wall carbon nanotubes. <i>Journal of Chemical Physics</i> , 2009, 130, 081104. | 1.2 | 56 |
| 2129 | Analysis of the vibration characteristics of fluid-conveying double-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2009, 105, 094328. | 1.1 | 13 |
| 2130 | The effects of adding carbon nanotubes to the mechanical and tribological properties of a carbon fibre reinforced polyether ether ketone composite. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2009, 223, 2501-2507. | 1.1 | 15 |
| 2131 | Preparation of Aspect Ratio-Controlled Carbon Nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 510, 79/[1213]-86/[1220]. | 0.4 | 6 |
| 2132 | Carbon Nanotubesâ€™ Synthesis and Application. <i>Transactions of the Indian Ceramic Society</i> , 2009, 68, 163-172. | 0.4 | 10 |
| 2133 | Humidity Sensitivity of Multi-Walled Carbon Nanotube Networks Deposited by Dielectrophoresis. <i>Sensors</i> , 2009, 9, 1714-1721. | 2.1 | 112 |
| 2134 | Synthesis of Vertically Aligned Multi-Walled Carbon Nanotubes on Copper Substrates for Applications as Thermal Interface Materials. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1158, 1. | 0.1 | 2 |
| 2135 | Simulation Investigation on Optical and Electrical Properties of Carbon Nanotube in Terahertz Region. <i>Communications in Theoretical Physics</i> , 2009, 51, 161-164. | 1.1 | 3 |
| 2136 | Nanomaterials for Environmental Burden Reduction, Waste Treatment and Non-Point Source Pollution Control. , 2009, , 444-473. | | 0 |
| 2137 | Atomic layer deposition on gram quantities of multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2009, 20, 255602. | 1.3 | 94 |
| 2138 | Electrospun Polymer/MWCNTs Nanofiber Reinforced Composites â€œImprovement of Interfacial Bonding by Surface Modified Nanofibersâ€•. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1224, 1. | 0.1 | 0 |
| 2139 | Thermal Buckling of Carbon Nanotubes. <i>ECS Transactions</i> , 2009, 19, 7-12. | 0.3 | 4 |
| 2140 | Carbon Nanotube Yarn Actuators: An Electrochemical Impedance Model. <i>Journal of the Electrochemical Society</i> , 2009, 156, K97. | 1.3 | 25 |
| 2141 | Size- and density-controlled synthesis of TiO ₂ nanodots on a substrate by phase-separation-induced self-assembly. <i>Nanotechnology</i> , 2009, 20, 215605. | 1.3 | 27 |
| 2142 | Carbon Nanofibers from Pyrolysis Flame and Research on the Affecting Factors. <i>Advanced Materials Research</i> , 2009, 87-88, 98-103. | 0.3 | 0 |
| 2143 | A Study of Carbon Nanotubes as Cutting Grains for Nano Machining. <i>Advanced Materials Research</i> , 2009, 76-78, 502-507. | 0.3 | 13 |
| 2144 | Study on the Surface Modification and Dispersion of Multi-Walled Carbon Nanotubes. <i>Advanced Materials Research</i> , 2009, 79-82, 609-612. | 0.3 | 3 |
| 2145 | Structural and photoluminescence properties of laser processed ZnO/carbon nanotube nanohybrids. <i>Journal of Materials Research</i> , 2009, 24, 3313-3320. | 1.2 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2146 | Preparation of water-soluble multi-walled carbon nanotubes by Ce(IV)-induced redox radical polymerization. <i>Progress in Natural Science: Materials International</i> , 2009, 19, 991-996. | 1.8 | 25 |
| 2147 | Conductivity of films made from single-walled carbon nanotubes in terms of bundle diameter. <i>Scripta Materialia</i> , 2009, 60, 607-610. | 2.6 | 27 |
| 2148 | Polyaniline/MWCNT nanocomposites for microwave absorption and EMI shielding. <i>Materials Chemistry and Physics</i> , 2009, 113, 919-926. | 2.0 | 615 |
| 2149 | Synthesis and electrochemical properties of single-walled carbon nanotube/gold nanoparticle composites. <i>Materials Chemistry and Physics</i> , 2009, 114, 879-883. | 2.0 | 37 |
| 2150 | (301) and (101) RuO ₂ twins on nanostructural rutile TiO ₂ template. <i>Materials Chemistry and Physics</i> , 2009, 117, 544-549. | 2.0 | 4 |
| 2151 | A novel approach of in situ grafting polyamide 6 to the surface of multi-walled carbon nanotubes. <i>Materials Letters</i> , 2009, 63, 298-300. | 1.3 | 30 |
| 2152 | XANES study of phenylalanine and glycine adsorption on single-walled carbon nanotubes. <i>Materials Letters</i> , 2009, 63, 431-433. | 1.3 | 12 |
| 2153 | Effect of FeO _x loaded on CoO _x /Al ₂ O ₃ catalyst for the formation of thin-walled carbon nanotubes. <i>Materials Letters</i> , 2009, 63, 1428-1430. | 1.3 | 8 |
| 2154 | Time dependent piezoresistive behavior of polyvinylidene fluoride/carbon nanotube conductive composite. <i>Materials Letters</i> , 2009, 63, 1771-1773. | 1.3 | 29 |
| 2155 | Predicting the performance and reliability of future field programmable gate arrays routing architectures with carbon nanotube bundle interconnect. <i>IET Circuits, Devices and Systems</i> , 2009, 3, 64-75. | 0.9 | 15 |
| 2156 | Sensing of Damage Mechanisms in Fiber-Reinforced Composites under Cyclic Loading using Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2009, 19, 123-130. | 7.8 | 203 |
| 2157 | Rich Phase Behavior in a Supramolecular Conducting Material Derived from an Organogelator. <i>Advanced Functional Materials</i> , 2009, 19, 934-941. | 7.8 | 36 |
| 2158 | Fabrication and Optical Characteristics of Position-Controlled ZnO Nanotubes and ZnO/Zn _{0.8} Mg _{0.2} O Coaxial Nanotube Quantum Structure Arrays. <i>Advanced Functional Materials</i> , 2009, 19, 1601-1608. | 7.8 | 29 |
| 2159 | Electrochemically Tuned Properties for Electrolyte-Free Carbon Nanotube Sheets. <i>Advanced Functional Materials</i> , 2009, 19, 2266-2272. | 7.8 | 27 |
| 2160 | Synthesis of Microporous Carbon Nanofibers and Nanotubes from Conjugated Polymer Network and Evaluation in Electrochemical Capacitor. <i>Advanced Functional Materials</i> , 2009, 19, 2125-2129. | 7.8 | 172 |
| 2161 | Selective Electrochemical Etching of Single-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2009, 19, 3618-3624. | 7.8 | 30 |
| 2162 | Liquid-Phase Exfoliation of Nanotubes and Graphene. <i>Advanced Functional Materials</i> , 2009, 19, 3680-3695. | 7.8 | 588 |
| 2163 | Monitoring a Micromechanical Process in Macroscale Carbon Nanotube Films and Fibers. <i>Advanced Materials</i> , 2009, 21, 603-608. | 11.1 | 138 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2164 | Functional Covalent Chemistry of Carbon Nanotube Surfaces. <i>Advanced Materials</i> , 2009, 21, 625-642. | 11.1 | 238 |
| 2165 | A Facile Synthesis Approach to C ₈₀ -Functionalized Magnetic Carbonaceous Polysaccharide Microspheres for the Highly Efficient and Rapid Enrichment of Peptides and Direct MALDI-TOF-MS Analysis. <i>Advanced Materials</i> , 2009, 21, 2200-2205. | 11.1 | 73 |
| 2166 | Multifunctional Composites of Ceramics and Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2009, 21, 1767-1770. | 11.1 | 107 |
| 2167 | A New Method of Carbon Nanotube Patterning Using Reduction Potentials. <i>Advanced Materials</i> , 2009, 21, 1257-1260. | 11.1 | 16 |
| 2168 | Soft Langmuir-Blodgett Technique for Hard Nanomaterials. <i>Advanced Materials</i> , 2009, 21, 2959-2981. | 11.1 | 219 |
| 2169 | Micropatterned Carbon Nanotube-Gel Composite as Photothermal Material. <i>Advanced Materials</i> , 2009, 21, 2819-2823. | 11.1 | 21 |
| 2170 | Room-Temperature Gas Sensing Based on Electron Transfer between Discrete Tin Oxide Nanocrystals and Multiwalled Carbon Nanotubes. <i>Advanced Materials</i> , 2009, 21, 2487-2491. | 11.1 | 281 |
| 2171 | A Combined Process of In Situ Functionalization and Microwave Treatment to Achieve Ultrasmall Thermal Expansion of Aligned Carbon Nanotube-Polymer Nanocomposites: Toward Applications as Thermal Interface Materials. <i>Advanced Materials</i> , 2009, 21, 2421-2424. | 11.1 | 178 |
| 2172 | Hollow Micro/Nanomaterials with Multilevel Interior Structures. <i>Advanced Materials</i> , 2009, 21, 3621-3638. | 11.1 | 616 |
| 2173 | Graphitic Nanocapsules. <i>Advanced Materials</i> , 2009, 21, 4692-4695. | 11.1 | 0 |
| 2174 | The Use of Terahertz Spectroscopy as a Sensitive Probe in Discriminating the Electronic Properties of Structurally Similar Multi-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2009, 21, 3953-3957. | 11.1 | 32 |
| 2175 | Synthesis, Structure, and Properties of Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2009, 21, 4565-4583. | 11.1 | 123 |
| 2176 | Nanotube-Polymer Composites for Ultrafast Photonics. <i>Advanced Materials</i> , 2009, 21, 3874-3899. | 11.1 | 778 |
| 2177 | Crinkling Ultralong Carbon Nanotubes into Serpentine by a Controlled Landing Process. <i>Advanced Materials</i> , 2009, 21, 4158-4162. | 11.1 | 38 |
| 2178 | Three-dimensional Electrical Property Mapping with Nanometer Resolution. <i>Advanced Materials</i> , 2009, 21, 4915-4919. | 11.1 | 41 |
| 2181 | Synthesis of High-Quality, Double-Walled Carbon Nanotubes in a Fluidized Bed Reactor. <i>Chemical Engineering and Technology</i> , 2009, 32, 73-79. | 0.9 | 41 |
| 2182 | Cr(CO) ₃ -Activated Diels-Alder Reaction on Single-Wall Carbon Nanotubes: A DFT Investigation. <i>Chemistry - A European Journal</i> , 2009, 15, 4182-4189. | 1.7 | 8 |
| 2183 | Synthesis, Characterization, Redox Properties, and Photodynamics of Donor-Acceptor Nanohybrids Composed of Size-Controlled Cup-Shaped Nanocarbons and Porphyrins. <i>Chemistry - A European Journal</i> , 2009, 15, 9160-9168. | 1.7 | 17 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2184 | Hydrogen Storage Mediated by Pd and Pt Nanoparticles. <i>ChemPhysChem</i> , 2009, 10, 2566-2576. | 1.0 | 188 |
| 2185 | A New Class of Boron Nanotube. <i>ChemPhysChem</i> , 2009, 10, 3119-3121. | 1.0 | 19 |
| 2186 | The Use of Natural Materials in Nanocarbon Synthesis. <i>ChemSusChem</i> , 2009, 2, 1009-1020. | 3.6 | 86 |
| 2187 | Enhanced Field Electron Emission Properties of Hybrid Carbon Nanotubes Synthesized by RF-PECVD. <i>Chemical Vapor Deposition</i> , 2009, 15, 291-295. | 1.4 | 3 |
| 2188 | Nanocomposite Films Obtained by Electrochemical Codeposition of Conducting Polymers and Carbon Nanotubes. <i>Electroanalysis</i> , 2009, 21, 557-562. | 1.5 | 27 |
| 2189 | Redox Couple of DNA on Multiwalled Carbon Nanotube Modified Electrode. <i>Electroanalysis</i> , 2009, 21, 1641-1645. | 1.5 | 0 |
| 2190 | Direct Electron Transfer of Horseradish Peroxidase in Gellan Gum Hydrophilic Ionic Liquid Gel Film. <i>Electroanalysis</i> , 2009, 21, 1469-1474. | 1.5 | 31 |
| 2191 | Electroanalysis of Dopamine at RuO ₂ Modified Vertically Aligned Carbon Nanotube Electrode. <i>Electroanalysis</i> , 2009, 21, 1811-1815. | 1.5 | 44 |
| 2192 | Carbon nanotube/poly(ethylene vinyl acetate) composite electrode for capillary electrophoretic determination of esculin and esculetin in <i>Cortex Fraxini</i> . <i>Electrophoresis</i> , 2009, 30, 3419-3426. | 1.3 | 39 |
| 2193 | On the use of symmetry in the <i>ab initio</i> quantum mechanical simulation of nanotubes and related materials. <i>Journal of Computational Chemistry</i> , 2010, 31, 855-862. | 1.5 | 48 |
| 2194 | Pyrene Containing Polymers for the Non-Covalent Functionalization of Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1528-1535. | 1.1 | 43 |
| 2195 | In situ Preparation of Polyimide Composites Based on Functionalized Carbon Nanotubes. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 96-102. | 1.7 | 37 |
| 2196 | High-Performance Carbon Nanotube-Reinforced Bioplastic. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 839-846. | 1.7 | 14 |
| 2197 | Plasma Functionalization of Multiwalled Carbon Nanotube Bucky Papers and the Effect on Properties of Melt-Mixed Composites with Polycarbonate. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1828-1833. | 2.0 | 31 |
| 2198 | Polymer-Infiltrated Aligned Carbon Nanotube Fibers by in situ Polymerization. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1936-1939. | 2.0 | 22 |
| 2199 | Tip-enhanced Raman spectroscopy of carbon nanotubes. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1420-1426. | 1.2 | 122 |
| 2200 | Efficient Separation of (6,5)-Single-Walled Carbon Nanotubes Using a Nanometal Sinkers. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5435-5438. | 7.2 | 21 |
| 2201 | Functionalization of Carbon Nanotubes by an Ionic-Liquid Polymer: Dispersion of Pt and PtRu Nanoparticles on Carbon Nanotubes and Their Electrocatalytic Oxidation of Methanol. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4751-4754. | 7.2 | 387 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2202 | Role of peptide-peptide interactions in stabilizing peptide-wrapped single-walled carbon nanotubes: A molecular dynamics study. <i>Biopolymers</i> , 2009, 92, 156-163. | 1.2 | 32 |
| 2203 | Influence of alternating L-D amino acid chiralities and disulfide bond geometry on the capacity of cysteine-containing reversible cyclic peptides to disperse carbon nanotubes. <i>Biopolymers</i> , 2009, 92, 212-221. | 1.2 | 9 |
| 2204 | Multiwalled carbon nanotube nucleated crystallization behavior of biodegradable poly(butylene) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 6 | 1.3 | 39 |
| 2205 | Thermal degradation behavior of styrene-butadiene-styrene tri-block copolymer/multiwalled carbon nanotubes composites. <i>Journal of Applied Polymer Science</i> , 2009, 112, 524-531. | 1.3 | 33 |
| 2206 | Enhancement of the surface and bulk mechanical properties of polystyrene through the incorporation of raw multiwalled nanotubes with the twin-screw mixing technique. <i>Journal of Applied Polymer Science</i> , 2009, 113, 992-999. | 1.3 | 16 |
| 2207 | Conductivity and mechanical properties of composites based on MWCNTs and styrene-butadiene-styrene block copolymers. <i>Journal of Applied Polymer Science</i> , 2009, 112, 3241-3248. | 1.3 | 53 |
| 2208 | Monitoring cure in epoxies containing carbon nanotubes with an optical-fiber Fresnel refractometer. <i>Journal of Applied Polymer Science</i> , 2009, 113, 730-735. | 1.3 | 19 |
| 2209 | Facile way to disperse single-walled carbon nanotubes using a noncovalent method and their reinforcing effect in poly(methyl methacrylate) composites. <i>Journal of Applied Polymer Science</i> , 2009, 114, 3414-3419. | 1.3 | 15 |
| 2210 | Aminofunctionalization effect on the microtribological behavior of carbon nanotube/bismaleimide nanocomposites. <i>Journal of Applied Polymer Science</i> , 2009, 113, 3484-3491. | 1.3 | 11 |
| 2211 | Preparation and characterization of nylon610/functionalized multiwalled carbon nanotubes composites. <i>Journal of Applied Polymer Science</i> , 2009, 113, 2805-2812. | 1.3 | 10 |
| 2212 | Carbon nanotube clusters as universal bacterial adsorbents and magnetic separation agents. <i>Biotechnology Progress</i> , 2010, 26, 179-185. | 1.3 | 16 |
| 2213 | Characterization and sensing properties of a carbon nanotube paste electrode for acetaminophen. <i>Mikrochimica Acta</i> , 2009, 167, 129-133. | 2.5 | 22 |
| 2214 | Surface functionalization of multiwalled carbon nanotubes with poly(3,4-propylenedioxythiophene) and preparation of its random copolymers: new hybrid materials. <i>Colloid and Polymer Science</i> , 2009, 287, 97-102. | 1.0 | 25 |
| 2215 | Buckling of single layer graphene sheet based on nonlocal elasticity and higher order shear deformation theory. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4182-4188. | 0.9 | 185 |
| 2216 | Î±-Pyrene polymer functionalized multiwalled carbon nanotubes: Solubility, stability and depletion phenomena. <i>Polymer</i> , 2009, 50, 154-160. | 1.8 | 63 |
| 2217 | Carbon nanotube induced polymer crystallization: The formation of nanohybrid shish-kebabs. <i>Polymer</i> , 2009, 50, 953-965. | 1.8 | 234 |
| 2218 | Electrochemical properties and actuation mechanisms of actuators using carbon nanotube-ionic liquid gel. <i>Sensors and Actuators B: Chemical</i> , 2009, 139, 624-630. | 4.0 | 90 |
| 2219 | Applications of carbon materials in photovoltaic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1461-1470. | 3.0 | 318 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2220 | Novel attributes in the performance and scaling effects of carbon nanotube field-effect transistors with halo doping. Superlattices and Microstructures, 2009, 45, 535-546. | 1.4 | 18 |
| 2221 | Preparation and study on radar-absorbing materials of cupric oxide-nanowire-covered carbon fibers. Applied Surface Science, 2009, 255, 4916-4920. | 3.1 | 47 |
| 2222 | Integration and characterization of aligned carbon nanotubes on metal/silicon substrates and effects of water. Applied Surface Science, 2009, 255, 5003-5008. | 3.1 | 18 |
| 2223 | Synthesis, characterization and cytotoxicity of surface amino-functionalized water-dispersible multi-walled carbon nanotubes. Applied Surface Science, 2009, 255, 8067-8075. | 3.1 | 150 |
| 2224 | Carbon nanotubes/magnetite hybrids prepared by a facile synthesis process and their magnetic properties. Applied Surface Science, 2009, 255, 8676-8681. | 3.1 | 34 |
| 2225 | Layer-by-layer assembled carbon nanotube films with molecule recognition function and lower capacitive background current. Bioelectrochemistry, 2009, 74, 289-294. | 2.4 | 13 |
| 2226 | Carbon nanotube-hydroxyapatite nanocomposite: A novel platform for glucose/O ₂ biofuel cell. Biosensors and Bioelectronics, 2009, 25, 463-468. | 5.3 | 71 |
| 2227 | Surface modification of multi-walled carbon nanotubes by radiation-induced graft polymerization. Current Applied Physics, 2009, 9, S85-S87. | 1.1 | 20 |
| 2228 | Dispersity and stability measurements of functionalized multiwalled carbon nanotubes in organic solvents. Current Applied Physics, 2009, 9, e100-e103. | 1.1 | 18 |
| 2229 | Processing, characterization, and modeling of carbon nanotube-reinforced multiscale composites. Composites Science and Technology, 2009, 69, 335-342. | 3.8 | 317 |
| 2230 | Electrical, rheological and morphological studies in co-continuous blends of polyamide 6 and acrylonitrile-butadiene-styrene with multiwall carbon nanotubes prepared by melt blending. Composites Science and Technology, 2009, 69, 365-372. | 3.8 | 193 |
| 2231 | Synthesis and characterization of conductive polypyrrole/multi-walled carbon nanotubes composites with improved solubility and conductivity. Composites Science and Technology, 2009, 69, 639-644. | 3.8 | 150 |
| 2232 | Effect of carbon nanotubes on the interfacial shear strength of T650 carbon fiber in an epoxy matrix. Composites Science and Technology, 2009, 69, 898-904. | 3.8 | 358 |
| 2233 | Layer-by-layer assembled DNA-functionalized single-walled carbon nanotube hybrids-modified electrodes for 2,4,6-trinitrotoluene detection. Journal of Electroanalytical Chemistry, 2009, 637, 1-5. | 1.9 | 11 |
| 2234 | Investigation of the mechanical properties of the Ni-P-CNTs coated copper composite materials: Experiments and modeling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 500, 182-187. | 2.6 | 16 |
| 2235 | Angular distributions of high energy protons channeled in long (10,10) single-wall carbon nanotubes. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2365-2368. | 0.6 | 8 |
| 2236 | Aligned carbon nanotube thin films for DNA electrochemical sensing. Electrochimica Acta, 2009, 54, 5035-5041. | 2.6 | 52 |
| 2237 | Electrochemical sensing platform based on tris(2,2'-bipyridyl)cobalt(III) and multiwall carbon nanotubes-Nafion composite for immunoassay of carcinoma antigen-125. Electrochimica Acta, 2009, 54, 7242-7247. | 2.6 | 47 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2238 | Carbon nanotube-modified glassy carbon electrode for anodic stripping voltammetric detection of Uranyl. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 65-70. | 1.5 | 28 |
| 2239 | Evaluation and visualization of the percolating networks in multi-wall carbon nanotube/epoxy composites. <i>Journal of Materials Science</i> , 2009, 44, 4003-4012. | 1.7 | 113 |
| 2240 | Confined palladium colloids in mesoporous frameworks for carbon nanotube growth. <i>Journal of Materials Science</i> , 2009, 44, 6563-6570. | 1.7 | 9 |
| 2241 | The effect of acidic treatment on the lithium storage capacity of multi-walled carbon nanotubes. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 709-712. | 1.1 | 7 |
| 2242 | Fabrication, characterization and vapor-induced electroresponsive behavior of P(St-alt-MA)/MWCNT conductive nanocomposite films. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 761-770. | 1.1 | 6 |
| 2243 | Plasma treatment effects on surface morphology and field emission characteristics of carbon nanotubes. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 851-857. | 1.1 | 20 |
| 2244 | Tensile and tribological properties of a short-carbon-fiber-reinforced peek composite doped with carbon nanotubes. <i>Mechanics of Composite Materials</i> , 2009, 45, 495-502. | 0.9 | 6 |
| 2245 | Microwave-assisted functionalization of single-walled carbon nanotubes with 3-chloropropene. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1201-1208. | 0.8 | 17 |
| 2246 | Activity of Nitrogen Containing Carbon Nanotubes in Base Catalyzed Knoevenagel Condensation. <i>Topics in Catalysis</i> , 2009, 52, 1575-1583. | 1.3 | 42 |
| 2247 | Nanomaterials for environmental burden reduction, waste treatment, and nonpoint source pollution control: a review. <i>Frontiers of Environmental Science and Engineering in China</i> , 2009, 3, 249-264. | 0.8 | 60 |
| 2248 | Preparation of polystyrene-grafted titanate nanotubes by in situ atom transfer radical polymerization. <i>Science in China Series B: Chemistry</i> , 2009, 52, 344-350. | 0.8 | 5 |
| 2249 | Di-electrophoresis assembly and fabrication of SWCNT field-effect transistor. <i>Science Bulletin</i> , 2009, 54, 4451-4457. | 4.3 | 9 |
| 2250 | Enhancing Solar Cell Efficiencies through 1-D Nanostructures. <i>Nanoscale Research Letters</i> , 2009, 4, . | 3.1 | 259 |
| 2251 | Improved Electromagnetic Interference Shielding Properties of MWCNT/PMMA Composites Using Layered Structures. <i>Nanoscale Research Letters</i> , 2009, 4, 327-34. | 3.1 | 208 |
| 2252 | Considerable Enhancement of Field Emission of SnO ₂ Nanowires by Post-Annealing Process in Oxygen at High Temperature. <i>Nanoscale Research Letters</i> , 2009, 4, 1135-1140. | 3.1 | 10 |
| 2253 | Electrochemical preparation and electrochemical behavior of polypyrrole/carbon nanotube composite films. <i>Frontiers of Materials Science in China</i> , 2009, 3, 194-200. | 0.5 | 5 |
| 2254 | Photo-mechanical actuation of carbon nanotubes: mechanisms and applications in micro and nano-devices. <i>Journal of Micro-Nano Mechatronics</i> , 2009, 5, 29-41. | 1.0 | 22 |
| 2255 | CO dissociation and CO+O reactions on a nanosized iron cluster. <i>Nano Research</i> , 2009, 2, 660-670. | 5.8 | 40 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2256 | Milestones in molecular dynamics simulations of single-walled carbon nanotube formation: A brief critical review. Nano Research, 2009, 2, 755. | 5.8 | 52 |
| 2257 | Synthesis and characterization of yttrium hydroxide and oxide microtubes. Rare Metals, 2009, 28, 445-448. | 3.6 | 14 |
| 2258 | A New Technique for Coating Silicon Carbide Onto Carbon Nanotubes Using a Polycarbosilane Precursor. Silicon, 2009, 1, 125-129. | 1.8 | 20 |
| 2259 | Enzyme-functionalized mesoporous silica for bioanalytical applications. Analytical and Bioanalytical Chemistry, 2009, 393, 543-554. | 1.9 | 203 |
| 2260 | Preparation, properties and application of polyamide/carbon nanotube nanocomposites. Macromolecular Research, 2009, 17, 207-217. | 1.0 | 32 |
| 2261 | Thermal stability of catalytically grown multi-walled carbon nanotubes observed in transmission electron microscopy. Applied Physics A: Materials Science and Processing, 2009, 94, 247-251. | 1.1 | 3 |
| 2262 | Carbon nanotube in different shapes. Materials Today, 2009, 12, 12-18. | 8.3 | 224 |
| 2263 | Current transport modeling of carbon nanotube field effect transistors. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1569-1578. | 0.8 | 19 |
| 2264 | Shear-stimulated formation of multi-wall carbon nanotube networks in polymer melts. Physica Status Solidi (B): Basic Research, 2009, 246, 2453-2456. | 0.7 | 55 |
| 2265 | Spatial decorrelation of the conductive nanotube network in a polymer melt. Physica Status Solidi (B): Basic Research, 2009, 246, 2667-2670. | 0.7 | 7 |
| 2266 | Mass separation of metallic and semiconducting single-wall carbon nanotubes using agarose gel. Physica Status Solidi (B): Basic Research, 2009, 246, 2490-2493. | 0.7 | 23 |
| 2267 | Raman response of FeCl ₃ intercalated single-wall carbon nanotubes at high doping. Physica Status Solidi (B): Basic Research, 2009, 246, 2732-2736. | 0.7 | 25 |
| 2268 | Preparation and characterization of alkylated carbon nanotube/polyimide nanocomposites. Polymer International, 2009, 58, 557-563. | 1.6 | 26 |
| 2269 | Lyotropic Liquid-Crystalline Solutions of High-Concentration Dispersions of Single-Walled Carbon Nanotubes with Conjugated Polymers. Small, 2009, 5, 1019-1024. | 5.2 | 55 |
| 2270 | Water-Soluble DNA-Wrapped Single-Walled Carbon-Nanotube/Quantum-Dot Complexes. Small, 2009, 5, 2149-2155. | 5.2 | 38 |
| 2271 | Wrapping Nanotubes with Micelles, Hemimicelles, and Cylindrical Micelles. Small, 2009, 5, 2191-2198. | 5.2 | 77 |
| 2272 | Single-Walled Carbon-Nanotube Dispersion with Electrostatically Tethered Nanoplatelets. Small, 2009, 5, 2692-2697. | 5.2 | 21 |
| 2273 | A Self-Assembled Protein Nanotube with High Aspect Ratio. Small, 2009, 5, 2077-2084. | 5.2 | 73 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2274 | Flexible High-Conductivity Carbon Nanotube Interconnects Made by Rolling and Printing. <i>Small</i> , 2009, 5, 2467-2473. | 5.2 | 110 |
| 2275 | Length Distribution of Single-Walled Carbon Nanotubes in Aqueous Suspension Measured by Electro spray Differential Mobility Analysis. <i>Small</i> , 2009, 5, 2894-2901. | 5.2 | 40 |
| 2276 | Improved microhardness and microtribological properties of bismaleimide nanocomposites obtained by enhancing interfacial interaction through carbon nanotube functionalization. <i>Polymers for Advanced Technologies</i> , 2009, 20, 849-856. | 1.6 | 13 |
| 2277 | Synthesis and properties of the amino-functionalized multiple-walled carbon nanotubes/polyimide nanocomposites. <i>Polymer Composites</i> , 2009, 30, 374-380. | 2.3 | 19 |
| 2278 | Preparation and mechanical properties of waterborne polyurethane/carbon nanotube composites. <i>Polymer Composites</i> , 2009, 30, 649-654. | 2.3 | 22 |
| 2279 | Photodegradation of EPDM/MWCNT nanocomposites: Effect of singlet oxygen. <i>Polymer Composites</i> , 2009, 30, 855-860. | 2.3 | 8 |
| 2280 | Synthesis and characterization of multiwalled carbon nanotubes/polymethyl methacrylate composites prepared by in situ polymerization method. <i>Polymer Composites</i> , 2009, 30, 1312-1317. | 2.3 | 38 |
| 2281 | Fabrication and properties of clay-supported carbon nanotube/poly (vinyl alcohol) nanocomposites. <i>Polymer Composites</i> , 2009, 30, 702-707. | 2.3 | 21 |
| 2282 | Influence of carbon nanotube dispersion on the mechanical properties of phenolic resin composites. <i>Polymer Composites</i> , 2010, 31, 321-327. | 2.3 | 17 |
| 2283 | Organic functionalization of carbon nanofibers for composite applications. <i>Polymer Composites</i> , 2010, 31, 369-376. | 2.3 | 6 |
| 2284 | Influence of multiwall carbon nanotubes on the mechanical properties and unusual crystallization behavior in melt-mixed co-continuous blends of polyamide6 and acrylonitrile butadiene styrene. <i>Polymer Engineering and Science</i> , 2009, 49, 1533-1543. | 1.5 | 49 |
| 2285 | Pressure effects on the structural, electronic, and optical properties of Si _n @SWCNTs. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 1385-1395. | 1.0 | 2 |
| 2286 | Large-compound vesicle-encapsulated multiwalled carbon nanotubes: A unique route to nanotube composites. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3669-3679. | 2.5 | 12 |
| 2287 | A non-PFT (polymerization filling technique) approach to poly(ethylene-co-norbornene)/MWNTs nanocomposites by <i>in situ</i> copolymerization with scandium half-sandwich catalyst. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5709-5719. | 2.5 | 16 |
| 2288 | Grafting of aldehyde structures to single-walled carbon nanotubes for application in phenolic resin-based composites. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6135-6144. | 2.5 | 8 |
| 2289 | Thermal degradation and kinetic analysis of biodegradable PBS/multiwalled carbon nanotube nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1231-1239. | 2.4 | 30 |
| 2290 | Preparation and characterization of multiwalled carbon nanotube dispersions in polypropylene: Melt mixing versus solid-state shear pulverization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1426-1436. | 2.4 | 41 |
| 2291 | Effective <i>in situ</i> synthesis and characteristics of polystyrene nanoparticle-covered multiwall carbon nanotube composite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1523-1529. | 2.4 | 17 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2292 | An XANES study on the modification of single-walled carbon nanotubes by nitric acid. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 428-431. | 1.0 | 4 |
| 2293 | DNA sequence motifs for structure-specific recognition and separation of carbon nanotubes. <i>Nature</i> , 2009, 460, 250-253. | 13.7 | 996 |
| 2294 | Linking catalyst composition to chirality distributions of as-grown single-walled carbon nanotubes by tuning Ni _x Fe _{1-x} nanoparticles. <i>Nature Materials</i> , 2009, 8, 882-886. | 13.3 | 413 |
| 2295 | Substrate-induced array of quantum dots in a single-walled carbon nanotube. <i>Nature Nanotechnology</i> , 2009, 4, 567-570. | 15.6 | 22 |
| 2296 | Self-assembled arrays of peptide nanotubes by vapour deposition. <i>Nature Nanotechnology</i> , 2009, 4, 849-854. | 15.6 | 372 |
| 2297 | Alternating patterns on single-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2009, 4, 358-362. | 15.6 | 129 |
| 2298 | Developing U.S. Oversight Strategies for Nanobiotechnology: Learning from Past Oversight Experiences. <i>Journal of Law, Medicine and Ethics</i> , 2009, 37, 688-705. | 0.4 | 20 |
| 2299 | Nucleate boiling heat transfer in aqueous solutions with carbon nanotubes up to critical heat fluxes. <i>International Journal of Multiphase Flow</i> , 2009, 35, 525-532. | 1.6 | 108 |
| 2300 | Voltammetric determination of ethamsylate in bulk solution and pharmaceutical tablet by nano-material composite-film coated electrode. <i>Materials Science and Engineering C</i> , 2009, 29, 2442-2447. | 3.8 | 6 |
| 2301 | Optical response of small-diameter semiconducting carbon nanotubes under exciton-surface-plasmon coupling. <i>Optics Communications</i> , 2009, 282, 661-665. | 1.0 | 17 |
| 2302 | Bienzyme system for the biocatalyzed deposition of polyaniline templated by multiwalled carbon nanotubes: A biosensor design. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1621-1628. | 5.3 | 58 |
| 2303 | Influence of microstructure on the capacitive performance of polyaniline/carbon nanotube array composite electrodes. <i>Electrochimica Acta</i> , 2009, 54, 1153-1159. | 2.6 | 155 |
| 2304 | Amperometric tyrosinase biosensor based on Fe ₃ O ₄ nanoparticles-coated carbon nanotubes nanocomposite for rapid detection of coliforms. <i>Electrochimica Acta</i> , 2009, 54, 2588-2594. | 2.6 | 102 |
| 2305 | A novel hydrazine electrochemical sensor based on a carbon nanotube-wired ZnO nanoflower-modified electrode. <i>Electrochimica Acta</i> , 2009, 55, 178-182. | 2.6 | 201 |
| 2306 | Storage of hydrogen in nanostructured carbon materials. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 3784-3798. | 3.8 | 395 |
| 2307 | Erbium bisphthalocyanine nanowires by electrophoretic deposition: Morphology control and optical properties. <i>Thin Solid Films</i> , 2009, 517, 2099-2105. | 0.8 | 8 |
| 2308 | Potential applicability of CNT and CNT/composites to implement ASEC concept: A review article. <i>Solar Energy</i> , 2009, 83, 1379-1389. | 2.9 | 42 |
| 2309 | Activated Cu catalysts for alcohol CVD synthesized non-magnetic bamboo-like carbon nanotubes and branched bamboo-like carbon nanotubes. <i>Superlattices and Microstructures</i> , 2009, 46, 374-378. | 1.4 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2310 | Achieving uniform field emission from carbon nanotube composite cold cathode with different carbon nanotube contents: Effects of conductance and plasma treatment. <i>Ultramicroscopy</i> , 2009, 109, 390-394. | 0.8 | 7 |
| 2311 | Sonophotocatalytic degradation of methyl orange by carbon nanotube/TiO ₂ in aqueous solutions. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 205-208. | 3.8 | 50 |
| 2312 | The assemble of the multi-wall carbon nanotubes on the surface of C18 and its electrochemiluminescence analytical application. <i>Journal of Electroanalytical Chemistry</i> , 2009, 625, 47-52. | 1.9 | 5 |
| 2313 | A high resolution XPS study of sidewall functionalized MWCNTs by fluorination. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 66-71. | 2.9 | 114 |
| 2314 | Vertically aligned multi-walled carbon nanotube growth on platinum electrodes for bio-impedance applications. <i>Microelectronic Engineering</i> , 2009, 86, 806-808. | 1.1 | 19 |
| 2315 | Investigation of growth properties of patterned and aligned carbon nanotubes for field emitter. <i>Microelectronic Engineering</i> , 2009, 86, 2236-2240. | 1.1 | 2 |
| 2316 | Controllable fabrication of carbon nanotube-polymer hybrid thin film for strain sensing. <i>Microelectronic Engineering</i> , 2009, 86, 2330-2333. | 1.1 | 100 |
| 2317 | A highly reactive catalyst for CO oxidation: CeO ₂ nanotubes synthesized using carbon nanotubes as removable templates. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 193-200. | 2.2 | 81 |
| 2318 | Improvement of flexure strength and fracture toughness in alumina matrix composites reinforced with carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 517, 293-299. | 2.6 | 48 |
| 2319 | Deposition and meniscus alignment of DNA@CNT on a substrate. <i>Journal of Colloid and Interface Science</i> , 2009, 330, 255-265. | 5.0 | 16 |
| 2320 | Decoration of multiwalled carbon nanotubes with CoO and NiO nanoparticles and studies of their magnetism properties. <i>Journal of Colloid and Interface Science</i> , 2009, 337, 272-277. | 5.0 | 22 |
| 2321 | Structures, electronic properties, and hydrogen-storage capacity of single-walled TiO ₂ nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 838-842. | 1.3 | 48 |
| 2322 | The effect of the catalyst metals on the thermal-oxidative stability of single-walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1591-1595. | 1.3 | 7 |
| 2323 | Ultra-long carbon nanotube growth on catalyst. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1723-1726. | 1.3 | 9 |
| 2324 | Small scale effect on vibration of embedded multilayered graphene sheets based on nonlocal continuum models. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 1062-1069. | 0.9 | 256 |
| 2325 | Preparation, properties and cytotoxicity evaluation of a biodegradable polyester elastomer composite. <i>Polymer Degradation and Stability</i> , 2009, 94, 1427-1435. | 2.7 | 54 |
| 2326 | Spatial statistics of carbon nanotube polymer composites. <i>Polymer</i> , 2009, 50, 2123-2132. | 1.8 | 78 |
| 2327 | Temperature-sensitive and highly water-soluble titanate nanotubes. <i>Polymer</i> , 2009, 50, 2572-2577. | 1.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2328 | The synthesis of functionalized carbon nanotubes by hyperbranched poly(amine-ester) with liquid-like behavior at room temperature. <i>Polymer</i> , 2009, 50, 2953-2957. | 1.8 | 47 |
| 2329 | Formation of polymer/carbon nanotubes nano-hybrid shishâ€œkebab via non-isothermal crystallization. <i>Polymer</i> , 2009, 50, 3835-3840. | 1.8 | 72 |
| 2330 | Fabrication of hybrid nanocomposites with polystyrene and multiwalled carbon nanotubes with well-defined polystyrene via multiple atom transfer radical polymerization. <i>Polymer</i> , 2009, 50, 4488-4495. | 1.8 | 40 |
| 2331 | Nanotubes as polymers. <i>Polymer</i> , 2009, 50, 4979-4997. | 1.8 | 182 |
| 2332 | One pot synthesis of multiwalled carbon nanotubes reinforced polybenzimidazole hybrids: Preparation, characterization and properties. <i>Polymer</i> , 2009, 50, 5987-5995. | 1.8 | 36 |
| 2333 | The effect of arylferrocene ring substituents on the synthesis of multi-walled carbon nanotubes. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 2222-2227. | 0.8 | 10 |
| 2334 | Growth and characterization of pyrene crystals on carbon nanofibers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 206, 148-154. | 2.0 | 2 |
| 2335 | High performance electrochemical capacitors from aligned carbon nanotube electrodes and ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2009, 189, 1270-1277. | 4.0 | 336 |
| 2336 | Nonlocal elasticity theory for vibration of nanoplates. <i>Journal of Sound and Vibration</i> , 2009, 325, 206-223. | 2.1 | 356 |
| 2337 | Strategies exploiting functions and self-assembly properties of bioconjugates for polymer and materials sciences. <i>Progress in Polymer Science</i> , 2009, 34, 811-851. | 11.8 | 192 |
| 2338 | Ground state C2 density measurement in carbon plume using laser-induced fluorescence spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 986-992. | 1.5 | 4 |
| 2339 | A review of carbon nanotube purification by microwave assisted acid digestion. <i>Separation and Purification Technology</i> , 2009, 66, 209-222. | 3.9 | 114 |
| 2340 | Synthesis, microstructure and electrical conductivity of carbon nanotubeâ€œalumina nanocomposites. <i>Ceramics International</i> , 2009, 35, 1775-1781. | 2.3 | 67 |
| 2341 | Industrially scalable process to separate catalyst substrate materials from MWNTs synthesised by fluidised-bed CVD on iron/alumina catalysts. <i>Chemical Engineering Science</i> , 2009, 64, 1511-1521. | 1.9 | 17 |
| 2342 | Dispersions, novel nanomaterial sensors and nanoconjugates based on carbon nanotubes. <i>Advances in Colloid and Interface Science</i> , 2009, 150, 63-89. | 7.0 | 92 |
| 2343 | Dispersing carbon nanotubes using surfactants. <i>Current Opinion in Colloid and Interface Science</i> , 2009, 14, 364-371. | 3.4 | 221 |
| 2344 | Electrospun nanofibers as a platform for multifunctional, hierarchically organized nanocomposite. <i>Composites Science and Technology</i> , 2009, 69, 1804-1817. | 3.8 | 219 |
| 2345 | Synthesis and characterization of externally doped sulfonated polyaniline/multi-walled carbon nanotube composites. <i>Composites Science and Technology</i> , 2009, 69, 2559-2565. | 3.8 | 56 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2346 | Simultaneous production of hydrogen and multi-walled carbon nanotubes by ethanol decomposition over Ni/Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 142-151. | 10.8 | 46 |
| 2347 | Controllable synthesis and highly efficient electrocatalytic oxidation performance of SnO ₂ /CNT core-shell structures. <i>Applied Surface Science</i> , 2009, 255, 4907-4912. | 3.1 | 26 |
| 2348 | Coating of carbon nanotubes on flexible substrate and its adhesion study. <i>Applied Surface Science</i> , 2009, 255, 7084-7089. | 3.1 | 56 |
| 2349 | Synthesis and characterizations of AgSCN nanospheres using AgCl as the precursor. <i>Applied Surface Science</i> , 2009, 255, 9323-9326. | 3.1 | 9 |
| 2350 | The effects of UV/ozone treatments on the electrical transport behavior of single-walled carbon nanotube arrays. <i>Chemical Physics Letters</i> , 2009, 474, 158-161. | 1.2 | 16 |
| 2351 | Electronic structure and luminescence center of blue luminescent carbon nanocrystals. <i>Chemical Physics Letters</i> , 2009, 474, 320-324. | 1.2 | 49 |
| 2352 | Rheological and electrical percolation in melt-processed poly(ether ether ketone)/multi-wall carbon nanotube composites. <i>Chemical Physics Letters</i> , 2009, 482, 105-109. | 1.2 | 44 |
| 2353 | Preparation and electrochemical performance for methanol oxidation of pt/graphene nanocomposites. <i>Electrochemistry Communications</i> , 2009, 11, 846-849. | 2.3 | 675 |
| 2354 | Direct electrochemistry and electrocatalysis of hemoglobin immobilized in poly(ethylene glycol) grafted multi-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2009, 54, 7078-7084. | 2.6 | 53 |
| 2355 | Nanostructured materials for electrochemiluminescence (ECL)-based detection methods: Recent advances and future perspectives. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3191-3200. | 5.3 | 321 |
| 2356 | Selective placement of single-walled carbon nanotubes on pre-defined micro-patterns on SiO ₂ surface based on a dry lift-off technique. <i>Current Applied Physics</i> , 2009, 9, S38-S42. | 1.1 | 1 |
| 2357 | Characterisation of carbon nanotube films deposited by electrophoretic deposition. <i>Carbon</i> , 2009, 47, 58-67. | 5.4 | 125 |
| 2358 | Solubilization of single-walled carbon nanotubes by entanglements between them and hyperbranched phenolic polymer. <i>Carbon</i> , 2009, 47, 117-123. | 5.4 | 34 |
| 2359 | A review of vapor grown carbon nanofiber/polymer conductive composites. <i>Carbon</i> , 2009, 47, 2-22. | 5.4 | 978 |
| 2360 | Nitrogen doping effects on the structure behavior and the field emission performance of double-walled carbon nanotubes. <i>Carbon</i> , 2009, 47, 169-177. | 5.4 | 90 |
| 2361 | Torsional instability of carbon nanotubes encapsulating C ₆₀ fullerenes. <i>Carbon</i> , 2009, 47, 507-512. | 5.4 | 45 |
| 2362 | Controlled dispersion of carbon nanospheres through surface functionalization. <i>Carbon</i> , 2009, 47, 622-628. | 5.4 | 28 |
| 2363 | Tailoring multi-wall carbon nanotubes for smaller nanostructures. <i>Carbon</i> , 2009, 47, 829-838. | 5.4 | 20 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2364 | Functionalized carbon nanotube-bienzyme biocomposite for amperometric sensing. Carbon, 2009, 47, 957-966. | 5.4 | 58 |
| 2365 | Bioâ€“nano interaction of proteins adsorbed on single-walled carbon nanotubes. Carbon, 2009, 47, 967-973. | 5.4 | 72 |
| 2366 | In vivo immunological toxicity in mice of carbon nanotubes with impurities. Carbon, 2009, 47, 1365-1372. | 5.4 | 98 |
| 2367 | Direct and large scale electric arc discharge synthesis of boron and nitrogen doped single-walled carbon nanotubes and their electronic properties. Carbon, 2009, 47, 2112-2115. | 5.4 | 113 |
| 2368 | Dechlorination of chlorophenols mediated by carbon nanotubes in the presence of oxygen. Carbon, 2009, 47, 2115-2117. | 5.4 | 11 |
| 2369 | Optimizing catalyst nanoparticle distribution to produce densely-packed carbon nanotube growth. Carbon, 2009, 47, 1989-2001. | 5.4 | 27 |
| 2370 | Preparation and characterization of highly conductive transparent films with single-walled carbon nanotubes for flexible display applications. Carbon, 2009, 47, 2436-2441. | 5.4 | 70 |
| 2371 | Synthesis of radially aligned single-walled carbon nanotubes on a SiO ₂ /Si substrate by introducing sodium chloride. Carbon, 2009, 47, 2548-2552. | 5.4 | 2 |
| 2372 | Improving the tensile strength of carbon nanotube spun yarns using a modified spinning process. Carbon, 2009, 47, 2662-2670. | 5.4 | 175 |
| 2373 | Enhanced field emission of open-ended, thin-walled carbon nanotubes filled with ferromagnetic nanowires. Carbon, 2009, 47, 2709-2715. | 5.4 | 37 |
| 2374 | Modified carbon nanotubes with liquid-like behavior at 45 Â°C. Carbon, 2009, 47, 2776-2781. | 5.4 | 24 |
| 2375 | The role of multiwalled carbon nanotubes in enhancing the catalytic activity of cobalt tetraaminophthalocyanine for oxidation of conjugated dyes. Carbon, 2009, 47, 3337-3345. | 5.4 | 78 |
| 2376 | A lactate biosensor based on lactate dehydrogenase/nicotinamide adenine dinucleotide (oxidized) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Biochemistry, 2009, 384, 159-165. | 1.1 | 121 |
| 2377 | The high dispersion of DNAâ€“multiwalled carbon nanotubes and their properties. Analytical Biochemistry, 2009, 387, 267-270. | 1.1 | 51 |
| 2378 | Image contrast enhancement in field-emission scanning electron microscopy of single-walled carbon nanotubes. Applied Surface Science, 2009, 255, 4341-4346. | 3.1 | 7 |
| 2379 | Preparation and characterization of carbon nanotubes/monotropic liquid crystal composites. Applied Surface Science, 2009, 255, 6589-6592. | 3.1 | 20 |
| 2380 | Mineralization of surfactant functionalized multi-walled carbon nanotubes (MWNTs) to prepare hydroxyapatite/MWNTs nanohybrid. Applied Surface Science, 2009, 255, 7036-7039. | 3.1 | 38 |
| 2381 | Carbon Nanotubes - Megatrend der Werkstofftechnologie mit aussichtsreichen Anwendungsperspektiven. Vakuum in Forschung Und Praxis, 2009, 21, 24-29. | 0.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2382 | Functionalization of gold and carbon nanostructured materials using gamma-ray irradiation. <i>Radiation Physics and Chemistry</i> , 2009, 78, 910-913. | 1.4 | 20 |
| 2383 | Electrochemistry at carbon nanotubes: perspective and issues. <i>Chemical Communications</i> , 2009, , 6886. | 2.2 | 285 |
| 2384 | Generation of Clean Iron Structures by Electron-Beam-Induced Deposition and Selective Catalytic Decomposition of Iron Pentacarbonyl on Rh(110). <i>Langmuir</i> , 2009, 25, 11930-11939. | 1.6 | 37 |
| 2385 | Comparison of Raman spectra and vibrational density of states between graphene nanoribbons with different edges. <i>European Physical Journal D</i> , 2009, 52, 71-74. | 0.6 | 31 |
| 2386 | “Shaken, Not Stable” Dispersion Mechanism and Dynamics of Protein-Dispersed Nanotubes Studied via Spectroscopy. <i>Langmuir</i> , 2009, 25, 10459-10465. | 1.6 | 39 |
| 2387 | Sorted and Aligned Single-Walled Carbon Nanotube Networks for Transistor-Based Aqueous Chemical Sensors. <i>ACS Nano</i> , 2009, 3, 3287-3293. | 7.3 | 143 |
| 2388 | Diameter-dependent bending dynamics of single-walled carbon nanotubes in liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14219-14223. | 3.3 | 134 |
| 2389 | Enhancement of PEMFC performance by using carbon nanotubes supported Pt ₂ Co alloy catalysts. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 12-16. | 0.8 | 10 |
| 2390 | The preferential electrocatalytic behaviour of graphite and multiwalled carbon nanotubes on enediol groups and their analytical implications in real domains. <i>Analyst</i> , The, 2009, 134, 657. | 1.7 | 49 |
| 2391 | Zebrafish as a correlative and predictive model for assessing biomaterial nanotoxicity. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 478-486. | 6.6 | 235 |
| 2392 | Electrochemical determination of ferulic acid in Chinese traditional medicine Xiao Yao Pills at electrode modified with carbon nanotube. <i>Russian Journal of Electrochemistry</i> , 2009, 45, 170-174. | 0.3 | 21 |
| 2393 | Field-theoretical approach to the description of electronic properties of carbon nanostructures. <i>Physics of Particles and Nuclei</i> , 2009, 40, 502-524. | 0.2 | 11 |
| 2394 | Collective Mechanism for the Evolution and Self-Termination of Vertically Aligned Carbon Nanotube Growth. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20576-20582. | 1.5 | 205 |
| 2395 | Synthesis and Catalytic Performance of Pd Nanoparticle/Functionalized CNF Composites by a Two-Step Chemical Vapor Deposition of Pd(allyl)(Cp) Precursor. <i>Chemistry of Materials</i> , 2009, 21, 2360-2366. | 3.2 | 40 |
| 2396 | Carbon-Nanotube-Based Materials for Protein Crystallization. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1203-1210. | 4.0 | 59 |
| 2397 | Growth and properties of Au nanowires. <i>Molecular Simulation</i> , 2009, 35, 1051-1056. | 0.9 | 4 |
| 2398 | Kinetics Studies of Ultralong Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10896-10900. | 1.5 | 24 |
| 2399 | Tuning the Diameter of Single-Walled Carbon Nanotubes by Temperature-Mediated Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13051-13059. | 1.5 | 32 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2400 | Strain sensing using a multiwalled carbon nanotube film. <i>Journal of Strain Analysis for Engineering Design</i> , 2009, 44, 555-562. | 1.0 | 75 |
| 2401 | Fabrication and Characterization of Indium Tin Oxide/Carbon Nanotube Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15538-15543. | 1.5 | 7 |
| 2402 | Dispersion of Functionalized Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20861-20868. | 1.5 | 49 |
| 2403 | Vertical Single-Walled Carbon Nanotube Arrays via Block Copolymer Lithography. <i>Chemistry of Materials</i> , 2009, 21, 1368-1374. | 3.2 | 33 |
| 2404 | Thermally Switchable One- and Two-Dimensional Arrays of Single-Walled Carbon Nanotubes in a Polymeric System. <i>Journal of the American Chemical Society</i> , 2009, 131, 16568-16572. | 6.6 | 29 |
| 2405 | Removal of Ferromagnetic Metals for the Large-Scale Purification of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3612-3616. | 1.5 | 32 |
| 2406 | Unraveling the Reactivity of Semiconducting Chiral Carbon Nanotubes through Finite-Length Models Based on Clar Sextet Theory. <i>Journal of Physical Chemistry C</i> , 2009, 113, 862-866. | 1.5 | 26 |
| 2407 | Gel Electrophoresis Method to Measure the Concentration of Single-Walled Carbon Nanotubes Extracted from Biological Tissue. <i>Analytical Chemistry</i> , 2009, 81, 2944-2952. | 3.2 | 38 |
| 2408 | Highly Efficient Vertical Growth of Wall-Number-Selected, N-Doped Carbon Nanotube Arrays. <i>Nano Letters</i> , 2009, 9, 1427-1432. | 4.5 | 137 |
| 2409 | Optical Absorption Spectra of Charge-Doped Single-Walled Carbon Nanotubes from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7058-7064. | 1.5 | 2 |
| 2410 | High Population of Individualized SWCNTs through the Adsorption of Water-Soluble Perylenes. <i>Journal of the American Chemical Society</i> , 2009, 131, 2172-2184. | 6.6 | 137 |
| 2411 | Carbon Nanotubes Toxicity. , 2009, , 47-67. | | 5 |
| 2412 | Single-Walled Carbon Nanotubes Spontaneous Loading into Exponentially Grown LBL Films. <i>Chemistry of Materials</i> , 2009, 21, 4397-4400. | 3.2 | 23 |
| 2413 | Effect of Growing CNTs onto Bamboo Charcoals on Adsorption of Copper Ions in Aqueous Solution. <i>Langmuir</i> , 2009, 25, 269-274. | 1.6 | 51 |
| 2414 | Ambiguity in the Characterization of Chemically Modified Single-Walled Carbon Nanotubes: A Raman and Ultraviolet-Visible-Near-Infrared Study. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5133-5140. | 1.5 | 19 |
| 2415 | Self-Assembly of Ordered Nanowires in Biological Suspensions of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 189-196. | 7.3 | 24 |
| 2416 | Self-Assembled Nanoparticle-Nanotube Structures (nanoPaNTs) Based on Antenna Chemistry of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18863-18869. | 1.5 | 5 |
| 2417 | Electrochemically Template-Grown Multi-Segmented Gold-Conducting Polymer Nanowires with Tunable Electronic Behavior. <i>Chemistry of Materials</i> , 2009, 21, 4241-4247. | 3.2 | 32 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2418 | Nanoengineering Ni _x Fe _{1-x} Catalysts for Gas-Phase, Selective Synthesis of Semiconducting Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 4023-4032. | 7.3 | 51 |
| 2419 | Numerical Study of the Size-Dependent Melting Mechanisms of Nickel Nanoclusters. Journal of Physical Chemistry C, 2009, 113, 2771-2776. | 1.5 | 80 |
| 2420 | Deformation of Carbon Nanotubes by Exposure to Water Vapor. Langmuir, 2009, 25, 2804-2810. | 1.6 | 42 |
| 2421 | A Family of Aligned C-Curved Nanoarches. ACS Nano, 2009, 3, 1723-1728. | 7.3 | 9 |
| 2422 | Engineering Nanomaterial Surfaces for Biomedical Applications. Experimental Biology and Medicine, 2009, 234, 1128-1139. | 1.1 | 119 |
| 2423 | Direct Electrochemistry of Hemoglobin in Chitosan/Multiwalled Carbon Nanotubes/Ionic Liquid-Modified Carbon-Paste Electrode. Analytical Letters, 2009, 42, 2460-2473. | 1.0 | 5 |
| 2424 | Controlled Dielectrophoretic Assembly of Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 37-39. | 1.5 | 14 |
| 2425 | Molecular dynamics study of damage production in single-walled carbon nanotubes irradiated by various ion species. Nanotechnology, 2009, 20, 125706. | 1.3 | 20 |
| 2426 | Covalent Grafting of Redox-Active Molecules to Vertically Aligned Carbon Nanofiber Arrays via "Click" Chemistry. Chemistry of Materials, 2009, 21, 724-730. | 3.2 | 49 |
| 2427 | Semiconducting single-walled carbon nanotubes synthesized by S-doping. Nano-Micro Letters, 2009, 1, 9-13. | 14.4 | 35 |
| 2428 | Chemisorption of Transition-Metal Atoms on Boron- and Nitrogen-Doped Carbon Nanotubes: Energetics and Geometric and Electronic Structures. Journal of Physical Chemistry C, 2009, 113, 7069-7078. | 1.5 | 71 |
| 2429 | Laser induced selective removal of metallic carbon nanotubes. Nanotechnology, 2009, 20, 495202. | 1.3 | 32 |
| 2430 | Defect Healing during Single-Walled Carbon Nanotube Growth: A Density-Functional Tight-Binding Molecular Dynamics Investigation. Journal of Physical Chemistry C, 2009, 113, 20198-20207. | 1.5 | 58 |
| 2431 | Analytical modeling for crosstalk noise induced by process variations among CNT-based interconnects. , 2009, , . | | 9 |
| 2432 | Nonuniform Compressive Strain in Horizontally Aligned Single-Walled Carbon Nanotubes Grown on Single Crystal Quartz. ACS Nano, 2009, 3, 2217-2224. | 7.3 | 18 |
| 2433 | Syngas Segregation Induced by Confinement in Carbon Nanotubes: A Combined First-Principles and Monte Carlo Study. Journal of Physical Chemistry C, 2009, 113, 21687-21692. | 1.5 | 67 |
| 2434 | Modular Functionalization of Carbon Nanotubes and Fullerenes. Journal of the American Chemical Society, 2009, 131, 8446-8454. | 6.6 | 78 |
| 2435 | Diffusion-gradient-induced length instabilities in the catalytic growth of carbon nanotubes. Applied Physics Letters, 2009, 95, . | 1.5 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2436 | Patterned carbon nanotube growth using an electron beam sensitive direct writable catalyst. <i>Nanotechnology</i> , 2009, 20, 315302. | 1.3 | 10 |
| 2437 | Modeling of the Electrical Percolation of Mixed Carbon Fillers in Polymer-Based Composites. <i>Macromolecules</i> , 2009, 42, 459-463. | 2.2 | 164 |
| 2438 | Transforming Carbon Nanotubes to Few-Layer Graphene with the Assistance of Encapsulated Ferrocene. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7481-7483. | 1.5 | 14 |
| 2439 | Wrinkling of monolayer graphene: A study by molecular dynamics and continuum plate theory. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 76 |
| 2440 | Electrical Conductance Tuning and Bistable Switching in Poly(<i>N</i> -vinylcarbazole)-Carbon Nanotube Composite Films. <i>ACS Nano</i> , 2009, 3, 1929-1937. | 7.3 | 180 |
| 2441 | Supramolecular BioNanocomposites: Grafting of Biobased Polylactide to Carbon Nanoparticle Surfaces. <i>Australian Journal of Chemistry</i> , 2009, 62, 865. | 0.5 | 13 |
| 2442 | Emulsions Stabilized by Carbon Nanotube-Silica Nanohybrids. <i>Langmuir</i> , 2009, 25, 10843-10851. | 1.6 | 151 |
| 2443 | Mechanical properties of carbon nanotube-alumina nanocomposites synthesized by chemical vapor deposition and spark plasma sintering. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 86-93. | 3.8 | 79 |
| 2444 | A comparative study of Young's modulus of single-walled carbon nanotube by CPMD, MD and first principle simulations. <i>Computational Materials Science</i> , 2009, 46, 621-625. | 1.4 | 84 |
| 2445 | Voltammetric study of fullerene C60 and fullerene C60 nanotubes with sandwich method. <i>Synthetic Metals</i> , 2009, 159, 419-423. | 2.1 | 13 |
| 2446 | Conducting polymer functionalized multi-walled carbon nanotubes with noble metal nanoparticles: Synthesis, morphological characteristics and electrical properties. <i>Synthetic Metals</i> , 2009, 159, 595-603. | 2.1 | 420 |
| 2447 | Polypyrrole/MWNT nanocomposites synthesized through interfacial polymerization. <i>Synthetic Metals</i> , 2009, 159, 632-636. | 2.1 | 48 |
| 2448 | Macroscopic-scale carbon nanotube alignment via self-assembly in lyotropic liquid crystals. <i>Synthetic Metals</i> , 2009, 159, 2177-2179. | 2.1 | 20 |
| 2449 | Preparation and characterization of hollow glass microspheres/ZnO composites. <i>Journal of Alloys and Compounds</i> , 2009, 469, L1-L5. | 2.8 | 6 |
| 2450 | Direct synthesis of hBN/MWCNT composite particles using spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2009, 471, 166-171. | 2.8 | 23 |
| 2451 | Growth and characterization of the coexistence of vertically aligned and twinned V-shaped RuO ₂ nanorods on nanostructural TiO ₂ template. <i>Journal of Alloys and Compounds</i> , 2009, 485, 524-528. | 2.8 | 12 |
| 2452 | Synthesis of IrO ₂ nanocrystals on carbon nanotube bundle arrays and their field emission characteristics. <i>Journal of Alloys and Compounds</i> , 2009, 487, 659-664. | 2.8 | 18 |
| 2453 | Investigations on the effects of CoOx to MoOx ratio and CoOx-MoOx loading on methane decomposition into carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2009, 488, 294-299. | 2.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2454 | Effects of carbon nanotubes on primary neurons and glial cells. <i>NeuroToxicology</i> , 2009, 30, 702-711. | 1.4 | 166 |
| 2455 | Quantification of carbon nanotube distribution and property correlation in nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 1311-1318. | 3.8 | 72 |
| 2456 | Simple and Scalable Gel-Based Separation of Metallic and Semiconducting Carbon Nanotubes. <i>Nano Letters</i> , 2009, 9, 1497-1500. | 4.5 | 307 |
| 2457 | High-field electrothermal transport in metallic carbon nanotubes. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 12 |
| 2458 | Optical Resolution and Diameter-Based Enrichment of Single-Walled Carbon Nanotubes through Simultaneous Recognition of Their Helicity and Diameter with Chiral Monoporphyrin. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9108-9113. | 1.5 | 25 |
| 2459 | Water solubilisation of single-walled carbon nanotubes using p-sulfonatocalix[4]arene. <i>New Journal of Chemistry</i> , 2009, 33, 1583. | 1.4 | 10 |
| 2460 | Simulation of the Electromechanical Behavior of Multiwall Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 3266-3272. | 7.3 | 8 |
| 2461 | Thermodynamics of adsorption of light alkanes and alkenes in single-walled carbon nanotube bundles. <i>Physical Review B</i> , 2009, 79, . | 1.1 | 32 |
| 2462 | Preparation and Selected Properties of an Improved Composite of the Electrophoretically Deposited Single-Wall Carbon Nanotubes, Electrochemically Coated with a C ₆₀ -Pd and Polybithiophene Mixed Polymer Film. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14046-14058. | 1.5 | 14 |
| 2463 | Metal sulfide coated multiwalled carbon nanotubes synthesized by an in situ method and their optical limiting properties. <i>Nanotechnology</i> , 2009, 20, 195604. | 1.3 | 12 |
| 2464 | Ultrathin Carbon Nanotube Fibrils of High Electrochemical Capacitance. <i>ACS Nano</i> , 2009, 3, 3679-3683. | 7.3 | 19 |
| 2465 | JEM Spotlight: Applications of advanced nanomaterials for environmental monitoring. <i>Journal of Environmental Monitoring</i> , 2009, 11, 27-40. | 2.1 | 67 |
| 2466 | Carbon Nanotubes Activate Blood Platelets by Inducing Extracellular Ca ²⁺ Influx Sensitive to Calcium Entry Inhibitors. <i>Nano Letters</i> , 2009, 9, 3312-3317. | 4.5 | 97 |
| 2467 | Mechanical Properties of Nanocomposite Materials. <i>Frontiers of Nanoscience</i> , 2009, , 127-172. | 0.3 | 5 |
| 2468 | Low Temperature Synthesis of Vertically Aligned Carbon Nanotubes with Electrical Contact to Metallic Substrates Enabled by Thermal Decomposition of the Carbon Feedstock. <i>Nano Letters</i> , 2009, 9, 3398-3405. | 4.5 | 144 |
| 2469 | Preferential Growth of Single-Walled Carbon Nanotubes with Metallic Conductivity. <i>Science</i> , 2009, 326, 116-120. | 6.0 | 397 |
| 2470 | A reversible switch for hydrogen adsorption and desorption: electric fields. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9233. | 1.3 | 36 |
| 2471 | Multicomponent Solubility Parameters for Single-Walled Carbon Nanotube Solvent Mixtures. <i>ACS Nano</i> , 2009, 3, 2340-2350. | 7.3 | 347 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 2472 | Engineering Vertically Aligned Carbon Nanotube Growth by Decoupled Thermal Treatment of Precursor and Catalyst. <i>ACS Nano</i> , 2009, 3, 2477-2486. | 7.3 | 162 |
| 2473 | Through silicon vias filled with planarized carbon nanotube bundles. <i>Nanotechnology</i> , 2009, 20, 485203. | 1.3 | 54 |
| 2474 | Carbon Nanotube~Ionic Liquid Composite Sensors and Biosensors. <i>Analytical Chemistry</i> , 2009, 81, 435-442. | 3.2 | 258 |
| 2475 | Carbon nanotube arrays and their composites for electrochemical capacitors and lithium-ion batteries. <i>Energy and Environmental Science</i> , 2009, 2, 932. | 15.6 | 239 |
| 2476 | Carbon nanotube-based organic light emitting diodes. <i>Nanoscale</i> , 2009, 1, 317. | 2.8 | 65 |
| 2477 | Electrochemical patterning of gold nanoparticles on transparent single-walled carbon nanotube films. <i>Chemical Communications</i> , 2009, , 5549. | 2.2 | 26 |
| 2478 | Self-assembled CNT circuits with ohmic contacts using Pd hexadecanethiolate as in situ solder. <i>Nanoscale</i> , 2009, 1, 271. | 2.8 | 9 |
| 2480 | Helical Wrapping of Single-Walled Carbon Nanotubes by Water Soluble Poly(<i>p</i> -phenyleneethynylene). <i>Nano Letters</i> , 2009, 9, 1414-1418. | 4.5 | 162 |
| 2481 | Vertical Alignment of Carbon Nanotubes Using the Magneto-Evaporation Method. <i>Journal of the American Chemical Society</i> , 2009, 131, 742-748. | 6.6 | 27 |
| 2482 | Indium Oxide with Novel Morphology: Synthesis and Application in C ₂ H ₅ OH Gas Sensing. <i>Crystal Growth and Design</i> , 2009, 9, 2146-2151. | 1.4 | 93 |
| 2483 | Thermal effect on the dynamic infiltration of water into single-walled carbon nanotubes. <i>Physical Review E</i> , 2009, 80, 061206. | 0.8 | 27 |
| 2484 | Layer-by-Layer Assembly of All Carbon Nanotube Ultrathin Films for Electrochemical Applications. <i>Journal of the American Chemical Society</i> , 2009, 131, 671-679. | 6.6 | 598 |
| 2485 | Ballistic Resistant Body Armor: Contemporary and Prospective Materials and Related Protection Mechanisms. <i>Applied Mechanics Reviews</i> , 2009, 62, . | 4.5 | 142 |
| 2486 | Nonlocal elastic beam models for flexural wave propagation in double-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2009, 106, 044301. | 1.1 | 43 |
| 2487 | Measurement of Electrostatic Properties of DNA-Carbon Nanotube Hybrids by Capillary Electrophoresis. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13616-13621. | 1.5 | 35 |
| 2488 | Functional DNA directed assembly of nanomaterials for biosensing. <i>Journal of Materials Chemistry</i> , 2009, 19, 1788. | 6.7 | 129 |
| 2489 | Viscoelasticity and Shear Stability of Single-Walled Carbon Nanotube/Unsaturated Polyester Resin Dispersions. <i>Macromolecules</i> , 2009, 42, 6624-6632. | 2.2 | 48 |
| 2490 | Ab initio calculations of zirconium adsorption and diffusion on graphene. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 44 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2491 | New Advances in Cell Adhesion Technology. , 2009, , 69-130. | | 1 |
| 2492 | Continuous and Scalable Fabrication of Transparent Conducting Carbon Nanotube Films. ACS Nano, 2009, 3, 835-843. | 7.3 | 373 |
| 2493 | Gas sensors based on deposited single-walled carbon nanotube networks for DMMP detection. Nanotechnology, 2009, 20, 345502. | 1.3 | 103 |
| 2494 | Surface Concavity~Convexity Sensitive Oxidation Dynamics of Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 3569-3573. | 1.5 | 4 |
| 2495 | Nanocapsules based on carbon nanotubes- <i>graft</i> -polyglycerol hybrid materials. Nanotechnology, 2009, 20, 485603. | 1.3 | 26 |
| 2496 | Diffusion-Ordered NMR Spectroscopy in the Structural Characterization of Functionalized Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 9086-9093. | 6.6 | 37 |
| 2497 | Controlled Attachment of Ultrafine Platinum Nanoparticles on Functionalized Carbon Nanotubes with High Electrocatalytic Activity for Methanol Oxidation. Journal of Physical Chemistry C, 2009, 113, 1466-1473. | 1.5 | 142 |
| 2498 | Solvent-dependent fluorescence property of multi-walled carbon nanotubes noncovalently functionalized by pyrene-derivatized polymer. Nanotechnology, 2009, 20, 135705. | 1.3 | 16 |
| 2499 | Highly Catalytic Single-Crystal Dendritic Pt Nanostructures Supported on Carbon Nanotubes. Chemistry of Materials, 2009, 21, 1531-1535. | 3.2 | 100 |
| 2500 | Microcapsules containing suspensions of carbon nanotubes. Journal of Materials Chemistry, 2009, 19, 6093. | 6.7 | 98 |
| 2501 | Carbon Nanotubes~Polypropylene Nanocomposites for Electrostatic Discharge Applications. Macromolecules, 2009, 42, 8328-8334. | 2.2 | 62 |
| 2502 | Direct Fabrication of Tellurium/Carbon Nanocables through a Facile Solution Route. Crystal Growth and Design, 2009, 9, 2117-2123. | 1.4 | 17 |
| 2503 | Sensors Based on Nanostructured Materials. , 2009, , . | | 32 |
| 2504 | Vertically aligned carbon nanotubes on copper substrates for applications as thermal interface materials: From synthesis to assembly. , 2009, , . | | 15 |
| 2505 | Multiparameter Structural Optimization of Single-Walled Carbon Nanotube Composites: Toward Record Strength, Stiffness, and Toughness. ACS Nano, 2009, 3, 1711-1722. | 7.3 | 141 |
| 2506 | Direct determination of atomic structure of large-indexed carbon nanotubes by electron diffraction: application to double-walled nanotubes. Journal Physics D: Applied Physics, 2009, 42, 125412. | 1.3 | 20 |
| 2507 | Free flexural vibration studies of double-walled carbon nanotubes with different boundary conditions and modeled as nonlocal Euler beams via the Galerkin method. Journal of Applied Physics, 2009, 106, . | 1.1 | 19 |
| 2508 | Crystalline nanotubes of $\hat{1}^3$ -AlOOH and $\hat{1}^3$ -Al ₂ O ₃ : hydrothermal synthesis, formation mechanism and catalytic performance. Nanotechnology, 2009, 20, 215604. | 1.3 | 89 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2509 | Cobalt Porphyrin Functionalized Carbon Nanotubes for Oxygen Reduction. <i>Chemistry of Materials</i> , 2009, 21, 3234-3241. | 3.2 | 126 |
| 2510 | Reduced graphene oxide for room-temperature gas sensors. <i>Nanotechnology</i> , 2009, 20, 445502. | 1.3 | 652 |
| 2511 | Conducting bio-materials based on gellan gum hydrogels. <i>Soft Matter</i> , 2009, 5, 3430. | 1.2 | 88 |
| 2512 | Synthesis and characterisation of ordered arrays of mesoporous carbon nanofibres. <i>Journal of Materials Chemistry</i> , 2009, 19, 1331. | 6.7 | 42 |
| 2513 | Molecular Momentum Transport at Fluid-Solid Interfaces in MEMS/NEMS: A Review. <i>International Journal of Molecular Sciences</i> , 2009, 10, 4638-4706. | 1.8 | 261 |
| 2514 | Synthesis of Carbon/Carbon Core/Shell Nanotubes with a High Specific Surface Area. <i>Journal of Physical Chemistry C</i> , 2009, 113, 61-68. | 1.5 | 39 |
| 2515 | Structure of Aggregating Rod Suspensions Under Combined Shear and Electric Fields. <i>Macromolecules</i> , 2009, 42, 7184-7193. | 2.2 | 6 |
| 2516 | Ultrasound-assisted synthesis of carbon materials. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4930. | 1.3 | 63 |
| 2517 | High dielectric loss and its monotonic dependence of conducting-dominated multiwalled carbon nanotubes/silica nanocomposite on temperature ranging from 373 to 873 K in X-band. <i>Applied Physics Letters</i> , 2009, 94, . | 1.5 | 333 |
| 2518 | From radar to nodar. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2009, 24, 4-10. | 2.3 | 0 |
| 2519 | Nanostructured Supported Catalysts for Low-Temperature Fuel Cells. <i>Frontiers of Nanoscience</i> , 2009, 1, 173-231. | 0.3 | 3 |
| 2520 | Finite size effects on the gate leakage current in graphene nanoribbon field-effect transistors. <i>Nanotechnology</i> , 2009, 20, 275203. | 1.3 | 15 |
| 2521 | Size-dependent ultraviolet luminescence and low-field electron emission of TiO ₂ nanodots formed by phase-separation-induced self-assembly. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 105414. | 1.3 | 18 |
| 2522 | Controllable Fabrication of Supramolecular Nanocoils and Nanoribbons and Their Morphology-Dependent Photoswitching. <i>Journal of the American Chemical Society</i> , 2009, 131, 2756-2757. | 6.6 | 78 |
| 2523 | Ordered Hierarchical Nanostructured Carbon as a Highly Efficient Cathode Catalyst Support in Proton Exchange Membrane Fuel Cell. <i>Chemistry of Materials</i> , 2009, 21, 789-796. | 3.2 | 206 |
| 2524 | Excitation, Temperature, and Structural Dependence of Second-Order Raman Modes in Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16432-16438. | 1.5 | 5 |
| 2525 | Carbon Nanotube-Templated Copper Phthalocyanine Derivative Assemblies via Solid-Phase Synthesis: Effects of Hydrogen Bond on the Structure of the Assemblies. <i>Crystal Growth and Design</i> , 2009, 9, 4136-4141. | 1.4 | 10 |
| 2527 | Reusable CNTs-based chemical sensors. , 2009, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 2528 | Novel amino-acid-based polymer/multi-walled carbon nanotube bio-nanocomposites: highly water dispersible carbon nanotubes decorated with gold nanoparticles. <i>Nanotechnology</i> , 2009, 20, 225608. | 1.3 | 28 |
| 2529 | Carbon nanotube "nanocrystal heterostructures. <i>Chemical Society Reviews</i> , 2009, 38, 1076. | 18.7 | 253 |
| 2530 | Sorption and Competition of Aromatic Compounds and Humic Acid on Multiwalled Carbon Nanotubes. <i>Environmental Science & Technology</i> , 2009, 43, 6214-6219. | 4.6 | 183 |
| 2531 | Mechanically robust and electrically conductive carbon nanotube foams. <i>Applied Physics Letters</i> , 2009, 94, . | 1.5 | 245 |
| 2532 | Viable Route for Cobalt Oxide~Carbon Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15533-15537. | 1.5 | 18 |
| 2533 | Photostimulated Reversible Attachment of Gold Nanoparticles on Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3899-3902. | 1.5 | 27 |
| 2534 | Effect of carbon nanotubes on response time of ferroelectric liquid crystals. <i>Physical Review E</i> , 2009, 80, 012701. | 0.8 | 77 |
| 2535 | <i>In Situ</i> Growth of Carbon Nanotubes in Hydroxyapatite Matrix by Chemical Vapor Deposition. <i>Advanced Materials Research</i> , 2009, 79-82, 1671-1674. | 0.3 | 4 |
| 2536 | Effects of Metal Underlayer Grain Size on Carbon Nanotube Growth. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15133-15139. | 1.5 | 32 |
| 2537 | Carbon nanotubes and nanotube composites for nonlinear optical devices. <i>Journal of Materials Chemistry</i> , 2009, 19, 7425. | 6.7 | 217 |
| 2538 | Purification of carbon nanotubes by dynamic oxidation in air. <i>Journal of Materials Chemistry</i> , 2009, 19, 7904. | 6.7 | 54 |
| 2539 | Fabrication of large-area hybrid nanowires arrays as novel field emitters. <i>Journal of Materials Chemistry</i> , 2009, 19, 1031-1036. | 6.7 | 34 |
| 2540 | Electrochemical Analysis of Single-Walled Carbon Nanotubes Functionalized with Pyrene-Pendant Transition Metal Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 17554-17556. | 6.6 | 68 |
| 2541 | Six-Membered-Ring-Based Radical Mechanism for Catalytic Growth of Carbon Nanotubes with Benzene Precursor. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16495-16502. | 1.5 | 15 |
| 2542 | Significant Improvement of Mechanical Properties Observed in Highly Aligned Carbon-Nanotube-Reinforced Nanofibers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4779-4785. | 1.5 | 109 |
| 2543 | Single-Walled Carbon Nanotubes Prepared by Large-Scale Induction Thermal Plasma Process: Synthesis, Characterization, and Purification. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4340-4348. | 1.5 | 30 |
| 2544 | Insights into the mechanism of the gas-phase purification of HiPco SWNTs through a comprehensive multi-technique study. <i>New Journal of Chemistry</i> , 2009, 33, 1211. | 1.4 | 12 |
| 2545 | Reversible solubilisation and precipitation of carbon nanotubes by temperature and pH control in water. <i>Journal of Materials Chemistry</i> , 2009, 19, 5785. | 6.7 | 23 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2546 | Simple, Rapid, Sensitive, and Versatile SWNT~Paper Sensor for Environmental Toxin Detection Competitive with ELISA. Nano Letters, 2009, 9, 4147-4152. | 4.5 | 249 |
| 2547 | Design of a multi-walled carbon nanotubes vacuum gauge. , 2009, , . | | 1 |
| 2548 | Development of New X-Ray Source Based on Carbon Nanotube Field Emission and Application to the Non Destructive Imaging Technology. IEEE Transactions on Nuclear Science, 2009, 56, 1297-1300. | 1.2 | 14 |
| 2549 | Performance comparison and variability analysis of CNT bundle and Cu interconnects. , 2009, , . | | 3 |
| 2550 | Gas sensitivities of solvent-functionalized CNTs to volatile organic compounds. , 2009, , . | | 0 |
| 2551 | Organization of single-walled carbon nanotubes wrapped with liquid-crystalline i€-conjugated oligomers. Journal of Materials Chemistry, 2009, 19, 1086. | 6.7 | 29 |
| 2552 | Direct functionalization of self-assembled nanotubes overcomes unfavorable self-assembling processes. Chemical Communications, 2009, , 3457. | 2.2 | 16 |
| 2553 | Synthesis of highly uniform silica-shelled carbon nanotube coaxial fibers from catalytic gas-flow reactions viain situ deposition of silica. Journal of Materials Chemistry, 2009, 19, 6137. | 6.7 | 3 |
| 2554 | Controlled growth of multi-morphology hexagonal t-Se microcrystals: tubes, wires, and flowers by a convenient Lewis acid-assisted solvothermal method. CrystEngComm, 2009, 11, 1270. | 1.3 | 7 |
| 2555 | The dispersion of carbon nanotubes in water with the aid of very small amounts of ionic liquid. Chemical Communications, 2009, , 1897. | 2.2 | 65 |
| 2556 | Particle-localized AC and DC manipulation and electrokinetics. Annual Reports on the Progress of Chemistry Section C, 2009, 105, 213. | 4.4 | 114 |
| 2557 | Power and area reduction using carbon nanotube bundle interconnect in global clock tree distribution network. , 2009, , . | | 0 |
| 2558 | Modeling of Selective Carbon Nanotubes Growth for Non-classical Memory Applications. , 2009, , . | | 0 |
| 2559 | Development of flexible carbon nanotube-polymer hybrid thin film for strain sensing. , 2009, , . | | 1 |
| 2560 | Highly entangled carbon nanotube scaffolds by self-organized aqueous droplets. Soft Matter, 2009, 5, 2343-2346. | 1.2 | 70 |
| 2561 | Paper-like 3-dimensional carbon nanotubes (CNTs)~microfiber hybrid: A promising macroscopic structure of CNTs. Journal of Materials Chemistry, 2009, 19, 3632. | 6.7 | 15 |
| 2562 | Shaping Nanoelectrodes for High-Precision Dielectrophoretic Assembly of Carbon Nanotubes. IEEE Nanotechnology Magazine, 2009, 8, 449-456. | 1.1 | 46 |
| 2563 | A Theoretical ab Initio Study on Functionalized Single~walled Carbon Nanotubes as a Molecular Absorbent. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 390-400. | 1.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2564 | Study of vacuum-sealed carbon nanotube field emission display using vacuum micro electron source based on planar gate structure. , 2009, , . | | 0 |
| 2565 | Thermal conductivity of epoxy/surface functionalized carbon nano materials. , 2009, , . | | 1 |
| 2566 | Humidity Sensitivity of Carbon Nanotube and Poly (Dimethyldiallylammonium Chloride) Composite Films. IEEE Sensors Journal, 2009, 9, 1308-1314. | 2.4 | 40 |
| 2567 | Graphite oxide as a novel host material of catalytically active Cuâ€“Ni bimetallic nanoparticles. Catalysis Communications, 2009, 10, 1529-1533. | 1.6 | 46 |
| 2568 | Effects of H2 plasma pretreated Ni catalysts on the growth of carbon nanotubes. Materials Chemistry and Physics, 2009, 115, 740-743. | 2.0 | 9 |
| 2569 | Density Functional Theory Study of Finite Carbon Chains. ACS Nano, 2009, 3, 3788-3794. | 7.3 | 56 |
| 2570 | Inorganic and hybrid nanostructures for optical limiting. Journal of Optics, 2009, 11, 024001. | 1.5 | 178 |
| 2571 | Photocatalytic Reduction of Graphene Oxide Nanosheets on TiO ₂ Thin Film for Photoinactivation of Bacteria in Solar Light Irradiation. Journal of Physical Chemistry C, 2009, 113, 20214-20220. | 1.5 | 887 |
| 2572 | Photoresponse in large area multiwalled carbon nanotube/polymer nanocomposite films. Applied Physics Letters, 2009, 94, . | 1.5 | 33 |
| 2573 | Tandem extraction strategy for separation of metallic and semiconducting SWCNTs using condensed benzenoid molecules: effects of molecular morphology and solvent. Physical Chemistry Chemical Physics, 2009, 11, 7257. | 1.3 | 18 |
| 2574 | On the synthesis and magnetic properties of multiwall carbon nanotubeâ€“superparamagnetic iron oxide nanoparticle nanocomposites. Nanotechnology, 2009, 20, 055607. | 1.3 | 31 |
| 2575 | Easy decoration of carbon nanotubes with well dispersed gold nanoparticles and the use of the material as an electrocatalyst. Carbon, 2009, 47, 1146-1151. | 5.4 | 76 |
| 2576 | Controlled Self-Assembly of C ₃ -Symmetric Hexa-peri-hexabenzocoronenes with Alternating Hydrophilic and Hydrophobic Substituents in Solution, in the Bulk, and on a Surface. Journal of the American Chemical Society, 2009, 131, 4439-4448. | 6.6 | 107 |
| 2577 | Synergistically Enhanced Dispersion of Native Proteinâ€“Carbon Nanotube Conjugates by Fluoroalcohols in Aqueous Solution. Chemistry - A European Journal, 2009, 15, 9905-9910. | 1.7 | 17 |
| 2578 | The research on the mechanical and tribological properties of carbon fiber and carbon nanotubeâ€“filled PEEK composite. Polymer Composites, 2010, 31, 1315-1320. | 2.3 | 7 |
| 2579 | Direct Synthesis of Solvent-Free Multiwall Carbon Nanotubes/Silica Nonionic Nanofluid Hybrid Material. ACS Nano, 2009, 3, 2185-2190. | 7.3 | 55 |
| 2580 | Long-Term Improvements to Photoluminescence and Dispersion Stability by Flowing SDS-SWNT Suspensions through Microfluidic Channels. Journal of the American Chemical Society, 2009, 131, 12721-12728. | 6.6 | 23 |
| 2581 | Strong exciton-plasmon coupling in semiconducting carbon nanotubes. Physical Review B, 2009, 80, . | 1.1 | 51 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2582 | The separation of different conducting multi-walled carbon nanotubes by AC dielectrophoresis. <i>Diamond and Related Materials</i> , 2009, 18, 332-336. | 1.8 | 27 |
| 2583 | Colors of carbon nanotubes. <i>Diamond and Related Materials</i> , 2009, 18, 935-939. | 1.8 | 16 |
| 2585 | Self-Sorted Nanotube Networks on Polymer Dielectrics for Low-Voltage Thin-Film Transistors. <i>Nano Letters</i> , 2009, 9, 2526-2531. | 4.5 | 43 |
| 2586 | Photoelectrochemical Study on Charge Transfer Properties of ZnO Nanowires Promoted by Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16247-16253. | 1.5 | 141 |
| 2587 | Giant Persistent Photoconductivity in Rough Silicon Nanomembranes. <i>Nano Letters</i> , 2009, 9, 3453-3459. | 4.5 | 55 |
| 2588 | Molecular, Supramolecular, and Macromolecular Motors and Artificial Muscles. <i>MRS Bulletin</i> , 2009, 34, 671-681. | 1.7 | 74 |
| 2589 | BROAD BUNDLES OF SINGLE-WALLED CARBON NANOTUBE SYNTHESIZED OVER Fe ₂ O ₃ /MgO VIA CHEMICAL VAPOR DEPOSITION OF METHANE. <i>Nano</i> , 2009, 04, 77-81. | 0.5 | 6 |
| 2590 | The mechanical and impact properties of MWNTs/LDPE nanocomposites. <i>Pigment and Resin Technology</i> , 2009, 38, 305-309. | 0.5 | 4 |
| 2591 | Conducting Nanocomposites Derived from Poly(styrenesulfonate)-Functionalized MWCNT-PSS and PEDOT. <i>Journal of the Electrochemical Society</i> , 2009, 156, K218. | 1.3 | 8 |
| 2592 | Manipulation and Observation of Carbon Nanotubes in Water Under an Optical Microscope Using a Microfluidic Chip. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 463-468. | 1.1 | 5 |
| 2593 | Atomic and fullerene ions interacting with metal surfaces. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012062. | 0.3 | 0 |
| 2594 | Preparation and Microstructure of Carbon Nanotube-Toughened Alumina Composites. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2009, 3, 85-95. | 0.5 | 3 |
| 2597 | A green access to highly pure single-walled carbon nanotubes by taurocholate-assistant dispersion and centrifugation. <i>Journal of Physics: Conference Series</i> , 2009, 188, 012050. | 0.3 | 0 |
| 2598 | Direct Electrochemistry of Hemoglobin and its Electrocatalysis Based on a Carbon Nanotube Paste Electrode. <i>Journal of the Chinese Chemical Society</i> , 2009, 56, 561-567. | 0.8 | 14 |
| 2599 | 58.4: <i>Invited Paper</i> : Solution Assembly of Transistor Arrays Based on Sorted Nanotube Networks for Large-Scale Flexible Electronic Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2009, 40, 877-879. | 0.1 | 0 |
| 2600 | Voltammetric Determination of In ³⁺ Based on the Bifunctionality of a Multi-walled Carbon Nanotubes-Nafion Modified Electrode. <i>Analytical Sciences</i> , 2009, 25, 653-657. | 0.8 | 8 |
| 2601 | Luminescence of Cup-Stacked Carbon Nanotubes and Its Application to Microchip Electrophoresis. <i>Bunseki Kagaku</i> , 2009, 58, 517-521. | 0.1 | 0 |
| 2602 | Effect of Mo in Co-Mo/MgO catalysts on the synthesis yield and structure of carbon nanotubes. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 654-658. | 0.5 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2603 | Room-temperature synthesis and characterisation of ion-induced iron-carbon nanocomposite fibres. International Journal of Nanotechnology, 2009, 6, 753. | 0.1 | 8 |
| 2605 | Electrical and Thermal Conductivities of Novel Metal Mesh Hybrid Polymer Composite Bipolar Plates for Proton Exchange Membrane Fuel Cells. , 2009, , . | | 0 |
| 2607 | Transient behavior of integrated carbon nanotube field effect transistor circuits and bio-sensing applications. Proceedings of SPIE, 2009, , . | 0.8 | 2 |
| 2608 | Preparation and properties of PBO/SWNT composite fibers. Proceedings of SPIE, 2009, , . | 0.8 | 1 |
| 2609 | Carbon nanotube structured hydrogen sensors. Proceedings of SPIE, 2009, , . | 0.8 | 0 |
| 2610 | Electronic structure study of Li ⁺ /OH ⁻ modified single-walled carbon nanotubes by soft-x-ray absorption and resonant emission spectroscopy. Applied Physics Letters, 2010, 96, 213112. | 1.5 | 17 |
| 2611 | Dynamic Adsorption Behavior of Surfactants on Single-Wall Carbon Nanotubes in Aqueous Media by Experimentation and Molecular Dynamics Simulation. Journal of the Japan Society of Colour Material, 2010, 84, 39-42. | 0.0 | 2 |
| 2612 | Wave propagation in carbon nanotubes: nonlocal elasticity-induced stiffness and velocity enhancement effects. Journal of Mechanics of Materials and Structures, 2010, 5, 459-476. | 0.4 | 52 |
| 2613 | Functionalization of carboxylated multiwall nanotubes with imidazole derivatives and their toxicity investigations. International Journal of Nanomedicine, 2010, 5, 907. | 3.3 | 27 |
| 2616 | Prussian Blue Electrodeposited on Nano Ag-coated Multiwalled Carbon Nanotubes Composite for the Determination of Hydrogen Peroxide. Analytical Sciences, 2010, 26, 343-347. | 0.8 | 11 |
| 2617 | Simultaneous Determination of Ascorbic Acid and Uric Acid by a New Modified Carbon Nanotube-Paste Electrode Using Chloromercuriferrocene. Analytical Sciences, 2010, 26, 425-430. | 0.8 | 13 |
| 2618 | Layer-by-layer Assembly of Prussian Blue and Carbon Nanotube Composites with Poly(diallyldimethylammonium chloride) for the Sensitive Detection of Hydrogen Peroxide. Analytical Sciences, 2010, 26, 431-435. | 0.8 | 7 |
| 2619 | Optical Resolution of Single-Walled Carbon Nanotubes through Molecular Recognition with Chiral Diporphyrin Nanotweezers. Chemistry Letters, 2010, 39, 1022-1027. | 0.7 | 30 |
| 2620 | Strain Sensing Using Multiwalled Carbon Nanotube Film Subjected to Temperature Variation. , 2010, , . | | 0 |
| 2621 | A Novel Structure for Carbon Nanotube Reinforced Alumina Composites : Effects of Sintering Additives on the Mechanical Properties(<Special Issue>M & M 2009 Conference). Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 416-418. | 0.2 | 0 |
| 2622 | Voltammetric determination of salbutamol on a glassy carbon electrode coated with a nanomaterial thin film. Journal of Analytical Chemistry, 2010, 65, 398-403. | 0.4 | 15 |
| 2623 | Elastic and electrostatic properties of bamboo-shaped carbon nanotubes. Physics of the Solid State, 2010, 52, 1323-1328. | 0.2 | 10 |
| 2624 | Selective growth of single-wall carbon nanotubes and the fabrication of devices on their basis. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 991-993. | 0.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2625 | Simulation of novel superhard carbon materials based on fullerenes and nanotubes. <i>Journal of Superhard Materials</i> , 2010, 32, 67-87. | 0.5 | 23 |
| 2626 | Photophysics of polymer-wrapped single-walled carbon nanotubes. <i>European Physical Journal B</i> , 2010, 75, 121-126. | 0.6 | 22 |
| 2627 | Structural, electronic and magnetic properties of the 3d transition metal atoms adsorbed on boron nitride nanotubes. <i>European Physical Journal B</i> , 2010, 76, 289-299. | 0.6 | 19 |
| 2628 | Investigating the Outskirts of Fe and Co Catalyst Particles in Alumina-Supported Catalytic CVD Carbon Nanotube Growth. <i>ACS Nano</i> , 2010, 4, 1146-1152. | 7.3 | 48 |
| 2629 | A multiscale simulation study of carbon nanotube interactions with designed amphiphilic peptide helices. <i>Nanoscale</i> , 2010, 2, 967. | 2.8 | 26 |
| 2630 | Tailoring Properties of Carbon Nanotube Dispersions and Nanocomposites Using Temperature-Responsive Copolymers of Pyrene-Modified Poly(N-cyclopropylacrylamide). <i>Macromolecules</i> , 2010, 43, 9447-9453. | 2.2 | 23 |
| 2631 | Assembling Exfoliated Layered Double Hydroxide (LDH) Nanosheet/Carbon Nanotube (CNT) Hybrids via Electrostatic Force and Fabricating Nylon Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16766-16772. | 1.2 | 97 |
| 2632 | Fabrication of multiwalled carbon nanotube-reinforced electrospun polymer nanofibers containing zero-valent iron nanoparticles for environmental applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 5700. | 6.7 | 108 |
| 2633 | Synthesis of Carbon Nanostructures by CVD Method. <i>Advanced Structured Materials</i> , 2010, , 23-49. | 0.3 | 47 |
| 2634 | Layer-by-Layer Functionalization of Carbon Nanotubes with Synthetic and Natural Polyelectrolytes. <i>Langmuir</i> , 2010, 26, 2779-2784. | 1.6 | 16 |
| 2635 | Minimization of thin film contact resistance. <i>Applied Physics Letters</i> , 2010, 97, . | 1.5 | 17 |
| 2636 | Water electrolysis and photoelectrolysis on electrodes engineered using biological and bio-inspired molecular systems. <i>Energy and Environmental Science</i> , 2010, 3, 727. | 15.6 | 192 |
| 2637 | Effect of Surface Chemistry on Electronic Properties of Carbon Nanotube Network Thin Film Transistors. <i>ACS Nano</i> , 2010, 4, 6137-6145. | 7.3 | 54 |
| 2638 | Chemical Functionalization of Ultrathin Carbon Nanosheets. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 87-95. | 1.0 | 6 |
| 2639 | Recent progress in the preparation and application of carbon nanocapsules. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 374001. | 1.3 | 23 |
| 2640 | Layer-by-Layer Polymer Coating of Carbon Nanotubes: Tuning of Electrical Conductivity in Random Networks. <i>Journal of the American Chemical Society</i> , 2010, 132, 3751-3755. | 6.6 | 58 |
| 2641 | Novel properties of graphene nanoribbons: a review. <i>Journal of Materials Chemistry</i> , 2010, 20, 8207. | 6.7 | 369 |
| 2642 | Predominant (6,5) Single-Walled Carbon Nanotube Growth on a Copper-Promoted Iron Catalyst. <i>Journal of the American Chemical Society</i> , 2010, 132, 13994-13996. | 6.6 | 164 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2643 | Low frequency vibration of multiwall carbon nanotubes with heterogeneous boundaries. Journal Physics D: Applied Physics, 2010, 43, 085405. | 1.3 | 45 |
| 2644 | Poly(ionic liquid)-Mediated Hybridization of Single-Walled Carbon Nanotubes and Conducting Polymers. Chemistry - an Asian Journal, 2010, 5, 256-260. | 1.7 | 25 |
| 2645 | s-wave scattering of a polarizable atom by an absorbing nanowire. Physical Review A, 2010, 81, . | 1.0 | 5 |
| 2646 | Stick-Spiral Model for Studying Mechanical Properties of Carbon Nanotubes. Challenges and Advances in Computational Chemistry and Physics, 2010, , 297-322. | 0.6 | 0 |
| 2647 | Measuring the lengthening kinetics of aligned nanostructures by spatiotemporal correlation of height and orientation. Nanoscale, 2010, 2, 896. | 2.8 | 38 |
| 2648 | Properties, synthesis, and growth mechanisms of carbon nanotubes with special focus on thermal chemical vapor deposition. Nanoscale, 2010, 2, 1306. | 2.8 | 257 |
| 2649 | Elastic Response of Carbon Nanotube Forests to Aerodynamic Stresses. Physical Review Letters, 2010, 105, 144504. | 2.9 | 37 |
| 2650 | Theoretical and experimental evidence of the role of electromagnetic resonance in the cleaning of nanotubes. Physical Review B, 2010, 81, . | 1.1 | 4 |
| 2651 | Synthesis and Electrophoretic Deposition of Single-Walled Carbon Nanotube Complexes with a Conjugated Polyelectrolyte. Chemistry of Materials, 2010, 22, 2741-2749. | 3.2 | 39 |
| 2652 | Rheological and Tribological Properties of Ionic Liquid-Based Nanofluids Containing Functionalized Multi-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 8749-8754. | 1.5 | 164 |
| 2653 | Graphene-based materials as supercapacitor electrodes. Journal of Materials Chemistry, 2010, 20, 5983. | 6.7 | 1,338 |
| 2654 | Exfoliation and Chemical Modification Using Microwave Irradiation Affording Highly Functionalized Graphene. ACS Nano, 2010, 4, 7499-7507. | 7.3 | 150 |
| 2655 | Ion and electron irradiation-induced effects in nanostructured materials. Journal of Applied Physics, 2010, 107, . | 1.1 | 878 |
| 2656 | Application and toxicity of CNTs in human body. Toxicology and Environmental Health Sciences, 2010, 2, 94-98. | 1.1 | 0 |
| 2657 | Coupled thermogravimetry, mass spectrometry, and infrared spectroscopy for quantification of surface functionality on single-walled carbon nanotubes. Analytical and Bioanalytical Chemistry, 2010, 396, 1037-1044. | 1.9 | 16 |
| 2658 | Applications of TGA in quality control of SWCNTs. Analytical and Bioanalytical Chemistry, 2010, 396, 1071-1077. | 1.9 | 109 |
| 2659 | Kinetics and thermodynamics study for electrosorption of NaCl onto carbon nanotubes and carbon nanofibers electrodes. Chemical Physics Letters, 2010, 485, 161-166. | 1.2 | 121 |
| 2660 | Solvation dynamics of Coumarin 153 in SDS dispersed single walled carbon nanotubes (SWNTs). Chemical Physics Letters, 2010, 501, 33-38. | 1.2 | 17 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2661 | Probing the electrochemical behaviour of SWCNTs-cobalt nanoparticles and their electrocatalytic activities towards the detection of nitrite at acidic and physiological pH conditions. <i>Electrochimica Acta</i> , 2010, 55, 4319-4327. | 2.6 | 66 |
| 2662 | A hydroxylamine electrochemical sensor based on electrodeposition of porous ZnO nanofilms onto carbon nanotubes films modified electrode. <i>Electrochimica Acta</i> , 2010, 55, 2835-2840. | 2.6 | 137 |
| 2663 | Pyrene functionalized single-walled carbon nanotubes as precursors for high performance biosensors. <i>Electrochimica Acta</i> , 2010, 55, 7800-7803. | 2.6 | 30 |
| 2664 | Enhancement of surface and bulk mechanical properties of polycarbonate through the incorporation of raw MWNTs using the twin-screw extruder mixed technique. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 809-814. | 2.9 | 15 |
| 2665 | Carbon nanotube reactor: Ferrocene decomposition, iron particle growth, nanotube aggregation and scale-up. <i>Chemical Engineering Science</i> , 2010, 65, 2965-2977. | 1.9 | 111 |
| 2666 | Thermo-physical properties and TEM analysis of silver based MMCs utilizing metallized multiwall-carbon nanotubes. <i>Composites Science and Technology</i> , 2010, 70, 783-788. | 3.8 | 11 |
| 2667 | The poly(urethane-ionic liquid)/multi-walled carbon nanotubes composites. <i>Composites Science and Technology</i> , 2010, 70, 1697-1703. | 3.8 | 36 |
| 2668 | Influence of MWCNT morphology on dispersion and thermal properties of polyethylene nanocomposites. <i>Polymer Degradation and Stability</i> , 2010, 95, 756-762. | 2.7 | 54 |
| 2669 | Raman and FT-IR studies on dye-assisted dispersion and flocculation of single walled carbon nanotubes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 175-178. | 2.0 | 12 |
| 2670 | Simultaneous determination of ascorbic acid, dopamine and uric acid using polystyrene sulfonate wrapped multiwalled carbon nanotubes bound to graphite electrode through layer-by-layer technique. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 643-650. | 4.0 | 91 |
| 2671 | The effects of alkaline earth metal salts on the performance of a polymer actuator based on single-walled carbon nanotube-ionic liquid gel. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 625-630. | 4.0 | 9 |
| 2672 | Compressive strength of carbon nanotubes grown on carbon fiber reinforced epoxy matrix multi-scale hybrid composites. <i>Surface and Coatings Technology</i> , 2010, 205, 350-355. | 2.2 | 54 |
| 2673 | Cryo-staining techniques in cryo-TEM studies of dispersed nanotubes. <i>Ultramicroscopy</i> , 2010, 110, 751-757. | 0.8 | 13 |
| 2674 | Electrical and thermal conductivities of novel metal mesh hybrid polymer composite bipolar plates for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 509-515. | 4.0 | 26 |
| 2675 | Novel functionalized carbon nanotubes as cross-links reinforced vinyl ester/nanocomposite bipolar plates for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 7808-7817. | 4.0 | 37 |
| 2676 | Preparation and elevated temperature compressive properties of multi-walled carbon nanotube reinforced Ti composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1586-1589. | 2.6 | 68 |
| 2677 | A new technique for dispersion of carbon nanotube in a metal melt. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5335-5340. | 2.6 | 77 |
| 2678 | Preparation of single-walled carbon nanotube (SWNT) gel composites using poly(ionic liquids). <i>Colloid and Polymer Science</i> , 2010, 288, 1013-1018. | 1.0 | 48 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2679 | Electrochemistry of bilirubin oxidase at carbon nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 249-254. | 1.2 | 17 |
| 2680 | Manipulation and patterning of carbon nanotubes utilizing optically induced dielectrophoretic forces. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 609-617. | 1.0 | 39 |
| 2681 | Nanotubes-/nanowires-based, microfluidic-integrated transistors for detecting biomolecules. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 1185-1214. | 1.0 | 28 |
| 2682 | Deformation of metallic single-walled carbon nanotubes in electric field based on elastic theory. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2010, 31, 271-278. | 1.9 | 0 |
| 2683 | Multiwalled carbon nanotubes activate NF- κ B and AP-1 signaling pathways to induce apoptosis in rat lung epithelial cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010, 15, 1507-1516. | 2.2 | 69 |
| 2684 | Fabrication of prussian blue/multi-walled carbon nanotubes modified electrode for electrochemical sensing of hydroxylamine. <i>Mikrochimica Acta</i> , 2010, 168, 129-134. | 2.5 | 23 |
| 2685 | Coordinated buckling of thick multi-walled carbon nanotubes under uniaxial compression. <i>Nano Research</i> , 2010, 3, 32-42. | 5.8 | 22 |
| 2686 | Effect of molecular weight of polymer matrix on the dispersion of MWNTs in HDPE/MWNT and PC/MWNT composites. <i>Macromolecular Research</i> , 2010, 18, 512-518. | 1.0 | 18 |
| 2687 | Controlled wall thickness and porosity of polymeric hollow nanofibers by coaxial electrospinning. <i>Macromolecular Research</i> , 2010, 18, 571-576. | 1.0 | 73 |
| 2688 | Morphology and properties of polyamide/multi-walled carbon nanotube composites. <i>Macromolecular Research</i> , 2010, 18, 660-667. | 1.0 | 31 |
| 2689 | UV curing kinetics and properties of polyurethane acrylate/multi-walled carbon nanotube coatings. <i>Macromolecular Research</i> , 2010, 18, 674-679. | 1.0 | 18 |
| 2690 | Is a nanorod (or nanotube) with a lower Young's modulus stiffer? Is not Young's modulus a stiffness indicator?. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 712-724. | 2.0 | 54 |
| 2691 | A comparison between powders and thin films of single-walled carbon nanotubes for the adsorption behaviors of phenylalanine and glycine by XANES study. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1449-1452. | 2.0 | 0 |
| 2692 | Electronic structure and magnetism of Fe-doped SiC nanotubes. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1582-1589. | 2.0 | 23 |
| 2693 | Solvothermal synthesis and ferromagnetic property of bamboo-shoot-like oriented carbon micromaterials. <i>Science Bulletin</i> , 2010, 55, 3838-3841. | 1.7 | 1 |
| 2694 | Electrochemical investigation of NO at single-wall carbon nanotubes modified electrodes. <i>Journal of Chemical Sciences</i> , 2010, 122, 401-408. | 0.7 | 4 |
| 2695 | Improvement of Wear Resistance in Alumina Matrix Composites Reinforced with Carbon Nanotubes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 380-388. | 1.1 | 9 |
| 2696 | Effect of Multiwalled Carbon Nanotubes on the Thermal Conductivity and Porosity Characteristics of Blast Furnace Carbon Refractories. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 2383-2388. | 1.1 | 6 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 2697 | Field Emission from Silicon Implanted with Carbon and Nitrogen Followed by Electron Beam Annealing. <i>Journal of Electronic Materials</i> , 2010, 39, 1262-1267. | 1.0 | 0 |
| 2698 | Thermal Properties of Carbon Nanotube-Copper Composites for Thermal Management Applications. <i>Nanoscale Research Letters</i> , 2010, 5, 868-874. | 3.1 | 133 |
| 2699 | Protein Functionalized Nanodiamond Arrays. <i>Nanoscale Research Letters</i> , 2010, 5, 1045-1050. | 3.1 | 35 |
| 2700 | Investigation on the Plasma-Induced Emission Properties of Large Area Carbon Nanotube Array Cathodes with Different Morphologies. <i>Nanoscale Research Letters</i> , 2011, 6, 40. | 3.1 | 3 |
| 2701 | Single Walled Carbon Nanotubes Exhibit Dual-Phase Regulation to Exposed Arabidopsis Mesophyll Cells. <i>Nanoscale Research Letters</i> , 2011, 6, 44. | 3.1 | 42 |
| 2702 | Radial Corrugations of Multi-Walled Carbon Nanotubes Driven by Inter-Wall Nonbonding Interactions. <i>Nanoscale Research Letters</i> , 2011, 6, 53. | 3.1 | 17 |
| 2703 | On the mechanism of conductivity enhancement in PEDOT/PSS film doped with multi-walled carbon nanotubes. <i>Journal of Polymer Research</i> , 2010, 17, 713-718. | 1.2 | 58 |
| 2704 | Electrochemical determination of thiamazole at a multi-wall carbon nanotube modified glassy carbon electrode. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1449-1454. | 1.5 | 20 |
| 2705 | On the microstructure of single wall carbon nanotubes reinforced ceramic matrix composites. <i>Journal of Materials Science</i> , 2010, 45, 2258-2263. | 1.7 | 13 |
| 2706 | Economic assessment of single-walled carbon nanotube processes. <i>Journal of Nanoparticle Research</i> , 2010, 12, 551-562. | 0.8 | 43 |
| 2707 | Electronic properties of a silicon carbide nanotube under uniaxial tensile strain: a density function theory study. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2919-2928. | 0.8 | 12 |
| 2708 | In situ carbon nanotube synthesis by the reduction of NiO/Al ₂ O ₃ catalyst in methane. <i>Journal of Natural Gas Chemistry</i> , 2010, 19, 617-621. | 1.8 | 0 |
| 2709 | Mechanical Computing Redux: Relays for Integrated Circuit Applications. <i>Proceedings of the IEEE</i> , 2010, 98, 2076-2094. | 16.4 | 119 |
| 2710 | Preparation of carbon nanotubes by pyrolysis of dimethyl sulfide. <i>Materials Characterization</i> , 2010, 61, 427-432. | 1.9 | 13 |
| 2711 | Fe-based catalysts from Mg/Fe layered double hydroxides for preparation of N-doped carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2010, 122, 612-616. | 2.0 | 8 |
| 2712 | A novel non-catalytic approach for fabrication of bamboo-like carbon nanotubes. <i>Materials Letters</i> , 2010, 64, 86-88. | 1.3 | 7 |
| 2713 | Quantification of ion trapping effect of carbon nanomaterials in liquid crystals. <i>Materials Letters</i> , 2010, 64, 466-468. | 1.3 | 55 |
| 2714 | Scalable preparation of carbon nanotubes by thermal decomposition of phenol with high carbon utilizing rate. <i>Materials Letters</i> , 2010, 64, 2145-2147. | 1.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2715 | In vitro evaluation of cytotoxicity of engineered carbon nanotubes in selected human cell lines. <i>Science of the Total Environment</i> , 2010, 408, 1812-1817. | 3.9 | 68 |
| 2716 | Appreciating the role of carbon nanotube composites in preventing biofouling and promoting biofilms on material surfaces in environmental engineering: A review. <i>Biotechnology Advances</i> , 2010, 28, 802-816. | 6.0 | 154 |
| 2717 | A novel synthesis route for bimetallic CoCr-MCM-41 catalysts with higher metal loadings. Their application in the high yield, selective synthesis of Single-Wall Carbon Nanotubes. <i>Journal of Catalysis</i> , 2010, 271, 358-369. | 3.1 | 25 |
| 2718 | Preparation of Bimodal Porous Carbon Supported PtRu Catalysts for Fuel Cells. <i>Fuel Cells</i> , 2010, 10, 245-250. | 1.5 | 6 |
| 2719 | Direct Electrochemistry and Electrocatalysis Behaviors of Glucose Oxidase Based on Hyaluronic Acid-Carbon Nanotubes-Ionic Liquid Composite Film. <i>Chinese Journal of Chemistry</i> , 2010, 28, 1890-1896. | 2.6 | 6 |
| 2720 | Carbon Nanotubes with Phthalocyanine-Decorated Surface Produced by NH ₃ -Assisted Microwave Reaction and Their Catalytic Performance in Li/SOCl ₂ Battery. <i>Chinese Journal of Chemistry</i> , 2010, 28, 2059-2066. | 2.6 | 11 |
| 2721 | Ion Interactions with the Carbon Nanotube Surface in Aqueous Solutions: Understanding the Molecular Mechanisms. <i>ChemPhysChem</i> , 2010, 11, 2612-2616. | 1.0 | 40 |
| 2722 | A Novel Diameter-Selective Functionalization of SWCNTs with Lithium Alkynylides. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1494-1501. | 1.2 | 34 |
| 2723 | Highly Sensitive and Selective Determination of Dopamine in the Presence of Ascorbic Acid Using Pt@Au/MWNTs Modified Electrode. <i>Electroanalysis</i> , 2010, 22, 237-243. | 1.5 | 17 |
| 2724 | A Simple Layer-by-Layer Assembly Strategy for a Reagentless Biosensor Based on a Nanocomposite of Methylene Blue-Multiwalled Carbon Nanotubes. <i>Electroanalysis</i> , 2010, 22, 277-285. | 1.5 | 18 |
| 2725 | Electrical and Sensing Properties of Single-Walled Carbon Nanotubes Network: Effect of Alignment and Selective Breakdown. <i>Electroanalysis</i> , 2010, 22, 99-105. | 1.5 | 37 |
| 2726 | Understanding the Physicoelectrochemical Properties of Carbon Nanotubes: Current State of the Art. <i>Electroanalysis</i> , 2010, 22, 7-19. | 1.5 | 78 |
| 2727 | A Glassy Carbon Electrode Modified with Multiwalled Carbon Nanotube/Chitosan Composite as a New Sensor for Simultaneous Determination of Acetaminophen and Mefenamic Acid in Pharmaceutical Preparations and Biological Samples. <i>Electroanalysis</i> , 2010, 22, 1743-1749. | 1.5 | 94 |
| 2728 | Carbon Nanotubes-Ionic Liquid and Chlorpromazine Modified Electrode for Determination of NADH and Fabrication of Ethanol Biosensor. <i>Electroanalysis</i> , 2010, 22, 1707-1716. | 1.5 | 43 |
| 2729 | High-Sensitivity Determination of Lead(II) and Cadmium(II) Based on the CNTs-PSS/Bi Composite Film Electrode. <i>Electroanalysis</i> , 2010, 22, 1682-1687. | 1.5 | 53 |
| 2730 | An Amperometric Immunosensor for IgG Based on Conducting Polymer and Carbon Nanotube-Linked Hydrazine Label. <i>Electroanalysis</i> , 2010, 22, 2908-2914. | 1.5 | 15 |
| 2731 | Separation of flavonoids and phenolic acids in complex natural products by microemulsion electrokinetic chromatography using surfactant-coated and carboxylic single-wall carbon nanotubes as additives. <i>Electrophoresis</i> , 2010, 31, 1689-1696. | 1.3 | 38 |
| 2732 | Particle trapping using dielectrophoretically patterned carbon nanotubes. <i>Electrophoresis</i> , 2010, 31, 1366-1375. | 1.3 | 24 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2733 | Application of carbon nanotubes for inâ€capillary incubations with cytochrome P450 enzymes. <i>Electrophoresis</i> , 2010, 31, 3867-3873. | 1.3 | 14 |
| 2734 | Processing Technologies for 3D Nanostructured Tissue Engineering Scaffolds. <i>Advanced Engineering Materials</i> , 2010, 12, B467. | 1.6 | 36 |
| 2735 | Hierarchical Composites of Single/Doubleâ€Walled Carbon Nanotubes Interlinked Flakes from Direct Carbon Deposition on Layered Double Hydroxides. <i>Advanced Functional Materials</i> , 2010, 20, 677-685. | 7.8 | 123 |
| 2736 | A Reusable Interface Constructed by 3â€Aminophenylboronic Acidâ€Functionalized Multiwalled Carbon Nanotubes for Cell Capture, Release, and Cytosensing. <i>Advanced Functional Materials</i> , 2010, 20, 992-999. | 7.8 | 83 |
| 2737 | Preparation of Highâ€Performance Conductive Polymer Fibers through Morphological Control of Networks Formed by Nanofillers. <i>Advanced Functional Materials</i> , 2010, 20, 1424-1432. | 7.8 | 117 |
| 2738 | The Critical Role of the Underlayer Material and Thickness in Growing Vertically Aligned Carbon Nanotubes and Nanofibers on Metallic Substrates by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2010, 20, 1306-1312. | 7.8 | 43 |
| 2739 | A Waveguideâ€Like Effect Observed in Multiwalled Carbon Nanotube Bundles. <i>Advanced Functional Materials</i> , 2010, 20, 2263-2268. | 7.8 | 5 |
| 2740 | Class Fibers with Carbon Nanotube Networks as Multifunctional Sensors. <i>Advanced Functional Materials</i> , 2010, 20, 1885-1893. | 7.8 | 173 |
| 2741 | Towards Efficient Dispersion of Carbon Nanotubes in Thermotropic Liquid Crystals. <i>Advanced Functional Materials</i> , 2010, 20, 3350-3357. | 7.8 | 78 |
| 2742 | Carbon Nanotubes on Polymeric Microcapsules: Freeâ€Standing Structures and Pointâ€Wise Laser Openings. <i>Advanced Functional Materials</i> , 2010, 20, 3136-3142. | 7.8 | 66 |
| 2743 | Tailoring the Electrical Properties of Carbon Nanotubeâ€Polymer Composites. <i>Advanced Functional Materials</i> , 2010, 20, 4062-4068. | 7.8 | 125 |
| 2744 | Ultrathin Electronic Composite Sheets of Metallic/Semiconducting Carbon Nanotubes Embedded in Conjugated Block Copolymers. <i>Advanced Functional Materials</i> , 2010, 20, 4305-4313. | 7.8 | 17 |
| 2745 | A General and Efficient Route to Fabricate Carbon Nanotubeâ€Metal Nanoparticles and Carbon Nanotubeâ€Inorganic Oxides Hybrids. <i>Advanced Functional Materials</i> , 2010, 20, 3864-3873. | 7.8 | 82 |
| 2746 | Branched Silicon Nanotubes and Metal Nanowires via AAOâ€Templateâ€Assistant Approach. <i>Advanced Functional Materials</i> , 2010, 20, 3791-3796. | 7.8 | 50 |
| 2747 | Carbon Nanotubes Anchored to Silicon for Device Fabrication. <i>Advanced Materials</i> , 2010, 22, 557-571. | 11.1 | 27 |
| 2748 | Recent Advances in Research on Carbon Nanotubeâ€Polymer Composites. <i>Advanced Materials</i> , 2010, 22, 1672-1688. | 11.1 | 788 |
| 2749 | Nanotube Surfactant Design: The Versatility of Waterâ€Soluble Perylene Bisimides. <i>Advanced Materials</i> , 2010, 22, 788-802. | 11.1 | 134 |
| 2750 | 100â€%mm Long, Semiconducting Tripleâ€Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2010, 22, 1867-1871. | 11.1 | 91 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 2751 | Continuous Multilayered Carbon Nanotube Yarns. <i>Advanced Materials</i> , 2010, 22, 692-696. | 11.1 | 258 |
| 2752 | High-Performance Thin-Film Transistors with DNA-Assisted Solution Processing of Isolated Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2010, 22, 2698-2701. | 11.1 | 54 |
| 2753 | Dispersion and Alignment of Carbon Nanotubes in Liquid Crystalline Polymers and Elastomers. <i>Advanced Materials</i> , 2010, 22, 3436-3440. | 11.1 | 162 |
| 2754 | Interfacial Stress Transfer in a Graphene Monolayer Nanocomposite. <i>Advanced Materials</i> , 2010, 22, 2694-2697. | 11.1 | 551 |
| 2755 | Nanostructured Fe ₃ O ₄ /SWNT Electrode: Binder-Free and High-Rate Li-Ion Anode. <i>Advanced Materials</i> , 2010, 22, E145-9. | 11.1 | 556 |
| 2756 | New Concepts and Applications in the Macromolecular Chemistry of Fullerenes. <i>Advanced Materials</i> , 2010, 22, 4220-4248. | 11.1 | 119 |
| 2757 | Facile and Scalable Fabrication of Well-Aligned and Closely Packed Single-Walled Carbon Nanotube Films on Various Substrates. <i>Advanced Materials</i> , 2010, 22, 3067-3070. | 11.1 | 45 |
| 2761 | Binary Au/MWCNT and Ternary Au/ZnO/MWCNT Nanocomposites: Synthesis, Characterisation and Catalytic Performance. <i>Chemistry - A European Journal</i> , 2010, 16, 2300-2308. | 1.7 | 33 |
| 2762 | Cluster-Based Self-Assembly Route toward MoO ₃ Single-Walled Nanotubes. <i>Chemistry - A European Journal</i> , 2010, 16, 1889-1896. | 1.7 | 40 |
| 2763 | Direct Growth of Single-Crystal Pt Nanowires on Sn@CNT Nanocable: 3D Electrodes for Highly Active Electrocatalysts. <i>Chemistry - A European Journal</i> , 2010, 16, 829-835. | 1.7 | 117 |
| 2764 | Dispersing Carbon Nanotubes with Graphene Oxide in Water and Synergistic Effects between Graphene Derivatives. <i>Chemistry - A European Journal</i> , 2010, 16, 10653-10658. | 1.7 | 373 |
| 2767 | Nanostructured Carbonaceous Materials from Molecular Precursors. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6496-6515. | 7.2 | 144 |
| 2768 | Cationic Tubules with Tunable Charge. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6604-6607. | 7.2 | 55 |
| 2769 | Synthesis and characterization of a polymer/multiwalled carbon nanotube composite and its application in the hydration of ethylene oxide. <i>Journal of Applied Polymer Science</i> , 2010, 115, 2946-2954. | 1.3 | 14 |
| 2770 | Enhancement of dispersion of carbon nanotube and physical properties of poly(styrene-co-acrylonitrile)/multiwalled carbon nanotube nanocomposite via surface initiated ATRP. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2930-2936. | 1.3 | 3 |
| 2771 | Hydrogel-MWCNT nanocomposites: Synthesis, characterization, and heating with radiofrequency fields. <i>Journal of Applied Polymer Science</i> , 2010, 117, 1813-1819. | 1.3 | 31 |
| 2772 | Preparation and properties of the single-walled carbon nanotube/cellulose nanocomposites using N-methylmorpholine-N-oxide monohydrate. <i>Journal of Applied Polymer Science</i> , 2010, 117, 3588-3594. | 1.3 | 16 |
| 2773 | Polypropylene/carbon nanotube composites prepared with an environmentally benign process. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1335-1340. | 1.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 2774 | Carbon nanotube reinforced rigid rod polyimide. Journal of Applied Polymer Science, 2010, 118, 359-365. | 1.3 | 21 |
| 2775 | Reinforcing rubber with carbon nanotubes. Journal of Applied Polymer Science, 2010, 118, 1574-1581. | 1.3 | 40 |
| 2776 | Carbon nanotubes assisted polyacrylamide gel electrophoresis for enhanced separation of human serum proteins and application in liverish diagnosis. Journal of Separation Science, 2010, 33, 3393-3399. | 1.3 | 9 |
| 2777 | Surface induced Polymer Crystallization in High Volume Fraction Aligned Carbon Nanotube Polymer Composites. Macromolecular Chemistry and Physics, 2010, 211, 1003-1011. | 1.1 | 41 |
| 2778 | Ternary Poly(styrene-co-acrylonitrile)/Poly(vinyl chloride) Blend Composites with Multi-Walled Carbon Nanotubes and Enhanced Physical Characteristics. Macromolecular Materials and Engineering, 2010, 295, 329-335. | 1.7 | 13 |
| 2779 | Processing of Poly(propylene)/Carbon Nanotube Composites using scCO_2 Assisted Mixing. Macromolecular Materials and Engineering, 2010, 295, 566-574. | 1.7 | 12 |
| 2780 | Advances in Dielectric Elastomers for Actuators and Artificial Muscles. Macromolecular Rapid Communications, 2010, 31, 10-36. | 2.0 | 1,245 |
| 2781 | Radiation modification of polyvinyl chloride nanocomposites with multi-walled carbon nanotubes. Materialwissenschaft Und Werkstofftechnik, 2010, 41, 675-681. | 0.5 | 5 |
| 2782 | Influence of field evaporation treatment on the field emission properties of carbon nanotubes array. Applied Surface Science, 2010, 256, 3912-3916. | 3.1 | 4 |
| 2783 | A facile method to modify carbon nanotubes with nitro/amino groups. Applied Surface Science, 2010, 256, 6060-6064. | 3.1 | 56 |
| 2784 | Synthesis of multi-walled carbon nanotubes using Co-Fe-Mo/ Al_2O_3 catalytic powders in a fluidized bed reactor. Advanced Powder Technology, 2010, 21, 93-99. | 2.0 | 30 |
| 2785 | A novel purification method of carbon nanotubes by high-temperature treatment with tetrachloromethane. Separation and Purification Technology, 2010, 71, 331-336. | 3.9 | 22 |
| 2786 | Direct fibre simulation of carbon nanofibres suspensions in a Newtonian fluid under simple shear. Journal of Colloid and Interface Science, 2010, 347, 183-191. | 5.0 | 10 |
| 2787 | Nanoindentation of surfactant aggregates. Journal of Colloid and Interface Science, 2010, 349, 196-204. | 5.0 | 3 |
| 2788 | Electrophoretic deposition of carbon nanotube ceramic nanocomposites. Journal of the European Ceramic Society, 2010, 30, 1115-1129. | 2.8 | 158 |
| 2789 | Nicotine adsorption on single wall carbon nanotubes. Journal of Hazardous Materials, 2010, 184, 678-683. | 6.5 | 19 |
| 2790 | Self-similar organization of arrays of individual carbon nanotubes and carbon nanotube micropillars. Microelectronic Engineering, 2010, 87, 1233-1238. | 1.1 | 48 |
| 2791 | Controlled growth and modification of vertically-aligned carbon nanotubes for multifunctional applications. Materials Science and Engineering Reports, 2010, 70, 63-91. | 14.8 | 118 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2792 | Fabrication and electrical properties of graphene nanoribbons. <i>Materials Science and Engineering Reports</i> , 2010, 70, 341-353. | 14.8 | 83 |
| 2793 | Removal of oxidative carbonaceous fragments by annealing treatment studied by XANES. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 619, 323-325. | 0.7 | 1 |
| 2794 | Preparation, characterization and electrical conductivity studies of MWCNT/ZnO nanoparticles hybrid. <i>Physica B: Condensed Matter</i> , 2010, 405, 1709-1714. | 1.3 | 33 |
| 2795 | Carbon-supported manganese oxide nanocatalysts for rechargeable lithium-air batteries. <i>Journal of Power Sources</i> , 2010, 195, 1370-1374. | 4.0 | 230 |
| 2796 | Functionalizing carbon nanotubes for proton exchange membrane fuel cells electrode. <i>Journal of Power Sources</i> , 2010, 195, 6255-6261. | 4.0 | 97 |
| 2797 | Study on dispersion and electrical property of multi-walled carbon nanotubes/low-density polyethylene nanocomposites. <i>Materials & Design</i> , 2010, 31, 1676-1683. | 5.1 | 26 |
| 2798 | Low-energy electronic structures of nanotube-graphene hybrid carbon systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 744-747. | 1.3 | 11 |
| 2799 | Scale effects on the longitudinal wave propagation in nanoplates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1356-1360. | 1.3 | 81 |
| 2800 | Fabrication of a multi-layered carbon nanotube/SiC stack structure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 767-770. | 1.3 | 3 |
| 2801 | Growth and morphology of carbon nanostructures by microwave-assisted pyrolysis of methane. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2103-2108. | 1.3 | 15 |
| 2802 | Effect of C-supported Co catalyst on the ethanol decomposition to produce hydrogen and multi-walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2280-2284. | 1.3 | 11 |
| 2803 | Geometry and temperature dependent thermal conductivity of diamond nanowires: A non-equilibrium molecular dynamics study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 155-160. | 1.3 | 37 |
| 2804 | Vibration analysis of a single-walled carbon nanotube under action of a moving harmonic load based on nonlocal elasticity theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 182-191. | 1.3 | 191 |
| 2805 | Analytic studies of high quality singlewall carbon nanotubes synthesized on a novel Fe:Mo:MgO catalyst. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 552-558. | 1.3 | 8 |
| 2806 | Free vibration characteristics of double-walled carbon nanotubes embedded in an elastic medium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2670-2674. | 0.9 | 43 |
| 2807 | Understanding of temperature and size dependences of effective thermal conductivity of nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4312-4315. | 0.9 | 66 |
| 2808 | Vibrational analysis of double-walled carbon nanotubes with inner and outer nanotubes of different lengths. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4684-4689. | 0.9 | 20 |
| 2809 | Magnetically processed carbon nanotube/epoxy nanocomposites: Morphology, thermal, and mechanical properties. <i>Polymer</i> , 2010, 51, 1614-1620. | 1.8 | 149 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2810 | Influence of shear deformation on carbon nanotube networks in polycarbonate melts: Interplay between build-up and destruction of agglomerates. <i>Polymer</i> , 2010, 51, 201-210. | 1.8 | 136 |
| 2811 | Synthesis and processing of PMMA carbon nanotube nanocomposite foams. <i>Polymer</i> , 2010, 51, 655-664. | 1.8 | 141 |
| 2812 | Localization of carbon nanotubes at the interface in blends of polyamide and ethyleneacrylate copolymer. <i>Polymer</i> , 2010, 51, 1341-1354. | 1.8 | 196 |
| 2813 | Effects of carbon nanotubes on rheological behavior in cellulose solution dissolved at low temperature. <i>Polymer</i> , 2010, 51, 2748-2754. | 1.8 | 23 |
| 2814 | UV-assisted grafting of polymers: A method towards biocompatible carbon nanotubes. <i>Polymer</i> , 2010, 51, 2465-2471. | 1.8 | 21 |
| 2815 | The ROMP toolbox upgraded. <i>Polymer</i> , 2010, 51, 2927-2946. | 1.8 | 452 |
| 2816 | The effects of Li salts on the performance of a polymer actuator based on single-walled carbon nanotube-ionic liquid gel. <i>Polymer</i> , 2010, 51, 3372-3376. | 1.8 | 18 |
| 2817 | A single degree of freedom "lollipop" model for carbon nanotube bundle formation. <i>Journal of the Mechanics and Physics of Solids</i> , 2010, 58, 409-427. | 2.3 | 71 |
| 2818 | Transient shear rheology of carbon nanofiber/polystyrene melt composites. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 98-109. | 1.0 | 18 |
| 2819 | Preparation and hydrogen storage of activated rayon-based carbon fibers with high specific surface area. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 444-447. | 1.9 | 35 |
| 2820 | Fabrication and characterization of magnetic Fe ₃ O ₄ /CNT composites. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 673-676. | 1.9 | 82 |
| 2821 | Effect of piezoelectric material on hydrogen adsorption. <i>Fuel Processing Technology</i> , 2010, 91, 1087-1089. | 3.7 | 6 |
| 2822 | The synergy between multi-wall carbon nanotubes and Vulcan XC72R in microporous layers. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 9241-9251. | 3.8 | 55 |
| 2823 | Hydrogen is not an utopia for Turkey. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 9-18. | 3.8 | 9 |
| 2824 | Thermoelectric power in ultrathin films, quantum wires and carbon nanotubes under classically large magnetic field: Simplified theory and relative comparison. <i>Physica B: Condensed Matter</i> , 2010, 405, 472-498. | 1.3 | 6 |
| 2825 | First-principles study of the electronic transport properties of the carbon nanobuds. <i>Physica B: Condensed Matter</i> , 2010, 405, 2097-2101. | 1.3 | 16 |
| 2826 | Microstructural characterization of alumina-coated multi-walled carbon nanotubes synthesized by hydrothermal crystallization. <i>Physica B: Condensed Matter</i> , 2010, 405, 3312-3315. | 1.3 | 9 |
| 2827 | Effect of annealing temperature on electrochemical characteristics of ruthenium oxide/multi-walled carbon nanotube composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 167, 65-69. | 1.7 | 22 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2828 | Silicon nanostructures for bioapplications. <i>Nano Today</i> , 2010, 5, 282-295. | 6.2 | 256 |
| 2829 | Energy loss of protons in carbon nanotubes: Experiments and calculations. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1781-1785. | 0.6 | 9 |
| 2830 | An empirical equation for electrical resistivity of thermoplastic polymer/multi-walled carbon nanotube composites. <i>Carbon</i> , 2010, 48, 1939-1944. | 5.4 | 16 |
| 2831 | Dispersion of pristine single-walled carbon nanotubes using pyrene-capped polystyrene and its application for preparation of polystyrene matrix composites. <i>Carbon</i> , 2010, 48, 2603-2612. | 5.4 | 67 |
| 2832 | Comparison of single-walled carbon nanotube growth from Fe and Ni nanoparticles using quantum chemical molecular dynamics methods. <i>Carbon</i> , 2010, 48, 3014-3026. | 5.4 | 42 |
| 2833 | An electrochemically enhanced solid-phase microextraction approach based on a multi-walled carbon nanotubes/Nafion composite coating. <i>Journal of Chromatography A</i> , 2010, 1217, 1735-1741. | 1.8 | 59 |
| 2834 | Modification of vertically aligned carbon nanotubes with RuO ₂ for a solid-state pH sensor. <i>Electrochimica Acta</i> , 2010, 55, 2859-2864. | 2.6 | 80 |
| 2835 | Isotactic polypropylene/carbon nanotube composites prepared by latex technology: Electrical conductivity study. <i>European Polymer Journal</i> , 2010, 46, 1833-1843. | 2.6 | 42 |
| 2836 | Surface free energy and super-hydrophobic coating of multi-walled carbon nanotubes by 3:1 TMCS/toluene glow discharge plasma under low pressure. <i>Thin Solid Films</i> , 2010, 518, 6619-6623. | 0.8 | 8 |
| 2837 | One-pot synthesis of one-dimensional array Pt nanoparticles on carbon nanotubes via a facile microwave polyol method. <i>Superlattices and Microstructures</i> , 2010, 47, 705-709. | 1.4 | 9 |
| 2838 | The influence of structure on the thermal conductivities of low-dimensional carbon materials. <i>Solid State Communications</i> , 2010, 150, 1321-1324. | 0.9 | 7 |
| 2839 | Electronic structures and transport properties of sulfurized carbon nanotubes. <i>Solid State Communications</i> , 2010, 150, 2015-2019. | 0.9 | 9 |
| 2840 | Entropy-driven adsorption of carbon nanotubes on (0 0 1) and (1 1 1) surfaces of CeO ₂ islands grown on sapphire substrate. <i>Surface Science</i> , 2010, 604, 654-659. | 0.8 | 12 |
| 2841 | Solid-state electrochemiluminescence analysis with coreactant of the immobilized tris(2,2'-bipyridyl) ruthenium. <i>Analytical Biochemistry</i> , 2010, 402, 1-12. | 1.1 | 24 |
| 2842 | Fabrication and characterisation of protein fibril- <i>elastomer</i> composites. <i>Acta Biomaterialia</i> , 2010, 6, 1337-1341. | 4.1 | 19 |
| 2843 | The effects of carbon concentration in the precursor gas on the quality and quantity of carbon nanotubes synthesized by CVD method. <i>Applied Catalysis A: General</i> , 2010, 372, 147-152. | 2.2 | 35 |
| 2844 | Field emission characteristics of carbon nanotubes post-treated with high-density Ar plasma. <i>Applied Surface Science</i> , 2010, 256, 2184-2188. | 3.1 | 10 |
| 2845 | Effect of micro and nanoparticle inorganic fillers on the field emission characteristics of photosensitive carbon nanotube pastes. <i>Applied Surface Science</i> , 2010, 256, 2636-2642. | 3.1 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2846 | A facile, green, and tunable method to functionalize carbon nanotubes with water-soluble azo initiators by one-step free radical addition. <i>Applied Surface Science</i> , 2010, 256, 3286-3292. | 3.1 | 50 |
| 2847 | Pyridine-thermal synthesis and high catalytic activity of CeO ₂ /CuO/CNT nanocomposites. <i>Applied Surface Science</i> , 2010, 256, 6795-6800. | 3.1 | 45 |
| 2848 | Light radiation through a transparent cathode plate with single-walled carbon nanotube field emitters. <i>Applied Surface Science</i> , 2010, 256, 6838-6842. | 3.1 | 4 |
| 2849 | Functionalization of carbon nanotubes with silver clusters. <i>Applied Surface Science</i> , 2010, 256, 7048-7055. | 3.1 | 29 |
| 2850 | Effect of sulfur on the growth of carbon nanotubes by detonation-assisted chemical vapor deposition. <i>Applied Surface Science</i> , 2010, 257, 932-936. | 3.1 | 11 |
| 2851 | A novel immunosensor based on gold nanoparticles and poly-(2,6-pyridinediamine)/multiwall carbon nanotubes composite for immunoassay of human chorionic gonadotrophin. <i>Biochemical Engineering Journal</i> , 2010, 51, 95-101. | 1.8 | 38 |
| 2852 | Synthesis of γ -Al ₂ O ₃ nanowires through a boehmite precursor route. <i>Ceramics International</i> , 2010, 36, 1773-1777. | 2.3 | 28 |
| 2853 | Effects of diameter, length, chirality and defects on the scavenging action of single-walled carbon nanotubes for OH radicals: A quantum computational study. <i>Chemical Physics</i> , 2010, 369, 101-107. | 0.9 | 13 |
| 2854 | Multi-wall carbon nanotubes bonding on silica-hydride surfaces for open-tubular capillary electrochromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 715-721. | 1.8 | 89 |
| 2855 | Adsorption of light alkanes and alkenes onto single-walled carbon nanotube bundles: Langmuirian analysis and molecular simulations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 357, 43-52. | 2.3 | 29 |
| 2856 | Dispersion of multiwalled carbon nanotubes by ionic liquid-type Gemini imidazolium surfactants in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 359, 66-70. | 2.3 | 83 |
| 2857 | Lyotropic liquid crystalline phases formed in binary mixture of 1-tetradecyl-3-methylimidazolium chloride/ethylammonium nitrate and its application in the dispersion of multi-walled carbon nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 369, 95-100. | 2.3 | 23 |
| 2858 | Fabrication and effective thermal conductivity of multi-walled carbon nanotubes reinforced Cu matrix composites for heat sink applications. <i>Composites Science and Technology</i> , 2010, 70, 298-304. | 3.8 | 230 |
| 2859 | Mechanical behavior of self-assembled carbon nanotube reinforced nylon 6,6 fibers. <i>Composites Science and Technology</i> , 2010, 70, 1401-1409. | 3.8 | 115 |
| 2860 | Effect of organic modification of sepiolite for PA 6 polymer/organoclay nanocomposites. <i>Composites Science and Technology</i> , 2010, 70, 1429-1436. | 3.8 | 128 |
| 2861 | Synthesis, microstructure and mechanical properties of Yttria Stabilized Zirconia (3YTZP) α Multi-Walled Nanotube (MWNTs) nanocomposite by direct in-situ growth of MWNTs on Zirconia particles. <i>Composites Science and Technology</i> , 2010, 70, 2086-2092. | 3.8 | 55 |
| 2862 | Electrochemical DNA biosensor based on chitosan/nano-V ₂ O ₅ /MWCNTs composite film modified carbon ionic liquid electrode and its application to the LAMP product of <i>Yersinia enterocolitica</i> gene sequence. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1264-1270. | 5.3 | 149 |
| 2863 | Effect of thin aluminum interlayer on growth and microstructure of carbon nanotubes. <i>Current Applied Physics</i> , 2010, 10, 407-410. | 1.1 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2864 | Synthesis of the electro-catalyst supported on mesoporous carbon via imprinting method for polymer electrolyte fuel cells. <i>Current Applied Physics</i> , 2010, 10, S69-S72. | 1.1 | 4 |
| 2865 | Electron field emission from transparent multiwalled carbon nanotube sheets for inverted field emission displays. <i>Carbon</i> , 2010, 48, 41-46. | 5.4 | 123 |
| 2866 | Molecular phonon couplers at carbon nanotube/substrate interface to enhance interfacial thermal transport. <i>Carbon</i> , 2010, 48, 107-113. | 5.4 | 64 |
| 2867 | Tailoring the field emission property of nitrogen-doped carbon nanotubes by controlling the graphitic/pyridinic substitution. <i>Carbon</i> , 2010, 48, 191-200. | 5.4 | 122 |
| 2868 | Gels of carbon nanotubes and a nonionic surfactant prepared by mechanical grinding. <i>Carbon</i> , 2010, 48, 293-299. | 5.4 | 27 |
| 2869 | Hydrogen storage in carbon nanotubes revisited. <i>Carbon</i> , 2010, 48, 452-455. | 5.4 | 190 |
| 2870 | DFT and tight binding Monte Carlo calculations related to single-walled carbon nanotube nucleation and growth. <i>Carbon</i> , 2010, 48, 470-478. | 5.4 | 44 |
| 2871 | Selective-combustion purification of bulk carbonaceous solids to produce graphitic nanostructures. <i>Carbon</i> , 2010, 48, 501-508. | 5.4 | 26 |
| 2872 | Tuning of Fe catalysts for growth of spin-capable carbon nanotubes. <i>Carbon</i> , 2010, 48, 538-547. | 5.4 | 52 |
| 2873 | Effects of electric potential on hydrogen adsorption. <i>Carbon</i> , 2010, 48, 876-880. | 5.4 | 8 |
| 2874 | Diameter- and length-dependent self-organizations of multi-walled carbon nanotubes on spherical alumina microparticles. <i>Carbon</i> , 2010, 48, 1159-1170. | 5.4 | 63 |
| 2875 | Near-infrared photoresponse in single-walled carbon nanotube/polymer composite films. <i>Carbon</i> , 2010, 48, 1539-1544. | 5.4 | 22 |
| 2876 | Solubilization of carbon nanotubes by cellulose xanthate toward the fabrication of enhanced amperometric detectors. <i>Carbon</i> , 2010, 48, 1380-1387. | 5.4 | 21 |
| 2877 | Carbon dioxide-assisted fabrication of self-organized tubular carbon micropatterns on silicon substrates. <i>Carbon</i> , 2010, 48, 1465-1472. | 5.4 | 14 |
| 2878 | A Raman spectroscopy study of the solubilisation of SWCNTs by polycyclic aromatic hydrocarbons. <i>Carbon</i> , 2010, 48, 1489-1497. | 5.4 | 10 |
| 2879 | Controlled generation of oxygen functionalities on the surface of Single-Walled Carbon Nanotubes by HNO ₃ hydrothermal oxidation. <i>Carbon</i> , 2010, 48, 1515-1523. | 5.4 | 63 |
| 2880 | Density functional theory evidence for an electron hopping process in single-walled carbon nanotube-mediated redox reactions. <i>Carbon</i> , 2010, 48, 1524-1530. | 5.4 | 5 |
| 2881 | Crystallization induced block copolymer decoration on carbon nanotubes. <i>Carbon</i> , 2010, 48, 1680-1683. | 5.4 | 23 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2882 | Study of fire retardant behavior of carbon nanotube membranes and carbon nanofiber paper in carbon fiber reinforced epoxy composites. Carbon, 2010, 48, 1799-1806. | 5.4 | 140 |
| 2883 | Tailored production of nanostructured metal/carbon foam by laser ablation of selected organometallic precursors. Carbon, 2010, 48, 1807-1814. | 5.4 | 13 |
| 2884 | Understanding the scattering mechanism of single-walled carbon nanotube based gas sensors. Carbon, 2010, 48, 1970-1976. | 5.4 | 13 |
| 2885 | Hydrogen-bond acidic functionalized carbon nanotubes (CNTs) with covalently-bound hexafluoroisopropanol groups. Carbon, 2010, 48, 2085-2088. | 5.4 | 23 |
| 2886 | Noncovalent functionalization of carbon nanotubes with maleimide polymers applicable to high-melting polymer-based composites. Carbon, 2010, 48, 2308-2316. | 5.4 | 50 |
| 2887 | Raman spectroelectrochemistry of a single-wall carbon nanotube bundle. Carbon, 2010, 48, 2582-2589. | 5.4 | 16 |
| 2888 | A theoretical study of possible shape and phase changes of carbon nanotube crystals during contraction and expansion. Carbon, 2010, 48, 2948-2952. | 5.4 | 1 |
| 2889 | Nitrogen doped carbon nanotubes and their impact on the oxygen reduction reaction in fuel cells. Carbon, 2010, 48, 3057-3065. | 5.4 | 347 |
| 2890 | Spinnable carbon nanotube forests grown on thin, flexible metallic substrates. Carbon, 2010, 48, 3621-3627. | 5.4 | 112 |
| 2891 | Plasma-chemical bromination of graphitic materials and its use for subsequent functionalization and grafting of organic molecules. Carbon, 2010, 48, 3884-3894. | 5.4 | 67 |
| 2892 | Epoxy-silicone filled with multi-walled carbon nanotubes and carbonyl iron particles as a microwave absorber. Carbon, 2010, 48, 4074-4080. | 5.4 | 291 |
| 2893 | Torsional elastic instability of double-walled carbon nanotubes. Carbon, 2010, 48, 4362-4368. | 5.4 | 16 |
| 2894 | Tailoring optical and electrical properties of carbon nanotube networks for photovoltaic applications. Carbon, 2010, 48, 4397-4402. | 5.4 | 14 |
| 2895 | Focused ion beam milling of carbon nanotube yarns to study the relationship between structure and strength. Carbon, 2010, 48, 4450-4456. | 5.4 | 55 |
| 2896 | Lithium salt of end-substituted nanotube: Structure and large nonlinear optical property. Chemical Physics Letters, 2010, 488, 182-186. | 1.2 | 36 |
| 2897 | Bond switching regimes in nickel and nickel- ⁶⁴ carbon nanoclusters. Chemical Physics Letters, 2010, 488, 202-205. | 1.2 | 22 |
| 2898 | Electrochemistry and electrochemiluminescence study of blue luminescent carbon nanocrystals. Chemical Physics Letters, 2010, 493, 296-298. | 1.2 | 39 |
| 2899 | SAM-modified microdisc electrode arrays (MDEAs) with functionalized carbon nanotubes. Electrochimica Acta, 2010, 55, 4247-4255. | 2.6 | 19 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2900 | Development of an amperometric enzyme electrode biosensor for sterigmatocystin detection. <i>Enzyme and Microbial Technology</i> , 2010, 47, 119-126. | 1.6 | 38 |
| 2901 | Heating fluid from aqueous dispersion of metallic to semiconducting particles. <i>International Journal of Thermal Sciences</i> , 2010, 49, 2000-2007. | 2.6 | 2 |
| 2902 | Form factor of an <i>N</i> -layered helical tape and its application to nanotube formation of hexa-peri-hexabenzocoronene-based molecules. <i>Journal of Applied Crystallography</i> , 2010, 43, 850-857. | 1.9 | 13 |
| 2903 | Making "smart polymers" smarter: Modern concepts to regulate functions in polymer science. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1-14. | 2.5 | 59 |
| 2904 | Synthesis and electrical properties of polyaniline/polyaniline grafted multiwalled carbon nanotube mixture via <i>in situ</i> static interfacial polymerization. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1962-1972. | 2.5 | 32 |
| 2905 | Poly(<i>N</i> -benzyl-L-glutamate)-functionalized single-walled carbon nanotubes from surface-initiated ring-opening polymerizations of <i>N</i> -carboxylanhydride. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2340-2350. | 2.5 | 24 |
| 2906 | Characterization and electrical transport properties of polyaniline and multiwall carbon nanotube composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1767-1775. | 2.4 | 21 |
| 2907 | Functionalization of Carbon Nanotubes by Corona-Discharge Induced Graft Polymerization for the Reinforcement of Epoxy Nanocomposites. <i>Plasma Processes and Polymers</i> , 2010, 7, 785-793. | 1.6 | 43 |
| 2908 | Optically active nanoparticles: Fullerenes, carbon nanotubes, and metal nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1889-1897. | 0.7 | 16 |
| 2909 | Improved sorting of carbon nanotubes according to electronic type by density gradient ultracentrifugation. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2687-2690. | 0.7 | 14 |
| 2910 | Mechanism study of floating catalyst CVD synthesis of SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2708-2712. | 0.7 | 8 |
| 2911 | Metal/semiconductor separation of single-wall carbon nanotubes by selective adsorption and desorption for agarose gel. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2867-2870. | 0.7 | 25 |
| 2912 | New Confinement Method for the Formation of Highly Aligned and Densely Packed Single-Walled Carbon Nanotube Monolayers. <i>Small</i> , 2010, 6, 1488-1491. | 5.2 | 17 |
| 2913 | Composite Yarns of Multiwalled Carbon Nanotubes with Metallic Electrical Conductivity. <i>Small</i> , 2010, 6, 1806-1811. | 5.2 | 130 |
| 2914 | Rapid Patterning of Single-Wall Carbon Nanotubes by Interlayer Lithography. <i>Small</i> , 2010, 6, 2530-2534. | 5.2 | 18 |
| 2915 | Heparin-based nanoparticles. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010, 2, 77-87. | 3.3 | 105 |
| 2916 | Electrochemical fabrication and capacitance of composite films of carbon nanotubes and polyaniline. <i>Surface and Interface Analysis</i> , 2010, 42, 1266-1270. | 0.8 | 29 |
| 2917 | Tuning Array Morphology for High-Strength Carbon Nanotube Fibers. <i>Small</i> , 2010, 6, 132-137. | 5.2 | 79 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 2918 | Oneâ€Dimensional Heterostructures of Singleâ€Walled Carbon Nanotubes and CdSe Nanowires. Small, 2010, 6, 376-380. | 5.2 | 17 |
| 2919 | Grapheneâ€Based Optically Transparent Electrodes for Spectroelectrochemistry in the UVâ€Vis Region. Small, 2010, 6, 184-189. | 5.2 | 86 |
| 2920 | Influence of initial mixing methods on meltâ€extruded singleâ€walled carbon nanotubeâ€polypropylene nanocomposites. Polymer Engineering and Science, 2010, 50, 1831-1842. | 1.5 | 14 |
| 2921 | Synthesis of Nanotube Array Composed of an Amorphous Matrix Embedded with NaClâ€Type SiC Crystallites by Chemical Vapor Infiltration Techniques. Journal of the American Ceramic Society, 2010, 93, 1557-1560. | 1.9 | 0 |
| 2922 | Microstructural Effects on the Creep Deformation of Alumina/Singleâ€Wall Carbon Nanotubes Composites. Journal of the American Ceramic Society, 2010, 93, 2042-2047. | 1.9 | 18 |
| 2923 | Resistiveâ€conductive transitions in the time-dependent piezoresponse of PVDF-MWCNT nanocomposites. Polymer Journal, 2010, 42, 567-574. | 1.3 | 14 |
| 2924 | The reaction conditions influence on hydrothermal synthesis of boehmite nanorods. Inorganic Materials, 2010, 46, 953-958. | 0.2 | 14 |
| 2925 | Surface exciton-plasmons and optical response of small-diameter carbon nanotubes. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 108, 376-384. | 0.2 | 2 |
| 2926 | High-performance lithium-ion anodes using a hierarchical bottom-up approach. Nature Materials, 2010, 9, 353-358. | 13.3 | 1,844 |
| 2927 | Nanostructured films from hierarchical self-assembly of amyloidogenic proteins. Nature Nanotechnology, 2010, 5, 204-207. | 15.6 | 338 |
| 2928 | Making nanopores from nanotubes. Nature Nanotechnology, 2010, 5, 174-175. | 15.6 | 24 |
| 2929 | Fracture behaviour of cracked carbon nanotubeâ€based polymer composites: Experiments and finite element simulations. Fatigue and Fracture of Engineering Materials and Structures, 2010, 33, 87-93. | 1.7 | 22 |
| 2931 | High-Power Lithium Batteries from Functionalized Carbon Nanotube Electrodes. ECS Meeting Abstracts, 2010, , . | 0.0 | 658 |
| 2932 | Carbon-nanostructured materials for energy generation and storage applications. South African Journal of Science, 2010, 105, . | 0.3 | 0 |
| 2933 | Flexible Field Emitters Based on Carbon Nanotubes and Other Materials. , 2010, , 129-158. | | 0 |
| 2934 | Carbon Nanotube Supercapacitors. , 0, , . | | 15 |
| 2935 | Synthesis of Germanium/Multi-Walled Carbon Nanotube Core-Sheath Structures via Chemical Vapor Deposition. , 2010, , . | | 0 |
| 2936 | Preparation of Dispersed Platinum Nanoparticles on a Carbon Nanostructured Surface Using Supercritical Fluid Chemical Deposition. Materials, 2010, 3, 1559-1572. | 1.3 | 29 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 2937 | Numerical Modeling of the I-V Characteristics of Carbon Nanotube Field Effect Transistors. , 2010, , . | | 1 |
| 2938 | Imogolite Reinforced Nanocomposites: Multifaceted Green Materials. <i>Materials</i> , 2010, 3, 1709-1745. | 1.3 | 44 |
| 2940 | Adsorption and Phase Behaviour in Nanochannels and Nanotubes. , 2010, , . | | 23 |
| 2941 | Carbon nanotube nanocomposites for biomedical actuators. , 2010, , 832-861. | | 2 |
| 2942 | Electrical Properties of Pd-contacted Single-walled Carbon Nanotubes: A Scanning Probe Microscopy Study. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1258, 1. | 0.1 | 0 |
| 2943 | A Study of Uncut Chips Produced by CNT Grinding Wheel. <i>Advanced Materials Research</i> , 2010, 126-128, 879-884. | 0.3 | 2 |
| 2944 | The Super-Capacitor Properties of Aligned Carbon Nanotubes Array Prepared by Radio Frequency Plasma-Enhanced Hot Filament Chemical Vapor Deposition. <i>Advanced Materials Research</i> , 0, 150-151, 1560-1563. | 0.3 | 4 |
| 2945 | Preparation and Electrochemical Performance of Externally Doped Sulfonated Polyaniline/Multiwalled Carbon Nanotube Composites. <i>Journal of the Electrochemical Society</i> , 2010, 157, K15. | 1.3 | 8 |
| 2946 | Optical power limiting and nonlinear absorption effects of polymer functionalized carbon nanotube thin films. <i>Optical Engineering</i> , 2010, 49, 063801. | 0.5 | 5 |
| 2947 | Preparation of EG-g-MWCNTs and Antistatic Poly(Ethylene Terephthalate) Nanocomposites. <i>Advanced Materials Research</i> , 0, 150-151, 1017-1021. | 0.3 | 0 |
| 2948 | Formation of highly conductive composite coatings and their applications to broadband antennas and mechanical transducers. <i>Journal of Materials Research</i> , 2010, 25, 1741-1747. | 1.2 | 11 |
| 2949 | Fractal Carbon Films Prepared by Chemical Vapor Deposition. <i>Advanced Materials Research</i> , 2010, 123-125, 1239-1242. | 0.3 | 0 |
| 2950 | A method to obtain a Ragone plot for evaluation of carbon nanotube supercapacitor electrodes. <i>Journal of Materials Research</i> , 2010, 25, 1500-1506. | 1.2 | 35 |
| 2951 | Scanning tunnelling microscope studies of angstrom-scale Co ₃ O ₄ nanowires. <i>Nanotechnology</i> , 2010, 21, 335605. | 1.3 | 12 |
| 2952 | Rainbows in Channeling of 1 GeV Protons in a Bent Very Short (11,9) Single-wall Carbon Nanotube. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2010, 11, . | 0.4 | 8 |
| 2953 | Application of nanomaterials in two-terminal resistive-switching memory devices. <i>Nano Reviews</i> , 2010, 1, 5118. | 3.7 | 40 |
| 2954 | Third Neighbor Analytic Tight-Binding Solutions for Electronic Structure of Carbon Nanosystems. <i>Materials Science Forum</i> , 0, 659, 197-202. | 0.3 | 0 |
| 2956 | Evolution, Activity, and Lifetime of Alumina-supported Fe Catalyst During Super Growth of Single-walled Carbon Nanotube Carpets: Influence of the Type of Alumina. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1258, 1. | 0.1 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2957 | Stable and Responsive Fluorescent Carbon Nanotube Silica Gels. Materials Research Society Symposia Proceedings, 2010, 1258, 1. | 0.1 | 1 |
| 2958 | Nanodiamond-Mediated Delivery of Therapeutics via Particle and Thin Film Architectures. , 2010, , 151-174. | | 4 |
| 2959 | On the Inextensible Elastica Model for the Collapse of Nanotubes. Mathematics and Mechanics of Solids, 2010, 15, 591-606. | 1.5 | 14 |
| 2960 | Effect of ion bombardment on the field emission property of tetrapod ZnO. Journal of Applied Physics, 2010, 107, 054506. | 1.1 | 9 |
| 2961 | Formation of metal nanoparticles of various sizes in plasma plumes produced by Ti:sapphire laser pulses. Journal of Applied Physics, 2010, 108, 053107. | 1.1 | 23 |
| 2962 | Metamaterial high pass filter based on periodic wire arrays of multiwalled carbon nanotubes. Applied Physics Letters, 2010, 97, 163102. | 1.5 | 53 |
| 2963 | The partition algorithm for interconnect analysis in carbon nanotube based ASICs. , 2010, , . | | 0 |
| 2966 | Dynamic terahertz polarization in single-walled carbon nanotubes. Physical Review B, 2010, 82, . | 1.1 | 23 |
| 2967 | Fullerene-based one-dimensional crystalline nanopolymer formed through topochemical transformation of the parent nanowire. Physical Review B, 2010, 81, . | 1.1 | 23 |
| 2968 | Transparent film heater based on single-walled carbon nanotubes. , 2010, , . | | 0 |
| 2969 | Site-selective ionization and relaxation dynamics in heterogeneous nanosystems. Physical Review A, 2010, 81, . | 1.0 | 9 |
| 2970 | Charge transport properties of water dispersible multiwall carbon nanotube-polyaniline composites. Journal of Applied Physics, 2010, 107, 103719. | 1.1 | 32 |
| 2971 | Quantitative temperature measurement of an electrically heated carbon nanotube using the null-point method. Review of Scientific Instruments, 2010, 81, 114901. | 0.6 | 39 |
| 2972 | Development of a nonlinear nanoprobe for interferometric autocorrelation based characterization of ultrashort optical pulses. Applied Physics Letters, 2010, 96, . | 1.5 | 8 |
| 2973 | Field emission behavior study of multiwalled carbon nanotube yarn under the influence of adsorbents. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 736-739. | 0.6 | 13 |
| 2974 | Single-walled carbon nanotube alignment by grating-guided electrostatic self-assembly. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 1318-1321. | 0.6 | 1 |
| 2975 | Study on Novel Carbon-Nanotube/Sulfonated Poly(Aryl Ether Ketone) Composites with High Dielectric Constant at Low Percolation Threshold. Soft Materials, 2010, 9, 94-103. | 0.8 | 16 |
| 2976 | Outgassing of tetrapod ZnO nanostructures and its influence on the field-emission performance. , 2010, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2978 | Monte Carlo modeling of electron backscattering from carbon nanotube forests. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C6J13-C6J18. | 0.6 | 7 |
| 2979 | Load transfer between cross-linked walls of a carbon nanotube. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 39 |
| 2980 | Investigation of the influence of surface defects on peptide adsorption onto carbon nanotubes. <i>Molecular BioSystems</i> , 2010, 6, 1707. | 2.9 | 21 |
| 2982 | Flexible Energy Storage Devices Using Nanomaterials. , 2010, , 227-245. | | 4 |
| 2983 | Macroscopic Behavior of Carbon Nanotube (CNT)-Reinforced Composite Accounting for Interface Cohesive Force. <i>Journal of Adhesion</i> , 2010, 86, 273-289. | 1.8 | 9 |
| 2984 | Sensitive SWCNTs gas sensor fabricated on a flexible parylene-C substrate. , 2010, , . | | 0 |
| 2985 | The Polyvalent Gold Nanoparticle Conjugate Materials Synthesis, Biodiagnostics, and Intracellular Gene Regulation. <i>MRS Bulletin</i> , 2010, 35, 532-539. | 1.7 | 32 |
| 2986 | Comparison of quasistatic to impact mechanical properties of multiwall carbon nanotube/polycarbonate composites. <i>Journal of Materials Research</i> , 2010, 25, 1118-1130. | 1.2 | 6 |
| 2987 | The Synthesis of Gel-Like Hybrid Nanomaterials Based on Carbon Nanotube Decorated with Metal Nanoparticles at 45°C. <i>Soft Materials</i> , 2010, 8, 39-48. | 0.8 | 9 |
| 2988 | <i>In silico</i> assembly and nanomechanical characterization of carbon nanotube buckypaper. <i>Nanotechnology</i> , 2010, 21, 265706. | 1.3 | 93 |
| 2989 | NORMAL MODE ANALYSIS OF A SINGLE-WALLED CARBON NANOTUBE BASED ON MOLECULAR DYNAMIC: A SINGULAR VALUE DECOMPOSITION STUDY. <i>International Journal of Nanoscience</i> , 2010, 09, 471-486. | 0.4 | 3 |
| 2990 | Batch-processed carbon nanotube wall as pressure and flow sensor. <i>Nanotechnology</i> , 2010, 21, 105502. | 1.3 | 23 |
| 2991 | Electrical and photoelectrical properties of p-SWNT/n-ZnO heterojunction structure. , 2010, , . | | 0 |
| 2992 | Conductivity percolation of carbon nanotubes (CNT) in polystyrene (PS) latex film. <i>Canadian Journal of Chemistry</i> , 2010, 88, 267-276. | 0.6 | 21 |
| 2993 | Electro-conductive textile yarns. , 2010, , 298-328. | | 3 |
| 2994 | Filtration characteristics of carbon nanotubes and preparation of buckypapers. <i>Desalination and Water Treatment</i> , 2010, 17, 193-198. | 1.0 | 11 |
| 2995 | Flexible and transparent touch sensor using single-wall carbon nanotube thin-films. , 2010, , . | | 4 |
| 2996 | Effects of potassium hydroxide post-treatments on the field-emission properties of thermal chemical vapor deposited carbon nanotubes. , 2010, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 2997 | The synthesis of carbon nanotubes on silicon nanowires by thermal chemical vapor deposition. , 2010, , . | | 0 |
| 2998 | Interaction of small gold clusters with carbon nanotube bundles: formation of gold atomic chains. Journal of Physics Condensed Matter, 2010, 22, 125301. | 0.7 | 3 |
| 2999 | Intertube spacing effect of cantilevered double-walled carbon nanotube resonators with short outer tubes. Modelling and Simulation in Materials Science and Engineering, 2010, 18, 045011. | 0.8 | 6 |
| 3000 | Long-term follow-up of lung biodistribution and effect of instilled SWCNTs using multiscale imaging techniques. Nanotechnology, 2010, 21, 175103. | 1.3 | 27 |
| 3001 | Poly(vinyl chloride)-grafted multi-walled carbon nanotubes via Friedel-Crafts alkylation. EXPRESS Polymer Letters, 2010, 4, 723-728. | 1.1 | 25 |
| 3002 | A Facile and Generic Strategy to Synthesize Large-Scale Carbon Nanotubes. Journal of Nanomaterials, 2010, 2010, 1-5. | 1.5 | 5 |
| 3003 | Dynamic Rheological Studies of Poly(p-phenyleneterephthalamide) and Carbon Nanotube Blends in Sulfuric Acid. International Journal of Molecular Sciences, 2010, 11, 1352-1364. | 1.8 | 6 |
| 3004 | Oxygen plasma effects on the electrical conductance of single-walled carbon nanotube bundles. Journal Physics D: Applied Physics, 2010, 43, 305402. | 1.3 | 18 |
| 3005 | Helicity Distributions of Single-Walled Carbon Nanotubes and Its Implication on the Growth Mechanism. Materials, 2010, 3, 2725-2734. | 1.3 | 7 |
| 3006 | Bond order effects in electromechanical actuation of armchair single-walled carbon nanotubes. Journal of Chemical Physics, 2010, 132, 074703. | 1.2 | 0 |
| 3007 | Scaling laws for electrical contact resistance with dissimilar materials. Journal of Applied Physics, 2010, 108, . | 1.1 | 30 |
| 3008 | Enhancement of thermoelectric figure of merit in bismuth nanotubes. Applied Physics Letters, 2010, 97, . | 1.5 | 20 |
| 3009 | CVD grown single walled carbon nanotubes (SWNTs) in organic solvents. , 2010, , . | | 1 |
| 3010 | Electrical, mechanical and thermal properties of high performance polymer nanocomposite bipolar plates for fuel cells. , 2010, , 591-615. | | 2 |
| 3011 | Nanoengineering Ultra-High-Performance Concrete with Multiwalled Carbon Nanotubes. Transportation Research Record, 2010, 2142, 119-126. | 1.0 | 66 |
| 3012 | Bacterial Lipopolysaccharide Enhances PDGF Signaling and Pulmonary Fibrosis in Rats Exposed to Carbon Nanotubes. American Journal of Respiratory Cell and Molecular Biology, 2010, 43, 142-151. | 1.4 | 87 |
| 3013 | Processing of loose carbon nanotubes into isolated, high density submicron channels. Nanotechnology, 2010, 21, 115301. | 1.3 | 5 |
| 3014 | Optimization of Interface Resistance between Carbon Nanotubes and Probe-Shaped Titanium Wire. Japanese Journal of Applied Physics, 2010, 49, 035002. | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3015 | Synthesis of Silane-Modified Carbon Nanotubes via a Sol-Gel Process and Their Characteristics for Field Emission Applications. Japanese Journal of Applied Physics, 2010, 49, 115102. | 0.8 | 0 |
| 3016 | 100 nm scale low-noise sensors based on aligned carbon nanotube networks: overcoming the fundamental limitation of network-based sensors. Nanotechnology, 2010, 21, 055504. | 1.3 | 31 |
| 3017 | Preparation and Characterization of MWCNT-ZnO nanoparticles Hybrid. , 2010, , . | | 0 |
| 3018 | Structure and process-dependent properties of solid-state spun carbon nanotube yarns. Journal of Physics Condensed Matter, 2010, 22, 334221. | 0.7 | 51 |
| 3019 | Synthesis, characterization and opto-electrical properties of ternary Zn ₂ SnO ₄ nanowires. Nanotechnology, 2010, 21, 465706. | 1.3 | 57 |
| 3020 | Thin film transistors using PECVD-grown carbon nanotubes. Nanotechnology, 2010, 21, 205202. | 1.3 | 24 |
| 3021 | Characterization and enhanced field emission properties of IrO ₂ -coated carbon nanotube bundle arrays. Nanotechnology, 2010, 21, 035702. | 1.3 | 19 |
| 3022 | The thermomutability of single-walled carbon nanotubes by constrained mechanical folding. Nanotechnology, 2010, 21, 365708. | 1.3 | 10 |
| 3023 | Mechanism of Enhanced Dispersion of Single-Walled Carbon Nanotubes with Proteins by Alcohols and Chaotropes. Japanese Journal of Applied Physics, 2010, 49, 06GJ10. | 0.8 | 2 |
| 3024 | The effect of barrier layer-mediated catalytic deactivation in vertically aligned carbon nanotube growth. Journal Physics D: Applied Physics, 2010, 43, 095304. | 1.3 | 6 |
| 3025 | The effect of extended polymer chains on the properties of transparent multi-walled carbon nanotubes/poly(methyl methacrylate/acrylic acid) film. Nanotechnology, 2010, 21, 185702. | 1.3 | 14 |
| 3026 | Functionalization Effects of Single-Walled Carbon Nanotubes as Templates for the Synthesis of Silica Nanorods and Study of Growing Mechanism of Silica. ACS Nano, 2010, 4, 3933-3942. | 7.3 | 42 |
| 3027 | Outer Wall Selectively Oxidized, Water-Soluble Double-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2010, 132, 3932-3938. | 6.6 | 74 |
| 3028 | Strain-Dependent Resistance of PDMS and Carbon Nanotubes Composite Microstructures. IEEE Nanotechnology Magazine, 2010, 9, 590-595. | 1.1 | 84 |
| 3029 | Scratch-Resistant, Highly Conductive, and High-Strength Carbon Nanotube-Based Composite Yarns. ACS Nano, 2010, 4, 5827-5834. | 7.3 | 243 |
| 3030 | Cobalt Nanocluster-Filled Carbon Nanotube Arrays: Engineered Photonic Bandgap and Optical Reflectivity. ACS Nano, 2010, 4, 6573-6578. | 7.3 | 32 |
| 3031 | The solvent-free selective hydrogenation of nitrobenzene to aniline: an unexpected catalytic activity of ultrafine Pt nanoparticles deposited on carbon nanotubes. Green Chemistry, 2010, 12, 1007. | 4.6 | 119 |
| 3032 | Tailored Distribution of Single-Wall Carbon Nanotubes from Arc Plasma Synthesis Using Magnetic Fields. ACS Nano, 2010, 4, 5187-5192. | 7.3 | 60 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 3033 | Growth of Ultrahigh Density Vertically Aligned Carbon Nanotube Forests for Interconnects. ACS Nano, 2010, 4, 7431-7436. | 7.3 | 136 |
| 3034 | Recent Developments in Multifunctional Nanocomposites Using Carbon Nanotubes. Applied Mechanics Reviews, 2010, 63, . | 4.5 | 148 |
| 3035 | Carbon Nanotubes: The Minuscule Wizards. Advanced Structured Materials, 2010, , 1-22. | 0.3 | 2 |
| 3036 | Reducing defects on multi-walled carbon nanotube surfaces induced by low-power ultrasonic-assisted hydrochloric acid treatment. Journal of Experimental Nanoscience, 2010, 5, 337-347. | 1.3 | 19 |
| 3037 | Controlled Growth/Patterning of Ni Nanohoneycombs on Various Desired Substrates. Langmuir, 2010, 26, 4346-4350. | 1.6 | 12 |
| 3038 | Multiwalled Carbon Nanotube Filter: Improving Viral Removal at Low Pressure. Langmuir, 2010, 26, 14975-14982. | 1.6 | 102 |
| 3039 | Long range interactions in nanoscale science. Reviews of Modern Physics, 2010, 82, 1887-1944. | 16.4 | 359 |
| 3040 | Nanoelectronics in Radio-Frequency Technology. IEEE Microwave Magazine, 2010, 11, 119-135. | 0.7 | 27 |
| 3041 | Self-assembled one-dimensional soft nanostructures. Soft Matter, 2010, 6, 5839. | 1.2 | 75 |
| 3042 | Integrated devices based on networks of nanotubes and nanowires. NPG Asia Materials, 2010, 2, 103-111. | 3.8 | 18 |
| 3043 | Exploring the Chemical Sensitivity of a Carbon Nanotube/Green Tea Composite. ACS Nano, 2010, 4, 6854-6862. | 7.3 | 38 |
| 3044 | Transport Mechanisms in Metallic and Semiconducting Single-Wall Carbon Nanotube Networks. ACS Nano, 2010, 4, 4027-4032. | 7.3 | 172 |
| 3045 | New Solvents for Nanotubes: Approaching the Dispersibility of Surfactants. Journal of Physical Chemistry C, 2010, 114, 231-237. | 1.5 | 108 |
| 3046 | Pyridine-Functionalized Single-Walled Carbon Nanotubes as Gelators for Poly(acrylic acid) Hydrogels. Journal of the American Chemical Society, 2010, 132, 15814-15819. | 6.6 | 80 |
| 3047 | Pulsed Growth of Vertically Aligned Nanotube Arrays with Variable Density. ACS Nano, 2010, 4, 7573-7581. | 7.3 | 41 |
| 3048 | Molecular Interactions in PA6, LCP and their Blend Incorporated with Functionalized Carbon Nanotubes. Key Engineering Materials, 2010, 447-448, 634-638. | 0.4 | 3 |
| 3049 | Comparison of Cluster Formation, Film Structure, Microwave Conductivity, and Photoelectrochemical Properties of Composites Consisting of Single-Walled Carbon Nanotubes with C ₆₀ , C ₇₀ , and C ₈₄ . Journal of Physical Chemistry C, 2010, 114, 3235-3247. | 1.5 | 33 |
| 3050 | Role of Surface Cobalt Silicate in Single-Walled Carbon Nanotube Synthesis from Silica-Supported Cobalt Catalysts. ACS Nano, 2010, 4, 1759-1767. | 7.3 | 49 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3051 | Benzonitrile Adsorption on Fe-Doped Carbon Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10790-10795. | 1.5 | 18 |
| 3052 | One-pot preparation of graphene/Fe ₃ O ₄ composites by a solvothermal reaction. <i>New Journal of Chemistry</i> , 2010, 34, 2950. | 1.4 | 154 |
| 3053 | Towards free-standing graphene/carbon nanotube composite films via acetylene-assisted thermolysis of organocobalt functionalized graphene sheets. <i>Chemical Communications</i> , 2010, 46, 8279. | 2.2 | 85 |
| 3054 | Modeling of Thermal Conductance at Transverse CNT~CNT Interfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16223-16228. | 1.5 | 80 |
| 3055 | Remarkably low turn-on field emission in undoped, nitrogen-doped, and boron-doped graphene. <i>Applied Physics Letters</i> , 2010, 97, . | 1.5 | 139 |
| 3056 | Direct Access to Metal or Metal Oxide Nanocrystals Integrated with One-Dimensional Nanoporous Carbons for Electrochemical Energy Storage. <i>Journal of the American Chemical Society</i> , 2010, 132, 15030-15037. | 6.6 | 150 |
| 3057 | Chronic toxicity of double-walled carbon nanotubes to three marine organisms: influence of different dispersion methods. <i>Nanomedicine</i> , 2010, 5, 951-961. | 1.7 | 57 |
| 3058 | Functional hybrid materials based on carbon nanotubes and metal oxides. <i>Journal of Materials Chemistry</i> , 2010, 20, 6383. | 6.7 | 206 |
| 3059 | Unzipping of Functionalized Multiwall Carbon Nanotubes Induced by STM. <i>Nano Letters</i> , 2010, 10, 1764-1768. | 4.5 | 50 |
| 3060 | Investigating Photoinduced Charge Transfer in Carbon Nanotube~Perylene~Quantum Dot Hybrid Nanocomposites. <i>ACS Nano</i> , 2010, 4, 6883-6893. | 7.3 | 55 |
| 3061 | Controlled Functionalization of Carbon Nanotubes by a Solvent-free Multicomponent Approach. <i>ACS Nano</i> , 2010, 4, 7379-7386. | 7.3 | 57 |
| 3062 | Patterning of Single-Walled Carbon Nanotube Films on Flexible, Transparent Plastic Substrates. <i>Langmuir</i> , 2010, 26, 598-602. | 1.6 | 45 |
| 3063 | Terahertz Spectroscopy of Nanocrystal~Carbon Nanotube and ~Graphene Oxide Hybrid Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11258-11265. | 1.5 | 41 |
| 3064 | A Nonvolatile Memory Device Made of a Ferroelectric Polymer Gate Nanodot and a Single-Walled Carbon Nanotube. <i>ACS Nano</i> , 2010, 4, 7315-7320. | 7.3 | 62 |
| 3065 | Towards chirality-pure carbon nanotubes. <i>Nanoscale</i> , 2010, 2, 1919. | 2.8 | 65 |
| 3066 | Nano-architected Co(OH) ₂ electrodes constructed using an easily-manipulated electrochemical protocol for high-performance energy storage applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 3729. | 6.7 | 228 |
| 3067 | Recent Developments in Carbon Nanotube Membranes for Water Purification and Gas Separation. <i>Materials</i> , 2010, 3, 127-149. | 1.3 | 232 |
| 3068 | Functionalization of multi-walled carbon nanotubes via surface unpaired electrons. <i>Nanotechnology</i> , 2010, 21, 085706. | 1.3 | 29 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3069 | Microwave Makes Carbon Nanotubes Less Defective. ACS Nano, 2010, 4, 1716-1722. | 7.3 | 86 |
| 3070 | Design of Nanodiamond Based Drug Delivery Patch for Cancer Therapeutics and Imaging Applications. , 2010, , 249-284. | | 2 |
| 3071 | Recent Studies on Buckling of Carbon Nanotubes. Applied Mechanics Reviews, 2010, 63, . | 4.5 | 117 |
| 3072 | Enhancement of Chlorine Resistance in Carbon Nanotube Based Nanocomposite Reverse Osmosis Membranes. Desalination and Water Treatment, 2010, 15, 198-204. | 1.0 | 67 |
| 3073 | Growth of horizontally aligned single-walled carbon nanotubes on anisotropically etched silicon substrate. Nanoscale, 2010, 2, 1708. | 2.8 | 17 |
| 3074 | Kevlar Functionalized Carbon Nanotubes for Next-Generation Composites. Chemistry of Materials, 2010, 22, 2164-2171. | 3.2 | 42 |
| 3075 | Enrichment of Armchair Carbon Nanotubes via Density Gradient Ultracentrifugation: Raman Spectroscopy Evidence. ACS Nano, 2010, 4, 1955-1962. | 7.3 | 83 |
| 3076 | Finite-Size Effects on Thermionic Emission in Metal-Graphene-Nanoribbon Contacts. IEEE Electron Device Letters, 2010, 31, 491-493. | 2.2 | 10 |
| 3077 | Quantitative Techniques for Assessing and Controlling the Dispersion and Biological Effects of Multiwalled Carbon Nanotubes in Mammalian Tissue Culture Cells. ACS Nano, 2010, 4, 7241-7252. | 7.3 | 151 |
| 3078 | Phase Transfer Catalysts Drive Diverse Organic Solvent Solubility of Single-Walled Carbon Nanotubes Helically Wrapped by Ionic, Semiconducting Polymers. Nano Letters, 2010, 10, 4192-4199. | 4.5 | 40 |
| 3079 | Electromechanical Analysis by Means of Complex Capacitance of Bucky-Gel Actuators Based on Single-Walled Carbon Nanotubes and an Ionic Liquid. Journal of Physical Chemistry C, 2010, 114, 17982-17988. | 1.5 | 52 |
| 3080 | Reversible Dispersion and Release of Carbon Nanotubes Using Foldable Oligomers. Journal of the American Chemical Society, 2010, 132, 14113-14117. | 6.6 | 98 |
| 3081 | Fabrication of Discrete Nanosized Cobalt Particles Encapsulated Inside Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 11092-11097. | 1.5 | 18 |
| 3082 | Selective Synthesis of Subnanometer Diameter Semiconducting Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2010, 132, 11125-11131. | 6.6 | 78 |
| 3083 | Chemical-Modification-Enhanced Dielectrophoretic Assembly of Controllable and Reversible Silica Submicrowires from Nanoparticles. Langmuir, 2010, 26, 15155-15160. | 1.6 | 6 |
| 3084 | Modulating Cell Adhesion Dynamics on Carbon Nanotube Monolayer Engineered with Extracellular Matrix Proteins. ACS Applied Materials & Interfaces, 2010, 2, 1038-1047. | 4.0 | 24 |
| 3085 | Influence of Aromatic Environments on the Physical Properties of Î²-Carotene. Journal of Physical Chemistry C, 2010, 114, 2524-2530. | 1.5 | 12 |
| 3086 | Soluble P3HT-Grafted Carbon Nanotubes: Synthesis and Photovoltaic Application. Macromolecules, 2010, 43, 6699-6705. | 2.2 | 98 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3087 | Amperometric Detection of Glucose Using a Conjugated Polyelectrolyte Complex with Single-Walled Carbon Nanotubes. <i>Macromolecules</i> , 2010, 43, 10376-10381. | 2.2 | 63 |
| 3088 | Graphene Oxide-Assisted Dispersion of Pristine Multiwalled Carbon Nanotubes in Aqueous Media. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11435-11440. | 1.5 | 307 |
| 3089 | Vibrational Energy Transfer between Carbon Nanotubes and Liquid Water: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4609-4614. | 1.2 | 12 |
| 3090 | Liquid-Crystal Phase Reinforced Carbon Nanotube Fibers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4923-4928. | 1.5 | 15 |
| 3091 | Radiation Vulcanization of Natural Rubber Latex Loaded with Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 56-71. | 1.0 | 17 |
| 3092 | Fabrication and property prediction of conductive and strain sensing TPU/CNT nanocomposite fibres. <i>Journal of Materials Chemistry</i> , 2010, 20, 9449. | 6.7 | 147 |
| 3093 | Synthesis, characterization and catalytic oxidation of para-xylene by a manganese(iii) Schiff base complex on functionalized multi-wall carbon nanotubes (MWNTs). <i>Dalton Transactions</i> , 2010, 39, 7330. | 1.6 | 68 |
| 3094 | Nanostructured Coral-like Carbon as Pt Support for Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6976-6982. | 1.5 | 22 |
| 3095 | Thermal Behavior of Transparent Film Heaters Made of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5817-5821. | 1.5 | 61 |
| 3096 | Selective Small-Diameter Metallic Single-Walled Carbon Nanotube Removal by Mere Standing with Anthraquinone and Application to a Field-Effect Transistor. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21035-21041. | 1.5 | 13 |
| 3097 | Growth Kinetics of Wall-Number Controlled Carbon Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3454-3458. | 1.5 | 20 |
| 3098 | Multiphoton polymerization of hybrid materials. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 124001. | 1.0 | 142 |
| 3099 | Morphology and Transport Properties of Two-Dimensional Sheet Polymers. <i>Macromolecules</i> , 2010, 43, 3438-3445. | 2.2 | 32 |
| 3100 | Influence of Electrostatic Interactions on Spin-Assembled Single-Walled Carbon Nanotube Networks on Amine-Functionalized Surfaces. <i>ACS Nano</i> , 2010, 4, 1167-1177. | 7.3 | 51 |
| 3101 | Reversible Control of Third-Order Optical Nonlinearity of DNA Decorated Carbon Nanotube Hybrids. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22697-22702. | 1.5 | 3 |
| 3102 | Covalent Functionalization and Electron-Transfer Properties of Vertically Aligned Carbon Nanofibers: The Importance of Edge-Plane Sites. <i>Chemistry of Materials</i> , 2010, 22, 2357-2366. | 3.2 | 43 |
| 3103 | Assessing the colloidal properties of engineered nanoparticles in water: case studies from fullerene C60 nanoparticles and carbon nanotubes. <i>Environmental Chemistry</i> , 2010, 7, 10. | 0.7 | 134 |
| 3104 | Conductive Cable Fibers with Insulating Surface Prepared by Coaxial Electrospinning of Multiwalled Nanotubes and Cellulose. <i>Biomacromolecules</i> , 2010, 11, 2440-2445. | 2.6 | 79 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3105 | Influence of Biomacromolecules and Humic Acid on the Aggregation Kinetics of Single-Walled Carbon Nanotubes. <i>Environmental Science & Technology</i> , 2010, 44, 2412-2418. | 4.6 | 282 |
| 3106 | Diameter modulation by fast temperature control in laser-assisted chemical vapor deposition of single-walled carbon nanotubes. <i>Nanotechnology</i> , 2010, 21, 395601. | 1.3 | 17 |
| 3107 | Selective Parallel Integration of Individual Metallic Single-Walled Carbon Nanotubes from Heterogeneous Solutions. <i>Langmuir</i> , 2010, 26, 10419-10424. | 1.6 | 14 |
| 3108 | Reversible Dispersion of Single-Walled Carbon Nanotubes Based on a CO ₂ -Responsive Dispersant. <i>Langmuir</i> , 2010, 26, 16667-16671. | 1.6 | 67 |
| 3109 | Photovoltaic enhancement of Si solar cells by assembled carbon nanotubes. <i>Nano-Micro Letters</i> , 2010, 2, 22-25. | 14.4 | 17 |
| 3110 | The Differences in Surfactant Adsorption on Carbon Nanotubes and Their Bundles. <i>Langmuir</i> , 2010, 26, 899-907. | 1.6 | 33 |
| 3111 | Transparent Conductors from Layer-by-Layer Assembled SWNT Films: Importance of Mechanical Properties and a New Figure of Merit. <i>ACS Nano</i> , 2010, 4, 3725-3734. | 7.3 | 135 |
| 3112 | Synthesis and Photoelectric Properties of Coaxial Schottky Junctions of ZnS and Carbon Nanotubes. <i>Chemistry of Materials</i> , 2010, 22, 288-293. | 3.2 | 30 |
| 3113 | Capillarity-Assisted Assembly of Carbon Nanotube Microstructures with Organized Initiations. <i>ACS Nano</i> , 2010, 4, 1067-1075. | 7.3 | 27 |
| 3114 | Recent Development of the Synthesis and Engineering Applications of One-Dimensional Boron Nitride Nanomaterials. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-16. | 1.5 | 12 |
| 3115 | Understanding the Electrophoretic Separation of Single-Walled Carbon Nanotubes Assisted by Thionine as a Probe. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19234-19238. | 1.5 | 22 |
| 3116 | Evolution of Various Porphyrin Nanostructures via an Oil/Aqueous Medium: Controlled Self-Assembly, Further Organization, and Supramolecular Chirality. <i>Journal of the American Chemical Society</i> , 2010, 132, 9644-9652. | 6.6 | 162 |
| 3117 | Wide Contact Structures for Low-Noise Nanochannel Devices Based on a Carbon Nanotube Network. <i>ACS Nano</i> , 2010, 4, 7612-7618. | 7.3 | 12 |
| 3118 | One-dimensional boron nanostructures: Prediction, synthesis, characterizations, and applications. <i>Nanoscale</i> , 2010, 2, 1375. | 2.8 | 71 |
| 3119 | Nano-Combinatorial Chemistry Strategy for Nanotechnology Research. <i>ACS Combinatorial Science</i> , 2010, 12, 215-221. | 3.3 | 20 |
| 3120 | Chemical approaches towards single-species single-walled carbon nanotubes. <i>Nanoscale</i> , 2010, 2, 1901. | 2.8 | 41 |
| 3121 | Molecular Dynamics Study of a Carbon Nanotube Binding Reversible Cyclic Peptide. <i>ACS Nano</i> , 2010, 4, 2539-2546. | 7.3 | 24 |
| 3122 | Linking Carbon and Boron-Nitride Nanotubes: Heterojunction Energetics and Band Gap Tuning. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2269-2273. | 2.1 | 67 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3123 | Influence of sodium dodecylbenzene sulfonate on the structure and properties of carbon aerogels. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 172-174. | 1.5 | 10 |
| 3124 | Mechanical properties of nylon 6/Brazilian clay nanocomposites. <i>Journal of Alloys and Compounds</i> , 2010, 495, 596-597. | 2.8 | 14 |
| 3125 | Correlation between dispersion state and electrical conductivity of MWCNTs/PP composites prepared by melt blending. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 419-426. | 3.8 | 129 |
| 3126 | Dispersion and crystallization studies of hyper-branched poly(urea-urethane)s-grafted carbon nanotubes filled polyamide-6 nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 670-677. | 3.8 | 24 |
| 3127 | Carbon nanotubes/cyanate ester composites with low percolation threshold, high dielectric constant and outstanding thermal property. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1321-1328. | 3.8 | 76 |
| 3128 | Carbon dioxide sequestration by carbon nanotubes: Application of graph theoretical approach. <i>Computational Materials Science</i> , 2010, 48, 402-408. | 1.4 | 3 |
| 3129 | A molecular mechanics approach for the vibration of single-walled carbon nanotubes. <i>Computational Materials Science</i> , 2010, 48, 730-735. | 1.4 | 121 |
| 3130 | Vibration analysis of orthotropic graphene sheets embedded in Pasternak elastic medium using nonlocal elasticity theory and differential quadrature method. <i>Computational Materials Science</i> , 2010, 50, 239-245. | 1.4 | 109 |
| 3131 | Effect of silver doped MWCNTs on the electrical properties of conductive MWCNTs/PMMA thin films. <i>Synthetic Metals</i> , 2010, 160, 123-126. | 2.1 | 13 |
| 3132 | Morphological development of nanofibrillar composites of polyaniline and carbon nanotubes. <i>Synthetic Metals</i> , 2010, 160, 664-668. | 2.1 | 25 |
| 3133 | Polypyrrole-carbon nanotube composite films synthesized through gas-phase polymerization. <i>Synthetic Metals</i> , 2010, 160, 814-818. | 2.1 | 54 |
| 3134 | Conductive bio-Polymer nano-Composites (CPC): Chitosan-carbon nanotube transducers assembled via spray layer-by-layer for volatile organic compound sensing. <i>Talanta</i> , 2010, 81, 908-915. | 2.9 | 101 |
| 3135 | Lectins modulate multi-walled carbon nanotubes cellular uptake in human epidermal keratinocytes. <i>Toxicology in Vitro</i> , 2010, 24, 546-551. | 1.1 | 20 |
| 3136 | Adsorption of synthetic organic chemicals by carbon nanotubes: Effects of background solution chemistry. <i>Water Research</i> , 2010, 44, 2067-2074. | 5.3 | 207 |
| 3137 | Can nitrones functionalize carbon nanotubes?. <i>Chemical Communications</i> , 2010, 46, 252-254. | 2.2 | 28 |
| 3138 | Structural characterization of indium oxide nanostructures: a Raman analysis. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 045401. | 1.3 | 148 |
| 3141 | Emerging Applications of TiO ₂ -Based Composites. <i>Nanostructure Science and Technology</i> , 2010, , 717-739. | 0.1 | 0 |
| 3142 | Functionalization of Multi-Walled Carbon Nanotubes by Stereoselective Nucleophilic Substitution on PVC. <i>Macromolecules</i> , 2010, 43, 9754-9760. | 2.2 | 22 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3143 | Probing diameter-selective solubilisation of carbon nanotubes by reversible cyclic peptides using molecular dynamics simulations. <i>Nanoscale</i> , 2010, 2, 98-106. | 2.8 | 13 |
| 3144 | Highly dispersed gold nanoparticles on nitrogen doped carbon nanotubes for hydrogen sensing. , 2010, , . | | 0 |
| 3145 | Effect of hydrogen on catalyst nanoparticles in carbon nanotube growth. <i>Journal of Applied Physics</i> , 2010, 108, . | 1.1 | 65 |
| 3146 | All Carbon Nanotubes Are Not Created Equal. <i>Nanostructure Science and Technology</i> , 2010, , 131-152. | 0.1 | 1 |
| 3147 | Diameter-Dependent Solubility of Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 3063-3072. | 7.3 | 65 |
| 3148 | Evolution in Catalyst Morphology Leads to Carbon Nanotube Growth Termination. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 918-922. | 2.1 | 177 |
| 3149 | Chemistry of carbon nanotubes in biomedical applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 1036-1052. | 6.7 | 235 |
| 3150 | Synthesis of High-Quality Vertically Aligned Carbon Nanotubes on Bulk Copper Substrate for Thermal Management. <i>IEEE Transactions on Advanced Packaging</i> , 2010, 33, 370-376. | 1.7 | 54 |
| 3151 | High-Temperature Rubber Made from Carbon Nanotubes. <i>Science</i> , 2010, 330, 1332-1333. | 6.0 | 62 |
| 3152 | A Brief Review of Stimulus-active Polymers Responsive to Thermal, Light, Magnetic, Electric, and Water/Solvent Stimuli. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 859-885. | 1.4 | 217 |
| 3153 | Amperometric immunosensor for ricin by using on graphite and carbon nanotube paste electrodes. <i>Talanta</i> , 2010, 81, 703-708. | 2.9 | 38 |
| 3154 | Characterizing the self-sensing performance of carbon nanotube-enhanced fiber-reinforced polymers. , 2010, , . | | 3 |
| 3155 | Phthalocyanine~Pyrene Conjugates: A Powerful Approach toward Carbon Nanotube Solar Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 16202-16211. | 6.6 | 131 |
| 3156 | Orientation and Morphological Evolution of Catalyst Nanoparticles During Carbon Nanotube Growth. <i>ACS Nano</i> , 2010, 4, 5087-5094. | 7.3 | 47 |
| 3157 | Engineering hybrid nanotube wires for high-power biofuel cells. <i>Nature Communications</i> , 2010, 1, 2. | 5.8 | 193 |
| 3158 | Compcasting of A356-CNT composite. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 1561-1566. | 1.7 | 116 |
| 3159 | Electrochemical performance of nickel hydroxide doped with multi-wall carbon nanotubes. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, s249-s252. | 1.7 | 9 |
| 3160 | Modeling the Instability of Carbon Nanotubes: From Continuum Mechanics to Molecular Dynamics. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2010, 1, . | 0.8 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3161 | A Direct-Write Approach for Carbon Nanotube Catalyst Deposition. IEEE Nanotechnology Magazine, 2010, 9, 375-380. | 1.1 | 3 |
| 3162 | Polycarbazole Nanocomposites with Conducting Metal Oxides for Transparent Electrode Applications. ACS Applied Materials & Interfaces, 2010, 2, 413-424. | 4.0 | 14 |
| 3163 | Patterned Carbon Nanotubes with Adjustable Array: A Functional Breath Figure Approach. Chemistry of Materials, 2010, 22, 2367-2374. | 3.2 | 61 |
| 3164 | A novel method to fabricate silica nanotubes based on phase separation effect. Journal of Materials Chemistry, 2010, 20, 9068. | 6.7 | 62 |
| 3165 | Field Ionization of Cold Atoms near the Wall of a Single Carbon Nanotube. Physical Review Letters, 2010, 104, 133002. | 2.9 | 26 |
| 3166 | Development of Au nanoparticles dispersed carbon nanotube-based biosensor for the detection of paraoxon. Nanoscale, 2010, 2, 806. | 2.8 | 101 |
| 3167 | Conditions of Simultaneous Growth and Separation of Single- and Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 843-848. | 1.5 | 16 |
| 3168 | Effect of the Reynolds and Richardson Numbers on the Growth of Well-Aligned Ultralong Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 12960-12965. | 1.5 | 14 |
| 3169 | Effects of Water Vapor on Diameter Distribution of SWNTs Grown over Fe/MgO-Based Catalysts. Journal of Physical Chemistry C, 2010, 114, 3850-3856. | 1.5 | 15 |
| 3170 | Control of Optical Limiting of Carbon Nanotube Dispersions by Changing Solvent Parameters. Journal of Physical Chemistry C, 2010, 114, 6148-6156. | 1.5 | 42 |
| 3171 | Carbon Nanotubes for Optical Power Limiting Applications. , 2010, , 101-129. | | 2 |
| 3172 | Electrochemical Tailoring of Catalyst Nanoparticles for CNT Spatial-Dimension Control. Journal of the Electrochemical Society, 2010, 157, K47. | 1.3 | 9 |
| 3173 | Carbon Nanowalls. , 2010, , . | | 86 |
| 3174 | Structural, electronic, and magnetic features of platinum alloy strings templated on a boron-doped carbon nanotube. Physical Review B, 2010, 81, . | 1.1 | 5 |
| 3175 | Fabrication and Characterization of Electrospun PLGA/MWNTs/ Hydroxyapatite Biocomposite Scaffolds for Bone Tissue Engineering. Journal of Bioactive and Compatible Polymers, 2010, 25, 241-259. | 0.8 | 73 |
| 3176 | Controllable growth of highly N-doped carbon nanotubes from imidazole: a structural, spectroscopic and field emission study. Journal of Materials Chemistry, 2010, 20, 4128. | 6.7 | 54 |
| 3177 | Simultaneous Discrimination of Handedness and Diameter of Single-Walled Carbon Nanotubes (SWNTs) with Chiral Diporphyrin Nanotweezers Leading to Enrichment of a Single Enantiomer of (6,5)-SWNTs. Journal of the American Chemical Society, 2010, 132, 10876-10881. | 6.6 | 88 |
| 3178 | Experimental investigations on carbon nanotube actuators defining the operation point and its standard deviation. , 2010, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3179 | Towards carbon-nanotube integrated devices: optically controlled parallel integration of single-walled carbon nanotubes. <i>Nanotechnology</i> , 2010, 21, 315601. | 1.3 | 13 |
| 3181 | Novel Polyaromatic-Terminated Transition Metal Complexes for the Functionalization of Carbon Surfaces. <i>Langmuir</i> , 2010, 26, 3342-3349. | 1.6 | 13 |
| 3182 | Nitrogen-Doped Carbon Nanotubes: High Electrocatalytic Activity toward the Oxidation of Hydrogen Peroxide and Its Application for Biosensing. <i>ACS Nano</i> , 2010, 4, 4292-4298. | 7.3 | 297 |
| 3183 | Novel nanocarbon hybrids of single-walled carbon nanotubes and dispersed nanodiamond: Structure and hierarchical defects evolution irradiated with gamma rays. <i>Journal of Applied Physics</i> , 2010, 107, . | 1.1 | 14 |
| 3184 | Electromechanical Actuation with Controllable Motion Based on a Single-Walled Carbon Nanotube and Natural Biopolymer Composite. <i>ACS Nano</i> , 2010, 4, 3498-3502. | 7.3 | 98 |
| 3185 | Electronic-Structure-Dependent Bacterial Cytotoxicity of Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 5471-5479. | 7.3 | 456 |
| 3186 | MWCNT Based Thin Film Strain Sensor. , 2010, , . | | 0 |
| 3187 | Investigation of the Microstructure of Epoxy Resin/MWNTs Nanocomposite by the Positron Annihilation Technique. <i>Polymer-Plastics Technology and Engineering</i> , 2010, 49, 1016-1021. | 1.9 | 11 |
| 3188 | Nanostructured Biomaterials. <i>Advanced Topics in Science and Technology in China</i> , 2010, , . | 0.0 | 8 |
| 3189 | Synergistic Effects of Zirconia-Coated Carbon Nanotube on Crystalline Structure of Polyvinylidene Fluoride Nanocomposites: Electrical Properties and Flame-Retardant Behavior. <i>Langmuir</i> , 2010, 26, 3609-3614. | 1.6 | 43 |
| 3190 | Biosensor system-on-a-chip including CMOS-based signal processing circuits and 64 carbon nanotube-based sensors for the detection of a neurotransmitter. <i>Lab on A Chip</i> , 2010, 10, 894. | 3.1 | 34 |
| 3191 | Nanostructured carbons in catalysis a Janus materialâ€™ industrial applicability and fundamental insights. <i>Journal of Materials Chemistry</i> , 2010, 20, 7312. | 6.7 | 102 |
| 3192 | Preparation of a MWCNT/ZnO nanocomposite and its photocatalytic activity for the removal of cyanide from water using a laser. <i>Nanotechnology</i> , 2010, 21, 495705. | 1.3 | 80 |
| 3193 | Defect Formation in Ga-Catalyzed Silicon Nanowires. <i>Crystal Growth and Design</i> , 2010, 10, 1534-1543. | 1.4 | 46 |
| 3194 | New Trends in Nanotechnology and Fractional Calculus Applications. , 2010, , . | | 365 |
| 3195 | Affinity of C ₆₀ Neat Fullerenes with Membrane Proteins: A Computational Study on Potassium Channels. <i>ACS Nano</i> , 2010, 4, 4158-4164. | 7.3 | 63 |
| 3196 | Harvesting Waste Thermal Energy Using a Carbon-Nanotube-Based Thermo-Electrochemical Cell. <i>Nano Letters</i> , 2010, 10, 838-846. | 4.5 | 431 |
| 3197 | Contiguous Petal-like Carbon Nanosheet Outgrowths from Graphite Fibers by Plasma CVD. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 644-648. | 4.0 | 58 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3198 | Tensile Strength and Young's Modulus of Polyisoprene/Single-Wall Carbon Nanotube Composites Increased by High Pressure Cross-linking. <i>Macromolecules</i> , 2010, 43, 7680-7688. | 2.2 | 33 |
| 3199 | Real-time, step-wise, electrical detection of protein molecules using dielectrophoretically aligned SWNT-film FET aptasensors. <i>Lab on A Chip</i> , 2010, 10, 2052. | 3.1 | 46 |
| 3200 | Carbon Nanostructures Carbon nanostructures " Tubes, Graphene graphene , Fullerenes fullerenes , Wave-Particle Duality wave-particle duality. , 2010, , 209-266. | | 1 |
| 3201 | DNA Diagnostics: Nanotechnology-Enhanced Electrochemical Detection of Nucleic Acids. <i>Pediatric Research</i> , 2010, 67, 458-468. | 1.1 | 131 |
| 3202 | Toward Single-Chirality Carbon Nanotube Device Arrays. <i>ACS Nano</i> , 2010, 4, 2748-2754. | 7.3 | 67 |
| 3203 | Catalyzed Growth of Carbon Nanotube with Definable Chirality by Hybrid Molecular Dynamics~Force Biased Monte Carlo Simulations. <i>ACS Nano</i> , 2010, 4, 6665-6672. | 7.3 | 162 |
| 3204 | Epitaxial Growth and Composition-Dependent Optical Properties of Vertically Aligned ZnS _{1-x} Se _x Alloy Nanowire Arrays. <i>Crystal Growth and Design</i> , 2010, 10, 4206-4210. | 1.4 | 13 |
| 3205 | Nano-yarn carbon nanotube fiber based enzymatic glucose biosensor. <i>Nanotechnology</i> , 2010, 21, 165501. | 1.3 | 92 |
| 3207 | Defect engineering of the electrochemical characteristics of carbon nanotube varieties. <i>Journal of Applied Physics</i> , 2010, 108, . | 1.1 | 19 |
| 3208 | Wafer-scale process for fabricating arrays of nanopore devices. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2010, 9, 033011. | 1.0 | 13 |
| 3209 | Hydrogel electrode materials. , 2010, , . | | 0 |
| 3210 | Nanocomposite microstructures with tunable mechanical and chemical properties. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4446. | 1.3 | 19 |
| 3211 | 11.4: Thermionic emission from long spun carbon nanotube fiber. , 2010, , . | | 0 |
| 3212 | Selective adsorption of dithiolate-modified multi-wall carbon nanotubes onto alkanethiol self-assembled monolayers on Au(111). <i>Chemical Communications</i> , 2010, 46, 6584. | 2.2 | 7 |
| 3213 | Recyclable and electrically conducting carbon nanotube composite films. <i>Nanoscale</i> , 2010, 2, 418-422. | 2.8 | 17 |
| 3214 | Nitrogen-doped carbon nanotubes functionalized by transition metal atoms: a density functional study. <i>Journal of Materials Chemistry</i> , 2010, 20, 1702. | 6.7 | 82 |
| 3215 | Fabrication of ion-induced carbon-cobalt nanocomposite fibers: Effect of cobalt supply rate. , 2010, , . | | 1 |
| 3216 | Stoichiometric control of single walled carbon nanotubes functionalization. <i>Journal of Materials Chemistry</i> , 2010, 20, 4385. | 6.7 | 49 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3217 | Ionic liquids assisted formation of an oil/water emulsion stabilised by a carbon nanotube/ionic liquid composite layer. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2535. | 1.3 | 9 |
| 3218 | Nanotube fibers for electromechanical and shape memory actuators. <i>Journal of Materials Chemistry</i> , 2010, 20, 3487. | 6.7 | 67 |
| 3219 | A chemical combination reaction within single-walled carbon nanotubes. <i>Nanoscale</i> , 2010, 2, 893. | 2.8 | 8 |
| 3220 | Bioinspired noncovalently crosslinked "fuzzy" carbon nanotube bundles with superior toughness and strength. <i>Journal of Materials Chemistry</i> , 2010, 20, 10465. | 6.7 | 38 |
| 3221 | Surface-initiated graft polymerization on multiwalled carbon nanotubes pretreated by corona discharge at atmospheric pressure. <i>Nanoscale</i> , 2010, 2, 389-393. | 2.8 | 15 |
| 3222 | Polyaniline-based nanocomposites: preparation, properties and applications. , 2010, , 187-243. | | 3 |
| 3223 | A multi-walled carbon nanotube/poly(urea-formaldehyde) composite prepared by in situ polycondensation for enhanced electrochemical sensing. <i>New Journal of Chemistry</i> , 2010, 34, 453. | 1.4 | 21 |
| 3224 | Tailoring Triblock Copolymers for Dispersion of Individual, Pristine, Single-Walled Carbon Nanotubes in Organic Solvents. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3748-3753. | 1.5 | 13 |
| 3225 | Excellent Field Emitters: Onion-Shaped Tipped Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8282-8286. | 1.5 | 6 |
| 3226 | Electrochemical Patterning of Transparent Single-Walled Carbon Nanotube Films on Plastic Substrates. <i>Langmuir</i> , 2010, 26, 9136-9141. | 1.6 | 13 |
| 3227 | A Facile Approach for the Fabrication of Highly Stable Superhydrophobic Cotton Fabric with Multi-Walled Carbon Nanotubes/Azide Polymer Composites. <i>Langmuir</i> , 2010, 26, 7529-7534. | 1.6 | 71 |
| 3228 | Boolean functions over nano-fabrics: Improving resilience through coding. , 2010, , . | | 0 |
| 3229 | Extrusion printing conducting gel-carbon nanotube structures upon flexible substrates.. , 2010, , . | | 3 |
| 3230 | Growth of Millimeter-Scale Vertically Aligned Carbon Nanotubes by Microwave Plasma Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 085101. | 0.8 | 15 |
| 3231 | Advanced microwave-assisted production of hybrid electrodes for energy applications. <i>Energy and Environmental Science</i> , 2010, 3, 1979. | 15.6 | 19 |
| 3232 | Diffusion of vitamin B₁₂ in gellan gum-carbon nanotube hydrogels. , 2010, , . | | 1 |
| 3233 | 3.5: Fabrication and field emission properties of point-type emitters of carbon nanotubes for miniaturized X-ray sources. , 2010, , . | | 0 |
| 3234 | Large-Scale Nanorods Nanomanufacturing by Electric-Field-Directed Assembly for Nanoscale Device Applications. <i>IEEE Nanotechnology Magazine</i> , 2010, 9, 653-658. | 1.1 | 18 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3235 | Gas sensor for CO and NH ₃ using polyaniline/CNTs composite at room temperature. , 2010, , . | | 4 |
| 3236 | Patterned growth of ultra long carbon nanotubes. Properties and systematic investigation into their growth process. Journal of Materials Chemistry, 2010, 20, 1717. | 6.7 | 27 |
| 3237 | Microstructural characterisation and electrical properties of multiwalled carbon nanotubes/glass-ceramic nanocomposites. Journal of Materials Chemistry, 2010, 20, 308-313. | 6.7 | 11 |
| 3238 | Chemical mapping and electrical conductivity of carbon nanotube patterned arrays. Journal of Materials Chemistry, 2011, 21, 14259. | 6.7 | 1 |
| 3239 | A novel H ₂ O ₂ sensor based on the enzymatically induced deposition of polyaniline at a horseradish peroxidase/aligned single-wall carbon nanotubes modified Au electrode. Analyst, The, 2011, 136, 781-786. | 1.7 | 32 |
| 3240 | Optical waveguides and switches based on periodic arrays of carbon nanotubes. , 2011, , . | | 0 |
| 3241 | Novel and versatile process for the preparation of polyvinyl alcohol composite carbon nanotube fibers/yarns. , 2011, , . | | 0 |
| 3242 | Thermal Buckling Analysis of Embedded Single-Walled Carbon Nanotubes with Arbitrary Boundary Conditions Using the Nonlocal Timoshenko Beam Theory. Journal of Thermal Stresses, 2011, 34, 1271-1281. | 1.1 | 39 |
| 3243 | Ordered deposition of Pd nanoparticles on sodium dodecyl sulfate-functionalized single-walled carbon nanotubes. Journal of Materials Chemistry, 2011, 21, 12008. | 6.7 | 13 |
| 3244 | Modification of self-assembled nanotubes by click chemistry generates new nanotubes by an out-of-equilibrium process. Soft Matter, 2011, 7, 1121-1128. | 1.2 | 4 |
| 3245 | Functional mesoporous carbon nanotubes and their integration in situ with metal nanocrystals for enhanced electrochemical performances. Chemical Communications, 2011, 47, 8590. | 2.2 | 66 |
| 3246 | Photoresponse of multi-walled carbon nanotube-copper sulfide (MWNT-CuS) hybrid nanostructures. Physical Chemistry Chemical Physics, 2011, 13, 20471. | 1.3 | 33 |
| 3247 | Efficient model for delay estimation of MWCNT interconnects. , 2011, , . | | 2 |
| 3248 | High reaction activity of nitrogen-doped carbon nanotubes toward the electrooxidation of nitric oxide. Chemical Communications, 2011, 47, 7137. | 2.2 | 35 |
| 3249 | Tailoring of three-dimensional carbon nanotube architectures by coupling capillarity-induced assembly with multiple CVD growth. Journal of Materials Chemistry, 2011, 21, 5967. | 6.7 | 19 |
| 3250 | Diameter-based separation of single-walled carbon nanotubes through selective extraction with dipyrone nanotweezers. Chemical Science, 2011, 2, 862. | 3.7 | 39 |
| 3251 | Unusually High Dispersion of Nitrogen-Doped Carbon Nanotubes in DNA Solution. Journal of Physical Chemistry B, 2011, 115, 14295-14300. | 1.2 | 8 |
| 3252 | Direct observation and spectroscopy of nanoscaled carboxylated carbonaceous fragments coated on carbon nanotubes. Chemical Communications, 2011, 47, 8373. | 2.2 | 25 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3253 | Hierarchical co-assembly of chiral lipid nanotubes with an azobenzene derivative: optical and chiroptical switching. <i>Soft Matter</i> , 2011, 7, 4654. | 1.2 | 43 |
| 3254 | Thermal conductivity and microhardness of MWCNTs/copper nanocomposites. , 2011, , . | | 0 |
| 3255 | Synthesis of Fe ₃ O ₄ /Pt Nanoparticles Decorated Carbon Nanotubes and Their Use as Magnetically Recyclable Catalysts. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-10. | 1.5 | 14 |
| 3256 | Selective carrier transport enhancement in bulk-heterojunction organic photovoltaics with nitrogen or boron doped carbon nanotubes. , 2011, , . | | 0 |
| 3257 | Carbon nanotube substrate electrodes for lightweight, long-life rechargeable batteries. <i>Energy and Environmental Science</i> , 2011, 4, 2943. | 15.6 | 51 |
| 3258 | Field nanoemitter: One-dimension Al ₄ C ₃ ceramics. <i>Nanoscale</i> , 2011, 3, 2978. | 2.8 | 55 |
| 3259 | What is the role of defects in single-walled carbon nanotubes for nonlinear optical property?. <i>Journal of Materials Chemistry</i> , 2011, 21, 8905. | 6.7 | 16 |
| 3260 | High performance, freestanding and superthin carbon nanotube/epoxy nanocomposite films. <i>Nanoscale</i> , 2011, 3, 3731. | 2.8 | 31 |
| 3261 | 3D boron doped carbon nanorods/carbon-microfiber hybrid composites: synthesis and applications in a highly stable proton exchange membrane fuel cell. <i>Journal of Materials Chemistry</i> , 2011, 21, 18195. | 6.7 | 38 |
| 3262 | Preparation of hydrogen and carbon nanotubes over cobalt-containing catalysts via catalytic decomposition of ethanol. <i>RSC Advances</i> , 2011, 1, 1585. | 1.7 | 15 |
| 3263 | Effect of Multi-Wall Carbon Nanotubes on the Electrochemical Performance of Al/Ca Codoped $\text{LiNi}_{1-x}\text{Co}_x\text{O}_2$ -Nickel Hydroxide. <i>Integrated Ferroelectrics</i> , 2011, 129, 176-180. | 0.3 | 1 |
| 3264 | Functionalization of carbon nanotubes for polymer nanocomposites. , 2011, , 55-91. | | 3 |
| 3265 | Effect of target surface on the elastic properties of fast fullerenes. <i>Physical Review B</i> , 2011, 83, . | 1.1 | 3 |
| 3266 | Enhanced dynamic electromechanical properties of electrophoresis assembled carbon nanotube-polymer piezoelectric transducers. , 2011, , . | | 0 |
| 3267 | Preparation and Characterization of High Performance Multiwall Carbon Nanotube Conducting Films. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 550, 23-29. | 0.4 | 1 |
| 3268 | Non-destructive characterization of structural hierarchy within aligned carbon nanotube assemblies. <i>Journal of Applied Physics</i> , 2011, 109, 094316. | 1.1 | 19 |
| 3269 | Controllable-Induced Crystallization of PE- <i>b</i> -PEO on Carbon Nanotubes with Assistance of Supercritical CO ₂ : Effect of Solvent. <i>Macromolecules</i> , 2011, 44, 3958-3965. | 2.2 | 36 |
| 3270 | Carbon Nanotube Electron Ionization Source for Portable Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 6527-6531. | 3.2 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3271 | Ultrahigh-Vacuum-Assisted Control of Metal Nanoparticles for Horizontally Aligned Single-Walled Carbon Nanotubes with Extraordinary Uniform Diameters. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13247-13253. | 1.5 | 33 |
| 3272 | High-Temperature Stability of Cobalt Grafted on Low-Loading Incorporated Mo ^{VI} -MCM-41 Catalyst for Synthesis of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1014-1024. | 1.5 | 8 |
| 3273 | EFFECT OF BOND ALTERNATION ON ELECTRONIC ENERGY BAND STRUCTURE OF ARMCHAIR CARBON NANOTUBES. <i>Modern Physics Letters B</i> , 2011, 25, 1013-1018. | 1.0 | 1 |
| 3274 | Salting out in organic solvents: a new route to carbon nanotube bundle engineering. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12399. | 1.3 | 13 |
| 3276 | Study of Carbon-Nanotube Web Thermoacoustic Loud Speakers. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 01BJ10. | 0.8 | 24 |
| 3277 | Preparation, Characterization, and Properties of Polyurethane-Grafted Multiwalled Carbon Nanotubes and Derived Polyurethane Nanocomposites. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-9. | 1.5 | 22 |
| 3278 | Homogeneous Nucleation of Graphitic Nanostructures from Carbon Chains on Ni(111). <i>Journal of Physical Chemistry C</i> , 2011, 115, 10537-10543. | 1.5 | 68 |
| 3279 | Effect of electron irradiation on structure of carbon nanotubes. <i>Materials Science and Technology</i> , 2011, 27, 747-754. | 0.8 | 4 |
| 3280 | Strain-Sensing Elastomer/Carbon Nanofiber ϵ -Metacomposites. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13215-13222. | 1.5 | 110 |
| 3281 | Thermal-Stable Carbon Nanotube-Supported Metal Nanocatalysts by Mesoporous Silica Coating. <i>Langmuir</i> , 2011, 27, 6244-6251. | 1.6 | 28 |
| 3282 | Low-Loss, High-Permittivity Composites Made from Graphene Nanoribbons. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4657-4661. | 4.0 | 61 |
| 3283 | Twofold pH and temperature stimuli-responsive behaviour in block copolypeptide-decorated single wall carbon nanotubes. <i>Chemical Communications</i> , 2011, 47, 262-264. | 2.2 | 14 |
| 3284 | Epoxy ϵ -carbon nanotube composites. , 2011, , 230-261. | | 1 |
| 3285 | Facile and green fabrication of organic single-crystal hollow micro/nanostructures. <i>Nanotechnology</i> , 2011, 22, 285606. | 1.3 | 6 |
| 3286 | Poly(L-Lactide) Composite Nanofibers Incorporating POSS-MWNTs. <i>Advanced Materials Research</i> , 0, 175-176, 341-344. | 0.3 | 2 |
| 3288 | Synthesis of Functional Polypropylene as Efficient Dispersing Agent for Carbon Nanotubes. <i>Advanced Materials Research</i> , 0, 332-334, 1876-1879. | 0.3 | 0 |
| 3289 | Hierarchical Carbon Nanowire Microarchitectures Made by Plasma-Assisted Pyrolysis of Photoresist. <i>ACS Nano</i> , 2011, 5, 6593-6600. | 7.3 | 55 |
| 3290 | Stretch-Modulated Carbon Nanotube Alignment in Ferroelectric Polymer Composites: Characterization of the Orientation State and Its Influence on the Dielectric Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20011-20017. | 1.5 | 72 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 3291 | Reinforcing effect of carbon nanotubes on PEEK composite filled with carbon fibre. <i>Materials Science and Technology</i> , 2011, 27, 252-256. | 0.8 | 7 |
| 3292 | Electronic Structures of Porous Graphene, BN, and BC ₂ N Sheets with One- and Two-Hydrogen Passivations from First Principles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5334-5343. | 1.5 | 48 |
| 3293 | Multiwalled carbon nanotube-based bi-enzyme electrode for total cholesterol estimation in human serum. <i>Journal of Experimental Nanoscience</i> , 2011, 6, 84-95. | 1.3 | 10 |
| 3294 | Field emission from hydrogen titanate nanotubes. <i>Applied Physics Letters</i> , 2011, 99, . | 1.5 | 14 |
| 3295 | Development of Numerical Methods for Signal Smoothing and Noise Modeling in Single Wire-Based Electrochemical Biosensors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16172-16179. | 1.5 | 7 |
| 3296 | Structural Stability of Transparent Conducting Films Assembled from Length Purified Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3973-3981. | 1.5 | 19 |
| 3297 | Phase Distribution of ¹⁴ C-Labeled Multiwalled Carbon Nanotubes in Aqueous Systems Containing Model Solids: Peat. <i>Environmental Science & Technology</i> , 2011, 45, 1356-1362. | 4.6 | 62 |
| 3298 | Carbon Nanotubes in Nanocomposites and Hybrids with Hydroxyapatite for Bone Replacements. <i>Journal of Tissue Engineering</i> , 2011, 2011, 674287. | 2.3 | 39 |
| 3299 | Nitrogen-Promoted Self-Assembly of N-Doped Carbon Nanotubes and Their Intrinsic Catalysis for Oxygen Reduction in Fuel Cells. <i>ACS Nano</i> , 2011, 5, 1677-1684. | 7.3 | 220 |
| 3300 | Industrial compatible re-growth of vertically aligned multiwall carbon nanotubes by ultrafast pure oxygen purification process. <i>Diamond and Related Materials</i> , 2011, 20, 746-751. | 1.8 | 12 |
| 3301 | Electronic transport properties of carbon nanotoroids. <i>Nanotechnology</i> , 2011, 22, 075701. | 1.3 | 6 |
| 3302 | Low-Defect MWNTâ€“Pt Nanocomposite as a High Performance Electrocatalyst for Direct Methanol Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19405-19412. | 1.5 | 79 |
| 3303 | Electrocatalytic reduction of oxygen on bimetallic copperâ€“gold nanoparticlesâ€“multiwalled carbon nanotube modified glassy carbon electrode in alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 275-280. | 1.9 | 44 |
| 3304 | No time to loseâ€“high throughput screening to assess nanomaterial safety. <i>Nanoscale</i> , 2011, 3, 1345. | 2.8 | 153 |
| 3305 | Self-Assembly and Nanotechnology: Real-Time, Hands-On, and Safe Experiments for K-12 Students. <i>Journal of Chemical Education</i> , 2011, 88, 609-614. | 1.1 | 17 |
| 3306 | Properties of Carbon Nanotubes: An ab Initio Study Using Large Gaussian Basis Sets and Various DFT Functionals. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8876-8885. | 1.5 | 42 |
| 3307 | Recent Trends in Macro-, Micro-, and Nanomaterial-Based Tools and Strategies for Heavy-Metal Detection. <i>Chemical Reviews</i> , 2011, 111, 3433-3458. | 23.0 | 1,184 |
| 3308 | Dispersion of single-walled carbon nanotubes with poly(pyridinium salt)s. <i>Polymer Chemistry</i> , 2011, 2, 1953. | 1.9 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3309 | Supercapacitors Based on 3D Nanostructured Electrodes. , 2011, , 477-521. | | 0 |
| 3310 | A simulation study on the combined effects of nanotube shape and shear flow on the electrical percolation thresholds of carbon nanotube/polymer composites. Journal of Applied Physics, 2011, 109, 084342. | 1.1 | 64 |
| 3311 | Optical and Sensing Properties of 1-Pyrenecarboxylic Acid-Functionalized Graphene Films Laminated on Polydimethylsiloxane Membranes. ACS Nano, 2011, 5, 1003-1011. | 7.3 | 78 |
| 3312 | Joule heating and thermoelectric properties in short single-walled carbon nanotubes: Electron-phonon interaction effect. Journal of Applied Physics, 2011, 110, . | 1.1 | 42 |
| 3313 | Nanostructured Materials in Different Dimensions for Sensing Applications. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 257-273. | 0.2 | 2 |
| 3314 | Ultra-sensitive and wide-dynamic-range sensors based on dense arrays of carbon nanotube tips. Nanoscale, 2011, 3, 4854. | 2.8 | 34 |
| 3316 | The role of activation energy and reduced viscosity on the enhancement of water flow through carbon nanotubes. Journal of Chemical Physics, 2011, 134, 194509. | 1.2 | 102 |
| 3317 | Enhancing the Photostability of Poly(3-hexylthiophene) by Preparing Composites with Multiwalled Carbon Nanotubes. Journal of Physical Chemistry B, 2011, 115, 919-924. | 1.2 | 39 |
| 3318 | Electronic transport in single-walled carbon nanotube/graphene junction. Applied Physics Letters, 2011, 99, . | 1.5 | 48 |
| 3319 | The impact of gate insulator dielectric constant on performance of CNTFETs at different ambient temperatures. , 2011, , . | | 1 |
| 3320 | Application of carbon fibers to biomaterials: A new era of nano-level control of carbon fibers after 30-years of development. Chemical Society Reviews, 2011, 40, 3824. | 18.7 | 146 |
| 3321 | Elucidation of the Reinforcing Mechanism in Carbon Nanotube/Rubber Nanocomposites. ACS Nano, 2011, 5, 3858-3866. | 7.3 | 117 |
| 3322 | Self-Assembled Hierarchical Structure of Fullerene Building Blocks; Single-Walled Carbon Nanotubes and C60. Journal of Physical Chemistry C, 2011, 115, 10483-10488. | 1.5 | 10 |
| 3323 | Electric Field-Driven Acid-Base Chemistry: Proton Transfer from Acid (HCl) to Base (NH ₃ /H ₂ O). Journal of Physical Chemistry A, 2011, 115, 1418-1422. | 1.1 | 43 |
| 3324 | Carbon Nanotubes in Regenerative Medicine. Carbon Nanostructures, 2011, , 27-39. | 0.1 | 9 |
| 3325 | Cytotoxicity Screening of Single-Walled Carbon Nanotubes: Detection and Removal of Cytotoxic Contaminants from Carboxylated Carbon Nanotubes. Molecular Pharmaceutics, 2011, 8, 1351-1361. | 2.3 | 69 |
| 3326 | Large-scale integration of single-walled carbon nanotubes and graphene into sensors and devices using dielectrophoresis: A review. Journal of Materials Research, 2011, 26, 1561-1571. | 1.2 | 23 |
| 3327 | Highly conductive carbon nanotube buckypapers with improved doping stability via conjugational cross-linking. Nanotechnology, 2011, 22, 485708. | 1.3 | 60 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3328 | Amphiphilic Multiwalled Carbon Nanotube Polymer Hybrid with Improved Conductivity and Dispersibility Produced by Functionalization with Poly(vinylbenzyl)triethylammonium Chloride. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19897-19909. | 1.5 | 21 |
| 3329 | Corrugated Carbon Nanotube Microstructures with Geometrically Tunable Compliance. <i>ACS Nano</i> , 2011, 5, 7310-7317. | 7.3 | 35 |
| 3330 | Biosensors based on one-dimensional nanostructures. <i>Journal of Materials Chemistry</i> , 2011, 21, 8940. | 6.7 | 70 |
| 3331 | Synthesis, Dispersion, and Viscosity of Poly(ethylene glycol)-Functionalized Water-Soluble Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2011, 23, 1246-1253. | 3.2 | 47 |
| 3332 | Estimating Production Data for Five Engineered Nanomaterials As a Basis for Exposure Assessment. <i>Environmental Science & Technology</i> , 2011, 45, 2562-2569. | 4.6 | 350 |
| 3333 | Fabrication and Characterization of Ultrathin Graphene Oxide/Poly(Vinyl Alcohol) Composite Films via Layer-by-Layer Assembly. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 1098-1107. | 0.4 | 13 |
| 3334 | Compact-designed supercapacitors using free-standing single-walled carbon nanotube films. <i>Energy and Environmental Science</i> , 2011, 4, 1440. | 15.6 | 310 |
| 3335 | Engineering DNA-based functional materials. <i>Chemical Society Reviews</i> , 2011, 40, 5730. | 18.7 | 263 |
| 3336 | Electromagnetic Modeling of Multiwalled Carbon Nanotubes as Nanorod Electrodes for Optimizing Device Geometry in a Nanophotonic Device. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 547-554. | 1.1 | 4 |
| 3337 | Supramolecular self-assembly of biopolymers with carbon nanotubes for biomimetic and bio-inspired sensing and actuation. <i>Nanoscale</i> , 2011, 3, 2412. | 2.8 | 26 |
| 3338 | Characterizing the viscoelastic properties of layer-by-layer carbon nanotube "polyelectrolyte thin films. <i>Smart Materials and Structures</i> , 2011, 20, 075020. | 1.8 | 7 |
| 3339 | Novel architecture of carbon nanotube decorated poly(methyl methacrylate) microbead vapour sensors assembled by spray layer by layer. <i>Journal of Materials Chemistry</i> , 2011, 21, 4142. | 6.7 | 67 |
| 3340 | Immobilization of enzymes onto carbon nanotubes. <i>Hemijaska Industrija</i> , 2011, 65, 423-430. | 0.3 | 4 |
| 3341 | Giant Dielectric Permittivity Nanocomposites: Realizing True Potential of Pristine Carbon Nanotubes in Polyvinylidene Fluoride Matrix through an Enhanced Interfacial Interaction. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5515-5521. | 1.5 | 341 |
| 3342 | Hierarchical assembly of micro-/nano-building blocks: bio-inspired rigid structural functional materials. <i>Chemical Society Reviews</i> , 2011, 40, 3764. | 18.7 | 341 |
| 3343 | Piezoresistive Strain Sensors Made from Carbon Nanotubes Based Polymer Nanocomposites. <i>Sensors</i> , 2011, 11, 10691-10723. | 2.1 | 519 |
| 3344 | Materials and Devices toward Fully Solution Processable Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2011, 23, 326-340. | 3.2 | 399 |
| 3345 | Mechanism of Li Adsorption on Carbon Nanotube-Fullerene Hybrid System: A First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1186-1194. | 4.0 | 29 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3346 | Single-walled carbon nanotubes as optical materials for biosensing. <i>Nanoscale</i> , 2011, 3, 1949. | 2.8 | 79 |
| 3347 | Thin film contact resistance with dissimilar materials. <i>Journal of Applied Physics</i> , 2011, 109, . | 1.1 | 25 |
| 3348 | Well dispersed single-walled carbon nanotubes with strong visible fluorescence in water for metal ions sensing. <i>Chemical Communications</i> , 2011, 47, 7167. | 2.2 | 23 |
| 3349 | Plasmonic Band Gaps and Waveguide Effects in Carbon Nanotube Arrays Based Metamaterials. <i>ACS Nano</i> , 2011, 5, 9138-9143. | 7.3 | 36 |
| 3350 | Quantum dots and carbon nanotubes in oncology: a review on emerging theranostic applications in nanomedicine. <i>Nanomedicine</i> , 2011, 6, 1101-1114. | 1.7 | 106 |
| 3351 | Thin Single-Walled Carbon Nanotubes with Narrow Chirality Distribution: Constructive Interplay of Plasma and Gibbs-Thomson Effects. <i>ACS Nano</i> , 2011, 5, 8372-8382. | 7.3 | 38 |
| 3352 | Joining carbon nanotubes. <i>Nanoscale</i> , 2011, 3, 4503. | 2.8 | 28 |
| 3353 | Semiconductor nanowires: A platform for nanoscience and nanotechnology. <i>MRS Bulletin</i> , 2011, 36, 1052-1063. | 1.7 | 187 |
| 3355 | Methanol Electrooxidation on the Nickel Oxide Nanoparticles-Multi-Walled Carbon Nanotubes Modified Glassy Carbon Electrode Prepared Using Pulsed Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2011, 158, K225. | 1.3 | 68 |
| 3356 | Structure and electronic properties of molybdenum monatomic wires encapsulated in carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 265302. | 0.7 | 8 |
| 3357 | A biophysical perspective of understanding nanoparticles at large. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7273. | 1.3 | 63 |
| 3358 | The role of structural defects on the transport properties of a few-walled carbon nanotube networks. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 16 |
| 3359 | Polymeric Bionanocomposites as Promising Materials for Controlled Drug Delivery. <i>Advances in Polymer Science</i> , 2011, , 1-18. | 0.4 | 5 |
| 3360 | Synthesis and Electrochemical Properties of Spin-Capable Carbon Nanotube Sheet/MnO _x Composites for High-Performance Energy Storage Devices. <i>Nano Letters</i> , 2011, 11, 2611-2617. | 4.5 | 247 |
| 3361 | Anomalous electrical transport properties of polyvinyl alcohol-multiwall carbon nanotubes composites below room temperature. <i>Journal of Applied Physics</i> , 2011, 109, 033707. | 1.1 | 26 |
| 3362 | Wearable Monitoring Systems. , 2011, , . | | 49 |
| 3363 | NONLOCAL THEORY FOR BUCKLING OF NANOPlates. <i>International Journal of Structural Stability and Dynamics</i> , 2011, 11, 411-429. | 1.5 | 27 |
| 3364 | Shear-induced anisotropy of concentrated multiwalled carbon nanotube suspensions using x-ray scattering. <i>Journal of Rheology</i> , 2011, 55, 1033-1058. | 1.3 | 19 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3365 | Enhancement of Gas Sensing Properties of CdS Nanowire/ZnO Nanosphere Composite Materials at Room Temperature by Visible-Light Activation. ACS Applied Materials & Interfaces, 2011, 3, 2253-2258. | 4.0 | 96 |
| 3366 | Effect of Functionalize Carbon Nanotubes with Amine Functional Group on the Mechanical and Thermal Properties of Styrene Butadiene Rubber. Journal of Thermoplastic Composite Materials, 2011, 24, 613-624. | 2.6 | 25 |
| 3367 | Advanced Lithium Battery Cathodes Using Dispersed Carbon Fibers as the Current Collector. Journal of the Electrochemical Society, 2011, 158, A1060. | 1.3 | 59 |
| 3368 | Study on the Electrospun CNTs/Polyacrylonitrile-Based Nanofiber Composites. Journal of Nanomaterials, 2011, 2011, 1-7. | 1.5 | 27 |
| 3371 | Tunable mechanical properties of self-assembled SWNT/polymer nanocomposite films for MEMS. , 2011, , . | | 1 |
| 3372 | Evaluation of carbon nanotubes as solid-phase extraction sorbent for the removal of cephalexin from aqueous solution. Desalination and Water Treatment, 2011, 28, 55-58. | 1.0 | 18 |
| 3373 | Fast carbon nanotube detectors for micro gas chromatographs. Nanoscale, 2011, 3, 3097. | 2.8 | 12 |
| 3374 | Fluorescence Quenching of Dyes Covalently Attached to Single-Walled Carbon Nanotubes. Journal of Physical Chemistry A, 2011, 115, 9579-9584. | 1.1 | 48 |
| 3375 | Nanotechnology Research Directions for Societal Needs in 2020. , 2011, , . | | 202 |
| 3376 | Dispersal State of Multiwalled Carbon Nanotubes Elicits Profibrogenic Cellular Responses That Correlate with Fibrogenesis Biomarkers and Fibrosis in the Murine Lung. ACS Nano, 2011, 5, 9772-9787. | 7.3 | 178 |
| 3377 | Carbon and Oxide Nanostructures. Advanced Structured Materials, 2011, , . | 0.3 | 23 |
| 3378 | Novel Mechanochemical Synthesis of Carbon Nanomaterials by a High-Speed Ball-Milling. Advanced Materials Research, 0, 284-286, 755-758. | 0.3 | 1 |
| 3379 | CHEMISTRY OF VERTICALLY-ALIGNED CARBON NANOTUBES. , 2011, , 219-243. | | 0 |
| 3380 | Enhanced Field Emission Properties of Fe_2O_3 Nanostructures with the Removal of Adsorbed Gas Molecules. Journal of Physical Chemistry C, 2011, 115, 8816-8824. | 1.5 | 19 |
| 3381 | Contact and sheet resistances of carbon nanotube forest in gas sensing applications. , 2011, , . | | 2 |
| 3382 | Noncovalent assembly of carbon nanotube-inorganic hybrids. Journal of Materials Chemistry, 2011, 21, 7527. | 6.7 | 74 |
| 3384 | Nanoelectronic Circuit Design. , 2011, , . | | 30 |
| 3385 | Chirality-Dependent Transport in Double-Walled Carbon Nanotube Assemblies: The Role of Inner Tubes. ACS Nano, 2011, 5, 7547-7554. | 7.3 | 28 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3386 | Fabrication of Ultrafine Metal-Oxide-Decorated Carbon Nanofibers for DMMP Sensor Application. ACS Nano, 2011, 5, 7992-8001. | 7.3 | 199 |
| 3387 | Probing the Structure of the Crystalline Core of Field-Aligned, Monodisperse, Cylindrical Polyisoprene- <i>block</i> -Polyferrocenylsilane Micelles in Solution Using Synchrotron Small- and Wide-Angle X-ray Scattering. Journal of the American Chemical Society, 2011, 133, 17056-17062. | 6.6 | 91 |
| 3388 | Open-Ended Aligned Carbon Nanotube Arrays Produced Using CO ₂ -Assisted Floating-Ferrocene Chemical Vapor Deposition. Journal of Physical Chemistry C, 2011, 115, 14093-14097. | 1.5 | 20 |
| 3389 | Synthesis and Characterization of Boron Azadipyromethene Single-Wall Carbon Nanotube Electron Donor-Acceptor Conjugates. ACS Nano, 2011, 5, 1198-1206. | 7.3 | 70 |
| 3390 | Manufacturing polymer/carbon nanotube composite using a novel direct process. Nanotechnology, 2011, 22, 145302. | 1.3 | 33 |
| 3391 | Electronic Structure and Carrier Mobility in Graphdiyne Sheet and Nanoribbons: Theoretical Predictions. ACS Nano, 2011, 5, 2593-2600. | 7.3 | 833 |
| 3392 | Poptube approach for ultrafast carbon nanotube growth. Chemical Communications, 2011, 47, 9912. | 2.2 | 108 |
| 3393 | Effect of filament aspect ratio on the dielectric response of multiwalled carbon nanotube composites. Journal of Applied Physics, 2011, 109, 094109. | 1.1 | 30 |
| 3394 | Dynamic Behavior of Carbon Nanotube and Bio-/Artificial Surfactants Complexes in an Aqueous Environment. Journal of Physical Chemistry C, 2011, 115, 19659-19667. | 1.5 | 20 |
| 3395 | Transparent liquid-crystal-based microlens array using vertically aligned carbon nanofiber electrodes on quartz substrates. Nanotechnology, 2011, 22, 115201. | 1.3 | 21 |
| 3396 | AC conductivity and dielectric analysis of graphite-clay nanocomposite. Canadian Journal of Physics, 2011, 89, 1255-1260. | 0.4 | 2 |
| 3397 | Electromechanical properties of CNT-coated cotton yarn for electronic textile applications. Smart Materials and Structures, 2011, 20, 015004. | 1.8 | 59 |
| 3398 | Universal Parameters for Carbon Nanotube Network-Based Sensors: Can Nanotube Sensors Be Reproducible?. ACS Nano, 2011, 5, 4373-4379. | 7.3 | 62 |
| 3399 | High Thermal Conductive Composite Containing a Network of Vapor Grown Carbon Fiber and Carbon Nanotube in Aluminum Matrix. , 2011, , . | | 2 |
| 3401 | Growth evolution of rapid grown aligned carbon nanotube forests without water vapor on Fe/Al ₂ O ₃ /SiO ₂ /Si substrate. Diamond and Related Materials, 2011, 20, 859-862. | 1.8 | 14 |
| 3402 | Investigation of the influence factors of polyethylene molecule encapsulated into carbon nanotubes by molecular dynamics simulation. Applied Surface Science, 2011, 257, 10022-10030. | 3.1 | 15 |
| 3403 | A chemical kinetic model for chemical vapor deposition of carbon nanotubes. Applied Surface Science, 2011, 257, 10562-10570. | 3.1 | 16 |
| 3404 | Effect of cross-linkable polymer on the morphology and properties of transparent multi-walled carbon nanotube conductive films. Applied Surface Science, 2011, 258, 136-142. | 3.1 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3405 | Improving the surface properties of multi-walled carbon nanotubes after irradiation with gamma rays. <i>Applied Surface Science</i> , 2011, 258, 766-773. | 3.1 | 63 |
| 3406 | Confocal Raman spectromicroscopy for tin-core/carbon-shell nanowire heterostructure. <i>Applied Surface Science</i> , 2011, 258, 394-398. | 3.1 | 2 |
| 3407 | Poly lactide and carbon nanotubes/smectite-clay nanocomposites: Preparation, characterization, sorptive and electrical properties. <i>Applied Clay Science</i> , 2011, 53, 188-194. | 2.6 | 48 |
| 3408 | Catalytic applications of layered double hydroxides and derivatives. <i>Applied Clay Science</i> , 2011, 53, 139-150. | 2.6 | 347 |
| 3409 | Preparation and properties of ethylene propylene diene rubber/multi walled carbon nanotube composites for strain sensitive materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 623-630. | 3.8 | 65 |
| 3410 | Etching and cutting of multi-walled carbon nanotubes in molten nitrate. <i>Corrosion Science</i> , 2011, 53, 3764-3770. | 3.0 | 12 |
| 3411 | The effect of multi-walled carbon nanotubes on soil microbial activity. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 569-575. | 2.9 | 157 |
| 3412 | Ab Initio Study of Topological Defects in Single Walled Carbon Nanotubes and their Effect on Gas Sensing Mechanism. , 2011, , . | | 0 |
| 3413 | Physics and applications of aligned carbon nanotubes. <i>Advances in Physics</i> , 2011, 60, 553-678. | 35.9 | 128 |
| 3414 | Non-covalent interactions between carbon nanotubes and conjugated polymers. <i>Nanoscale</i> , 2011, 3, 3545. | 2.8 | 115 |
| 3415 | Recognition Ability of DNA for Carbon Nanotubes Correlates with Their Binding Affinity. <i>Langmuir</i> , 2011, 27, 8282-8293. | 1.6 | 90 |
| 3416 | Hybrid Macroscopic Fibers from the Synergistic Assembly Between Silica and Filamentous Viruses. <i>Langmuir</i> , 2011, 27, 4334-4338. | 1.6 | 8 |
| 3417 | Single-walled carbon nanotube/cobalt phthalocyanine derivative hybrid material: preparation, characterization and its gas sensing properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 3779. | 6.7 | 154 |
| 3418 | Modification of multi-walled carbon nanotubes with cobalt phthalocyanine: effects of the templates on the assemblies. <i>Journal of Materials Chemistry</i> , 2011, 21, 1181-1186. | 6.7 | 49 |
| 3419 | Anomaly of CH ₄ Molecular Assembly Confined in Single-Wall Carbon Nanohorn Spaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 2022-2024. | 6.6 | 33 |
| 3420 | Low noise GHz passive harmonic mode-locking of soliton fiber laser using evanescent wave interaction with carbon nanotubes. <i>Optics Express</i> , 2011, 19, 19775. | 1.7 | 58 |
| 3421 | Enzymatic Degradation of Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9536-9544. | 1.1 | 189 |
| 3422 | Electrical, rheological properties and morphologies of biphasic blends filled with carbon nanotubes in one of the two phases. <i>Synthetic Metals</i> , 2011, 161, 1034-1042. | 2.1 | 37 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3423 | The synthesis of highly electroactive N-doped carbon nanotube/polyaniline/Au nanocomposites and their application to the biosensor. <i>Synthetic Metals</i> , 2011, 161, 1940-1945. | 2.1 | 35 |
| 3424 | Porous graphene/carbon nanotube composite cathode for proton exchange membrane fuel cell. <i>Synthetic Metals</i> , 2011, 161, 2460-2465. | 2.1 | 60 |
| 3425 | Hg(II) immobilized MWCNT graphite electrode for the anodic stripping voltammetric determination of lead and cadmium. <i>Talanta</i> , 2011, 85, 290-297. | 2.9 | 54 |
| 3426 | Characteristic evaluation of Al ₂ O ₃ /CNTs hybrid materials for micro-electrical discharge machining. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, s28-s32. | 1.7 | 27 |
| 3427 | Distribution of electric field for carbon nanotube assembly: Experiments (II). <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, s121-s125. | 1.7 | 2 |
| 3428 | Synthesis of carbon nanotubes on silicon nanowires by thermal chemical vapor deposition. <i>New Carbon Materials</i> , 2011, 26, 401-407. | 2.9 | 6 |
| 3429 | Highly Conductive Boron Nanotubes: Transport Properties, Work Functions, and Structural Stabilities. <i>ACS Nano</i> , 2011, 5, 4997-5005. | 7.3 | 106 |
| 3430 | van der Waals potential barrier for cobaltocene encapsulation into single-walled carbon nanotubes: classical molecular dynamics and ab initio study. <i>Molecular Simulation</i> , 2011, 37, 746-751. | 0.9 | 1 |
| 3431 | Carbon Nanotubes. <i>Progress in Molecular Biology and Translational Science</i> , 2011, 104, 175-245. | 0.9 | 52 |
| 3432 | Effect of carbon nanotube coating of aligned nanofibrous polymer scaffolds on the neurite outgrowth of PC12 cells. <i>Cell Biology International</i> , 2011, 35, 741-745. | 1.4 | 32 |
| 3433 | Advancement in carbon nanotubes: basics, biomedical applications and toxicity. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 63, 141-163. | 1.2 | 256 |
| 3434 | Highly stretchable, transparent and scalable elastomers with tunable dielectric permittivity. <i>Journal of Materials Chemistry</i> , 2011, 21, 7686. | 6.7 | 55 |
| 3435 | Assembly of Janus fullerene: a novel approach to prepare rich carbon structures. <i>Journal of Materials Chemistry</i> , 2011, 21, 14864. | 6.7 | 13 |
| 3436 | On the Role of Extensional Flow in Morphology and Property Modifications of MWCNT/Polyamide-Based Fibers. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 645-657. | 1.7 | 19 |
| 3437 | Effect of Functionalized Carbon Nanotubes with Carboxylic Functional Group on the Mechanical and Thermal Properties of Styrene Butadiene Rubber. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2011, 19, 617-627. | 1.0 | 19 |
| 3438 | Electrocatalytic Activity and Stability of Pt clusters on State-of-the-Art Supports: A Review. <i>Catalysis Reviews - Science and Engineering</i> , 2011, 53, 256-336. | 5.7 | 118 |
| 3439 | A versatile approach to processing of high active area pillar coral- and sponge-like Pt-nanostructures. Application to electrocatalysis. <i>Journal of Materials Chemistry</i> , 2011, 21, 4182. | 6.7 | 20 |
| 3440 | Sidewall alkylcarboxylation of carbon nanotubes through reactions of fluoronanotubes with functional free radicals. <i>Russian Chemical Bulletin</i> , 2011, 60, 2212-2221. | 0.4 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3441 | Carbon nanocoils for multi-functional energy applications. Journal of Materials Chemistry, 2011, 21, 16103. | 6.7 | 36 |
| 3442 | Multidirectional Hierarchical Nanocomposites Made by Carbon Nanotube Growth within Layer-by-Layer-Assembled Films. Chemistry of Materials, 2011, 23, 1023-1031. | 3.2 | 21 |
| 3443 | Augmenting Exploration: Aerospace, Earth and Self. , 2011, , 221-249. | | 2 |
| 3444 | Nitrogen-doped carbon nanotubes with tunable structure and high yield produced by ultrasonic spray pyrolysis. Applied Surface Science, 2011, 257, 7837-7844. | 3.1 | 46 |
| 3445 | In-Situ Structural Characterization of Single-Walled Carbon Nanotubes in Dispersion. , 2011, , . | | 2 |
| 3446 | Thermal Conductivity Improvement of PEEK/ZrO ₂ Coated MWCNT Nanocomposites. , 2011, , . | | 1 |
| 3447 | New Materials in Electrochemical Sensors for Pesticides Monitoring. , 2011, , . | | 1 |
| 3448 | MWCNT Used in Orthopaedic Bone Cements. , 0, , . | | 3 |
| 3449 | Selective Separation of Single-Walled Carbon Nanotubes in Solution. , 0, , . | | 5 |
| 3451 | The Microstructure Characterization and the Mechanical Properties of Electrospun Polyacrylonitrile-Based Nanofibers. , 0, , . | | 1 |
| 3452 | Smart Materials and Structures Based on Carbon Nanotube Composites. , 2011, , . | | 21 |
| 3453 | Thermal parameters of carbon nanotubes and potassium bromide composites. Journal of Applied Physics, 2011, 109, . | 1.1 | 3 |
| 3454 | Nitrogen-Containing Carbon Nanotubes. A Theoretical Approach. , 2011, , . | | 1 |
| 3455 | Carbon Nanotubes Engineering Assisted by Natural Biopolymers. , 0, , . | | 0 |
| 3457 | Room temperature synthesis of indium tin oxide nanotubes with high precision wall thickness by electroless deposition. Beilstein Journal of Nanotechnology, 2011, 2, 119-126. | 1.5 | 4 |
| 3458 | Graphite-Composites Alternatives for Electrochemical Biosensor. , 2011, , . | | 3 |
| 3459 | Research and Application of CNT Composite Electroplating. , 2011, , . | | 3 |
| 3460 | Carbon Nanotubes in Electrochemical Sensors. , 0, , . | | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3461 | Polymer/Carbon Nanotube Nanocomposites. , 0, , . | | 59 |
| 3462 | Measurements of T1- and T2-relaxation Time Changes According to the Morphological Characteristics of Gold Nanoparticles (GNPs). Journal of the Korean Society of Magnetic Resonance in Medicine, 2011, 15, 48. | 0.1 | 0 |
| 3463 | Nanotubos de carbono aplicados Às neurociÃncias: perspectivas e desafios. Revista De Psiquiatria Clinica, 2011, 38, 201-206. | 0.6 | 5 |
| 3464 | Carbon Nanotubes Supported Metal Nanoparticles for the Applications in Proton Exchange Membrane Fuel Cells (PEMFCs). , 0, , . | | 2 |
| 3465 | A Strategy for Constructing Ordered Multilayer Composite Films Based on Alternate Electrodeposition and Self-Assembly. Journal of the Electrochemical Society, 2011, 159, J17-J22. | 1.3 | 2 |
| 3466 | A Study of the Adsorption Properties of Single Walled Carbon Nanotubes Treated with Nitric Acid. Adsorption Science and Technology, 2011, 29, 705-722. | 1.5 | 11 |
| 3467 | Electrochemical DNA Sensors: From Nanoconstruction to Biosensing. Current Organic Chemistry, 2011, 15, 506-517. | 0.9 | 13 |
| 3468 | The Last Decade of Carbon Paste Electrodes in DNA Electrochemistry. Current Analytical Chemistry, 2011, 7, 80-100. | 0.6 | 8 |
| 3469 | Carbon Diffusion from Methane into Walls of Carbon Nanotube through Structurally and Compositionally Modified Iron Catalyst. Microscopy and Microanalysis, 2011, 17, 582-586. | 0.2 | 3 |
| 3470 | Density Functional Theory Studies on Chemical Functionalization of Single-Walled Carbon Nanotubes by Bingel Reaction. Bulletin of the Chemical Society of Japan, 2011, 84, 748-753. | 2.0 | 2 |
| 3471 | Immobilization of Carbon Nanotubes on Au(111) via Self-assembled Monolayers. Chemistry Letters, 2011, 40, 1217-1219. | 0.7 | 0 |
| 3474 | Polystyrene-MWCNT Based Nanocomposite Multifunctional Strain Sensor: Dynamic Monitoring of Civil Engineering Structures. , 2011, , . | | 1 |
| 3477 | Dispersion of Carbon Nanotubes in Water by Noncovalent Wrapping with Peptides Screened by Phage Display. Chemistry Letters, 2011, 40, 880-882. | 0.7 | 5 |
| 3478 | In vivo biodistribution and biological impact of injected carbon nanotubes using magnetic resonance techniques. International Journal of Nanomedicine, 2011, 6, 351. | 3.3 | 61 |
| 3480 | Synthesis of Double Wall Carbon Nanotubes Using Sulfur as Catalyst. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, . | 1.2 | 0 |
| 3481 | Dynamic response of phenolic resin and its carbon-nanotube composites to shock wave loading. Journal of Applied Physics, 2011, 109, 013503. | 1.1 | 32 |
| 3482 | Evaluation of Crack Bridging Characteristics in Carbon Nanotube/Alumina Composites Using Single Fiber Pullout Testing Method. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2011, 77, 779-783. | 0.2 | 0 |
| 3483 | Fabrication of Carbon Nanotube Reinforced Aluminum Matrix Composite by Spark Plasma Sintering and Hot Extrusion Hybrid Process. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2011, 75, 259-264. | 0.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3485 | Blueprinting macromolecular electronics. <i>Nature Chemistry</i> , 2011, 3, 431-436. | 6.6 | 158 |
| 3486 | Carbon nanotube integrated 3-dimensional carbon microelectrode array by modified SU-8 photoresist photolithography and pyrolysis. <i>Thin Solid Films</i> , 2011, 520, 1041-1047. | 0.8 | 16 |
| 3487 | Synthesis and growth mechanism of macroscopic ZnO nanocombs and nanobelts. <i>Vacuum</i> , 2011, 86, 398-402. | 1.6 | 8 |
| 3488 | Thermal interface materials for automotive electronic control unit: Trends, technology and R&D challenges. <i>Microelectronics Reliability</i> , 2011, 51, 2031-2043. | 0.9 | 113 |
| 3489 | Fabrication of aligned ultra-thin transparent conductive films of single-walled carbon nanotubes by a compression/sliding method. <i>Scripta Materialia</i> , 2011, 64, 126-129. | 2.6 | 12 |
| 3490 | Bonding of carbon nanotubes onto microelectrodes by localized induction heating. <i>Sensors and Actuators A: Physical</i> , 2011, 170, 202-206. | 2.0 | 13 |
| 3491 | Effect of hexafluoropropylene on the performance of poly(vinylidene fluoride) polymer actuators based on single-walled carbon nanotube-ionic liquid gel. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 161-167. | 4.0 | 68 |
| 3492 | A comparative study of the growth, microstructural and electrical properties of multiwall CNTs grown by thermal and microwave plasma enhanced CVD methods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 44, 29-36. | 1.3 | 16 |
| 3493 | Vibration of nanoscale plates with surface energy via nonlocal elasticity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 44, 448-453. | 1.3 | 80 |
| 3494 | Influence of nanoparticle-polymer interactions on the apparent migration behaviour of carbon nanotubes in an immiscible polymer blend. <i>Polymer</i> , 2011, 52, 4798-4805. | 1.8 | 64 |
| 3495 | How do vapor grown carbon nanofibers nucleate and grow from deoiled asphalt?. <i>Materials Chemistry and Physics</i> , 2011, 126, 424-431. | 2.0 | 6 |
| 3496 | Controllable synthesis of carbon nanotubes by changing the Mo content in bimetallic Fe-Mo/MgO catalyst. <i>Materials Chemistry and Physics</i> , 2011, 127, 379-384. | 2.0 | 39 |
| 3497 | Synthesis and characterization of poly(o-toluidine)/functionalized multi-walled carbon nanotubes nanocomposites with improved electrical conductivity. <i>Materials Chemistry and Physics</i> , 2011, 130, 231-236. | 2.0 | 9 |
| 3498 | Processing and mechanical properties of carbon nanotube-alumina hybrid reinforced high density polyethylene composites. <i>Materials Research Bulletin</i> , 2011, 46, 1143-1147. | 2.7 | 13 |
| 3499 | Facile carbothermal reduction approach to hybrid platinum-carbon nanotubes composite for electrocatalytic oxidation of ethanol. <i>Materials Letters</i> , 2011, 65, 38-40. | 1.3 | 3 |
| 3500 | Preparation of hydroxyapatite-carbon nanotube composite nanopowders. <i>Materials Letters</i> , 2011, 65, 208-211. | 1.3 | 28 |
| 3501 | Preparation of carbon nanotube/chitosan/gold nanoparticle composite microspheres. <i>Materials Letters</i> , 2011, 65, 1510-1513. | 1.3 | 16 |
| 3502 | One-step large-scale synthesis of porous ZnO nanofibers and their application in dye-sensitized solar cells. <i>Materials Letters</i> , 2011, 65, 2975-2978. | 1.3 | 26 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 3503 | Carbon nanofillers for machining insulating ceramics. <i>Materials Today</i> , 2011, 14, 496-501. | 8.3 | 65 |
| 3504 | A parametric study of methane decomposition into carbon nanotubes over 8Co-2Mo/Al ₂ O ₃ catalyst. <i>Journal of Natural Gas Chemistry</i> , 2011, 20, 84-89. | 1.8 | 23 |
| 3505 | Preparation of magnetic multi-walled carbon nanotubes and their application in active dye removal. <i>Micro and Nano Letters</i> , 2011, 6, 827. | 0.6 | 10 |
| 3506 | Combining effects of surface energy and non-local elasticity on the buckling of nanoplates. <i>Micro and Nano Letters</i> , 2011, 6, 941. | 0.6 | 34 |
| 3507 | Carbon Nanotube-Based CMOS Gas Sensor IC: Monolithic Integration of Pd Decorated Carbon Nanotube Network on a CMOS Chip and Its Hydrogen Sensing. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 3604-3608. | 1.6 | 3 |
| 3508 | Synthesis and modification of multi-walled carbon nano-tubes (MWCNTs) for water treatment applications. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 92, 307-313. | 2.6 | 87 |
| 3509 | Wettability of carbon nanofiber layers on nickel foils. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 530-538. | 5.0 | 11 |
| 3510 | Improving tribological properties of bismaleimide nanocomposite filled with carbon nanotubes treated by atmospheric pressure filamentary dielectric barrier discharge. <i>Composites Part B: Engineering</i> , 2011, 42, 2117-2122. | 5.9 | 6 |
| 3511 | Preparation, morphology and properties of acylchloride-grafted multiwall carbon nanotubes/fluorinated polyimide composites. <i>Composites Science and Technology</i> , 2011, 71, 1914-1920. | 3.8 | 21 |
| 3512 | Buckling analysis of micro-/nano-scale plates based on two-variable refined plate theory incorporating nonlocal scale effects. <i>Composite Structures</i> , 2011, 93, 3093-3103. | 3.1 | 109 |
| 3513 | Preparation and electrochemical properties of gold nanoparticles containing carbon nanotubes-polyelectrolyte multilayer thin films. <i>Electrochimica Acta</i> , 2011, 56, 9015-9019. | 2.6 | 16 |
| 3514 | Different behaviors of single and multi wall carbon nanotubes for studying electrochemistry and electrocatalysis of choline oxidase. <i>Electrochimica Acta</i> , 2011, 56, 9542-9548. | 2.6 | 20 |
| 3515 | Preparation of hollow platinum nanospheres/carbon nanotubes nanohybrids and their improved stability for electro-oxidation of methanol. <i>Electrochimica Acta</i> , 2011, 56, 8645-8650. | 2.6 | 14 |
| 3516 | Crack growth characteristics of carbon nanotube-based polymer composites subjected to cyclic loading. <i>Engineering Fracture Mechanics</i> , 2011, 78, 3102-3110. | 2.0 | 17 |
| 3517 | Tube-like natural halloysite/fluoroelastomer nanocomposites with simultaneous enhanced mechanical, dynamic mechanical and thermal properties. <i>European Polymer Journal</i> , 2011, 47, 1746-1755. | 2.6 | 94 |
| 3518 | Pd nanoparticles immobilized on PAMAM-grafted MWCNTs hybrid materials as new recyclable catalyst for Mizoraki-Heck cross-coupling reactions. <i>Applied Catalysis A: General</i> , 2011, 406, 124-132. | 2.2 | 88 |
| 3519 | Selection of oxygen reduction catalysts for rechargeable lithium-air batteries: Metal or oxide?. <i>Applied Catalysis B: Environmental</i> , 2011, 108-109, 140-151. | 10.8 | 87 |
| 3520 | Recent applications of carbon nanotubes in hydrogen production and storage. <i>Fuel</i> , 2011, 90, 3123-3140. | 3.4 | 144 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3521 | Electrochemical detection of xanthine in fish meat by xanthine oxidase immobilized on carboxylated multiwalled carbon nanotubes/polyaniline composite film. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 148-153. | 1.8 | 47 |
| 3522 | Synthesis of semiconducting SWNTs by arc discharge and their enhancement of water splitting performance with TiO ₂ photocatalyst. <i>Carbon</i> , 2011, 49, 5132-5141. | 5.4 | 25 |
| 3523 | An easy method for direct metal coordination reaction on unoxidized single-walled carbon nanotubes. <i>Carbon</i> , 2011, 49, 5150-5157. | 5.4 | 13 |
| 3524 | Synthesis and characterization of phosphorus-nitrogen doped multiwalled carbon nanotubes. <i>Carbon</i> , 2011, 49, 5014-5021. | 5.4 | 42 |
| 3525 | The formation of a carbon nanotube-graphene oxide core-shell structure and its possible applications. <i>Carbon</i> , 2011, 49, 5071-5078. | 5.4 | 130 |
| 3526 | Epoxy composite sheets with a large interfacial area from a high surface area-supplying single-walled carbon nanotube scaffold filler. <i>Carbon</i> , 2011, 49, 5090-5098. | 5.4 | 33 |
| 3527 | Effects of the composition and molecular weight of maleimide polymers on the dispersibility of carbon nanotubes in chloroform. <i>Carbon</i> , 2011, 49, 5185-5195. | 5.4 | 11 |
| 3528 | Whisker carbon in perspective. <i>Catalysis Today</i> , 2011, 178, 42-46. | 2.2 | 114 |
| 3529 | Oxidation resistance of multi-walled carbon nanotubes coated with polycarbosilane-derived SiC _x O _y ceramic. <i>Ceramics International</i> , 2011, 37, 3055-3062. | 2.3 | 29 |
| 3530 | Voltammetric determination of promethazine hydrochloride at a multi-wall carbon nanotube modified glassy carbon electrode. <i>Drug Testing and Analysis</i> , 2011, 3, 182-186. | 1.6 | 19 |
| 3531 | Nanostructured materials for water desalination. <i>Nanotechnology</i> , 2011, 22, 292001. | 1.3 | 543 |
| 3532 | The role of self-assembling polypeptides in building nanomaterials. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17435. | 1.3 | 68 |
| 3533 | Application of plasma spectrometry for the analysis of engineered nanoparticles in suspensions and products. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1701. | 1.6 | 96 |
| 3534 | Carbon Nanotube Sidewall Functionalization with Carbonyl Compounds-Modified Birch Conditions vs the Organometallic Reduction Approach. <i>Journal of the American Chemical Society</i> , 2011, 133, 7985-7995. | 6.6 | 72 |
| 3535 | Changing Chirality during Single-Walled Carbon Nanotube Growth: A Reactive Molecular Dynamics/Monte Carlo Study. <i>Journal of the American Chemical Society</i> , 2011, 133, 17225-17231. | 6.6 | 129 |
| 3536 | The effect of molecular weight on the supramolecular interaction between a conjugated polymer and single-walled carbon nanotubes. <i>Polymer Chemistry</i> , 2011, 2, 1404. | 1.9 | 29 |
| 3537 | Multi-walled carbon nanotubes induce oxidative stress and apoptosis in human lung cancer cell line-A549. <i>Nanotoxicology</i> , 2011, 5, 195-207. | 1.6 | 116 |
| 3538 | Reduction of graphite oxide using alcohols. <i>Journal of Materials Chemistry</i> , 2011, 21, 3443-3447. | 6.7 | 383 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3539 | Structural properties of carbon nanotubes derived from $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 13 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle \text{C NMR}$. Physical Review B, 2011, 84, . | 1.1 | 28 |
| 3540 | Low Bias Electron Scattering in Structure-Identified Single Wall Carbon Nanotubes: Role of Substrate Polar Phonons. Physical Review Letters, 2011, 107, 146601. | 2.9 | 16 |
| 3541 | Electronic properties of the partially hydrogenated armchair carbon nanotubes. Physical Review B, 2011, 84, . | 1.1 | 16 |
| 3542 | Torsion-induced mechanical couplings of single-walled carbon nanotubes. Applied Physics Letters, 2011, 99, . | 1.5 | 15 |
| 3543 | Structural features of carbon products: an NMR study. Russian Journal of Applied Chemistry, 2011, 84, 111-117. | 0.1 | 3 |
| 3544 | A DFT study on the interaction between europium, uranium and SWCNT. Open Physics, 2011, 9, . | 0.8 | 1 |
| 3545 | On the role of interband surface plasmons in carbon nanotubes. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50,2 | 0.2 | 2 |
| 3546 | Noncatalytic synthesis of carbon nanotubes by chemical vapor deposition. Crystallography Reports, 2011, 56, 310-314. | 0.1 | 8 |
| 3547 | Coherent electron transport in quasi one-dimensional carbon-based systems. European Physical Journal B, 2011, 81, 15-36. | 0.6 | 13 |
| 3548 | One-Dimensional Nanostructures of π -Conjugated Molecular Systems: Assembly, Properties, and Applications from Photovoltaics, Sensors, and Nanophotonics to Nanoelectronics. Chemistry of Materials, 2011, 23, 682-732. | 3.2 | 617 |
| 3549 | Improved selectivity in discriminating handedness and diameter of single-walled carbon nanotubes with N-substituted 3,6-carbazolyene-bridged chiral diporphyrin nanotweezers. Nanoscale, 2011, 3, 4117. | 2.8 | 27 |
| 3550 | Electrodynamic and Excitonic Intertube Interactions in Semiconducting Carbon Nanotube Aggregates. ACS Nano, 2011, 5, 2611-2618. | 7.3 | 42 |
| 3551 | Toward Practical Gas Sensing with Highly Reduced Graphene Oxide: A New Signal Processing Method To Circumvent Run-to-Run and Device-to-Device Variations. ACS Nano, 2011, 5, 1154-1164. | 7.3 | 353 |
| 3552 | Functionalization of Multiwalled Carbon Nanotubes with Cyclic Nitrones for Materials and Composites: Addressing the Role of CNT Sidewall Defects. Chemistry of Materials, 2011, 23, 1923-1938. | 3.2 | 51 |
| 3553 | Controlled growth of single-walled carbon nanotubes on patterned substrates. Chemical Society Reviews, 2011, 40, 5221. | 18.7 | 34 |
| 3555 | Supramolecular Functionalization of Single-Walled Carbon Nanotubes (SWNTs) with Dithieno[3,2- <i>b</i> : <i>i</i> :2- \hat{a} :3- \hat{d}]pyrrole (DTP) Containing Conjugated Polymers. Macromolecules, 2011, 44, 9138-9145. | 2.2 | 38 |
| 3556 | Growth stimulation of gram (<i>Cicer arietinum</i>) plant by water soluble carbon nanotubes. Nanoscale, 2011, 3, 1176. | 2.8 | 257 |
| 3557 | Highly electrically conductive and high performance EMI shielding nanowire/polymer nanocomposites by miscible mixing and precipitation. Journal of Materials Chemistry, 2011, 21, 829-836. | 6.7 | 241 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3558 | Comparison of rheological and electrical percolation phenomena in carbon black and carbon nanotube filled epoxy polymers. <i>Journal of Materials Science</i> , 2011, 46, 659-669. | 1.7 | 83 |
| 3559 | The relationship of crystallization behavior, mechanical properties, and morphology of polypropylene nanocomposite fibers. <i>Journal of Materials Science</i> , 2011, 46, 1697-1704. | 1.7 | 33 |
| 3560 | Non-linear viscoelasticity of vapor grown carbon nanofiber/polystyrene composites. <i>Journal of Materials Science</i> , 2011, 46, 2495-2502. | 1.7 | 8 |
| 3561 | Decoration of single-walled carbon nanotubes with Pt nanoparticles from an organometallic precursor. <i>Journal of Materials Science</i> , 2011, 46, 3597-3603. | 1.7 | 8 |
| 3562 | Synthesis, characterization and growth mechanism of ZnO nanowires on NiCl ₂ -coated Si substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 765-770. | 1.1 | 1 |
| 3563 | Theoretical Study of the Structures, Properties and Spectroscopies on Fullerene Hydrides C ₂₆ H _n (n=2, 4, 6, 8). <i>Journal of Cluster Science</i> , 2011, 22, 1-10. | 1.7 | 2 |
| 3564 | Nanoscience and technology publications and patents: a review of social science studies and search strategies. <i>Journal of Technology Transfer</i> , 2011, 36, 145-172. | 2.5 | 139 |
| 3565 | Dynamic rheological properties and microstructures of liquid-crystalline poly(p-phenyleneterephthalamide) solutions in the presence of single-walled carbon nanotubes. <i>Journal of Polymer Research</i> , 2011, 18, 263-271. | 1.2 | 3 |
| 3566 | Effect of dispersion conditions on the mechanical properties of multi-walled carbon nanotubes based epoxy resin composites. <i>Journal of Polymer Research</i> , 2011, 18, 1397-1407. | 1.2 | 104 |
| 3567 | Carbon nanotube-based extraction and electrochemical detection of heavy metals. <i>Research on Chemical Intermediates</i> , 2011, 37, 675-689. | 1.3 | 56 |
| 3568 | Critical evaluation of electrode design and matrix effects on monitoring organophosphate pesticides using composite carbon nanotube-modified electrodes. <i>Research on Chemical Intermediates</i> , 2011, 37, 705-717. | 1.3 | 5 |
| 3569 | Effects of the dispersion methods in Pluronic F108 on the size and the surface composition of MWCNTs and their implications in toxicology assessment. <i>Journal of Nanoparticle Research</i> , 2011, 13, 655-667. | 0.8 | 26 |
| 3570 | Dispersion of dilatation wave propagation in single-wall carbon nanotubes using nonlocal scale effects. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1229-1235. | 0.8 | 7 |
| 3571 | Microstructural investigations of zirconium oxide on core-shell structure of carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2597-2607. | 0.8 | 12 |
| 3572 | Fabrication of bovine serum albumin nanotubes through template-assisted layer by layer assembly. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1563-1571. | 0.8 | 12 |
| 3573 | Nano-energy research trends: bibliometrical analysis of nanotechnology research in the energy sector. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3911-3922. | 0.8 | 37 |
| 3574 | The sensitivity and dynamic response of field ionization gas sensor based on ZnO nanorods. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5171-5176. | 0.8 | 12 |
| 3575 | Conjugated polymer-functionalized carbon nanotubes enhance the photovoltaic properties of polymer solar cells. <i>Colloid and Polymer Science</i> , 2011, 289, 1633-1641. | 1.0 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3576 | Effect of oxyfluorination on electromagnetic interference shielding of polyaniline-coated multi-walled carbon nanotubes. <i>Colloid and Polymer Science</i> , 2011, 289, 1749-1755. | 1.0 | 31 |
| 3577 | Dispersion of multiwalled carbon nanotubes (MWCNTs) by ionic liquid-based Gemini pyrrolidinium surfactants in aqueous solution. <i>Colloid and Polymer Science</i> , 2011, 289, 1815-1819. | 1.0 | 18 |
| 3578 | A study of the electrochemical behavior of an oxadiazole derivative electrodeposited on multi-wall carbon nanotube-modified electrode and its application as a hydrazine sensor. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2683-2693. | 1.2 | 30 |
| 3579 | New integrated in vivo microdialysis-electrochemical device for determination of the neurotransmitter dopamine in rat striatum of freely moving rats. <i>Mikrochimica Acta</i> , 2011, 172, 217-223. | 2.5 | 12 |
| 3580 | Voltammetric determination of bisphenol A in food package by a glassy carbon electrode modified with carboxylated multi-walled carbon nanotubes. <i>Mikrochimica Acta</i> , 2011, 172, 379-386. | 2.5 | 80 |
| 3581 | Highly sensitive carbon paste electrode with silver-filled carbon nanotubes as a sensing element for determination of free cyanide ion in aqueous solutions. <i>Mikrochimica Acta</i> , 2011, 174, 321-327. | 2.5 | 11 |
| 3582 | Influences of Acid-Treated Multiwalled Carbon Nanotubes on Fibroblasts: Proliferation, Adhesion, Migration, and Wound Healing. <i>Annals of Biomedical Engineering</i> , 2011, 39, 414-426. | 1.3 | 46 |
| 3583 | Nonlinear photonics with metallic nanostructures on top of dielectrics and waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2011, 105, 51-65. | 1.1 | 10 |
| 3584 | Influence of polar groups on the wetting properties of vertically aligned multiwalled carbon nanotube surfaces. <i>Theoretical Chemistry Accounts</i> , 2011, 130, 1061-1069. | 0.5 | 20 |
| 3585 | Electrocatalytic voltammetric determination of guanine at a cobalt phthalocyanine modified carbon nanotubes paste electrode. <i>Journal of Electroanalytical Chemistry</i> , 2011, 654, 8-12. | 1.9 | 47 |
| 3586 | Comparative in vitro cytotoxicity study of carbon nanotubes and titania nanostructures on human lung epithelial cells. <i>Journal of Hazardous Materials</i> , 2011, 191, 56-61. | 6.5 | 42 |
| 3587 | Selective decoration of nickel and nickel oxide nanocrystals on multiwalled carbon nanotubes. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1245-1250. | 1.4 | 10 |
| 3588 | Synthesis and characterization of carbon nanotubes/poly vinyl alcohol nanocomposite membranes for dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2011, 378, 551-561. | 4.1 | 100 |
| 3589 | Mechanical properties and oxidation resistance of γ -alumina/multi-walled carbon nanotube composite ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1596-1601. | 2.6 | 30 |
| 3590 | A theoretical study on the catalytic effect of nanoparticle confined in carbon nanotube. <i>Chemical Physics Letters</i> , 2011, 502, 96-100. | 1.2 | 15 |
| 3591 | Direct electron transfer to hydrogenase for catalytic hydrogen production using a single-walled carbon nanotube forest. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7523-7529. | 3.8 | 31 |
| 3592 | Voltammetric determination of antibacterial drug gemifloxacin in solubilized systems at multi-walled carbon nanotubes modified glassy carbon electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 83, 340-346. | 2.5 | 77 |
| 3593 | Direct electrochemistry and voltammetric determination of midecamycin at a multi-walled carbon nanotube coated gold electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 247-250. | 2.5 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3594 | Thermal effects on vibration properties of double-layered nanoplates at small scales. <i>Composites Part B: Engineering</i> , 2011, 42, 1311-1317. | 5.9 | 82 |
| 3595 | Damage sensing of adhesively-bonded hybrid composite/steel joints using carbon nanotubes. <i>Composites Science and Technology</i> , 2011, 71, 1183-1189. | 3.8 | 99 |
| 3596 | Effects of viscous fluid on wave propagation in carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2448-2451. | 0.9 | 31 |
| 3597 | Physical properties of elongated inorganic nanoparticles. <i>Physics Reports</i> , 2011, 501, 75-221. | 10.3 | 138 |
| 3598 | Exciton-plasmon coupling and biexcitonic nonlinearities in individual carbon nanotubes. <i>Superlattices and Microstructures</i> , 2011, 49, 217-223. | 1.4 | 4 |
| 3599 | Functionally graded carbon nanotubes/hydroxyapatite composite coating by laser cladding. <i>Surface and Coatings Technology</i> , 2011, 205, 4380-4387. | 2.2 | 47 |
| 3600 | Facile synthesis of poly(p-phenylenediamine)/MWCNT nanocomposites and characterization for investigation of structural effects of carbon nanotubes. <i>Bulletin of Materials Science</i> , 2011, 34, 37-43. | 0.8 | 51 |
| 3601 | Synthesis of β -Al ₂ O ₃ nanowires through a boehmite precursor route. <i>Bulletin of Materials Science</i> , 2011, 34, 239-244. | 0.8 | 27 |
| 3602 | Nucleate boiling heat transfer in nanofluids with carbon nanotubes up to critical heat fluxes. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 2647-2655. | 0.7 | 10 |
| 3603 | Fabrication, microstructures, and properties of copper matrix composites reinforced by molybdenum-coated carbon nanotubes. <i>Rare Metals</i> , 2011, 30, 401-407. | 3.6 | 33 |
| 3604 | Applications of nanomaterials in the different fields of photosciences. <i>Indian Journal of Physics</i> , 2011, 85, 1229-1245. | 0.9 | 90 |
| 3605 | Nitrogen-doped carbon nanotubes as a metal catalyst support. <i>Applied Nanoscience (Switzerland)</i> , 2011, 1, 67-77. | 1.6 | 142 |
| 3606 | Nitrophenyl functionalization of carbon nanotubes and its effect on properties of MWCNT/LCP composites. <i>Macromolecular Research</i> , 2011, 19, 660-667. | 1.0 | 13 |
| 3607 | Chemical vapour sensing behaviors of multi-walled carbon nanotube adsorbed electrospun nylon 6,6 nanofibers. <i>Macromolecular Research</i> , 2011, 19, 980-983. | 1.0 | 13 |
| 3608 | Real-time detection of the interaction between anticancer drug daunorubicin and cancer cells by Au-MCNT nanocomposites modified electrodes. <i>Science China Chemistry</i> , 2011, 54, 812-815. | 4.2 | 7 |
| 3609 | A nano-functionalized real-time electrochemiluminescent biosensor for alanine transaminase assay. <i>Science China Chemistry</i> , 2011, 54, 816-821. | 4.2 | 3 |
| 3610 | Wear Behavior of the Lead-Free Tin Bronze Matrix Composite Reinforced by Carbon Nanotubes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3858-3862. | 1.1 | 6 |
| 3611 | Temperature difference-powered carbon nanotube bearings. <i>Frontiers in Energy</i> , 2011, 5, 49-52. | 1.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3612 | Improved field emission performance of carbon nanotube by introducing copper metallic particles. <i>Nanoscale Research Letters</i> , 2011, 6, 537. | 3.1 | 33 |
| 3613 | Strengthening of liquid crystalline polymer by functionalized carbon nanotubes through interfacial interaction and homogeneous dispersion. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1452-1458. | 1.6 | 12 |
| 3614 | Development of novel synthetic method of carbon nanotubes from electrospun polystyrene fibers by using microwave heating. <i>Polymers for Advanced Technologies</i> , 2011, 22, 2653-2658. | 1.6 | 7 |
| 3615 | Influence of surface treatment of multiwall carbon nanotubes on the properties of polypropylene/carbon nanotubes nanocomposites. <i>Polymers for Advanced Technologies</i> , 2011, 22, 38-47. | 1.6 | 23 |
| 3616 | Development of conductive network of multiwalled carbon nanotubes in polycarbonate melt. <i>Polymer Composites</i> , 2011, 32, 97-102. | 2.3 | 33 |
| 3617 | Multi-scale hybrid composites-based carbon nanotubes. <i>Polymer Composites</i> , 2011, 32, 159-167. | 2.3 | 26 |
| 3618 | Design and evaluation of the interface between carbon nanotubes and natural rubber. <i>Polymer Composites</i> , 2011, 32, 236-242. | 2.3 | 37 |
| 3619 | Electromagnetic interference shielding of cellulose triacetate/multiwalled carbon nanotube composite films. <i>Polymer Composites</i> , 2011, 32, 438-444. | 2.3 | 19 |
| 3620 | Effect of the nature of clay on the thermo-mechanodynamical and electrical properties of epoxy/clay nanocomposites. <i>Polymer Composites</i> , 2011, 32, 1499-1504. | 2.3 | 18 |
| 3621 | Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and processing. <i>Polymer Engineering and Science</i> , 2011, 51, 460-473. | 1.5 | 3 |
| 3622 | Preparation and crystallization behavior of multiwalled carbon nanotubes/poly(vinyl alcohol) nanocomposites. <i>Polymer Engineering and Science</i> , 2011, 51, 1770-1779. | 1.5 | 21 |
| 3623 | Electrostatic field control of exciton-plasmon coupling and optical response of individual carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 468-471. | 0.7 | 3 |
| 3624 | Unusual deformation mechanisms in carbon nanotube heterojunctions (5,5)-(10,10) under tensile loading. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 82-87. | 0.7 | 16 |
| 3625 | Nanocomposite prepared from <i>in situ</i> grafting of polypyrrole to aminobenzoyl-functionalized multiwalled carbon nanotube and its electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2529-2537. | 2.5 | 35 |
| 3626 | Synthesis of pyrene-capped polystyrene for dispersion of pristine single-walled carbon nanotubes. <i>Polymer International</i> , 2011, 60, 1425-1433. | 1.6 | 24 |
| 3627 | Fast Fabrication of Large-Area, Nanostructured Arrays from Polymers or Carbon Nanotubes by Wet-Processing. <i>Small</i> , 2011, 7, 321-325. | 5.2 | 11 |
| 3628 | Engineering Nanocarriers for siRNA Delivery. <i>Small</i> , 2011, 7, 841-856. | 5.2 | 97 |
| 3629 | Ball-Milling Modification of Single-Walled Carbon Nanotubes: Purification, Cutting, and Functionalization. <i>Small</i> , 2011, 7, 665-674. | 5.2 | 60 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3630 | Macroscopic Carbon Nanotube Assemblies: Preparation, Properties, and Potential Applications. <i>Small</i> , 2011, 7, 1504-1520. | 5.2 | 291 |
| 3631 | Carbene-Functionalized Single-Walled Carbon Nanotubes and Their Electrical Properties. <i>Small</i> , 2011, 7, 1257-1263. | 5.2 | 24 |
| 3632 | Thin-Film-Based Nanoarchitectures for Soft Matter: Controlled Assemblies into Two-Dimensional Worlds. <i>Small</i> , 2011, 7, 1288-1308. | 5.2 | 169 |
| 3633 | Use of a Chondroitin Sulfate Isomer as an Effective and Removable Dispersant of Single-Walled Carbon Nanotubes. <i>Small</i> , 2011, 7, 2758-2768. | 5.2 | 18 |
| 3634 | International amphibian micronucleus standardized procedure (ISO 21427-1) for <i>in vivo</i> evaluation of double-walled carbon nanotubes toxicity and genotoxicity in water. <i>Environmental Toxicology</i> , 2011, 26, 136-145. | 2.1 | 51 |
| 3635 | Semiconducting Single-Walled Carbon Nanotubes as Radical Photoinitiators. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1469-1473. | 1.1 | 12 |
| 3636 | Thermoplastic Polyurethane Nanocomposites Produced via Impregnation of Long Carbon Nanotube Forests. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 53-58. | 1.7 | 13 |
| 3637 | Electroconductive Polyamide 6/MWNT Nanocomposites: Effect of Nanotube Surface-Coating by <i>in situ</i> Catalyzed Polymerization. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 408-413. | 1.7 | 19 |
| 3638 | Tailored Assembly of Carbon Nanotubes and Graphene. <i>Advanced Functional Materials</i> , 2011, 21, 1338-1354. | 7.8 | 207 |
| 3639 | Highly Sensitive Glucose Biosensors Based on Organic Electrochemical Transistors Using Platinum Gate Electrodes Modified with Enzyme and Nanomaterials. <i>Advanced Functional Materials</i> , 2011, 21, 2264-2272. | 7.8 | 243 |
| 3640 | Carbon Nanotube Alignment via Electrohydrodynamic Patterning of Nanocomposites. <i>Advanced Functional Materials</i> , 2011, 21, 1895-1901. | 7.8 | 22 |
| 3641 | Selective Electron- or Hole-Transport Enhancement in Bulk-Heterojunction Organic Solar Cells with <i>n</i> - or <i>p</i> -Doped Carbon Nanotubes. <i>Advanced Materials</i> , 2011, 23, 629-633. | 11.1 | 248 |
| 3642 | Carbon Nanotube Webs: A Novel Material for Sensor Applications. <i>Advanced Materials</i> , 2011, 23, 906-910. | 11.1 | 50 |
| 3643 | A Scalable, CMOS-Compatible Assembly of Ambipolar Semiconducting Single-Walled Carbon Nanotube Devices. <i>Advanced Materials</i> , 2011, 23, 1734-1738. | 11.1 | 34 |
| 3644 | Electrochromic Carbon Electrodes: Controllable Visible Color Changes in Metallic Single-Wall Carbon Nanotubes. <i>Advanced Materials</i> , 2011, 23, 2811-2814. | 11.1 | 58 |
| 3645 | Carbon Materials for Chemical Capacitive Energy Storage. <i>Advanced Materials</i> , 2011, 23, 4828-4850. | 11.1 | 2,593 |
| 3648 | Selective Simultaneous Determination of Paracetamol and Uric Acid Using a Glassy Carbon Electrode Modified with Multiwalled Carbon Nanotube/Chitosan Composite. <i>Electroanalysis</i> , 2011, 23, 417-423. | 1.5 | 32 |
| 3649 | Immobilization of Xanthine Oxidase on Carbon Nanotubes Through Double Supramolecular Junctions for Biosensor Construction. <i>Electroanalysis</i> , 2011, 23, 1790-1796. | 1.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3650 | Application of a Carbon Paste Electrode Modified with 2,7-Bis(ferrocenyl ethyl)fluorenone and Carbon Nanotubes for Voltammetric Determination of Levodopa in the Presence of Uric Acid and Folic Acid. <i>Electroanalysis</i> , 2011, 23, 1934-1940. | 1.5 | 98 |
| 3651 | Nanostructured Carbon Metal Oxide Hybrids as Amphiphilic Emulsion Catalysts. <i>ChemSusChem</i> , 2011, 4, 964-974. | 3.6 | 49 |
| 3652 | A Quantitative Electron Tomography Study of Ruthenium Particles on the Interior and Exterior Surfaces of Carbon Nanotubes. <i>ChemSusChem</i> , 2011, 4, 957-963. | 3.6 | 28 |
| 3653 | Carbon Nanotube Mass Production: Principles and Processes. <i>ChemSusChem</i> , 2011, 4, 864-889. | 3.6 | 329 |
| 3654 | Supercritical Fluid Chemical Deposition as an Alternative Process to CVD for the Surface Modification of Materials. <i>Chemical Vapor Deposition</i> , 2011, 17, 342-352. | 1.4 | 32 |
| 3655 | An efficient growth of silver and copper nanoparticles on multiwalled carbon nanotube with enhanced antimicrobial activity. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 96B, 119-126. | 1.6 | 84 |
| 3656 | Surface modification of MWNTs with BA-MMA-GMA terpolymer by single-step grafting technique. <i>Journal of Applied Polymer Science</i> , 2011, 119, 282-289. | 1.3 | 17 |
| 3657 | Synthesis and properties of poly(methyl methacrylate)/carbon nanotube composites covalently integrated through <i>in situ</i> radical polymerization. <i>Journal of Applied Polymer Science</i> , 2011, 119, 452-459. | 1.3 | 9 |
| 3658 | Dispersion of SiC coated MWCNTs in PEI/silicone rubber blend and its effect on the thermal and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2011, 119, 3574-3581. | 1.3 | 19 |
| 3659 | Nanotube surface functionalization effects in blended multiwalled carbon nanotube/PVDF composites. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1379-1384. | 1.3 | 25 |
| 3660 | Morphology, crystallization, and mechanical properties of poly(ethylene terephthalate)/multiwalled carbon nanotubes composites. <i>Journal of Applied Polymer Science</i> , 2011, 120, 3460-3468. | 1.3 | 20 |
| 3661 | Supramolecular bionanocomposites, part 2: Effects of carbon nanoparticle surface functionality on polylactide crystallization. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2029-2038. | 1.3 | 16 |
| 3662 | Electrical conductivity of single walled and multiwalled carbon nanotube containing wool fibers. <i>Journal of Applied Polymer Science</i> , 2011, 121, 3353-3358. | 1.3 | 30 |
| 3663 | Effect of MWCNTs irradiation grafting treatment on the surface properties of PBO fiber. <i>Journal of Applied Polymer Science</i> , 2011, 121, 3455-3459. | 1.3 | 12 |
| 3664 | Water-based amorphous carbon nanotubes filled polymer nanocomposites. <i>Journal of Applied Polymer Science</i> , 2011, 122, 1986-1992. | 1.3 | 7 |
| 3665 | Crystallization behavior of polyamide 11/multiwalled carbon nanotube composites. <i>Journal of Applied Polymer Science</i> , 2011, 122, 551-560. | 1.3 | 27 |
| 3667 | Noncovalent Binding of Carbon Nanotubes by Porphyrin Oligomers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2313-2316. | 7.2 | 90 |
| 3668 | Determination of tryptophan and kynurenine in human plasma by liquid chromatography-electrochemical detection with multi-wall carbon nanotube-modified glassy carbon electrode. <i>Biomedical Chromatography</i> , 2011, 25, 938-942. | 0.8 | 23 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3669 | High-Speed Carbon Nanotube Actuators Based on an Oxidation/Reduction Reaction. Chemistry - A European Journal, 2011, 17, 10965-10971. | 1.7 | 45 |
| 3670 | Lighting-Up Single-Walled Carbon Nanotubes with Silver Nanoclusters. Chemistry - A European Journal, 2011, 17, 7745-7749. | 1.7 | 7 |
| 3671 | Facile Preparation of Carbon Nanotube/Poly(ethyl 2-cyanoacrylate) Composite Electrode by Water-Vapor-Initiated Polymerization for Enhanced Amperometric Detection. Chemistry - A European Journal, 2011, 17, 12458-12464. | 1.7 | 11 |
| 3672 | Methane decomposition to CO _x -free hydrogen and nano-carbon material on group 8-10 base metal catalysts: A review. Catalysis Today, 2011, 162, 1-48. | 2.2 | 387 |
| 3673 | Electrical properties and reactivity under air-CO flows of composite systems based on ceria coated carbon nanotubes. Chemical Engineering Journal, 2011, 171, 272-278. | 6.6 | 4 |
| 3674 | Fluidized bed synthesis of carbon nanotubes - A review. Chemical Engineering Journal, 2011, 171, 841-869. | 6.6 | 112 |
| 3675 | Carbon nanofibers extracted from soot as a sorbent for the determination of aromatic amines from wastewater effluent samples. Journal of Chromatography A, 2011, 1218, 3581-3587. | 1.8 | 15 |
| 3676 | Surface free energy and optimizing time about hydrophobic coating of multi-walled carbon nanotubes under low pressure by glow plasma with toluene. Current Applied Physics, 2011, 11, 298-302. | 1.1 | 2 |
| 3677 | Combinatorial catalyst approach for high-density growth of horizontally aligned single-walled carbon nanotubes on sapphire. Carbon, 2011, 49, 176-186. | 5.4 | 23 |
| 3678 | An analysis of the factors affecting strengthening in carbon nanotube reinforced aluminum composites. Carbon, 2011, 49, 533-544. | 5.4 | 436 |
| 3679 | Compressive buckling of carbon nanotubes containing polyethylene molecules. Carbon, 2011, 49, 729-732. | 5.4 | 6 |
| 3680 | The formation of a dual-layer carbon film on silicon carbide using a combination of carbide-derived carbon process and chemical vapor deposition in a CCl ₄ containing atmosphere. Carbon, 2011, 49, 732-736. | 5.4 | 7 |
| 3681 | Improving the electrical conductivity of multi-walled carbon nanotube networks by H ion beam irradiation. Carbon, 2011, 49, 2141-2144. | 5.4 | 40 |
| 3682 | A method for wet spinning of alginate fibers with a high concentration of single-walled carbon nanotubes. Carbon, 2011, 49, 1859-1868. | 5.4 | 70 |
| 3683 | Carbon nanotube-metal nano-laminate for enhanced mechanical strength and electrical conductivity. Carbon, 2011, 49, 2549-2554. | 5.4 | 8 |
| 3684 | Enrichment of metallic carbon nanotubes by electric field-assisted chemical vapor deposition. Carbon, 2011, 49, 2555-2560. | 5.4 | 25 |
| 3685 | Comparison of double-walled with single-walled carbon nanotube electrodes by electrochemistry. Carbon, 2011, 49, 2639-2647. | 5.4 | 27 |
| 3686 | The superiority of air oxidation over liquid-phase oxidative treatment in the purification of carbon nanotubes. Carbon, 2011, 49, 3031-3038. | 5.4 | 45 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3687 | Increasing the semiconducting component in transparent conducting films of single-walled carbon nanotubes. Carbon, 2011, 49, 3267-3273. | 5.4 | 6 |
| 3688 | The synthesis and characterization of carbon nanotubes grown by chemical vapor deposition using a stainless steel catalyst. Carbon, 2011, 49, 3307-3315. | 5.4 | 77 |
| 3689 | The synthesis of vertically-aligned carbon nanotubes on an aluminum foil laminated on stainless steel. Carbon, 2011, 49, 3522-3528. | 5.4 | 25 |
| 3690 | Tailoring the microstructure and mechanical properties of arrays of aligned multiwall carbon nanotubes by utilizing different hydrogen concentrations during synthesis. Carbon, 2011, 49, 3631-3638. | 5.4 | 51 |
| 3691 | Theoretical investigation of electronic structure and field emission properties of carbon nanotube-ZnO nanocontacts. Carbon, 2011, 49, 3835-3841. | 5.4 | 11 |
| 3692 | The method for surface functionalization of single-walled carbon nanotubes with fuming nitric acid. Carbon, 2011, 49, 3851-3856. | 5.4 | 67 |
| 3693 | Radial followed by longitudinal unzipping of multiwalled carbon nanotubes. Carbon, 2011, 49, 3865-3872. | 5.4 | 32 |
| 3694 | The strain sensing and thermal-mechanical behavior of flexible multi-walled carbon nanotube/polystyrene composite films. Carbon, 2011, 49, 3928-3936. | 5.4 | 57 |
| 3695 | Fullerene-functionalized carbon nanotubes as improved optical limiting devices. Carbon, 2011, 49, 3998-4003. | 5.4 | 43 |
| 3696 | Electrical and rheological properties of polyamide 6,6/ γ -ray irradiated multi-walled carbon nanotube composites. Carbon, 2011, 49, 4024-4030. | 5.4 | 29 |
| 3697 | Enhanced mechanical properties of novel chitosan nanocomposite fibers. Carbohydrate Polymers, 2011, 86, 1151-1156. | 5.1 | 21 |
| 3698 | Doping effect of carboxylic acid group functionalized multi-walled carbon nanotube on polyaniline. Composites Part B: Engineering, 2011, 42, 1641-1647. | 5.9 | 52 |
| 3699 | Flow induced orientated morphology and properties of nanocomposites of polypropylene/vapor grown carbon fibers. Composites Science and Technology, 2011, 71, 177-182. | 3.8 | 21 |
| 3700 | Melt mixed nano composites of PA12 with MWNTs: Influence of MWNT and matrix properties on macrodispersion and electrical properties. Composites Science and Technology, 2011, 71, 306-314. | 3.8 | 77 |
| 3701 | Multi-walled carbon nanotube/nanostructured zirconia composites: Outstanding mechanical properties in a wide range of temperature. Composites Science and Technology, 2011, 71, 939-945. | 3.8 | 121 |
| 3702 | Fabrication of polypropylene/carbon nanotubes composites via a sequential process of (rotating) Tj ETQq1 1 0.784314 rgBT /Overlock 20 | 3.8 | 20 |
| 3703 | Multiscale analysis of carbon nanotube-reinforced nanofiber scaffolds. Composite Structures, 2011, 93, 1008-1014. | 3.1 | 6 |
| 3704 | Vibration analysis of orthotropic graphene sheets using nonlocal elasticity theory and differential quadrature method. Composite Structures, 2011, 93, 774-779. | 3.1 | 191 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 3705 | Modeling and in situ identification of material parameters for layered structures based on carbon nanotube arrays. <i>Composite Structures</i> , 2011, 93, 3013-3018. | 3.1 | 50 |
| 3706 | Carbon nanotube-assisted enhancement of surface plasmon resonance signal. <i>Analytical Biochemistry</i> , 2011, 408, 206-211. | 1.1 | 38 |
| 3707 | Infrared irradiation controlled decoration of multiwalled carbon nanotubes with copper/copper oxide nanocrystals. <i>Acta Materialia</i> , 2011, 59, 5040-5047. | 3.8 | 34 |
| 3708 | Highly biocompatible multi-walled carbon nanotube-chitosan nanoparticle hybrids as protein carriers. <i>Acta Biomaterialia</i> , 2011, 7, 3070-3077. | 4.1 | 54 |
| 3709 | Catalytic conversion of wastes from the bioethanol production into carbon nanomaterials. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 433-444. | 10.8 | 56 |
| 3710 | Effects on the field emission properties by variation in surface morphology of patterned photosensitive carbon nanotube paste using organic solvent. <i>Applied Surface Science</i> , 2011, 257, 2250-2253. | 3.1 | 8 |
| 3711 | Effects of different carbon precursors on synthesis of multiwall carbon nanotubes: Purification and Functionalization. <i>Applied Surface Science</i> , 2011, 257, 7359-7367. | 3.1 | 56 |
| 3712 | Electronically modified single wall carbon nanohorns with iodine adsorption. <i>Chemical Physics Letters</i> , 2011, 501, 485-490. | 1.2 | 17 |
| 3713 | Vibration promotes heat welding of single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2011, 502, 231-234. | 1.2 | 38 |
| 3714 | Filtering carbon dioxide through carbon nanotubes. <i>Chemical Physics Letters</i> , 2011, 506, 81-85. | 1.2 | 36 |
| 3715 | Fabrication of bimetallic nanoparticles/multi-walled carbon nanotubes composites for microelectronic circuits. <i>Carbon</i> , 2011, 49, 779-786. | 5.4 | 8 |
| 3716 | Carbonaceous nanomaterials for the enhancement of TiO ₂ photocatalysis. <i>Carbon</i> , 2011, 49, 741-772. | 5.4 | 1,069 |
| 3717 | Precursor gas chemistry determines the crystallinity of carbon nanotubes synthesized at low temperature. <i>Carbon</i> , 2011, 49, 804-810. | 5.4 | 62 |
| 3718 | High yield production of semiconducting p-type single-walled carbon nanotube thin-film transistors on a flexible polyimide substrate by tuning the density of ferritin catalysts. <i>Carbon</i> , 2011, 49, 2492-2498. | 5.4 | 12 |
| 3719 | Preparation and charge transfer properties of carbon nanotubes supported CdS/ZnO-NWs shell/core heterojunction. <i>Electrochemistry Communications</i> , 2011, 13, 627-630. | 2.3 | 29 |
| 3720 | Study on electroactive and electrocatalytic surfaces of single walled carbon nanotube-modified electrodes. <i>Electrochimica Acta</i> , 2011, 56, 2464-2470. | 2.6 | 116 |
| 3721 | The effects of alkaline and alkaline earth metal salts on the performance of a polymer actuator based on single-wal led carbon nanotube-ionic liquid gel. <i>Physics Procedia</i> , 2011, 14, 73-86. | 1.2 | 3 |
| 3722 | Efficient production of hydrogen and multi-walled carbon nanotubes from ethanol over Fe/Al ₂ O ₃ catalysts. <i>Fuel Processing Technology</i> , 2011, 92, 531-540. | 3.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3723 | Electrochemical fabrication of novel Pt/poly (m-toluidine)/Triton X-100 composite catalyst at the surface of carbon nanotube paste electrode and its application for methanol oxidation. International Journal of Hydrogen Energy, 2011, 36, 52-63. | 3.8 | 35 |
| 3724 | Field emission of vertically aligned single-walled carbon nanotubes patterned by pressing a microstructured mold. Microelectronic Engineering, 2011, 88, 2700-2702. | 1.1 | 4 |
| 3725 | Fabrication of carbon nanofibers using only ion beam irradiation to glassy carbon. Microelectronic Engineering, 2011, 88, 1832-1835. | 1.1 | 1 |
| 3726 | Studies on preparation and properties of the multi-walled carbon nanotubes (MWNTs)/epoxy nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5759-5763. | 2.6 | 14 |
| 3727 | Oriented growth of magnetite along the carbon nanotubes via covalently bonded method in a simple solvothermal system. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 779-784. | 1.7 | 34 |
| 3728 | Electronic transport on carbon nanotube networks: A multiscale computational approach. Nano Communication Networks, 2011, 2, 25-38. | 1.6 | 14 |
| 3729 | Electric tweezers. Nano Today, 2011, 6, 339-354. | 6.2 | 78 |
| 3730 | Elasticity, internal excitation, and charge transfer during grazing scattering of keV fullerenes from a LiF(100) surface. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1179-1184. | 0.6 | 3 |
| 3731 | Electron transferring from titanium ion irradiated carbon nanotube arrays into vacuum under low applied fields. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1082-1087. | 0.6 | 5 |
| 3732 | Pd nanoparticles deposited on poly(lactic acid) grafted carbon nanotubes: Synthesis, characterization and application in Heck C-C coupling reaction. Applied Catalysis A: General, 2011, 399, 154-160. | 2.2 | 50 |
| 3733 | Preparation, characterization and electromagnetic properties of carbon nanotubes/Fe ₃ O ₄ inorganic hybrid material. Applied Surface Science, 2011, 257, 4524-4528. | 3.1 | 70 |
| 3734 | Synthesis and characterizations of spherical hollow composed of AgI nanoparticle using AgBr as the precursor. Applied Surface Science, 2011, 257, 2503-2507. | 3.1 | 12 |
| 3735 | The in vitro biomineralization and cytocompatibility of polydopamine coated carbon nanotubes. Applied Surface Science, 2011, 257, 4849-4855. | 3.1 | 69 |
| 3736 | The effects of catalyst treatment on fast growth of millimeter-long multi-walled carbon nanotube arrays. Applied Surface Science, 2011, 257, 7704-7708. | 3.1 | 38 |
| 3737 | A novel carbon nanotubes/Fe ₃ O ₄ inorganic hybrid material: Synthesis, characterization and microwave electromagnetic properties. Journal of Magnetism and Magnetic Materials, 2011, 323, 1006-1010. | 1.0 | 72 |
| 3738 | Modeling an ordered nanostructured cathode catalyst layer for proton exchange membrane fuel cells. Journal of Power Sources, 2011, 196, 4533-4544. | 4.0 | 26 |
| 3739 | Improved pseudocapacitive performance and cycle life of cobalt hydroxide on an electrochemically derived nano-porous Ni framework. Journal of Power Sources, 2011, 196, 7828-7834. | 4.0 | 40 |
| 3740 | Wave propagation in double-walled carbon nanotubes on a novel analytically nonlocal Timoshenko-beam model. Journal of Sound and Vibration, 2011, 330, 1704-1717. | 2.1 | 60 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3741 | Nonlinear vibrations of embedded multi-walled carbon nanotubes using a variational approach. <i>Mathematical and Computer Modelling</i> , 2011, 53, 927-938. | 2.0 | 50 |
| 3742 | Electrochemical performance of carbon nanotube-supported cobalt phthalocyanine and its nitrogen-rich derivatives for oxygen reduction. <i>Journal of Molecular Catalysis A</i> , 2011, 335, 89-96. | 4.8 | 71 |
| 3743 | Novel surfactant selective electrochemical sensors based on single walled carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2011, 159, 226-229. | 2.3 | 55 |
| 3744 | Preparation and characterization of mechanical properties of carbon nanotube/45S5Bioglass composites for biologic applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1553-1557. | 2.6 | 16 |
| 3745 | Nanostructured photoelectrodes for dye-sensitized solar cells. <i>Nano Today</i> , 2011, 6, 91-109. | 6.2 | 601 |
| 3746 | Nanocomposites of single-walled carbon nanotubes and poly(3,4-ethylenedioxythiophene) for transparent and conductive film. <i>Organic Electronics</i> , 2011, 12, 22-28. | 1.4 | 25 |
| 3747 | Direct electrochemistry of cholesterol oxidase on MWCNTs. <i>Journal of Electroanalytical Chemistry</i> , 2011, 651, 24-29. | 1.9 | 44 |
| 3748 | Cannabinoid receptor gene detection by electrochemical genosensor. <i>Journal of Electroanalytical Chemistry</i> , 2011, 656, 55-60. | 1.9 | 15 |
| 3749 | MWNT/Nafion composite modified glassy carbon electrode as the voltammetric sensor for sensitive determination of 8-hydroxyquinoline in cosmetic. <i>Journal of Electroanalytical Chemistry</i> , 2011, 655, 45-49. | 1.9 | 21 |
| 3750 | An amperometric oxalate biosensor based on sorghum oxalate oxidase bound carboxylated multiwalled carbon nanotubes/polyaniline composite film. <i>Journal of Biotechnology</i> , 2011, 151, 212-217. | 1.9 | 56 |
| 3751 | Dispersion of carbon nanotubes by carbazole-tailed amphiphilic imidazolium ionic liquids in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 190-195. | 5.0 | 35 |
| 3752 | Synthesis of a hybrid assembly composed of titanium dioxide nanoparticles and thin multi-walled carbon nanotubes using "click chemistry". <i>Journal of Colloid and Interface Science</i> , 2011, 358, 471-476. | 5.0 | 43 |
| 3753 | Percolation and Film Formation Behaviors of MWNT/PS Nanocomposites. <i>Procedia Engineering</i> , 2011, 10, 1709-1717. | 1.2 | 5 |
| 3754 | Tensile Strength of Spinnable Multiwall Carbon Nanotubes. <i>Procedia Engineering</i> , 2011, 10, 2572-2578. | 1.2 | 44 |
| 3755 | Nonlocal Timoshenko beam model for the large-amplitude vibrations of embedded multiwalled carbon nanotubes including thermal effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1171-1178. | 1.3 | 77 |
| 3756 | Critical buckling temperature of single-walled carbon nanotubes embedded in a one-parameter elastic medium based on nonlocal continuum mechanics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1185-1191. | 1.3 | 67 |
| 3757 | On the potential of long carbon nanotube forest for sensing gases and vapors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1199-1207. | 1.3 | 9 |
| 3758 | Vibrating ZnO/CNT nanotubes as pressure/stress sensors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1288-1293. | 1.3 | 11 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3759 | Buckling of carbon nanotubes wrapped by polyethylene molecules. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 624-627. | 0.9 | 11 |
| 3760 | Molecular dynamics study on resonance frequency change due to axial-strain-induced torsions of single-walled carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1470-1476. | 0.9 | 10 |
| 3761 | High-crystallization polyoxymethylene modification on carbon nanotubes with assistance of supercritical carbon dioxide: Molecular interactions and their thermal stability. <i>Polymer</i> , 2011, 52, 472-480. | 1.8 | 23 |
| 3762 | Synthesis and characterization of soluble multi-walled carbon nanotube/poly(organophosphazene) composites. <i>Polymer</i> , 2011, 52, 1241-1248. | 1.8 | 19 |
| 3763 | Polyethylene/carbon nanotube nano hybrid shish-kebab obtained by solvent evaporation and thin-film crystallization. <i>Polymer</i> , 2011, 52, 3633-3638. | 1.8 | 59 |
| 3764 | Nanostructured films and composites from carbon nanotubes dispersed by ABC block terpolymers in selective solvent. <i>Polymer</i> , 2011, 52, 3065-3073. | 1.8 | 14 |
| 3765 | High performance polymer actuator based on carbon nanotube-ionic liquid gel: Effect of ionic liquid. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 539-545. | 4.0 | 70 |
| 3766 | Mechanics and actuation properties of bucky gel-based electroactive polymers. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 949-953. | 4.0 | 33 |
| 3767 | Surface acoustic wave gas sensors based on polyisobutylene and carbon nanotube composites. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 1-5. | 4.0 | 40 |
| 3768 | Activation behavior and dielectric relaxation in polyvinyl alcohol and multiwall carbon nanotube composite films. <i>Solid State Communications</i> , 2011, 151, 754-758. | 0.9 | 26 |
| 3769 | Understanding the interaction of multi-walled carbon nanotubes with mutagenic organic pollutants using computational modeling and biological experiments. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 437-446. | 5.8 | 23 |
| 3770 | Electrical properties of carbon nanotube thin-film transistors fabricated using plasma-enhanced chemical vapor deposition measured by scanning probe microscopy. <i>Nanotechnology</i> , 2011, 22, 195202. | 1.3 | 9 |
| 3771 | Accelerated reliability testing of highly aligned single-walled carbon nanotube networks subjected to DC electrical stressing. <i>Nanotechnology</i> , 2011, 22, 265713. | 1.3 | 11 |
| 3772 | Investigation of the Resistance Dependence on Temperature of Single Carbon Nanotube in Different Environments. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 125101. | 0.8 | 1 |
| 3773 | Self-filtering oscillations in carbon nanotube hetero-junctions. <i>Nanotechnology</i> , 2011, 22, 465501. | 1.3 | 7 |
| 3774 | Cerium (IV) oxide nanotubes prepared by low temperature deposition at normal pressure. <i>Nanotechnology</i> , 2011, 22, 065602. | 1.3 | 7 |
| 3775 | Focused electron beam induced deposition of gold catalyst templates for Si-nanowire synthesis. <i>Nanotechnology</i> , 2011, 22, 015302. | 1.3 | 13 |
| 3776 | Characterizations of contact and sheet resistances of vertically aligned carbon nanotube forests with intrinsic bottom contacts. <i>Nanotechnology</i> , 2011, 22, 365704. | 1.3 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3777 | Carbon nanotube reinforcements for composites. , 2011, , 32-50. | | 1 |
| 3778 | Photovoltaic and photoconductive effects in different individual single-walled carbon-nanotube-based devices. , 2011, , . | | 0 |
| 3779 | Interaction of single-walled carbon nanotubes with poly(propyl ether imine) dendrimers. Journal of Chemical Physics, 2011, 134, 104507. | 1.2 | 20 |
| 3780 | Single-walled carbon nanotubes and nanocrystalline graphene reduce beam-induced movements in high-resolution electron cryo-microscopy of ice-embedded biological samples. Applied Physics Letters, 2011, 99, . | 1.5 | 12 |
| 3781 | Synthesis and Physical Characterization of Carbon Nanotubes Coated by Conducting Polypyrrole. Advanced Materials Research, 2011, 364, 50-54. | 0.3 | 4 |
| 3782 | Asymptotic exchange coupling of quasi-one-dimensional excitons in carbon nanotubes. Physical Review B, 2011, 83, . | 1.1 | 27 |
| 3783 | Screened field enhancement factor for the floating sphere model of a carbon nanotube array. Journal of Applied Physics, 2011, 110, . | 1.1 | 26 |
| 3784 | Modification of surface functionality and interlayer spacing of multi-walled carbon nanotubes using I^3 -rays. Journal of Applied Physics, 2011, 109, 054303. | 1.1 | 31 |
| 3785 | Densely packed carbon nanotube forest on silicon substrate for MEMS supercapacitor applications. , 2011, , . | | 1 |
| 3786 | Evaluation method of thermal conductivity of single carbon nanotube in liquid using quantum dot hydrogel sensor. , 2011, , . | | 2 |
| 3787 | Growth of horizontally aligned carbon nanotubes from designated sidewalls of DRIE-etched silicon trench. , 2011, , . | | 0 |
| 3789 | Skin temperature monitoring by a wireless sensor. , 2011, , . | | 12 |
| 3790 | Determination of Local Chirality in Irregular Single-Walled Carbon Nanotubes Based on Individual Hexagons. Physical Review Letters, 2011, 107, 175505. | 2.9 | 7 |
| 3791 | I^3 -iron facet with enhanced carbon mobility. Physical Review B, 2011, 83, . | 1.1 | 4 |
| 3793 | Multiwalled carbon nanotubes and dispersed nanodiamond novel hybrids: Microscopic structure evolution, physical properties, and radiation resilience. Journal of Applied Physics, 2011, 109, . | 1.1 | 31 |
| 3794 | Interplay of Wetting and Elasticity in the Nucleation of Carbon Nanotubes. Physical Review Letters, 2011, 107, 185503. | 2.9 | 16 |
| 3795 | Control of density of self-organized carbon nanotube arrays by catalyst pretreatment through plasma immersion ion implantation. Journal of Applied Physics, 2011, 110, 094303. | 1.1 | 1 |
| 3796 | Dependence of carbon nanotube field effect transistors performance on doping level of channel at different diameters: On/off current ratio. Applied Physics Letters, 2011, 99, . | 1.5 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3797 | Thermal conductivity of deformed carbon nanotubes. <i>Journal of Applied Physics</i> , 2011, 109, 074317. | 1.1 | 9 |
| 3798 | Elasticity, internal excitation, fragmentation, and charge transfer during grazing scattering of fast fullerenes from a KCl(001) surface. <i>Physical Review B</i> , 2011, 83, . | 1.1 | 11 |
| 3799 | Development of a simulator for modelling of electrical and mechanical properties of nanocomposite materials and sensors. , 2011, , . | | 0 |
| 3800 | The Real-Time Detecting Application of CNTs in 3D Braided Composite Material. <i>Advanced Materials Research</i> , 0, 301-303, 99-103. | 0.3 | 0 |
| 3801 | Spraying Research on the Resistive Film of Angular Displacement Sensor Made from Conductive Plastic. <i>Applied Mechanics and Materials</i> , 0, 121-126, 372-376. | 0.2 | 0 |
| 3802 | Electrical Conducting Diamond Thin-Films: An Alternative Counter Electrode Material for Dye Sensitized Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1282, 155. | 0.1 | 2 |
| 3803 | Cytotoxicity of Single-Walled Carbon Nanotubes with Human Ocular Cells. <i>Advanced Materials Research</i> , 0, 287-290, 32-36. | 0.3 | 8 |
| 3804 | Effect of Surfactants on the Dispersion of Multi-Walled Carbon Nanotubes in Epoxy Resin. <i>Advanced Materials Research</i> , 0, 221, 1-7. | 0.3 | 3 |
| 3805 | Dispersion of Single-Walled Carbon Nanotubes in Water by a Conjugated Surfactant. <i>Advanced Materials Research</i> , 0, 415-417, 562-565. | 0.3 | 1 |
| 3806 | Synthesis of S Doped Y-Junction Carbon Nanotubes by CVD Method. <i>Advanced Materials Research</i> , 0, 183-185, 1731-1735. | 0.3 | 4 |
| 3807 | Growth of diameter-modulated single-walled carbon nanotubes through instant temperature modulation in laser-assisted chemical vapor deposition. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1284, 61. | 0.1 | 0 |
| 3808 | Esterification of Chemical Functional Single-Wall Carbon Nanotubes. <i>Materials Science Forum</i> , 0, 695, 373-376. | 0.3 | 0 |
| 3810 | An Effective Method for Bonding Carbon Nanotubes onto Metal Electrodes. <i>Advanced Materials Research</i> , 2011, 403-408, 1099-1102. | 0.3 | 1 |
| 3811 | Solid-state pyrolysis of iron phthalocyanine polymer into iron nanowire inside carbon nanotube and their novel electromagnetic properties. <i>Journal of Materials Research</i> , 2011, 26, 2369-2372. | 1.2 | 6 |
| 3812 | Automated high-throughput screening of carbon nanotube-based bio-nanocomposites for bone cement applications. <i>Pure and Applied Chemistry</i> , 2011, 83, 2063-2069. | 0.9 | 1 |
| 3813 | Nanotechnology and Solar Energy. <i>International Journal of Photoenergy</i> , 2011, 2011, 1-2. | 1.4 | 5 |
| 3814 | Relationship between Size and Function of Natural Substance Particles. <i>Nano Biomedicine and Engineering</i> , 2011, 3, . | 0.3 | 8 |
| 3815 | Continuous synthesis of multiwalled carbon nanotubes from xylene using the swirled floating catalyst chemical vapor deposition technique. <i>Journal of Materials Research</i> , 2011, 26, 640-644. | 1.2 | 20 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3816 | ASSESSMENT ON THE TOXICITY OF ENGINEERED NANOPARTICLES ON THE LIFESTAGES OF MARINE AQUATIC INVERTEBRATE ARTEMIA SALINA. International Journal of Nanoscience, 2011, 10, 1153-1159. | 0.4 | 11 |
| 3817 | Carbon nanotubes in neural interfacing applications. Journal of Neural Engineering, 2011, 8, 011001. | 1.8 | 93 |
| 3818 | Electrical conductivity and electromagnetic interference shielding characteristics of multiwalled carbon nanotube filled polyurethane composite films. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2011, 2, 025007. | 0.7 | 59 |
| 3819 | The synergistic effect of bremsstrahlung photons and intense laser radiation on the structural properties of carbon nanotubes. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2011, 2, 035010. | 0.7 | 0 |
| 3820 | Comparative Proteomics and Pulmonary Toxicity of Instilled Single-Walled Carbon Nanotubes, Crocidolite Asbestos, and Ultrafine Carbon Black in Mice. Toxicological Sciences, 2011, 120, 123-135. | 1.4 | 103 |
| 3821 | Acylochloride-Functionalized Multiple-Walled Carbon Nanotubes Reinforced Polyimide for High Dielectric Properties. Advanced Materials Research, 0, 239-242, 2655-2658. | 0.3 | 0 |
| 3822 | The Synthesis of Nitrogen Doped Carbon Nanotube with Different Catalyst. Materials Science Forum, 0, 694, 266-269. | 0.3 | 3 |
| 3823 | Preparation and properties of PLA/long alkyl chain modified multi-walled carbon nanotubes nanocomposites. Journal of Polymer Engineering, 2011, 31, . | 0.6 | 5 |
| 3824 | Diameter modulation of carbon nanotubes by rapid temperature modulation in laser-assisted chemical vapor deposition. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 3825 | Bacterial remediation from effluent containing multi-walled carbon nanotubes. Journal of Physics: Conference Series, 2011, 304, 012023. | 0.3 | 2 |
| 3826 | Syntheses of Carbon Nanomaterials by Ferrocene. Current Organic Chemistry, 2011, 15, 3653-3666. | 0.9 | 15 |
| 3827 | ELECTRON BEAM INDUCED CARBONACEOUS DEPOSITION AS A LOCAL DIELECTRIC FOR CNT CIRCUITS. International Journal of Nanoscience, 2011, 10, 935-941. | 0.4 | 0 |
| 3828 | Covalent coupling of polyacrylic acid coated magnetic-nanoparticles to multi-wall carbon nanotubes for manipulation targets. Journal of Experimental Nanoscience, 2011, 6, 665-678. | 1.3 | 6 |
| 3829 | Liquid crystalline assembly of nanocylinders. Journal of Materials Research, 2011, 26, 140-153. | 1.2 | 40 |
| 3830 | A SF ₆ gas sensor using a dual track SAW device based on multi-wall carbon nanotubes. Smart Materials and Structures, 2011, 20, 035006. | 1.8 | 7 |
| 3831 | An analytical geometrical model for quasi onedimensional graphene nanomaterials. , 2011, , . | | 0 |
| 3832 | Spontaneous Polarization in Smectic A Phase of Carbon Nanotubes Doped Deformed Helix Ferroelectric Liquid Crystal. Molecular Crystals and Liquid Crystals, 2011, 541, 166/[404]-176/[414]. | 0.4 | 17 |
| 3833 | Nonlocal Effects in Curved Single-Walled Carbon Nanotubes. Mechanics of Advanced Materials and Structures, 2011, 18, 347-351. | 1.5 | 22 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3834 | CeO ₂ nanoparticles deposited on carbon nanotubes. IOP Conference Series: Materials Science and Engineering, 2011, 18, 082012. | 0.3 | 0 |
| 3835 | THE FORMATION AND EVOLUTION OF SINGLE-CRYSTALLINE SnO ₂ NANOBELTS. Modern Physics Letters B, 2011, 25, 1643-1650. | 1.0 | 1 |
| 3836 | Purity-enhanced bulk synthesis of thin single-wall carbon nanotubes using iron-copper catalysts. Nanotechnology, 2011, 22, 395602. | 1.3 | 9 |
| 3837 | CONTROLLED GROWTH OF SEMICONDUCTING SINGLE-WALL CARBON NANOTUBE. International Journal of Nanoscience, 2011, 10, 35-38. | 0.4 | 0 |
| 3839 | Pattern transformations in periodic cellular solids under external stimuli. Journal of Applied Physics, 2011, 109, 084907. | 1.1 | 5 |
| 3840 | Characterisation and modelling of CNT-epoxy and CNT-fibre-epoxy composites. Plastics, Rubber and Composites, 2011, 40, 481-490. | 0.9 | 10 |
| 3841 | Nanocomposite Hole-Extraction Layers for Organic Solar Cells. International Journal of Photoenergy, 2011, 2011, 1-5. | 1.4 | 5 |
| 3842 | Statistical property of the effect of Au nanoparticle decoration on the carbon nanotube network. Applied Physics Letters, 2011, 98, 143106. | 1.5 | 3 |
| 3843 | Energy accommodation of gas molecules with free-standing films of vertically aligned single-walled carbon nanotubes. , 2011, , . | | 0 |
| 3844 | Preparation and Properties of Polyphenylene Sulfide-Multi-walled Carbon Nanotube Composites. , 2011, , . | | 1 |
| 3845 | A pure single-walled carbon nanotube thin film based three-terminal microelectromechanical switch. Applied Physics Letters, 2011, 98, 073502. | 1.5 | 7 |
| 3846 | Protein Biosensors Based on Polymer Nanowires, Carbon Nanotubes and Zinc Oxide Nanorods. Sensors, 2011, 11, 5087-5111. | 2.1 | 69 |
| 3847 | Structural and Electronic Properties of Low-Dimensional C-Nanoassemblies and Possible Analogues for Si (and Ge). Journal of Nanomaterials, 2011, 2011, 1-9. | 1.5 | 4 |
| 3848 | Multiwalled carbon nanotubes decorated with nitrogen, palladium co-doped TiO ₂ (MWCNT/N, Pd) Tj ETQq1 1 0.784314 rgBT ₄ /Overlo | | |
| 3849 | Wound Healing Activity of Carbonized Rice Husk. Advanced Materials Research, 0, 602-604, 1196-1199. | 0.3 | 1 |
| 3850 | Nanostructures for Medical Diagnostics. Journal of Nanomaterials, 2012, 2012, 1-21. | 1.5 | 32 |
| 3851 | Pseudocapacitive Effects of N-Doped Carbon Nanotube Electrodes in Supercapacitors. Materials, 2012, 5, 1258-1266. | 1.3 | 67 |
| 3852 | Low Temperature Hall Effect Investigation of Conducting Polymer-Carbon Nanotubes Composite Network. International Journal of Molecular Sciences, 2012, 13, 14917-14928. | 1.8 | 20 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3853 | Incorporation of liquid-like multiwalled carbon nanotubes into an epoxy matrix by solvent-free processing. <i>Nanotechnology</i> , 2012, 23, 225701. | 1.3 | 22 |
| 3854 | Current Advances in the Carbon Nanotube/Thermotropic Main-Chain Liquid Crystalline Polymer Nanocomposites and Their Blends. <i>Polymers</i> , 2012, 4, 889-912. | 2.0 | 54 |
| 3855 | Carrier Transport Enhancement in Bulk-Heterojunction Organic Photovoltaics with Boron or Nitrogen-Doped Carbon Nanotubes. <i>Applied Mechanics and Materials</i> , 0, 229-231, 267-270. | 0.2 | 1 |
| 3856 | Characterization of Electrosynthesized Conjugated Polymer-Carbon Nanotube Composite: Optical Nonlinearity and Electrical Property. <i>International Journal of Molecular Sciences</i> , 2012, 13, 918-928. | 1.8 | 22 |
| 3857 | Effect of Ball-Milling Parameter on the Synthesis of MWCNT/Alumina Hybrid Compound. <i>Advanced Materials Research</i> , 0, 620, 309-313. | 0.3 | 1 |
| 3858 | Light-weight nanocomposite materials with enhanced thermal transport properties. <i>Nanotechnology Reviews</i> , 2012, 1, 363-376. | 2.6 | 22 |
| 3859 | Research on Microwave Absorbing Properties of Multi-Walled Carbon Nanotubes-Reinforced Cement-Based Composites. <i>Advanced Materials Research</i> , 0, 629, 261-265. | 0.3 | 7 |
| 3860 | Synthesis of High-Quality Carbon Nanotube Arrays without the Assistance of Water. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-5. | 1.5 | 8 |
| 3861 | Transitional Failure of Carbon Nanotube Systems under a Combination of Tension and Torsion. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6. | 1.5 | 1 |
| 3862 | Carbon Nanotube Electron Emitter for X-ray Imaging. <i>Materials</i> , 2012, 5, 2353-2359. | 1.3 | 32 |
| 3863 | Selective Grafting of Primary Amines onto Carbon Nanotubes via Free-Radical Treatment in Microwave Plasma Post-Discharge. <i>Polymers</i> , 2012, 4, 296-315. | 2.0 | 19 |
| 3864 | Thermo-mechanical characterization of epoxy nanocomposites with different carbon nanotube distributions obtained by solvent aided and direct mixing. <i>EXPRESS Polymer Letters</i> , 2012, 6, 520-531. | 1.1 | 39 |
| 3865 | Using Nanoscale Dispersed Particles to Assist in the Retention of Polyphosphinocarboxylic Acid (PPCA) Scale Inhibitor on Rock. , 2012, , . | | 7 |
| 3866 | High Temperature Mechanical Spectroscopy Study of 3 mol% Yttria Stabilized Tetragonal Zirconia Reinforced with Carbon Nanotubes. <i>Solid State Phenomena</i> , 0, 184, 265-270. | 0.3 | 5 |
| 3867 | Molecular Dynamics Study on Formation of Carbon Nanotube X-Shaped Junction by Heat Welding. <i>Advanced Materials Research</i> , 0, 538-541, 1460-1463. | 0.3 | 0 |
| 3868 | Thermal Conductivity of Polymer/Carbon Nanotube Composites. <i>Materials Science Forum</i> , 0, 714, 99-113. | 0.3 | 7 |
| 3869 | Effect of edge passivation on electronic and transport properties of carbon nanotube-based molecular devices. <i>Europhysics Letters</i> , 2012, 100, 57001. | 0.7 | 2 |
| 3870 | Intelligent energy dissipation capability of CNTs based nanofluid. <i>Proceedings of SPIE</i> , 2012, , . | 0.8 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3871 | Strain sensing using photocurrent generated by photoactive P3HT-based nanocomposites. Smart Materials and Structures, 2012, 21, 065016. | 1.8 | 20 |
| 3872 | Mechanical behavior of solid and foamed polyester/expanded graphite nanocomposites. Journal of Cellular Plastics, 2012, 48, 355-368. | 1.2 | 24 |
| 3873 | Various temperature effects on the growth of carbon nanotubes (CNTs) by thermal chemical vapor deposition (TCVD) method. International Journal of Physical Sciences, 2012, 7, . | 0.1 | 8 |
| 3874 | Persistent DNA Damage Measured by Comet Assay of Sprague Dawley Rat Lung Cells after Five Days of Inhalation Exposure and 1 Month Post-Exposure to Dispersed Multi-Wall Carbon Nanotubes (MWCNTs) Generated by New MWCNT Aerosol Generation System. Toxicological Sciences, 2012, 128, 439-448. | 1.4 | 37 |
| 3875 | Nanotechnology and Its Impact on Construction: Bridging the Gap between Researchers and Industry Professionals. Journal of Construction Engineering and Management - ASCE, 2012, 138, 594-604. | 2.0 | 69 |
| 3876 | A spectrograph for investigating Raman scattering in carbon nanotubes. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2012, 79, 160. | 0.2 | 0 |
| 3877 | Behavioral model for electrical response and strain sensitivity of nanotube-based nanocomposite materials. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 022001. | 0.6 | 14 |
| 3878 | Controlled clustering in metal nanorod arrays leads to strongly enhanced field emission characteristics. Nanotechnology, 2012, 23, 015704. | 1.3 | 13 |
| 3879 | Fabrication, Morphologies and Mechanical Properties of Carbon Nanotube Based Polymer Nanocomposites. , 2012, , 225-250. | | 1 |
| 3880 | Sharp burnout failure observed in high current-carrying double-walled carbon nanotube fibers. Nanotechnology, 2012, 23, 015703. | 1.3 | 11 |
| 3881 | Orthopedic carbon nanotube biosensors for controlled drug delivery. , 2012, , 149-179. | | 2 |
| 3882 | Strong photoluminescence from diameter-modulated single-walled carbon nanotubes. Applied Physics Letters, 2012, 101, 043123. | 1.5 | 1 |
| 3883 | Conformally coating vertically aligned carbon nanotube arrays using thermal decomposition of iron pentacarbonyl. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 03D101. | 0.6 | 4 |
| 3884 | A general approach for high yield fabrication of CMOS-compatible all-semiconducting carbon nanotube field effect transistors. Nanotechnology, 2012, 23, 125201. | 1.3 | 12 |
| 3885 | Electrophoretic Methods to Quantify Carbon Nanotubes in Biological Cells. World Scientific Series on Carbon Nanoscience, 2012, , 83-106. | 0.1 | 4 |
| 3886 | 3D mechanical measurements with an atomic force microscope on 1D structures. Review of Scientific Instruments, 2012, 83, 023704. | 0.6 | 10 |
| 3887 | Thermal rectification reversal in carbon nanotubes. Journal of Applied Physics, 2012, 112, . | 1.1 | 7 |
| 3888 | Scanning transmission X-ray microscopy and X-ray absorption near-edge structure studies of N-doped carbon nanotubes sealed with N2 gas. Journal of Applied Physics, 2012, 111, 124318. | 1.1 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3889 | Photoresponse from noble metal nanoparticles-multi walled carbon nanotube composites. Applied Physics Letters, 2012, 101, . | 1.5 | 13 |
| 3890 | Experimental and numerical investigations on the performance and reliability of CNT fins for micro-cooler. , 2012, , . | | 2 |
| 3891 | Fabrication of hybrid nanocomposites of poly(acrylic acid)-grafted MWNTs and spherical aggregates of palladium nanoparticles with POSS. Composite Interfaces, 2012, 19, 583-592. | 1.3 | 7 |
| 3892 | Effects of interfacial bonding in the Si-carbon nanotube nanocomposite: A molecular dynamics approach. Journal of Applied Physics, 2012, 112, . | 1.1 | 11 |
| 3893 | Pneumatic drive active vibration control for flexible manipulator using an adaptive interactive PD controller. , 2012, , . | | 4 |
| 3894 | Synthesis and Characterization of Nanostructures: MWCNT _f /TiO ₂ and MWCNT _f /TiO ₂ /HAp. Macromolecular Symposia, 2012, 321-322, 76-79. | 0.4 | 5 |
| 3895 | Plasma stabilisation of metallic nanoparticles on silicon for the growth of carbon nanotubes. Journal of Applied Physics, 2012, 112, 034303. | 1.1 | 13 |
| 3896 | Critical behavior of a three-dimensional hardcore-cylinder composite system. Physical Review E, 2012, 85, 021115. | 0.8 | 4 |
| 3897 | Structuring of carbon nanotubes for field emission based movement sensors. , 2012, , . | | 0 |
| 3898 | B12N12 Nano-cage as Potential Sensor for NO2 Detection. Chinese Journal of Chemical Physics, 2012, 25, 60-64. | 0.6 | 126 |
| 3899 | Molecular dynamics simulations of heat conduction in multi-walled carbon nanotubes. Molecular Simulation, 2012, 38, 823-829. | 0.9 | 14 |
| 3900 | Multiwalled carbon nanotubes-induced cytotoxic effects on human breast adenocarcinoma cell line. , 2012, , . | | 3 |
| 3901 | Nanomaterial-based Environmental Sensors. , 2012, , 561-619. | | 1 |
| 3902 | Photoconductivity and enhanced memory effects in hybrid C ₆₀ –graphene transistors. Nanotechnology, 2012, 23, 455202. | 1.3 | 28 |
| 3903 | Efficient inclusive analytical model for delay estimation of multi-walled carbon nanotube interconnects. IET Circuits, Devices and Systems, 2012, 6, 252. | 0.9 | 11 |
| 3904 | Effects of ion irradiation on carbon nanotubes: a review. International Journal of Materials and Product Technology, 2012, 45, 1. | 0.1 | 11 |
| 3905 | Percolative BaTiO ₃ /Carbon-Nanotube Composite Films Employing Aerosol Deposition. Japanese Journal of Applied Physics, 2012, 51, 09LC07. | 0.8 | 4 |
| 3906 | Effect of multiwalled carbon nanotubes on electrical conductivity and magnetoconductivity of polyaniline. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 035015. | 0.7 | 43 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3907 | Precise control of the number of walls formed during carbon nanotube growth using chemical vapor deposition. <i>Nanotechnology</i> , 2012, 23, 065604. | 1.3 | 13 |
| 3908 | Nanocomposites Based on Technical Polymers and Sterically Functionalized Soft Magnetic Magnetite Nanoparticles: Synthesis, Processing, and Characterization. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-8. | 1.5 | 30 |
| 3909 | Laser-Irradiation-Induced Enrichment of Metallic Single-Walled Carbon Nanotubes from As-Synthesized Nanotubes Individually Dispersed in Aqueous Solution. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 105101. | 0.8 | 2 |
| 3910 | Morphology and mechanical properties of MWNT/PMIA nanofibers by electrospinning. <i>Textile Research Journal</i> , 2012, 82, 1390-1395. | 1.1 | 10 |
| 3911 | Direct-write fabrication of freestanding nanocomposite strain sensors. <i>Nanotechnology</i> , 2012, 23, 085502. | 1.3 | 107 |
| 3912 | PIEZORESISTIVE PROPERTIES OF MULTI-WALLED CARBON NANOTUBE/POLY(DIMETHYLSILOXANE) COMPOSITES FOR LOW-PRESSURE-SENSING APPLICATIONS. <i>Nano</i> , 2012, 07, 1250005. | 0.5 | 5 |
| 3913 | Evaluation of thermal conductivity of single carbon nanotube in liquid using photofabricated fluorescent micropillars. , 2012, , . | | 1 |
| 3914 | Effect of MWCNTs Doping on the Morphology, Structure and Properties of Chitosan Beads. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 674-679. | 1.2 | 7 |
| 3915 | The Materiome. Springer Series in Materials Science, 2012, , 27-60. | 0.4 | 1 |
| 3916 | Atomistic Mechanism of Carbon Nanostructure Self-Assembly as Predicted by Nonequilibrium QM/MD Simulations. , 2012, , 103-172. | | 5 |
| 3917 | Surface-Enhanced Oxidation and Determination of Isothipendyl Hydrochloride at an Electrochemical Sensing Film Constructed by Multiwalled Carbon Nanotubes. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-6. | 2.4 | 0 |
| 3918 | Catalytic Hydroxyl Radical Generation by CuO Confined in Multi-Walled Carbon Nanotubes. <i>Advanced Materials Research</i> , 0, 557-559, 448-455. | 0.3 | 1 |
| 3919 | Preparation of Fe-Mn Oxide Nanoparticles inside Carbon Nanotubes. <i>Advanced Materials Research</i> , 2012, 557-559, 585-588. | 0.3 | 1 |
| 3920 | Electrical detection of specific versus non-specific binding events in breast cancer cells. <i>Proceedings of SPIE</i> , 2012, 8460, 84600S. | 0.8 | 4 |
| 3921 | Light-Induced Modulation in Resistance Switching of Carbon Nanotube/BiFeO ₃ /Pt Heterostructure. <i>Integrated Ferroelectrics</i> , 2012, 134, 58-64. | 0.3 | 4 |
| 3922 | Fabrication of Thin-Film Transistors Using PECVD-Grown Carbon Nanotubes and Their Application to Integrated Circuits. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1451, 159-168. | 0.1 | 0 |
| 3923 | Mitigation of the impact of single-walled carbon nanotubes on a freshwater green algae: <i>Pseudokirchneriella subcapitata</i> . <i>Nanotoxicology</i> , 2012, 6, 161-172. | 1.6 | 34 |
| 3924 | Multifunctional MWCNT Reinforced Self-Healing System. , 2012, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3925 | <i>In situ</i> synthesis of carbon nanotube coated hydroxyapatite. Materials Technology, 2012, 27, 217-219. | 1.5 | 1 |
| 3926 | Improvements of Thermal Conductivity of Aluminum Based Composites Containing VGCF-CNT Network by Heat Treatments of CNT. , 2012, , . | | 2 |
| 3927 | Modification of the electrical parameters of CNT-doped deformed-helix ferro-electric liquid crystals. Journal of Information Display, 2012, 13, 145-149. | 2.1 | 2 |
| 3928 | Carbon Nanotube and Fullerene Emissions from Spark-Ignited Engines. Aerosol Science and Technology, 2012, 46, 156-164. | 1.5 | 27 |
| 3929 | Carbon Nanotube- and Graphene Based Devices, Circuits and Sensors for VLSI Design. , 0, , . | | 12 |
| 3930 | Carbon nanotube structure, synthesis, and applications. , 0, , 1-37. | | 2 |
| 3931 | Dielectric and AC electrical conductivity characteristics of liquid crystal doped with graphene. EPJ Applied Physics, 2012, 60, 30104. | 0.3 | 12 |
| 3932 | Dye-assisted dispersion of single-walled carbon nanotubes for solution fabrication of NO ₂ sensors. AIP Advances, 2012, 2, . | 0.6 | 4 |
| 3933 | Empirical evaluation of attractive van der Waals potentials for type-purified single-walled carbon nanotubes. Physical Review B, 2012, 85, . | 1.1 | 31 |
| 3934 | Nanotechnologies for society. New designs and applications of nanosensors and nanobiosensors in medicine and environmental analysis. International Journal of Nanotechnology, 2012, 9, 746. | 0.1 | 18 |
| 3935 | Encyclopedia of Carbon Nanoforms. , 2012, , 1-65. | | 2 |
| 3936 | New Synthetic Opportunities in Miniaturized Flow Reactors with Inductive Heating. Chemistry Letters, 2012, 41, 562-570. | 0.7 | 110 |
| 3937 | Noncovalent Modification of Carbon Nanotubes with Proteins via Biotinylated Peptides Having a Binary Pattern within the Sequences. Chemistry Letters, 2012, 41, 597-599. | 0.7 | 9 |
| 3938 | Design methodology for fluidized bed carbon nanotube synthesis. Nanomaterials and Energy, 2012, 1, 180-190. | 0.1 | 0 |
| 3939 | Aqueous Dispersions of Carbon Nanotubes with Self-assembled Micelles of Photosensitive Amphiphilic Random Copolymer Containing Coumarin. Chemistry Letters, 2012, 41, 50-52. | 0.7 | 7 |
| 3940 | Micro and nano patterning of carbon electrodes for bioMEMS. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 252-265. | 0.7 | 38 |
| 3941 | Perspectives on supercapacitors, pseudocapacitors and batteries. Nanomaterials and Energy, 2012, 1, 136-158. | 0.1 | 41 |
| 3942 | Nanotechnology Enabled <i>In Situ</i>; Orthopaedic Sensors for Personalized Medicine. Advances in Science and Technology, 0, , . | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3943 | Lipid Bilayers Covalently Anchored to Carbon Nanotubes. <i>Langmuir</i> , 2012, 28, 8174-8182. | 1.6 | 14 |
| 3944 | A carbon monoxide gas sensor using oxygen plasma modified carbon nanotubes. <i>Nanotechnology</i> , 2012, 23, 425502. | 1.3 | 35 |
| 3945 | Synthesis, photoluminescence and field emission properties of well aligned/well patterned conical shape GaN nanorods. <i>CrystEngComm</i> , 2012, 14, 8492. | 1.3 | 35 |
| 3946 | SIMULATION OF THE ELASTIC PROPERTIES OF REINFORCED KEVLAR-GRAPHENE COMPOSITES. <i>International Journal of Nanoscience</i> , 2012, 11, 1250024. | 0.4 | 7 |
| 3947 | One-step synthesis of a Pt-Co-SWCNT hybrid material from a Pt-Co-MCM-41 catalyst. <i>Journal of Materials Chemistry</i> , 2012, 22, 25083. | 6.7 | 8 |
| 3948 | Electron Beam Sources Based on Carbon Nanotube for THz Applications. , 2012, , 93-111. | | 0 |
| 3949 | Cyclic Voltammogram Profile of Single-Walled Carbon Nanotube Electric Double-Layer Capacitor Electrode Reveals Dumbbell Shape. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7681-7686. | 1.5 | 50 |
| 3950 | Comprehensive Study on the Dissociative Chemisorption of NH ₃ on the Sidewalls of Stone-Wales Defective Armchair (5,5) Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6012-6021. | 1.5 | 31 |
| 3951 | Self-assembly of conjugated polymers for anisotropic nanostructures. <i>Science China Chemistry</i> , 2012, 55, 2283-2291. | 4.2 | 10 |
| 3952 | Formation of Gradient Multiwalled Carbon Nanotube Stripe Patterns by Using Evaporation-Induced Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3811-3817. | 4.0 | 14 |
| 3953 | Metallic and Semiconducting Single-Walled Carbon Nanotubes: Differentiating Individual SWCNTs by Their Carbon 1s Spectra. <i>ACS Nano</i> , 2012, 6, 10965-10972. | 7.3 | 17 |
| 3954 | Room temperature formaldehyde sensors with enhanced performance, fast response and recovery based on zinc oxide quantum dots/graphene nanocomposites. <i>Nanoscale</i> , 2012, 4, 5651. | 2.8 | 223 |
| 3955 | Cylindrical Fresnel lenses based on carbon nanotube forests. <i>Applied Physics Letters</i> , 2012, 101, . | 1.5 | 26 |
| 3956 | Plasmon nanooptics with individual single wall carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2012, 393, 012024. | 0.3 | 0 |
| 3957 | Measuring True Young's Modulus of a Cantilevered Nanowire: Effect of Clamping on Resonance Frequency. <i>Small</i> , 2012, 8, 2571-2576. | 5.2 | 49 |
| 3959 | Synthesis and Lithium Storage Mechanism of Ultrafine MoO ₂ Nanorods. <i>Chemistry of Materials</i> , 2012, 24, 457-463. | 3.2 | 230 |
| 3960 | A simple route to carbon micro- and nanorod hybrid structures by physical vapour deposition. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 395102. | 1.3 | 3 |
| 3961 | A Comparative Study of Various Supported Catalysts on the Growth of Aligned Carbon Nanotube Forests on Aluminum Foils. <i>Chemical Vapor Deposition</i> , 2012, 18, 326-335. | 1.4 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3962 | Electrochemical oxidation behavior of methotrexate at DNA/SWCNT/Nafion composite film-modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3227-3235. | 1.2 | 37 |
| 3963 | Miniaturizing microbial fuel cells for potential portable power sources: promises and challenges. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 353-381. | 1.0 | 141 |
| 3964 | The effect of nanotube surface oxidation on the electrical properties of multiwall carbon nanotube/poly(vinylidene fluoride) composites. <i>Journal of Materials Science</i> , 2012, 47, 8103-8111. | 1.7 | 32 |
| 3965 | Screen-printed single-walled carbon nanotube networks and their use for dimethyl methylphosphonate detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1823-1829. | 1.1 | 2 |
| 3966 | Effect of infrared irradiation on immobilization of ZnO nanocrystals on multiwalled carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1. | 0.8 | 7 |
| 3967 | Cytotoxicity and inflammation in human alveolar epithelial cells following exposure to occupational levels of gold and silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1. | 0.8 | 23 |
| 3968 | Effect of polystyrene-grafted multi-walled carbon nanotubes on the viscoelastic behavior and electrical properties of polypropylene-based nanocomposites. <i>Research on Chemical Intermediates</i> , 2012, 38, 2123-2135. | 1.3 | 3 |
| 3969 | The preferential permeation of ions across carbon and boron nitride nanotubes. <i>Chemical Physics</i> , 2012, 403, 105-112. | 0.9 | 27 |
| 3970 | Quantitative temperature profiling through null-point scanning thermal microscopy. <i>International Journal of Thermal Sciences</i> , 2012, 62, 109-113. | 2.6 | 34 |
| 3971 | Growth of Carbon Nanotubes on Carbon Fiber by Thermal CVD Using Ni Nanoparticles as Catalysts. <i>Procedia Engineering</i> , 2012, 36, 556-561. | 1.2 | 18 |
| 3972 | Stable and uniform field emission from zinc oxide nanowires grown on carbon nanotube mesh template. <i>Thin Solid Films</i> , 2012, 524, 245-248. | 0.8 | 4 |
| 3973 | Aligned carbon nanotube modified carbon fibre coated with gold nanoparticles embedded in a polymer film: Voltammetric microprobe for enzymeless glucose sensing. <i>Electrochemistry Communications</i> , 2012, 25, 94-97. | 2.3 | 16 |
| 3974 | Electrochemical and electromechanical properties of high performance polymer actuators using multi-walled carbon nanotubes containing ruthenium oxide. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 217-224. | 4.0 | 6 |
| 3976 | Materials design and modification on amide-based composites for hydrogen storage. <i>Progress in Natural Science: Materials International</i> , 2012, 22, 550-560. | 1.8 | 39 |
| 3977 | INTERACTION OF SINGLE-WALLED CARBON NANOTUBES WITH AMINE. <i>Nano</i> , 2012, 07, 1130001. | 0.5 | 15 |
| 3978 | How long a functionalized carbon nanotube can passively penetrate a lipid membrane. <i>Carbon</i> , 2012, 50, 5301-5308. | 5.4 | 26 |
| 3979 | Superior performance of manganese oxide/multi-walled carbon nanotubes polymer actuator over ruthenium oxide/multi-walled carbon nanotubes and single-walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 595-601. | 4.0 | 32 |
| 3980 | Improved performance of an activated multi-walled carbon nanotube polymer actuator, compared with a single-walled carbon nanotube polymer actuator. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 66-71. | 4.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 3981 | Wireless Interconnects Enabled On-chip Multicast Communication. , 2012, , . | | 1 |
| 3982 | Light-Induced Modulation in Resistance Switching of Carbon Nanotube/ BiFeO ₃ /Pt Heterostructure. Integrated Ferroelectrics, 2012, 132, 53-60. | 0.3 | 0 |
| 3983 | Combining mussel-inspired chemistry and the Michael addition reaction to disperse carbon nanotubes. RSC Advances, 2012, 2, 12153. | 1.7 | 79 |
| 3984 | Preferential elimination of thin single-walled carbon nanotubes by iron etching. Chemical Communications, 2012, 48, 1042-1044. | 2.2 | 12 |
| 3985 | Electrically conductive polymeric photonic crystals. Soft Matter, 2012, 8, 6280. | 1.2 | 19 |
| 3986 | Phosphorus-nitrogen dual doped carbon as an effective catalyst for oxygen reduction reaction in acidic media: effects of the amount of P-doping on the physical and electrochemical properties of carbon. Journal of Materials Chemistry, 2012, 22, 12107. | 6.7 | 210 |
| 3987 | Silica nanowires synthesized from gas by-product of SiC synthesis from alkoxide precursors. CrystEngComm, 2012, 14, 5552. | 1.3 | 2 |
| 3988 | Generation of functional PET microfibers through surface-initiated polymerization. Journal of Materials Chemistry, 2012, 22, 5855. | 6.7 | 53 |
| 3989 | Gas-phase synthesis and growth mechanism of SiC/SiO ₂ core-shell nanowires. CrystEngComm, 2012, 14, 1737-1743. | 1.3 | 18 |
| 3990 | Superior performance of a vapor grown carbon fiber polymer actuator containing ruthenium oxide over a single-walled carbon nanotube. Journal of Materials Chemistry, 2012, 22, 15104. | 6.7 | 21 |
| 3991 | Direct observation of melting behaviors at the nanoscale under electron beam and heat to form hollow nanostructures. Nanoscale, 2012, 4, 4702. | 2.8 | 26 |
| 3992 | Electrical-field-induced structural change and charge transfer of lanthanide-salophen complexes assembled on carbon nanotube field effect transistor devices. Chemical Communications, 2012, 48, 9071. | 2.2 | 9 |
| 3993 | Merging tribenzotriquinacene with hexa-peri-hexabenzocoronene: a cycloheptatriene unit generated by Scholl reaction. Chemical Communications, 2012, 48, 8880. | 2.2 | 61 |
| 3994 | Field emission from nanoporous silicon carbide. , 2012, , . | | 2 |
| 3995 | Laser-assisted nanofabrication of carbon nanostructures. Journal of Laser Applications, 2012, 24, . | 0.8 | 17 |
| 3996 | Pyrolysis-assisted graphene exfoliation from graphite particles deposited on photoresist pillars. , 2012, , . | | 0 |
| 3997 | Hybrid 3D graphene and aligned carbon nanofiber array architectures. RSC Advances, 2012, 2, 8965. | 1.7 | 20 |
| 3998 | Improvement of field emission characteristics of carbon nanotubes by enhancing physical and electrical contacts. , 2012, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 3999 | PECVD growth of carbon nanotubes: From experiment to simulation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, . | 0.6 | 44 |
| 4000 | Uniquely versatile: nano-site defined materials based on polyphenylene dendrimers. <i>New Journal of Chemistry</i> , 2012, 36, 282-298. | 1.4 | 60 |
| 4001 | Electrochemistry and electrocatalysis of a nanobiocomposite film containing hematin and carbon nanotubesâ€™chitosan on a poly-(acridine red) modified glassy carbon electrode. <i>Analytical Methods</i> , 2012, 4, 2929. | 1.3 | 14 |
| 4002 | Parallel factor (PARAFAC) kernel analysis of temperature- and composition-dependent NMR spectra of poly(lactic acid) nanocomposites. <i>Analyst, The</i> , 2012, 137, 1913. | 1.7 | 23 |
| 4003 | Novel approach toward a binder-free and current collector-free anode configuration: highly flexible nanoporous carbon nanotube electrodes with strong mechanical strength harvesting improved lithium storage. <i>Journal of Materials Chemistry</i> , 2012, 22, 18847. | 6.7 | 91 |
| 4004 | A nonpolymeric highly emissive ES IPT organogelator with neither dendritic structures nor long alkyl/alkoxy chains. <i>Soft Matter</i> , 2012, 8, 757-764. | 1.2 | 37 |
| 4005 | Diameter and chiral angle distribution dependencies on the carbon precursors in surface-grown single-walled carbon nanotubes. <i>Nanoscale</i> , 2012, 4, 7394. | 2.8 | 57 |
| 4006 | Reproducible layer-by-layer exfoliation for free-standing ultrathin films of single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2012, 22, 21824. | 6.7 | 32 |
| 4007 | Effects of multivalent counterions on the morphology and interactions of polyelectrolyte chains grafted on carbon nanotubes. <i>Soft Matter</i> , 2012, 8, 660-666. | 1.2 | 7 |
| 4008 | Manipulating Connectivity and Electrical Conductivity in Metallic Nanowire Networks. <i>Nano Letters</i> , 2012, 12, 5966-5971. | 4.5 | 76 |
| 4009 | Inexpensive method for producing macroporous silicon particulates (MPSPs) with pyrolyzed polyacrylonitrile for lithium ion batteries. <i>Scientific Reports</i> , 2012, 2, 795. | 1.6 | 97 |
| 4010 | A MWCNT/Polyisoprene Composite Reinforced by an Effective Load Transfer Reflected in the Extent of Polymer Coating. <i>Macromolecules</i> , 2012, 45, 2841-2849. | 2.2 | 23 |
| 4011 | Control over the Diameter, Length, and Structure of Carbon Nanotube Carpets Using Aluminum Ferrite and Iron Oxide Nanocrystals as Catalyst Precursors. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10287-10295. | 1.5 | 24 |
| 4012 | Incorporating Strong Polarity Minerals of Tourmaline with Carbon Nanotubes to Improve the Electrical and Electromagnetic Interference Shielding Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12814-12818. | 1.5 | 37 |
| 4013 | Ultrashort Single-Walled Carbon Nanotubes: Density Gradient Separation, Optical Property, and Mathematical Modeling Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24770-24776. | 1.5 | 18 |
| 4014 | Surface Graft Configuration Dependency of the Morphologies of Heterosurface Sheet Polymers. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5771-5776. | 1.2 | 6 |
| 4015 | Increased Graphitization in Electrospun Single Suspended Carbon Nanowires Integrated with Carbon-MEMS and Carbon-NEMS Platforms. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 34-39. | 4.0 | 64 |
| 4016 | Treatment of Acute Thromboembolism in Mice Using Heparin-Conjugated Carbon Nanocapsules. <i>ACS Nano</i> , 2012, 6, 6099-6107. | 7.3 | 18 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4017 | Systematic and Quantitative Investigation of the Mechanism of Carbon Nanotubes'™ Toxicity toward Algae. <i>Environmental Science & Technology</i> , 2012, 46, 8458-8466. | 4.6 | 192 |
| 4018 | Ceramic Pore Channels with Inducted Carbon Nanotubes for Removing Oil from Water. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1909-1918. | 4.0 | 94 |
| 4019 | Efficient Fabrication of Carbon Nanotube Micro Tip Arrays by Tailoring Cross-Stacked Carbon Nanotube Sheets. <i>Nano Letters</i> , 2012, 12, 2071-2076. | 4.5 | 12 |
| 4020 | Numerical simulation of carbon arc discharge for nanoparticle synthesis. <i>Physics of Plasmas</i> , 2012, 19, . | 0.7 | 53 |
| 4021 | Facile Preparation of Free-Standing Carbon Nanotube Arrays Produced Using Two-Step Floating-Ferrocene Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1417-1422. | 4.0 | 15 |
| 4022 | Optimized Vertical Carbon Nanotube Forests for Multiplex Surface-Enhanced Raman Scattering Detection. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3486-3492. | 2.1 | 24 |
| 4023 | Carbon Nanotube-Loaded Electrospun LiFePO ₄ /Carbon Composite Nanofibers As Stable and Binder-Free Cathodes for Rechargeable Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1273-1280. | 4.0 | 126 |
| 4024 | DWCNT-Doped Silica Gel Exhibiting Both Ionic and Electronic Conductivities. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11306-11314. | 1.5 | 12 |
| 4025 | Direct Measurement of the Interactions of Amide Solvents with Single-Walled Carbon Nanotubes Using Isothermal Titration Calorimetry. <i>Langmuir</i> , 2012, 28, 264-271. | 1.6 | 12 |
| 4026 | Nanotube-Bridged Wires with Sub-10 nm Gaps. <i>Nano Letters</i> , 2012, 12, 1879-1884. | 4.5 | 18 |
| 4027 | Preparation and Structure of a Tubular Addition Polymer: A True Synthetic Nanotube. <i>Journal of the American Chemical Society</i> , 2012, 134, 142-145. | 6.6 | 115 |
| 4028 | Ecological Approach to Graphene Oxide Reinforced Poly (methyl methacrylate) Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3596-3601. | 4.0 | 80 |
| 4029 | Shaping Single-Walled Metal Oxide Nanotubes from Precursors of Controlled Curvature. <i>Nano Letters</i> , 2012, 12, 827-832. | 4.5 | 71 |
| 4030 | Density Functional Theory Study of Oxygen Reduction Activity on Ultrathin Platinum Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16499-16510. | 1.5 | 18 |
| 4031 | Growth of Horizontally-Aligned Single-Walled Carbon Nanotubes on Sapphire Surface by Needle-Scratching Method. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 04DN02. | 0.8 | 0 |
| 4032 | Crystallinity-Controlled Synthesis of Zirconium Oxide Thin Films on Nitrogen-Doped Carbon Nanotubes by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14656-14664. | 1.5 | 34 |
| 4033 | Electronic Structure, Optical Properties, and Hydrogen Adsorption Characteristics of Supercubane-Based Three-Dimensional Porous Carbon. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25015-25021. | 1.5 | 20 |
| 4034 | Application of Carbon Nanotubes in the Extraction and Electrochemical Detection of Organophosphate Pesticides: A Review. <i>Analytical Letters</i> , 2012, 45, 783-803. | 1.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 4035 | Non-conservative instability of cantilever carbon nanotubes resting on viscoelastic foundation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1623-1630. | 1.3 | 43 |
| 4036 | Continuous and low-cost synthesis of high-quality multi-walled carbon nanotubes by arc discharge in air. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1639-1643. | 1.3 | 40 |
| 4037 | Thermal vibration analysis of orthotropic nanoplates based on nonlocal continuum mechanics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1950-1962. | 1.3 | 44 |
| 4038 | Application of modified multiwall carbon nanotubes paste electrode for simultaneous voltammetric determination of morphine and diclofenac in biological and pharmaceutical samples. <i>Sensors and Actuators B: Chemical</i> , 2012, 169, 96-105. | 4.0 | 193 |
| 4039 | Comparison of two different carbon nanotube-based surfaces with respect to potassium ferricyanide electrochemistry. <i>Surface Science</i> , 2012, 606, 156-160. | 0.8 | 60 |
| 4040 | Electrocatalytic oxidation of NADH at electrogenerated NAD ⁺ oxidation product immobilized onto multiwalled carbon nanotubes/ionic liquid nanocomposite: Application to ethanol biosensing. <i>Talanta</i> , 2012, 90, 91-98. | 2.9 | 59 |
| 4041 | Dynamic layer-by-layer self-assembly of multi-walled carbon nanotubes on quartz wool for on-line separation of lysozyme in egg white. <i>Talanta</i> , 2012, 94, 104-110. | 2.9 | 10 |
| 4042 | l-histidine functionalized multi-walled carbon nanotubes for on-line affinity separation and purification of immunoglobulin G in serum. <i>Talanta</i> , 2012, 99, 40-49. | 2.9 | 30 |
| 4043 | Biosensor based on atemoya peroxidase immobilised on modified nanoclay for glyphosate biomonitoring. <i>Talanta</i> , 2012, 98, 130-136. | 2.9 | 61 |
| 4044 | Calcium-based functionalization of carbon nanostructures for peptide immobilization in aqueous media. <i>Journal of Materials Chemistry</i> , 2012, 22, 19684. | 6.7 | 26 |
| 4045 | Polymer/carbon nanocomposites for enhanced thermal transport properties of carbon nanotubes versus graphene sheets as nanoscale fillers. <i>Journal of Materials Chemistry</i> , 2012, 22, 17133. | 6.7 | 77 |
| 4046 | Photo-responsive carbon nanomaterials functionalized by azobenzene moieties: structures, properties and application. <i>Nanoscale</i> , 2012, 4, 6118. | 2.8 | 95 |
| 4047 | Electrical and Dielectric Properties of Exfoliated Graphite/Polyimide Composite Films with Low Percolation Threshold. <i>Journal of Electronic Materials</i> , 2012, 41, 2439-2446. | 1.0 | 14 |
| 4048 | Corking Carbon Nanotube Cups with Gold Nanoparticles. <i>ACS Nano</i> , 2012, 6, 6912-6921. | 7.3 | 28 |
| 4049 | Properties and Applications of Aligned Carbon Nanotube Arrays. <i>Nanoscience and Technology</i> , 2012, , 183-253. | 1.5 | 0 |
| 4050 | Single-walled Carbon Nanotube Growth from Chiral Carbon Nanorings: Prediction of Chirality and Diameter Influence on Growth Rates. <i>Journal of the American Chemical Society</i> , 2012, 134, 15887-15896. | 6.6 | 52 |
| 4051 | Functionalization of Multiwalled Carbon Nanotubes and Their pH-Responsive Hydrogels with Amyloid Fibrils. <i>Langmuir</i> , 2012, 28, 10142-10146. | 1.6 | 49 |
| 4052 | Photocatalytic CO ₂ reduction by TiO ₂ and related titanium containing solids. <i>Energy and Environmental Science</i> , 2012, 5, 9217. | 15.6 | 501 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4053 | Dielectric investigations of pure and carbon nanotube-doped deformed helix ferroelectric liquid crystals. <i>Liquid Crystals</i> , 2012, 39, 1169-1174. | 0.9 | 18 |
| 4054 | Near-Infrared Fluorescent Nanoprobes for in Vivo Optical Imaging. <i>Nanomaterials</i> , 2012, 2, 92-112. | 1.9 | 95 |
| 4055 | Electrochemistry of Q-Graphene. <i>Nanoscale</i> , 2012, 4, 6470. | 2.8 | 40 |
| 4056 | Boolean Functions Over Nano-Fabrics: Improving Resilience Through Coding. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2012, 20, 2054-2065. | 2.1 | 2 |
| 4057 | One-step ultrasonic synthesis of fluorescent N-doped carbon dots from glucose and their visible-light sensitive photocatalytic ability. <i>New Journal of Chemistry</i> , 2012, 36, 861. | 1.4 | 493 |
| 4058 | The effect of calcination temperature on the microstructure and photocatalytic activity of TiO ₂ -based composite nanotubes prepared by an in situ template dissolution method. <i>Nanoscale</i> , 2012, 4, 6597. | 2.8 | 56 |
| 4059 | PolyPEGylated nanodiamond for intracellular delivery of a chemotherapeutic drug. <i>Polymer Chemistry</i> , 2012, 3, 2716. | 1.9 | 105 |
| 4060 | Polyaniline/polyacrylic acid/multi-walled carbon nanotube modified electrodes for sensing ascorbic acid. <i>Analytical Methods</i> , 2012, 4, 118-124. | 1.3 | 45 |
| 4061 | Microwave absorbing properties of polyaniline/multi-walled carbon nanotube composites with various polyaniline contents. <i>Applied Surface Science</i> , 2012, 258, 3184-3190. | 3.1 | 93 |
| 4062 | Fabrication of nanostructured clay-carbon nanotube hybrid nanofiller by chemical vapour deposition. <i>Applied Surface Science</i> , 2012, 258, 4460-4466. | 3.1 | 16 |
| 4063 | Oxidation behavior of multiwall carbon nanotubes with different diameters and morphology. <i>Applied Surface Science</i> , 2012, 258, 6272-6280. | 3.1 | 124 |
| 4064 | Self assembly of positively charged carbon nanotubes with oppositely charged metallic surface. <i>Applied Surface Science</i> , 2012, 258, 6455-6459. | 3.1 | 7 |
| 4065 | Temperature dependent field emission performances of carbon nanotube arrays: Speculation on oxygen desorption and defect annealing. <i>Applied Surface Science</i> , 2012, 258, 7094-7098. | 3.1 | 14 |
| 4066 | Electrophoretic deposition of cobalt catalyst layer over stainless steel for the high yield synthesis of carbon nanotubes. <i>Applied Surface Science</i> , 2012, 258, 7936-7942. | 3.1 | 20 |
| 4067 | Heterogeneous catalytic ozonation of ciprofloxacin in water with carbon nanotube supported manganese oxides as catalyst. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 227-236. | 6.5 | 122 |
| 4068 | Controlling the size and the activity of Fe particles for synthesis of carbon nanotubes. <i>Micron</i> , 2012, 43, 1181-1187. | 1.1 | 13 |
| 4069 | Effects of single vacancy defect position on the stability of carbon nanotubes. <i>Microelectronics Reliability</i> , 2012, 52, 1279-1284. | 0.9 | 39 |
| 4070 | Interaction study on DNA, single-wall carbon nanotubes and acridine orange. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 887-891. | 1.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 4071 | Synthesis of ZnO nanorods by spray pyrolysis for H ₂ S gas sensor. <i>Journal of Alloys and Compounds</i> , 2012, 528, 109-114. | 2.8 | 141 |
| 4072 | Computational simulation of binary compounds of carbon nanotubes and amphiphilics in aqueous solution by Monte Carlo method. <i>Computational Materials Science</i> , 2012, 59, 121-127. | 1.4 | 3 |
| 4073 | An accurate spring-mass model for predicting mechanical properties of single-walled carbon nanotubes. <i>Computational Materials Science</i> , 2012, 62, 6-11. | 1.4 | 16 |
| 4074 | Theoretical investigation of C ₆₀ fullerene functionalization with tetrazine. <i>Computational and Theoretical Chemistry</i> , 2012, 992, 164-167. | 1.1 | 73 |
| 4075 | Open and capped (5,5) armchair SWCNTs: A comparative study of DFT-based reactivity descriptors. <i>Chemical Physics Letters</i> , 2012, 541, 85-91. | 1.2 | 46 |
| 4076 | Nanoparticles in metal complexes-based electrogenerated chemiluminescence for highly sensitive applications. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1664-1681. | 9.5 | 82 |
| 4077 | A review "Synthesis of carbon nanotubes from plastic wastes. <i>Chemical Engineering Journal</i> , 2012, 195-196, 377-391. | 6.6 | 195 |
| 4078 | Decorating multi-walled carbon nanotubes with Au nanoparticles by amphiphilic ionic liquid self-assembly. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 408, 1-7. | 2.3 | 12 |
| 4079 | Study of non-local wave properties of nanotubes with surface effects. <i>Computational Materials Science</i> , 2012, 56, 179-184. | 1.4 | 25 |
| 4080 | Poly(vinyl alcohol)/graphene oxide nanocomposites prepared by a simple eco-process. <i>Polymer Journal</i> , 2012, 44, 1056-1063. | 1.3 | 126 |
| 4081 | Effects of spherical fullerene nanoparticles on a dipalmitoyl phosphatidylcholine lipid monolayer: a coarse grain molecular dynamics approach. <i>Soft Matter</i> , 2012, 8, 9610. | 1.2 | 35 |
| 4082 | Hydrogen Storage. , 2012, , 157-177. | | 3 |
| 4083 | Transfer Printing Techniques for Materials Assembly and Micro/Nanodevice Fabrication. <i>Advanced Materials</i> , 2012, 24, 5284-5318. | 11.1 | 727 |
| 4084 | Polyelectrolyte-Assisted Noncovalent Functionalization of Carbon Nanotubes with Ordered Self-Assemblies of a Water-Soluble Porphyrin. <i>ChemPhysChem</i> , 2012, 13, 3622-3631. | 1.0 | 10 |
| 4085 | Novel conjugated polymer/graphene/platinum composite for enhancing electrocatalytic oxidation of methanol. <i>Polymer Composites</i> , 2012, 33, 1759-1763. | 2.3 | 0 |
| 4086 | Silicon nanowires prepared by electron beam evaporation in ultrahigh vacuum. <i>Nanoscale Research Letters</i> , 2012, 7, 243. | 3.1 | 9 |
| 4087 | Flexible, transparent electrodes using carbon nanotubes. <i>Nanoscale Research Letters</i> , 2012, 7, 571. | 3.1 | 34 |
| 4088 | Enhanced electrical properties of vertically aligned carbon nanotube-epoxy nanocomposites with high packing density. <i>Nanoscale Research Letters</i> , 2012, 7, 630. | 3.1 | 26 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4089 | Enhancement of dispersion and bonding of graphene-polymer through wet transfer of functionalized graphene oxide. EXPRESS Polymer Letters, 2012, 6, 1017-1031. | 1.1 | 163 |
| 4091 | High-performance supercapacitors based on vertically aligned carbon nanotubes and nonaqueous electrolytes. Nanotechnology, 2012, 23, 155401. | 1.3 | 140 |
| 4092 | Syntheticâ€œBiological Hybrid Polymers. , 2012, , 543-586. | | 3 |
| 4093 | Graphene Microtubings: Controlled Fabrication and Site-Specific Functionalization. Nano Letters, 2012, 12, 5879-5884. | 4.5 | 111 |
| 4096 | Fabrication of a multifunctional carbon nanotube â€œcottonâ€œ yarn by the direct chemical vapor deposition spinning process. Nanoscale, 2012, 4, 5614. | 2.8 | 34 |
| 4097 | Percolation scaling in composites of exfoliated MoS ₂ filled with nanotubes and graphene. Nanoscale, 2012, 4, 6260. | 2.8 | 75 |
| 4098 | Evaluation of Solution-Processable Carbon-Based Electrodes for All-Carbon Solar Cells. ACS Nano, 2012, 6, 10384-10395. | 7.3 | 154 |
| 4099 | A simple template-free synthesis of ultrathin Cu ₂ ZnSnS ₄ nanosheets for highly stable photocatalytic H ₂ evolution. Journal of Materials Chemistry, 2012, 22, 6553. | 6.7 | 56 |
| 4101 | A Rapid Room-Temperature NO ₂ Sensor Based on Telluriumâ€œSWNT Hybrid Nanostructures. Journal of Physical Chemistry C, 2012, 116, 20067-20074. | 1.5 | 51 |
| 4102 | Free-standing single-walled carbon nanotubeâ€œCdSe quantum dots hybrid ultrathin films for flexible optoelectronic conversion devices. Nanoscale, 2012, 4, 4515. | 2.8 | 14 |
| 4105 | Determination of acetaminophen by electrochemical co-deposition of glutamic acid and gold nanoparticles. Sensors and Actuators B: Chemical, 2012, 174, 318-324. | 4.0 | 92 |
| 4106 | Transformation of mesoporous Cu/Cu ₂ O into porous Cu ₂ O nanowires in ethanol. CrystEngComm, 2012, 14, 2617. | 1.3 | 10 |
| 4107 | High-Performance Carbon Nanotube Transparent Conductive Films by Scalable Dip Coating. ACS Nano, 2012, 6, 9737-9744. | 7.3 | 277 |
| 4108 | CNT/conducting polymer composite conductors impart high flexibility to textile electroluminescent devices. Journal of Materials Chemistry, 2012, 22, 1598-1605. | 6.7 | 47 |
| 4109 | Heteroepitaxial Growth of Single-Walled Carbon Nanotubes from Boron Nitride. Scientific Reports, 2012, 2, 971. | 1.6 | 16 |
| 4110 | Growth of carbon nanotubes on spontaneously detached free standing diamond films and their field emission properties. Diamond and Related Materials, 2012, 30, 42-47. | 1.8 | 18 |
| 4111 | Recent advances in microwave initiated synthesis of nanocarbon materials. Nanoscale, 2012, 4, 707-714. | 2.8 | 84 |
| 4112 | Enhanced gas sensing in pristine carbon nanotubes under continuous ultraviolet light illumination. Scientific Reports, 2012, 2, 343. | 1.6 | 185 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 4113 | Biomimicry via Electrospinning. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2012, 37, 94-114. | 6.8 | 100 |
| 4114 | Electrochemical Detection of Alkaline Phosphatase Using Ionic Liquid Modified Carbon Nanotubes Electrode. <i>Chinese Journal of Analytical Chemistry</i> , 2012, 40, 835-840. | 0.9 | 6 |
| 4115 | Enhancing Hysteresis in Graphene Devices Using Dielectric Screening. <i>IEEE Electron Device Letters</i> , 2012, 33, 1195-1197. | 2.2 | 3 |
| 4116 | Carbon nanotubes for stem cell control. <i>Materials Today</i> , 2012, 15, 312-318. | 8.3 | 39 |
| 4117 | Advancing risk assessment of engineered nanomaterials: Application of computational approaches. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1663-1693. | 6.6 | 186 |
| 4118 | Carbon nanotube-based antimicrobial biomaterials formed via layer-by-layer assembly with polypeptides. <i>Journal of Colloid and Interface Science</i> , 2012, 388, 268-273. | 5.0 | 77 |
| 4119 | Nitrate reduction by maghemite supported Cu-Pd bimetallic catalyst. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 148-158. | 10.8 | 99 |
| 4120 | Molecular simulations of pristine and defective carbon nanotubes under monotonic and combined loading. <i>Computational Materials Science</i> , 2012, 65, 133-143. | 1.4 | 23 |
| 4121 | The effect of carbon nanofibres on self-healing epoxy/poly(ϵ -caprolactone) blends. <i>Composites Science and Technology</i> , 2012, 72, 1952-1959. | 3.8 | 25 |
| 4122 | Low-defect multi-walled carbon nanotubes supported PtCo alloy nanoparticles with remarkable performance for electrooxidation of methanol. <i>Electrochimica Acta</i> , 2012, 80, 118-125. | 2.6 | 38 |
| 4123 | Non-enzymatic superoxide anion radical sensor based on Pt nanoparticles covalently bonded to thiolated MWCNTs. <i>Electrochimica Acta</i> , 2012, 81, 31-36. | 2.6 | 37 |
| 4124 | Tunable mechanical properties of layer-by-layer self-assembled carbon nanotube/polymer nanocomposite membranes for M/NEMS. <i>Sensors and Actuators A: Physical</i> , 2012, 185, 101-108. | 2.0 | 17 |
| 4125 | Creation of 3-dimensional carbon nanostructures from UV irradiation of carbon dioxide at room temperature. <i>Journal of Supercritical Fluids</i> , 2012, 72, 1-6. | 1.6 | 1 |
| 4126 | Synthesis and characterization of molybdenum disulfide/multi-walled carbon nanotube coaxial nanotubes. <i>Surface and Coatings Technology</i> , 2012, 213, 202-206. | 2.2 | 6 |
| 4127 | Negative index photonic crystal lenses based on carbon nanotube arrays. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 499-505. | 1.0 | 7 |
| 4128 | Heat welding of non-orthogonal X-junction of single-walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 46, 30-32. | 1.3 | 20 |
| 4129 | Piezoelectric ZnO-CNT nanotubes under axial strain and electrical voltage. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 46, 105-112. | 1.3 | 17 |
| 4130 | Localization of functionalized MWCNT in SAN/PPE blends and their influence on rheological properties. <i>Polymer</i> , 2012, 53, 5491-5501. | 1.8 | 36 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4131 | Diameter-selective purification of carbon nanotubes by microwave-assisted acid processing. Separation and Purification Technology, 2012, 96, 182-186. | 3.9 | 15 |
| 4132 | A two-stage, self-aligned vertical densification process for as-grown CNT forests in supercapacitor applications. Sensors and Actuators A: Physical, 2012, 188, 261-267. | 2.0 | 29 |
| 4133 | The relationship between humic acid (HA) adsorption on and stabilizing multiwalled carbon nanotubes (MWNTs) in water: Effects of HA, MWNT and solution properties. Journal of Hazardous Materials, 2012, 241-242, 404-410. | 6.5 | 54 |
| 4134 | Effects of pore diameter and organic chain length on energy dissipation properties of MWCNTs based nanofluids. Materials Chemistry and Physics, 2012, 136, 858-862. | 2.0 | 2 |
| 4135 | Continuum limits of bistable spring models of carbon nanotube arrays accounting for material damage. Mechanics Research Communications, 2012, 45, 58-63. | 1.0 | 31 |
| 4136 | Superwetting monolithic carbon with hierarchical structure as supercapacitor materials. Microporous and Mesoporous Materials, 2012, 163, 249-258. | 2.2 | 28 |
| 4138 | Hot Electron Field Emission <i>via</i> Individually Transistor-Ballasted Carbon Nanotube Arrays. ACS Nano, 2012, 6, 3236-3242. | 7.3 | 47 |
| 4139 | Noncovalent Functionalization of Multiwalled Carbon Nanotube by a Polythiophene-Based Compatibilizer: Reinforcement and Conductivity Improvement in Poly(vinylidene fluoride) Films. Journal of Physical Chemistry C, 2012, 116, 9360-9371. | 1.5 | 74 |
| 4141 | Noncovalent fabrication and electrochemical capacitance of uniform core-shell structured polyaniline-carbon nanotube nanocomposite. RSC Advances, 2012, 2, 11887. | 1.7 | 10 |
| 4142 | Single-Walled Carbon Nanotube-Induced Lyotropic Phase Behavior of a Polymeric System. Macromolecules, 2012, 45, 986-992. | 2.2 | 13 |
| 4143 | Iron phthalocyanine coated on single-walled carbon nanotubes composite for the oxygen reduction reaction in alkaline media. Physical Chemistry Chemical Physics, 2012, 14, 2557. | 1.3 | 93 |
| 4144 | NO sensors based on semiconducting metal oxide nanostructures: Progress and perspectives. Sensors and Actuators B: Chemical, 2012, 171-172, 25-42. | 4.0 | 371 |
| 4145 | All-solid-state flexible supercapacitors based on papers coated with carbon nanotubes and ionic-liquid-based gel electrolytes. Nanotechnology, 2012, 23, 065401. | 1.3 | 253 |
| 4146 | Surface Reactivity for Chlorination on Chlorinated (5,5) Armchair SWCNT: A Computational Approach. Journal of Physical Chemistry C, 2012, 116, 22399-22410. | 1.5 | 62 |
| 4147 | Electrochemical Characterization of Streptavidin-HRP Immobilized on Multiwall Carbon Nanotubes for Biosensor Applications. Journal of Biomaterials and Nanobiotechnology, 2012, 03, 31-36. | 1.0 | 5 |
| 4148 | Transformation of non-orthogonal X-junction of single-walled carbon nanotubes into parallel junction by heating. Chemical Physics Letters, 2012, 547, 42-46. | 1.2 | 6 |
| 4149 | Electromechanical response and failure behaviour of aerogel-spun carbon nanotube fibres under tensile loading. Journal of Materials Chemistry, 2012, 22, 6792. | 6.7 | 38 |
| 4150 | Ultra simple catalyst layer preparation for the growth of vertically aligned CNTs and CNT-based nanostructures. CrystEngComm, 2012, 14, 48-52. | 1.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4151 | Sub-ppt gas detection with pristine graphene. Applied Physics Letters, 2012, 101, 053119. | 1.5 | 161 |
| 4152 | Modeling Carbon Nanotube Electrical Properties in CNT/Polymer Composites. Advanced Structured Materials, 2012, , 287-295. | 0.3 | 0 |
| 4153 | Biphasic Polymer Blends Containing Carbon Nanotubes: Heterogeneous Nanotube Distribution and Its Influence on the Dielectric Properties. Journal of Physical Chemistry C, 2012, 116, 2051-2058. | 1.5 | 116 |
| 4154 | Pluronic F108 Coating Decreases the Lung Fibrosis Potential of Multiwall Carbon Nanotubes by Reducing Lysosomal Injury. Nano Letters, 2012, 12, 3050-3061. | 4.5 | 159 |
| 4155 | Aggregation Kinetics and Transport of Single-Walled Carbon Nanotubes at Low Surfactant Concentrations. Environmental Science & Technology, 2012, 46, 4458-4465. | 4.6 | 121 |
| 4156 | Fluorescent probe for Fe(iii) based on pyrene grafted multiwalled carbon nanotubes by click reaction. Analyst, The, 2012, 137, 1718. | 1.7 | 21 |
| 4157 | Stoneâ€“Wales defects can cause a metalâ€“semiconductor transition in carbon nanotubes depending on their orientation. Journal of Physics Condensed Matter, 2012, 24, 035301. | 0.7 | 12 |
| 4158 | Electric Field Guided Assembly of One-Dimensional Nanostructures for High Performance Sensors. Sensors, 2012, 12, 5725-5751. | 2.1 | 30 |
| 4160 | Size-Dependent Partitioning of Nano/Microparticles Mediated by Membrane Lateral Heterogeneity. Journal of the American Chemical Society, 2012, 134, 13990-13996. | 6.6 | 56 |
| 4161 | Electrophoretic Deposition of Carbon Nanotubes on Silicon Substrates. Journal of Electronic Materials, 2012, 41, 3130-3138. | 1.0 | 14 |
| 4162 | Buckling analysis and small scale effect of biaxially compressed graphene sheets using non-local elasticity theory. Sadhana - Academy Proceedings in Engineering Sciences, 2012, 37, 461-480. | 0.8 | 14 |
| 4163 | Supramolecular composite of single-walled carbon nanotubes with oligo(p-phenyleneethynylene)s-graft-poly(ethyleneoxide)s. Fibers and Polymers, 2012, 13, 1219-1224. | 1.1 | 1 |
| 4164 | Electroless Ni-P-CNT composite coating on aluminum powder. Metals and Materials International, 2012, 18, 1015-1021. | 1.8 | 13 |
| 4168 | Closed-loop control of laser assisted chemical vapor deposition growth of carbon nanotubes. Journal of Applied Physics, 2012, 112, 034904. | 1.1 | 5 |
| 4169 | Recent Advances in Skin-Inspired Sensors Enabled by Nanotechnology. Jom, 2012, 64, 793-801. | 0.9 | 18 |
| 4170 | Insights in the Plasma-Assisted Growth of Carbon Nanotubes through Atomic Scale Simulations: Effect of Electric Field. Journal of the American Chemical Society, 2012, 134, 1256-1260. | 6.6 | 88 |
| 4171 | Sustainable processing of waste plastics to produce high yield hydrogen-rich synthesis gas and high quality carbon nanotubes. RSC Advances, 2012, 2, 4045. | 1.7 | 75 |
| 4173 | Synthesis of short multi-walled carbon nanotubes by molecular self-assembly. New Carbon Materials, 2012, 27, 416-420. | 2.9 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4174 | Structural improvement of CVD multi-walled carbon nanotubes by a rapid annealing process. <i>Diamond and Related Materials</i> , 2012, 25, 24-28. | 1.8 | 25 |
| 4175 | Superconductivity in 4-Angstrom carbon nanotubes—a short review. <i>Nanoscale</i> , 2012, 4, 21-41. | 2.8 | 32 |
| 4176 | Materials with Complex Behaviour II. <i>Advanced Structured Materials</i> , 2012, , . | 0.3 | 3 |
| 4177 | Effect of Carboxylation on Carbon Nanotube Aqueous Dispersibility: A Predictive Coarse-Grained Molecular Dynamics Approach. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23102-23106. | 1.5 | 3 |
| 4178 | Nonlinear free vibration of embedded double-walled carbon nanotubes with layerwise boundary conditions. <i>Acta Mechanica</i> , 2012, 223, 2523-2536. | 1.1 | 16 |
| 4179 | Adsorption of catechol, resorcinol, hydroquinone, and their derivatives: a review. <i>International Journal of Energy and Environmental Engineering</i> , 2012, 3, 32. | 1.3 | 98 |
| 4180 | Nitrogen-doped carbon nanotubes synthesized by pyrolysis of nitrogen-rich metal phthalocyanine derivatives for oxygen reduction. <i>Journal of Materials Chemistry</i> , 2012, 22, 18230. | 6.7 | 27 |
| 4181 | Impurities in graphenes and carbon nanotubes and their influence on the redox properties. <i>Chemical Science</i> , 2012, 3, 3347. | 3.7 | 123 |
| 4182 | Enhanced Lithium Ion Storage Property of Sn Nanoparticles: The Confinement Effect of Few-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22774-22779. | 1.5 | 44 |
| 4183 | Scientometric analysis of publications in the area of nanoenergy based on the materials of the peer-reviewed journal of VINITI RAS <i>Physics of Nanoobjects and Nanotechnology</i> . <i>Scientific and Technical Information Processing</i> , 2012, 39, 215-219. | 0.3 | 2 |
| 4184 | Chemical vapor doping of transparent and conductive films of carbon nanotubes. <i>Chemical Physics Letters</i> , 2012, 546, 109-114. | 1.2 | 7 |
| 4185 | Phase Behavior of DNA-Based Dispersions containing Carbon Nanotubes: Effects of Added Polymers and Ionic Strength on Excluded Volume. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9888-9894. | 1.5 | 25 |
| 4186 | <i>Ab-initio</i> calculations for a realistic sensor: A study of CO sensors based on nitrogen-rich carbon nanotubes. <i>AIP Advances</i> , 2012, 2, . | 0.6 | 10 |
| 4187 | Confinement Effects on Water Clusters Inside Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17019-17028. | 1.5 | 48 |
| 4188 | Variety of Bio-Hydrocarbon Precursors for the Synthesis of Carbon Nanotubes. <i>Nano Hybrids</i> , 0, 2, 43-63. | 0.3 | 27 |
| 4190 | Characterization of Nanomaterials Produced from Sugarcane Bagasse. <i>Journal of Materials Research and Technology</i> , 2012, 1, 31-34. | 2.6 | 22 |
| 4191 | Chemistry for Sustainable Development. , 2012, , . | | 24 |
| 4192 | Conjugated polyelectrolyte complexes with single-walled carbon nanotubes for amperometric detection of glucose with inherent anti-interference properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 9147. | 6.7 | 21 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4193 | Band-Gap Engineering of Carbon Nanotubes with Grain Boundaries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2271-2277. | 1.5 | 11 |
| 4194 | Complex clover cross-sectioned nanotubules exist in the structure of the first uranium borate phosphate. <i>Chemical Communications</i> , 2012, 48, 3479. | 2.2 | 25 |
| 4195 | Sequential "Click" Approach to Polyhedral Oligomeric Silsesquioxane-Based Shape Amphiphiles. <i>Macromolecules</i> , 2012, 45, 8126-8134. | 2.2 | 85 |
| 4196 | Noncovalent Functionalization of Carbon Nanotubes. , 2012, , . | | 18 |
| 4197 | Fully automatic system for producing carbon nanotubes (CNTs) by using arc-discharge technique multi electrodes. , 2012, , . | | 3 |
| 4198 | Water-Dispersible, Sulfonated Hyperbranched Poly(ether-ketone) Grafted Multiwalled Carbon Nanotubes as Oxygen Reduction Catalysts. <i>ACS Nano</i> , 2012, 6, 6345-6355. | 7.3 | 57 |
| 4199 | Fe nanoparticle-functionalized multi-walled carbon nanotubes: one-pot synthesis and their applications in magnetic removal of heavy metal ions. <i>Journal of Materials Chemistry</i> , 2012, 22, 9230. | 6.7 | 67 |
| 4200 | Single-wall carbon nanotubes as coherent plasmon generators. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 27 |
| 4201 | Carbon nanotube based anodes in a miniaturized microbial fuel cell (MFC) towards high power density and efficiency. , 2012, , . | | 0 |
| 4202 | Scalable Fabrication of Multifunctional Freestanding Carbon Nanotube/Polymer Composite Thin Films for Energy Conversion. <i>ACS Nano</i> , 2012, 6, 1347-1356. | 7.3 | 84 |
| 4203 | Porphyrin-Functionalized Single-Walled Carbon Nanotube Chemiresistive Sensor Arrays for VOCs. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3845-3850. | 1.5 | 125 |
| 4204 | On the stability of single-walled carbon nanotubes and their binding strengths. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1. | 0.5 | 7 |
| 4205 | Bifunctional effect of reduced graphene oxides to support active metal nanoparticles for oxygen reduction reaction and stability. <i>Journal of Materials Chemistry</i> , 2012, 22, 21298. | 6.7 | 106 |
| 4206 | Controllable deposition of platinum nanoparticles on polyaniline-functionalized carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2012, 22, 17196. | 6.7 | 82 |
| 4207 | Electrospun carbon nanofibrous mats surface-decorated with Pd nanoparticles via the supercritical CO ₂ method for sensing of H ₂ . <i>RSC Advances</i> , 2012, 2, 10195. | 1.7 | 6 |
| 4208 | Nanoscale Plasma Chemistry Enables Fast, Size-Selective Nanotube Nucleation. <i>Journal of the American Chemical Society</i> , 2012, 134, 4303-4312. | 6.6 | 24 |
| 4209 | Graphene and Other Nanomaterial-Based Electrochemical Aptasensors. <i>Biosensors</i> , 2012, 2, 1-14. | 2.3 | 82 |
| 4210 | Room temperature trace level detection of NO ₂ gas using SnO ₂ modified carbon nanotubes based sensor. <i>Journal of Materials Chemistry</i> , 2012, 22, 23608. | 6.7 | 106 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4211 | Effect of CNTs on precipitation hardening behavior of CNT/Al ₂ O ₃ /Cu composites. Carbon, 2012, 50, 4809-4814. | 5.4 | 87 |
| 4212 | Unique magnetic properties and magnetization reversal process of CoFe ₂ O ₄ nanotubes fabricated by electrospinning. Nanoscale, 2012, 4, 3932. | 2.8 | 70 |
| 4213 | Improving Carbon Nanotubes Sensor Time Response and Responsivity Using Constant-Power Activation. IEEE Nanotechnology Magazine, 2012, 11, 624-632. | 1.1 | 4 |
| 4214 | Potential Applications of Carbon Nanotube Arrays. Nanoscience and Technology, 2012, , 255-290. | 1.5 | 0 |
| 4215 | Loss of Proliferation and Antigen Presentation Activity following Internalization of Polydispersed Carbon Nanotubes by Primary Lung Epithelial Cells. PLoS ONE, 2012, 7, e31890. | 1.1 | 18 |
| 4216 | Hydrogen Storage for Energy Application. , 0, , . | | 21 |
| 4217 | Influence of carbon nanotube length on toxicity to zebrafish embryos. International Journal of Nanomedicine, 2012, 7, 3731. | 3.3 | 86 |
| 4218 | Study of Carbon Nanotube-Substrate Interaction. Journal of Nanotechnology, 2012, 2012, 1-10. | 1.5 | 12 |
| 4219 | Heat Dissipation Mechanism at Supported CNT-CNT Junctions. , 2012, , . | | 0 |
| 4220 | FEM MODELING OF PERIODIC ARRAYS OF MULTIWALLED CARBON NANOTUBES. Progress in Electromagnetics Research M, 2012, 22, 1-12. | 0.5 | 6 |
| 4221 | Patterning of Aligned CNT Films Using SiO ₂ Particles Monolayer as a Mask. E-Journal of Surface Science and Nanotechnology, 2012, 10, 198-202. | 0.1 | 3 |
| 4222 | SÃntese de nanotubos de carbono a partir do bagaÃço da cana-de-aÃçÃcar. Revista Escola De Minas, 2012, 65, 313-318. | 0.1 | 4 |
| 4223 | FABRICATION OF CARBON NANOTUBES ON INTER-DIGITATED METAL ELECTRODE FOR SWITCHABLE NANOPHOTONIC DEVICES. Progress in Electromagnetics Research, 2012, 127, 65-77. | 1.6 | 3 |
| 4224 | Integrated Biomimetic Carbon Nanotube Composites for Biomedical Applications. , 0, , . | | 2 |
| 4225 | Secondary electron image formation of a freestanding Î±-Si ₃ N ₄ nanobelt. Journal of Applied Physics, 2012, 111, 054316. | 1.1 | 3 |
| 4226 | Structural, electronic and photovoltaic characterization of multiwalled carbon nanotubes grown directly on stainless steel. Beilstein Journal of Nanotechnology, 2012, 3, 360-367. | 1.5 | 8 |
| 4227 | Surface morphology and electrical properties of polyurethane nanofiber webs spray- coated with carbon nanotubes. Surface and Interface Analysis, 2012, 44, 405-411. | 0.8 | 11 |
| 4228 | Fabrication and characterisation of conducting composite films based on conducting polymers and functionalised carbon nanotubes. Surface and Interface Analysis, 2012, 44, 1076-1080. | 0.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4229 | Functionalized carbon nanotube/polyacrylonitrile composite nanofibers: fabrication and properties. <i>Polymers for Advanced Technologies</i> , 2012, 23, 262-271. | 1.6 | 24 |
| 4230 | Mechanical, thermal, and rheological behavior of ethylene methyl acrylate/MWNT nanocomposites. <i>Polymer Engineering and Science</i> , 2012, 52, 277-288. | 1.5 | 1 |
| 4231 | Carbon Nanomaterials for Advanced Energy Conversion and Storage. <i>Small</i> , 2012, 8, 1130-1166. | 5.2 | 1,304 |
| 4232 | Towards nano-organic chemistry: perspectives for a bottom-up approach to the synthesis of low-dimensional carbon nanostructures. <i>Nanoscale</i> , 2012, 4, 369-379. | 2.8 | 27 |
| 4233 | Explicit solutions for a SWCNT collapse. <i>Archive of Applied Mechanics</i> , 2012, 82, 767-776. | 1.2 | 20 |
| 4234 | Ultrastrong, Foldable, and Highly Conductive Carbon Nanotube Film. <i>ACS Nano</i> , 2012, 6, 5457-5464. | 7.3 | 153 |
| 4235 | Closed network growth of fullerenes. <i>Nature Communications</i> , 2012, 3, 855. | 5.8 | 157 |
| 4236 | Ultrasonication induced adsorption of carbon nanotubes onto electrospun nanofibers with improved thermal and electrical performances. <i>Journal of Materials Chemistry</i> , 2012, 22, 10867. | 6.7 | 40 |
| 4237 | Interfacial interaction of gas molecules and single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2012, 100, . | 1.5 | 10 |
| 4238 | Zippered release from polymer-gated carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2012, 22, 11503. | 6.7 | 17 |
| 4239 | <i>Chemical Techniques</i> , 2012, , 35-204. | | 2 |
| 4240 | Hydrogen Storage in Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2012, 112, 782-835. | 23.0 | 3,283 |
| 4241 | Ultrafast Relaxation Dynamics via Acoustic Phonons in Carbon Nanotubes. <i>Nano Letters</i> , 2012, 12, 2249-2253. | 4.5 | 22 |
| 4242 | New-Type Planar Field Emission Display with Superaligned Carbon Nanotube Yarn Emitter. <i>Nano Letters</i> , 2012, 12, 2391-2396. | 4.5 | 87 |
| 4243 | Magnetic-field-induced diameter-selective synthesis of single-walled carbon nanotubes. <i>Nanoscale</i> , 2012, 4, 1717. | 2.8 | 17 |
| 4244 | Highly efficient fluorescent multi-walled carbon nanotubes functionalized with diamines and amides. <i>Journal of Materials Chemistry</i> , 2012, 22, 11912. | 6.7 | 30 |
| 4245 | Controllable photoelectron transfer in CdSe nanocrystal-carbon nanotube hybrid structures. <i>Nanoscale</i> , 2012, 4, 742-746. | 2.8 | 15 |
| 4246 | Fabrication of Chitosan-Multiwall Carbon Nanotube Nanocomposite Containing Ferri/Ferrocyanide: Application for Simultaneous Detection of D-Penicillamine and Tryptophan. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 1461-1467. | 0.8 | 30 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4247 | Preparation of cyano-functionalized multiwalled carbon nanotubes as solid-phase extraction sorbent for preconcentration of phenolic compounds in environmental water. <i>Journal of Separation Science</i> , 2012, 35, 1967-1976. | 1.3 | 23 |
| 4248 | Influence of SWNTs on the Preferential Alignment of Molecular Moieties in PVA Fibers. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 617-626. | 1.1 | 13 |
| 4249 | Ethylene-Norbornene Copolymers Grafted Carbon Nanotube Composites by In Situ Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 627-634. | 1.1 | 9 |
| 4250 | The Effect of Melt Extrusion Process Parameters on Rotary-Evaporated Poly(propylene) Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 864-874. | 1.7 | 0 |
| 4251 | From "Strong" to "Much Stronger": Utilization of Green Tea Extract Dispersant for SWCNT-Reinforced Polymer Composites. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1114-1123. | 1.7 | 5 |
| 4252 | Electrical transport properties of the composite of multiwall carbon nanotube-poly pyrrole-polyvinyl alcohol below room temperature. <i>Polymer Composites</i> , 2012, 33, 343-352. | 2.3 | 18 |
| 4253 | Carbon nanotubes grafting PBO fiber: A study on the interfacial properties of epoxy composites. <i>Polymer Composites</i> , 2012, 33, 927-932. | 2.3 | 16 |
| 4254 | Nitrogen-Doped Carbon Hollow Spheres for Immobilization, Direct Electrochemistry, and Biosensing of Protein. <i>Electroanalysis</i> , 2012, 24, 1424-1430. | 1.5 | 19 |
| 4255 | Toxicity of carbon nanotubes to freshwater aquatic invertebrates. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 1823-1830. | 2.2 | 63 |
| 4256 | Thermal conductivity of carbon nanotube nanofluid—Experimental and theoretical study. <i>Heat Transfer - Asian Research</i> , 2012, 41, 145-163. | 2.8 | 54 |
| 4257 | High Selectivity cum Yield Gel Electrophoresis Separation of Single-Walled Carbon Nanotubes Using a Chemically Selective Polymer Dispersant. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10266-10273. | 1.5 | 29 |
| 4258 | A facile and ecofriendly functionalization of multiwalled carbon nanotubes by an old mesoionic compound. <i>Chemical Communications</i> , 2012, 48, 6836. | 2.2 | 52 |
| 4259 | Nanochannels: biological channel analogues. <i>IET Nanobiotechnology</i> , 2012, 6, 63. | 1.9 | 6 |
| 4260 | Transient Absorption Spectroscopy and Imaging of Individual Chirality-Assigned Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 5083-5090. | 7.3 | 41 |
| 4261 | Adsorption uptake of synthetic organic chemicals by carbon nanotubes and activated carbons. <i>Nanotechnology</i> , 2012, 23, 294008. | 1.3 | 58 |
| 4262 | Wavy Ribbons of Carbon Nanotubes for Stretchable Conductors. <i>Advanced Functional Materials</i> , 2012, 22, 1279-1283. | 7.8 | 221 |
| 4263 | CNTs in Optoelectronic Devices: New Structural and Photophysical Insights on Porphyrin-DWCNTs Hybrid Materials. <i>Advanced Functional Materials</i> , 2012, 22, 3209-3222. | 7.8 | 28 |
| 4264 | Electrically Tunable Nanoporous Carbon Hybrid Actuators. <i>Advanced Functional Materials</i> , 2012, 22, 3029-3034. | 7.8 | 39 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4265 | Extrusion Printing of Flexible Electrically Conducting Carbon Nanotube Networks. <i>Advanced Functional Materials</i> , 2012, 22, 4790-4800. | 7.8 | 60 |
| 4266 | Carbon Nanotubes Induce Bone Calcification by Bidirectional Interaction with Osteoblasts. <i>Advanced Materials</i> , 2012, 24, 2176-2185. | 11.1 | 63 |
| 4267 | Patterned Functional Carbon Fibers from Polyethylene. <i>Advanced Materials</i> , 2012, 24, 2386-2389. | 11.1 | 78 |
| 4268 | State of the Art of Carbon Nanotube Fibers: Opportunities and Challenges. <i>Advanced Materials</i> , 2012, 24, 1805-1833. | 11.1 | 460 |
| 4269 | Binder-free LiCoO ₂ /Carbon Nanotube Cathodes for High-Performance Lithium Ion Batteries. <i>Advanced Materials</i> , 2012, 24, 2294-2298. | 11.1 | 271 |
| 4270 | Can Nanotubes Make a Lens Array?. <i>Advanced Materials</i> , 2012, 24, OP170-3. | 11.1 | 28 |
| 4271 | Superstretchable Spring-Like Carbon Nanotube Ropes. <i>Advanced Materials</i> , 2012, 24, 2896-2900. | 11.1 | 193 |
| 4272 | Hybrid Nanoparticles for Detection and Treatment of Cancer. <i>Advanced Materials</i> , 2012, 24, 3779-3802. | 11.1 | 406 |
| 4274 | Building Bio-Inspired Artificial Functional Nanochannels: From Symmetric to Asymmetric Modification. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5296-5307. | 7.2 | 228 |
| 4275 | Synthesis and characterization of conducting poly(3-acetylpyrrole)/carbon nanotube composites. <i>Journal of Applied Polymer Science</i> , 2012, 125, 3956-3962. | 1.3 | 5 |
| 4276 | Fabrication of water-soluble polyaniline/poly(ethylene oxide)/carbon nanotube electrospun fibers. <i>Journal of Applied Polymer Science</i> , 2012, 126, E123. | 1.3 | 31 |
| 4277 | Surface-Grafted Polymer-Assisted Electroless Deposition of Metals for Flexible and Stretchable Electronics. <i>Chemistry - an Asian Journal</i> , 2012, 7, 862-870. | 1.7 | 61 |
| 4278 | Wintersweet-Flower-Like CoFe ₂ O ₄ /MWCNTs Hybrid Material for High-Capacity Reversible Lithium Storage. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1940-1946. | 1.7 | 50 |
| 4279 | Probing the Structure of Lysozyme-Carbon Nanotube Hybrids with Molecular Dynamics. <i>Chemistry - A European Journal</i> , 2012, 18, 4308-4313. | 1.7 | 84 |
| 4280 | Self-Assembled Organic Nanotubes through Instant Gelation and Universal Capacity for Guest Molecule Encapsulation. <i>Chemistry - A European Journal</i> , 2012, 18, 5546-5550. | 1.7 | 52 |
| 4281 | Click-on Tubes: a Versatile Approach towards Multimodal Functionalization of SWCNTs. <i>Chemistry - A European Journal</i> , 2012, 18, 8454-8463. | 1.7 | 32 |
| 4282 | Optimisation of reaction conditions for the synthesis of single-walled carbon nanotubes using response surface methodology. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 489-505. | 0.9 | 18 |
| 4283 | On the Configuration of Supercapacitors for Maximizing Electrochemical Performance. <i>ChemSusChem</i> , 2012, 5, 818-841. | 3.6 | 429 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4284 | Viscoelastic Properties of Water Suspensions of Polymer Nanofibers Synthesized via RAFT-Mediated Emulsion Polymerization. <i>Macromolecules</i> , 2012, 45, 5273-5280. | 2.2 | 45 |
| 4285 | Endohedral and exohedral hybrids involving fullerenes and carbon nanotubes. <i>Nanoscale</i> , 2012, 4, 4370. | 2.8 | 44 |
| 4286 | Edge effects control helical wrapping of carbon nanotubes by polysaccharides. <i>Nanoscale</i> , 2012, 4, 2584. | 2.8 | 28 |
| 4287 | Fabrication and processing of high-strength densely packed carbon nanotube yarns without solution processes. <i>Nanoscale</i> , 2012, 4, 3389. | 2.8 | 36 |
| 4288 | Fundamental Structural, Electronic, and Chemical Properties of Carbon Nanostructures: Graphene, Fullerenes, Carbon Nanotubes, and Their Derivatives. , 2012, , 793-867. | | 17 |
| 4289 | Electrical percolation networks of carbon nanotubes in a shear flow. <i>Physical Review E</i> , 2012, 85, 011143. | 0.8 | 24 |
| 4290 | Dynamic Evolution of Supported Metal Nanocatalyst/Carbon Structure during Single-Walled Carbon Nanotube Growth. <i>ACS Nano</i> , 2012, 6, 720-735. | 7.3 | 55 |
| 4291 | Synthesis of Carbon Nanotube-Inorganic Hybrid Nanocomposites: An Instructional Experiment in Nanomaterials Chemistry. <i>Journal of Chemical Education</i> , 2012, 89, 280-283. | 1.1 | 14 |
| 4292 | Dielectric screening effects on transition energies in aligned carbon nanotubes. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 17 |
| 4293 | Synthesis, properties and water permeability of SWNT buckypapers. <i>Journal of Materials Chemistry</i> , 2012, 22, 13800. | 6.7 | 41 |
| 4294 | Controlled synthesis of multi-morphology Te crystals by a convenient Lewis acid/base-assisted solvothermal method. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1. | 0.8 | 15 |
| 4295 | Carbon Nanotubes Applications: Solar and Fuel Cells, Hydrogen Storage, Lithium Batteries, Supercapacitors, Nanocomposites, Gas, Pathogens, Dyes, Heavy Metals and Pesticides. <i>Environmental Chemistry for A Sustainable World</i> , 2012, , 3-46. | 0.3 | 13 |
| 4296 | A Facile, One-Step Nanocarbon Functionalization for Biomedical Applications. <i>Nano Letters</i> , 2012, 12, 3613-3620. | 4.5 | 82 |
| 4297 | Direct-write maskless lithography of LBL nanocomposite films and its prospects for MEMS technologies. <i>Nanoscale</i> , 2012, 4, 4393. | 2.8 | 32 |
| 4298 | Electrochemical detection of dopamine with poly-glutamic acid patterned carbon nanotube electrodes. <i>Biochip Journal</i> , 2012, 6, 149-156. | 2.5 | 27 |
| 4299 | Influences of tensile drawing on structures, mechanical, and electrical properties of wet-spun multi-walled carbon nanotube composite fiber. <i>Macromolecular Research</i> , 2012, 20, 650-657. | 1.0 | 15 |
| 4300 | Patterning of carbon nanotube structures by inkjet printing of catalyst. <i>Journal of Materials Science</i> , 2012, 47, 5760-5765. | 1.7 | 9 |
| 4301 | Synthesis of straight multi-walled carbon nanotubes by arc discharge in air and their field emission properties. <i>Journal of Materials Science</i> , 2012, 47, 6535-6541. | 1.7 | 26 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4302 | Production of empty and iron-filled multiwalled carbon nanotubes from iron-phthalocyanine polymer and their electromagnetic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 921-927. | 1.1 | 3 |
| 4303 | Multiwalled carbon nanotubes decorated with nitrogen, palladium co-doped TiO ₂ (MWCNT/N, Pd) Tj ETQq1 1 0.784314 rgBT /Overlook Nanoparticle Research, 2012, 14, 1. | 0.8 | 48 |
| 4304 | Removal of Bisphenol A and 17 β -Estradiol by Single-Walled Carbon Nanotubes in Aqueous Solution: Adsorption and Molecular Modeling. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3281-3293. | 1.1 | 79 |
| 4305 | Tuning periodicity of polymer-decorated carbon nanotubes. <i>Science China Chemistry</i> , 2012, 55, 802-807. | 4.2 | 8 |
| 4306 | An introduction to molecular spintronics. <i>Science China Chemistry</i> , 2012, 55, 867-882. | 4.2 | 34 |
| 4307 | Effects of size and surface modification of multi-walled carbon nanotubes on mechanical properties of polyurethane-based nanocomposites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 608-614. | 0.4 | 10 |
| 4308 | Strengthening mechanisms in carbon nanotube reinforced bioglass composites. <i>Frontiers of Chemical Science and Engineering</i> , 2012, 6, 126-131. | 2.3 | 14 |
| 4309 | Nonlinear vibration and rippling instability for embedded carbon nanotubes. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 985-992. | 0.7 | 17 |
| 4310 | Predictive carbon nanotube models using the eigenvector dimension reduction (EDR) method. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 1089-1097. | 0.7 | 5 |
| 4311 | Effects of wet-spinning conditions on structures, mechanical and electrical properties of multi-walled carbon nanotube composite fibers. <i>Fibers and Polymers</i> , 2012, 13, 443-449. | 1.1 | 13 |
| 4312 | Preparation of multi-walled carbon nanotube-reinforced TiNi matrix composites from elemental powders by spark plasma sintering. <i>Rare Metals</i> , 2012, 31, 48-50. | 3.6 | 31 |
| 4313 | Fabrication and thermal conductivity of copper matrix composites reinforced by tungsten-coated carbon nanotubes. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 446-452. | 2.4 | 31 |
| 4314 | Transparent conducting hybrid thin films fabricated by layer-by-layer assembly of single-wall carbon nanotubes and conducting polymers. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 305-311. | 1.1 | 11 |
| 4315 | Chemical bonding assisted damage production in single-walled carbon nanotubes induced by low-energy ions. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 313-320. | 1.1 | 7 |
| 4316 | Dispersion of multi-wall carbon nanotubes by an ionic liquid-based polyether in aqueous solution. <i>Colloid and Polymer Science</i> , 2012, 290, 757-762. | 1.0 | 16 |
| 4317 | Sensitive voltammetric sensor of dihydromyricetin based on Nafion/SWNT-modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1473-1480. | 1.2 | 11 |
| 4318 | Electropolymerized composite film of polypyrrole and functionalized multi-walled carbon nanotubes: effect of functionalization time on capacitive performance. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1781-1789. | 1.2 | 28 |
| 4319 | Nanostructured Fe ₂ O ₃ -graphene composite as a novel electrode material for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2095-2102. | 1.2 | 174 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4320 | Sensitive voltammetric determination of rutin at a carbon nanotubes-ionic liquid composite electrode. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2815-2821. | 1.2 | 27 |
| 4321 | Nanomaterial-Based Biosensor as an Emerging Tool for Biomedical Applications. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1384-1397. | 1.3 | 80 |
| 4322 | Amperometric immunosensor for the detection of <i>Escherichia coli</i> O157:H7 in food specimens. <i>Analytical Biochemistry</i> , 2012, 421, 227-233. | 1.1 | 74 |
| 4323 | Surface modifications for the effective dispersion of carbon nanotubes in solvents and polymers. <i>Carbon</i> , 2012, 50, 3-33. | 5.4 | 608 |
| 4324 | ZnO decorated luminescent graphene as a potential gas sensor at room temperature. <i>Carbon</i> , 2012, 50, 385-394. | 5.4 | 335 |
| 4325 | A multi-walled carbon nanotube/polymer actuator that surpasses the performance of a single-walled carbon nanotube/polymer actuator. <i>Carbon</i> , 2012, 50, 311-320. | 5.4 | 52 |
| 4326 | Field emission of ribonucleic acidâ€“carbon nanotube films prepared by electrophoretic deposition. <i>Carbon</i> , 2012, 50, 845-850. | 5.4 | 15 |
| 4327 | In situ formation of noble metal nanoparticles on multiwalled carbon nanotubes and its implication in metalâ€“nanotube interactions. <i>Carbon</i> , 2012, 50, 875-884. | 5.4 | 40 |
| 4328 | The influence of bimetallic catalyst composition on single-walled carbon nanotube yield. <i>Carbon</i> , 2012, 50, 1044-1050. | 5.4 | 17 |
| 4329 | Increased response/recovery lifetimes and reinforcement of polyaniline nanofiber films using carbon nanotubes. <i>Carbon</i> , 2012, 50, 1447-1454. | 5.4 | 29 |
| 4330 | Electrical and mechanical characteristics of buckypapers and evaporative cast films prepared using single and multi-walled carbon nanotubes and the biopolymer carrageenan. <i>Carbon</i> , 2012, 50, 1197-1208. | 5.4 | 41 |
| 4331 | Stability of multi-walled carbon nanotubes in commonly used acidic media. <i>Carbon</i> , 2012, 50, 1465-1476. | 5.4 | 48 |
| 4332 | Parametric study of intrinsic thermal transport in vertically aligned multi-walled carbon nanotubes using a laser flash technique. <i>Carbon</i> , 2012, 50, 1591-1603. | 5.4 | 63 |
| 4333 | Bending single-walled carbon nanotubes into nanorings using a Pickering emulsion-based process. <i>Carbon</i> , 2012, 50, 1769-1775. | 5.4 | 43 |
| 4334 | A theoretical evaluation of the effects of carbon nanotube entanglement and bundling on the structural and mechanical properties of buckypaper. <i>Carbon</i> , 2012, 50, 1793-1806. | 5.4 | 97 |
| 4335 | Superior performance of non-activated multi-walled carbon nanotube polymer actuator containing ruthenium oxide over a single-walled carbon nanotube. <i>Carbon</i> , 2012, 50, 1888-1896. | 5.4 | 25 |
| 4336 | High-current field emission of point-type carbon nanotube emitters on Ni-coated metal wires. <i>Carbon</i> , 2012, 50, 2126-2133. | 5.4 | 22 |
| 4337 | Adsorption of perchlorate onto raw and oxidized carbon nanotubes in aqueous solution. <i>Carbon</i> , 2012, 50, 2209-2219. | 5.4 | 77 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4338 | Synergistic strengthening by load transfer mechanism and grain refinement of CNT/Al ₂ O ₃ /Cu composites. Carbon, 2012, 50, 2417-2423. | 5.4 | 233 |
| 4339 | A review of strategies for improving the degradation properties of laminated continuous-fiber/epoxy composites with carbon-based nanoreinforcements. Carbon, 2012, 50, 2377-2395. | 5.4 | 203 |
| 4340 | Transmission electron microscopy study of the microstructure of carbon/carbon composites reinforced with in situ grown carbon nanofibers. Carbon, 2012, 50, 2424-2430. | 5.4 | 23 |
| 4341 | On the interaction of polycyclic aromatic compounds with graphene. Carbon, 2012, 50, 2482-2492. | 5.4 | 66 |
| 4342 | Preparation of a carbon nanotube-copper nanoparticle hybrid by chemical reduction for use in the electrochemical sensing of carbohydrates. Carbon, 2012, 50, 2563-2570. | 5.4 | 45 |
| 4343 | Stabilization and dispersion of PtRu and Pt nanoparticles on multiwalled carbon nanotubes using phosphomolybdic acid, and the use of the resulting materials in a direct methanol fuel cell. Carbon, 2012, 50, 3083-3091. | 5.4 | 42 |
| 4344 | Tailoring the chemo-resistive response of self-assembled polysaccharide-CNT sensors by chain conformation at tunnel junctions. Carbon, 2012, 50, 3627-3634. | 5.4 | 38 |
| 4345 | Using bent carbon nanotubes for the fabrication of electromechanical switches. Carbon, 2012, 50, 3635-3640. | 5.4 | 9 |
| 4346 | The effect of incorporating carbon nanotubes in titania films used for the photocathode protection of 304 stainless steel. Carbon, 2012, 50, 3641-3648. | 5.4 | 28 |
| 4347 | Chiral-selective growth of single-walled carbon nanotubes on stainless steel wires. Carbon, 2012, 50, 4294-4297. | 5.4 | 28 |
| 4348 | Chemical-free synthesis of graphene-carbon nanotube hybrid materials for reversible lithium storage in lithium-ion batteries. Carbon, 2012, 50, 4557-4565. | 5.4 | 106 |
| 4349 | Fabrication and mechanical properties of carbon nanotube yarns spun from ultra-long multi-walled carbon nanotube arrays. Carbon, 2012, 50, 4579-4587. | 5.4 | 82 |
| 4350 | Water assisted synthesis of double-walled carbon nanotubes with a narrow diameter distribution from methane over a Co-Mo/MgO catalyst. Catalysis Today, 2012, 183, 26-33. | 2.2 | 23 |
| 4351 | Microstructure and physicomechanical properties of pressureless sintered multiwalled carbon nanotube/alumina nanocomposites. Ceramics International, 2012, 38, 423-432. | 2.3 | 60 |
| 4352 | In situ growth of carbon nanotubes in alumina-zirconia nanocomposite matrix prepared by solution combustion method. Ceramics International, 2012, 38, 3273-3280. | 2.3 | 9 |
| 4353 | Microstructural evolution of multi-walled carbon nanotubes in the presence of mixture of silicon and silica powders at high temperatures. Ceramics International, 2012, 38, 4105-4110. | 2.3 | 9 |
| 4354 | Multiscale analysis of the core nanotube in a nanocomposite system. Finite Elements in Analysis and Design, 2012, 49, 13-18. | 1.7 | 11 |
| 4355 | Study of gas transport properties of multi-walled carbon nanotubes/polystyrene composite membranes. International Journal of Hydrogen Energy, 2012, 37, 3914-3921. | 3.8 | 25 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4356 | Roles of Pb and MnO _x in PtPb/MnO _x -CNTs catalyst for methanol electro-oxidation. International Journal of Hydrogen Energy, 2012, 37, 1263-1271. | 3.8 | 36 |
| 4357 | Electrical resistance change and crack behavior in carbon nanotube/polymer composites under tensile loading. Composites Part B: Engineering, 2012, 43, 39-43. | 5.9 | 59 |
| 4358 | Electrochemical investigation of galvanic corrosion between aluminum 7075 and glass fiber/epoxy composites modified with carbon nanotubes. Composites Part B: Engineering, 2012, 43, 183-194. | 5.9 | 37 |
| 4359 | Temperature effects on wave propagation in nanoplates. Composites Part B: Engineering, 2012, 43, 1275-1281. | 5.9 | 43 |
| 4360 | Fabrication and evaluation of polyamide 6 composites with electrospun polyimide nanofibers as skeletal framework. Composites Part B: Engineering, 2012, 43, 2382-2388. | 5.9 | 44 |
| 4361 | Modeling the effect of statistical variations in length and diameter of randomly oriented CNTs on the properties of CNT reinforced nanocomposites. Composites Part B: Engineering, 2012, 43, 1756-1762. | 5.9 | 35 |
| 4362 | Study of the mechanical, electrical and morphological properties of PU/MWCNT composites obtained by two different processing routes. Composites Science and Technology, 2012, 72, 235-242. | 3.8 | 40 |
| 4363 | Influence of oxygen on the microstructural growth of SiC nanowires. Chemical Physics Letters, 2012, 531, 138-142. | 1.2 | 12 |
| 4364 | N-SWCNTs production by aerosol-assisted CVD method. Chemical Physics Letters, 2012, 538, 108-111. | 1.2 | 16 |
| 4365 | Metallic and carbonaceous α -based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon production. International Journal of Hydrogen Energy, 2012, 37, 9645-9655. | 3.8 | 34 |
| 4366 | Effect of C-felt supported Ni, Co and NiCo catalysts to produce hydrogen. International Journal of Hydrogen Energy, 2012, 37, 9470-9476. | 3.8 | 52 |
| 4367 | Platinum-encapsulated zeolitically microcapsular catalyst for one-pot dynamic kinetic resolution of phenylethylamine. Journal of Catalysis, 2012, 291, 87-94. | 3.1 | 33 |
| 4368 | Controlling the density and site of attachment of gold nanoparticles onto the surface of carbon nanotubes. Journal of Colloid and Interface Science, 2012, 369, 23-27. | 5.0 | 19 |
| 4369 | Electrochemical fabrication, characterization and application of carboxylic multi-walled carbon nanotube modified composite pencil graphite electrodes. Electrochimica Acta, 2012, 65, 257-265. | 2.6 | 40 |
| 4370 | Characterization of 2,(3)-tetra-(4-oxo-benzamide) phthalocyaninato cobalt (II)-Single walled carbon nanotube conjugate platforms and their use in electrocatalysis of amitrole. Electrochimica Acta, 2012, 68, 44-51. | 2.6 | 20 |
| 4371 | Electrochemical behavior of a carbon paste electrode modified with 5-amino-3,4-dimethyl-biphenyl-2-ol/carbon nanotube and its application for simultaneous determination of isoproterenol, acetaminophen and N-acetylcysteine. Electrochimica Acta, 2012, 68, 220-226. | 2.6 | 115 |
| 4372 | Interactions of ¹⁴ C-labeled multi-walled carbon nanotubes with soil minerals in water. Environmental Pollution, 2012, 166, 75-81. | 3.7 | 65 |
| 4373 | Cisplatin@US-tube carbon nanocapsules for enhanced chemotherapeutic delivery. Biomaterials, 2012, 33, 1455-1461. | 5.7 | 91 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4374 | Low potential detection of NADH based on Fe ₃ O ₄ nanoparticles/multiwalled carbon nanotubes composite: Fabrication of integrated dehydrogenase-based lactate biosensor. <i>Biosensors and Bioelectronics</i> , 2012, 33, 60-68. | 5.3 | 133 |
| 4375 | Nanocomposite building blocks of TiO ₂ @MWCNTf and ZrO ₂ @MWCNTf. <i>Materials Characterization</i> , 2012, 64, 96-106. | 1.9 | 10 |
| 4376 | Effect of neodymium doping on structure, electrical and optical properties of nanocrystalline ZnO. <i>Materials Characterization</i> , 2012, 70, 1-7. | 1.9 | 76 |
| 4377 | Toxicity mechanism of carbon nanotubes on <i>Escherichia coli</i> . <i>Materials Chemistry and Physics</i> , 2012, 134, 279-286. | 2.0 | 26 |
| 4378 | Oxygen plasma assisted end-opening and field emission enhancement in vertically aligned multiwall carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2012, 134, 425-429. | 2.0 | 18 |
| 4379 | One-step synthesis of carbon nanotubes@copper composites for fabricating catalyst supports of methanol electrooxidation. <i>Materials Chemistry and Physics</i> , 2012, 135, 137-143. | 2.0 | 5 |
| 4380 | Effect of straight and wavy carbon nanotube on the reinforcement modulus in nonlinear elastic matrix nanocomposites. <i>Materials & Design</i> , 2012, 34, 603-608. | 5.1 | 31 |
| 4381 | Preparation and characterization of carbon nanotube-hybridized carbon fiber to reinforce epoxy composite. <i>Materials & Design</i> , 2012, 33, 197-202. | 5.1 | 147 |
| 4382 | Influence of multiwall carbon nanotubes on the morphology, melting, crystallization and mechanical properties of polyamide 6/acrylonitrile-butadiene-styrene blends. <i>Materials & Design</i> , 2012, 34, 355-362. | 5.1 | 62 |
| 4383 | Electromagnetic and microwave-absorbing properties of magnetite decorated multiwalled carbon nanotubes prepared with poly(N-vinyl-2-pyrrolidone). <i>Materials Research Bulletin</i> , 2012, 47, 217-221. | 2.7 | 24 |
| 4384 | Thermoelectric behaviour of melt processed carbon nanotube/graphite/poly(lactic acid) conductive biopolymer nanocomposites (CPC). <i>Materials Letters</i> , 2012, 67, 210-214. | 1.3 | 88 |
| 4385 | Manipulation of NIH3T3 cells with functionalized single-walled carbon nanotubes under a magnetic field. <i>Materials Letters</i> , 2012, 68, 378-381. | 1.3 | 8 |
| 4386 | Fast functionalization of vertically aligned multiwalled carbon nanotubes using oxygen plasma. <i>Materials Letters</i> , 2012, 70, 89-93. | 1.3 | 87 |
| 4387 | XANES study of multi-walled carbon nanotubes modified by HNO ₃ vapor. <i>Materials Letters</i> , 2012, 72, 131-133. | 1.3 | 4 |
| 4388 | Magnetic enhancement of thermal conductivity in copper-carbon nanotube composites produced by electroless plating, freeze drying, and spark plasma sintering. <i>Materials Letters</i> , 2012, 79, 256-258. | 1.3 | 49 |
| 4389 | Production of palladium nanoparticles supported on multiwalled carbon nanotubes by gamma irradiation. <i>Radiation Physics and Chemistry</i> , 2012, 81, 16-21. | 1.4 | 55 |
| 4390 | A temperature sensor based on a MWCNT/SEBS nanocomposite. <i>Sensors and Actuators A: Physical</i> , 2012, 178, 94-99. | 2.0 | 101 |
| 4391 | Carbon nanotube polymer coatings for textile yarns with good strain sensing capability. <i>Sensors and Actuators A: Physical</i> , 2012, 179, 83-91. | 2.0 | 125 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4392 | High performance polymer actuators based on multi-walled carbon nanotubes that surpass the performance of those containing single-walled carbon nanotubes: Effects of ionic liquid and composition. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 20-28. | 4.0 | 26 |
| 4393 | An electrochemical biosensor for determination of ascorbic acid by cobalt (II) phthalocyanineâ€“multi-walled carbon nanotubes modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 1074-1079. | 4.0 | 108 |
| 4394 | High concentration nitrogen doped carbon nanotube anodes with superior Li ⁺ storage performance for lithium rechargeable battery application. <i>Journal of Power Sources</i> , 2012, 197, 238-245. | 4.0 | 158 |
| 4395 | Nanotextured gold coatings on carbon nanofiber scaffolds as ultrahigh surface-area electrodes. <i>Journal of Power Sources</i> , 2012, 198, 393-401. | 4.0 | 22 |
| 4396 | Novel positive electrode architecture for rechargeable lithium/sulfur batteries. <i>Journal of Power Sources</i> , 2012, 211, 19-26. | 4.0 | 113 |
| 4397 | Static bending behaviors of nanoplate embedded in elastic matrix with small scale effects. <i>Mechanics Research Communications</i> , 2012, 41, 44-48. | 1.0 | 37 |
| 4398 | Temperature and load dependent mechanical properties of pressureless sintered carbon nanotube/alumina nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 531, 61-69. | 2.6 | 35 |
| 4399 | Microstructures and mechanical properties of Al ₂ O ₃ -C refractories with addition of multi-walled carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 548, 134-141. | 2.6 | 62 |
| 4400 | Measurement of contact resistance of multiwall carbon nanotubes by electrical contact using a focused ion beam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 272, 169-172. | 0.6 | 24 |
| 4401 | Development of a fast-response/high-sensitivity double wall carbon nanotube nanostructured hydrogen sensor. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 97-106. | 4.0 | 44 |
| 4402 | A simple strategy based on lanthanumâ€“multiwalled carbon nanotube nanocomposites for simultaneous determination of ascorbic acid, dopamine, uric acid and nitrite. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 601-607. | 4.0 | 96 |
| 4403 | Fabrication of high-quality carbon nanotube fibers for optoelectronic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012, 97, 78-82. | 3.0 | 14 |
| 4404 | Simulation of the first growth phase of single-walled carbon nanotubes using a model based on a cellular automaton. <i>Solid State Communications</i> , 2012, 152, 41-44. | 0.9 | 4 |
| 4405 | Synthesis, electrical and magnetotransport properties of polypyrrole-MWCNT nanocomposite. <i>Solid State Communications</i> , 2012, 152, 13-18. | 0.9 | 37 |
| 4406 | Niâ€“P-multiwalled carbon nanotubes composite coatings prepared by mechanical attrition (MA)-assisted electroless plating. <i>Surface and Coatings Technology</i> , 2012, 206, 2774-2779. | 2.2 | 13 |
| 4407 | Influence of reaction parameters on the attachment of a carbon nanofiber layer on Ni foils. <i>Surface and Coatings Technology</i> , 2012, 206, 3366-3373. | 2.2 | 3 |
| 4408 | Carbon nanotubes/ceria composite layers deposited on surface acoustic wave devices for gas detection at room temperature. <i>Thin Solid Films</i> , 2012, 520, 4786-4791. | 0.8 | 19 |
| 4409 | Deposition and structural characterization of nanostructured RuO ₂ on rutile-TiO ₂ /sapphire(100) templates by reactive radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2012, 520, 2810-2813. | 0.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4410 | Vertically aligned one-dimensional AlN nanostructures on conductive substrates: Synthesis and field emission. <i>Vacuum</i> , 2012, 86, 833-837. | 1.6 | 10 |
| 4411 | The Luttinger-liquid behavior in single-walled carbon nanotube networks. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 997-1001. | 1.3 | 7 |
| 4412 | Optical absorption of charged excitons in semiconducting carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 936-939. | 1.3 | 3 |
| 4413 | Humidity effects on the electronic transport properties in carbon based nanoscale device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 869-874. | 0.9 | 5 |
| 4414 | Carbon nanotubes: Amino functionalization and its application in the fabrication of Al-matrix composites. <i>Powder Technology</i> , 2012, 215-216, 254-263. | 2.1 | 47 |
| 4415 | Advanced polyimide materials: Syntheses, physical properties and applications. <i>Progress in Polymer Science</i> , 2012, 37, 907-974. | 11.8 | 1,666 |
| 4416 | Life cycle assessment as a tool to enhance the environmental performance of carbon nanotube products: a review. <i>Journal of Cleaner Production</i> , 2012, 26, 37-47. | 4.6 | 106 |
| 4417 | Multi-wall carbon nanotubes (MWCNTs)â€SiC composites by laminated technology. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1419-1425. | 2.8 | 20 |
| 4418 | Towards physical properties tailoring of carbon nanotubes-reinforced ceramic matrix composites. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3001-3020. | 2.8 | 193 |
| 4419 | On the Spreading Resistance of Thin-Film Contacts. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 1936-1940. | 1.6 | 42 |
| 4420 | Carbon nanotubes in capillary electrophoresis, capillary electrochromatography and microchip electrophoresis. <i>Open Chemistry</i> , 2012, 10, 785-801. | 1.0 | 15 |
| 4421 | Peculiarities of Raman spectra of polyurethane/carbon nanotube composite. <i>European Physical Journal B</i> , 2012, 85, 1. | 0.6 | 14 |
| 4422 | A Strategy for the High Dispersion of PtRu Nanoparticles onto Carbon Nanotubes and Their Electrocatalytic Oxidation of Methanol. <i>Chemistry - A European Journal</i> , 2012, 18, 1522-1527. | 1.7 | 31 |
| 4423 | Lennardâ€Jones parameters for small diameter carbon nanotubes and water for molecular mechanics simulations from van der Waals density functional calculations. <i>Journal of Computational Chemistry</i> , 2012, 33, 652-658. | 1.5 | 31 |
| 4424 | Polyglycerolâ€Derived Amphiphiles for the Solubilization of Singleâ€Walled Carbon Nanotubes in Water: A Structureâ€Property Study. <i>ChemPhysChem</i> , 2012, 13, 203-211. | 1.0 | 27 |
| 4425 | Nitrogenâ€Doped Carbon Nanotubes as a Highly Active Metalâ€Free Catalyst for Selective Oxidation. <i>ChemSusChem</i> , 2012, 5, 102-108. | 3.6 | 162 |
| 4426 | Remote Plasmaâ€Assisted CVD Growth of Carbon Nanotubes in an Optimised Rapid Thermal Reactor. <i>Chemical Vapor Deposition</i> , 2012, 18, 17-21. | 1.4 | 3 |
| 4427 | Dehydrogenaseâ€Based Reagentless Biosensors: Electrochemically Assisted Deposition of Solâ€Gel Thin Films on Functionalized Carbon Nanotubes. <i>Electroanalysis</i> , 2012, 24, 376-385. | 1.5 | 27 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 4428 | Buckling of Aligned Carbon Nanotubes as Stretchable Conductors: A New Manufacturing Strategy. <i>Advanced Materials</i> , 2012, 24, 1073-1077. | 11.1 | 158 |
| 4429 | Mechanical and thermal properties of polyphenylene sulfide/multiwalled carbon nanotube composites. <i>Journal of Applied Polymer Science</i> , 2012, 123, 2676-2683. | 1.3 | 34 |
| 4430 | Freestanding single-walled carbon nanotube bundle networks: Fabrication, properties and composites. <i>Science Bulletin</i> , 2012, 57, 205-224. | 1.7 | 25 |
| 4431 | A review of the large-scale production of carbon nanotubes: The practice of nanoscale process engineering. <i>Science Bulletin</i> , 2012, 57, 157-166. | 1.7 | 45 |
| 4432 | Nonlocal beam theory for nonlinear vibrations of embedded multiwalled carbon nanotubes in thermal environment. <i>Nonlinear Dynamics</i> , 2012, 67, 2241-2254. | 2.7 | 44 |
| 4433 | Nonlinear finite element analysis for vibrations of double-walled carbon nanotubes. <i>Nonlinear Dynamics</i> , 2012, 67, 373-383. | 2.7 | 31 |
| 4434 | Direct electrochemical determination of ascorbic acid by a cobalt(II) tetra-neopentyloxy phthalocyanine-multi-walled carbon nanotubes glassy carbon electrode. <i>Journal of Materials Science</i> , 2012, 47, 2731-2735. | 1.7 | 13 |
| 4435 | Preparation of CNT-hybridized carbon fiber by aerosol-assisted chemical vapor deposition. <i>Journal of Materials Science</i> , 2012, 47, 3327-3333. | 1.7 | 13 |
| 4436 | A new one-step synthesis method for coating multi-walled carbon nanotubes with iron oxide nanorods. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1. | 0.8 | 9 |
| 4437 | Formation of bamboo-shaped carbon nanotubes on carbon black in a fluidized bed. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1. | 0.8 | 4 |
| 4438 | Study of ionic solvent-free carbon nanotube nanofluids and its composites with epoxy matrix. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1. | 0.8 | 18 |
| 4439 | Direct electrochemistry and electrocatalysis of horseradish peroxidase on a gold electrode modified with a polystyrene and multiwalled carbon nanotube composite film. <i>Mikrochimica Acta</i> , 2012, 176, 177-184. | 2.5 | 18 |
| 4440 | Comparative study of the sol-gel based solid phase microextraction fibers in extraction of naphthalene, fluorene, anthracene and phenanthrene from saffron samples extractants. <i>Mikrochimica Acta</i> , 2012, 176, 317-325. | 2.5 | 37 |
| 4441 | Scale effects on buckling analysis of orthotropic nanoplates based on nonlocal two-variable refined plate theory. <i>Acta Mechanica</i> , 2012, 223, 395-413. | 1.1 | 75 |
| 4442 | One-pot synthesis of highly dispersed palladium nanoparticles on acetylenic ionic liquid polymer functionalized carbon nanotubes for electrocatalytic oxidation of glucose. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 759-766. | 1.2 | 24 |
| 4443 | Vibration behavior of simply supported inclined single-walled carbon nanotubes conveying viscous fluids flow using nonlocal Rayleigh beam model. <i>Applied Mathematical Modelling</i> , 2013, 37, 1836-1850. | 2.2 | 81 |
| 4444 | Cure study of epoxy resin reinforced with multiwalled carbon nanotubes by Raman and luminescence spectroscopy. <i>Journal of Applied Polymer Science</i> , 2013, 127, 544-553. | 1.3 | 47 |
| 4445 | How do the shape of clay and type of modifier affect properties of polymer blends?. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3009-3016. | 1.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4446 | Surface modification of multiwalled carbon nanotubes via gliding arc plasma for the reinforcement of polypropylene. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4756-4763. | 1.3 | 12 |
| 4447 | Effect of noncovalent chemical modification on the electrical conductivity and tensile properties of poly(methyl methacrylate)/carbon nanotube composites. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4557-4563. | 1.3 | 16 |
| 4448 | Fabrication and characterization of mesoporous carbon nanosheets using halloysite nanotubes and polypyrrole via a template-like method. <i>Journal of Applied Polymer Science</i> , 2013, 128, 517-522. | 1.3 | 26 |
| 4449 | Layer-by-layer self-assembled multilayer films of single-walled carbon nanotubes and tin disulfide nanoparticles with chitosan for the fabrication of biosensors. <i>Journal of Applied Polymer Science</i> , 2013, 128, 647-652. | 1.3 | 24 |
| 4450 | Quantum Effects in Confined Systems. <i>Nanoscience and Technology</i> , 2013, , 1-6. | 1.5 | 0 |
| 4451 | Preparation of PEDOT/PSSA conductive nanoparticles for dielectrophoretic display. <i>Macromolecular Research</i> , 2013, 21, 693-698. | 1.0 | 8 |
| 4452 | Preparation and Dielectric Properties of AGS@CuPc/PVDF Composites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 743-750. | 1.9 | 14 |
| 4453 | Materials made of carbon nanotubes. The carbon nanotube forest. <i>Russian Chemical Reviews</i> , 2013, 82, 538-566. | 2.5 | 39 |
| 4454 | Peroxidase-mediated biodegradation of carbon nanotubes in vitro and in vivo. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1921-1932. | 6.6 | 158 |
| 4455 | Statistical sampling of carbon nanotube populations by thermogravimetric analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8207-8213. | 1.9 | 8 |
| 4456 | Applying contact to individual silicon nanowires using a dielectrophoresis (DEP)-based technique. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1. | 0.8 | 10 |
| 4457 | Preparation of Pd nanoparticles deposited on a polyaniline/multiwall carbon nanotubes nanocomposite and their application in the Heck reaction. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2013, 108, 193-204. | 0.8 | 16 |
| 4458 | Solar energy harvesting with the application of nanotechnology. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 26, 837-852. | 8.2 | 185 |
| 4459 | Permittivity of Dielectric Composite Materials Comprising Graphene Nanoribbons. The Effect of Nanostructure. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7567-7573. | 4.0 | 47 |
| 4460 | Oxidized Multiwalled Carbon Nanotubes as Adsorbents for Kinetic and Equilibrium Study of Removal of 5-(4-Dimethyl Amino Benzylidene)Rhodanine. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 1691-1699. | 1.1 | 27 |
| 4461 | Physical Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013, , . | 1.5 | 17 |
| 4462 | Engineering interfaces in carbon nanostructured mats for the creation of energy efficient thermal interface materials. <i>Carbon</i> , 2013, 61, 441-457. | 5.4 | 42 |
| 4463 | Hydrothermal Synthesis and Photocatalytic Activity of TiO ₂ @CNTs Nanocomposite. <i>Materials Science Forum</i> , 0, 743-744, 817-822. | 0.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4464 | Nano- and microstructuration of supramolecular materials driven by H-bonded uracil-2,6-diamidopyridine complexes. <i>Nanoscale</i> , 2013, 5, 8837. | 2.8 | 31 |
| 4466 | Microstructure and mechanical properties of multi-walled carbon nanotubes containing Al ₂ O ₃ -C refractories with addition of polycarbosilane. <i>Ceramics International</i> , 2013, 39, 4831-4838. | 2.3 | 52 |
| 4467 | Carbon nanotubes as optical biomedical sensors. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1933-1950. | 6.6 | 324 |
| 4468 | Doping carbons beyond nitrogen: an overview of advanced heteroatom doped carbons with boron, sulphur and phosphorus for energy applications. <i>Energy and Environmental Science</i> , 2013, 6, 2839. | 15.6 | 1,585 |
| 4469 | Enhancement of thermal and mechanical properties of flexible graphene oxide/carbon nanotube hybrid films through direct covalent bonding. <i>Journal of Materials Science</i> , 2013, 48, 7011-7021. | 1.7 | 14 |
| 4470 | Robocasting nanocomposite scaffolds of poly(caprolactone)/hydroxyapatite incorporating modified carbon nanotubes for hard tissue reconstruction. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1670-1681. | 2.1 | 62 |
| 4471 | Controllable fabrication and electromechanical characterization of electrophoresis assembled single-walled carbon nanotube-polymer film transducers. <i>Microsystem Technologies</i> , 2013, 19, 1041-1047. | 1.2 | 1 |
| 4472 | Application of carbon nano-materials in desalination processes. <i>Desalination and Water Treatment</i> , 2013, 51, 627-636. | 1.0 | 28 |
| 4473 | Fabrication and evaluation of dye-sensitized solar cells with photoanodes based on electrospun TiO ₂ nanotubes. <i>Materials Letters</i> , 2013, 106, 115-118. | 1.3 | 17 |
| 4474 | Carbon nanotubes materials and their application to guarantee safety from exposure to electromagnetic fields. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2013, 4, 025012. | 0.7 | 8 |
| 4475 | Self-Assembly of Semiconducting Single-Walled Carbon Nanotubes into Dense, Aligned Rafts. <i>Small</i> , 2013, 9, 4142-4148. | 5.2 | 30 |
| 4476 | Nanospheres of copper(III) 1,2-dicarbomethoxy-1,2-dithiolate and its composite with water soluble carbon nanotubes. <i>New Journal of Chemistry</i> , 2013, 37, 2708. | 1.4 | 38 |
| 4477 | Vibration analysis of double wall carbon nanotube based resonators for zeptogram level mass recognition. <i>Computational Materials Science</i> , 2013, 79, 230-238. | 1.4 | 35 |
| 4478 | A facile and novel approach towards carboxylic acid functionalization of multiwalled carbon nanotubes and efficient water dispersion. <i>Materials Letters</i> , 2013, 108, 253-256. | 1.3 | 27 |
| 4479 | Quantum rainbow channeling of positrons in very short carbon nanotubes. <i>Physical Review A</i> , 2013, 88, . | 1.0 | 14 |
| 4480 | Investigating and understanding the initial growth mechanisms of catalyst-free growth of 1D SiC nanostructures. <i>CrystEngComm</i> , 2013, 15, 6963. | 1.3 | 8 |
| 4481 | Efficient Dye-Sensitized Photovoltaic Wires Based on an Organic Redox Electrolyte. <i>Journal of the American Chemical Society</i> , 2013, 135, 10622-10625. | 6.6 | 129 |
| 4482 | Multifunctional antistatic and scratch resistant UV-cured acrylic coatings. <i>Progress in Organic Coatings</i> , 2013, 76, 1191-1196. | 1.9 | 31 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4483 | Stretchable nanoparticle conductors with self-organized conductive pathways. <i>Nature</i> , 2013, 500, 59-63. | 13.7 | 729 |
| 4484 | Fractal structures of single-walled carbon nanotubes in biologically relevant conditions: Role of chirality vs. media conditions. <i>Chemosphere</i> , 2013, 93, 1997-2003. | 4.2 | 22 |
| 4485 | Electrical conductance of carbon nanotubes with misaligned ends. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1. | 0.8 | 2 |
| 4486 | Electrooxidation of alcohols at a nickel oxide/multi-walled carbon nanotube-modified glassy carbon electrode. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 1027-1033. | 1.5 | 8 |
| 4487 | Nickel hexacyanoferrate nanoparticles/nano silver coated multiwalled carbon nanotubes nanocomposite for the detection of hydrogen peroxide. <i>Journal of Analytical Chemistry</i> , 2013, 68, 307-312. | 0.4 | 5 |
| 4488 | Electrocatalytic Performance of SiO ₂ -SWCNT Nanocomposites Prepared by Electroassisted Deposition. <i>Electrocatalysis</i> , 2013, 4, 259-266. | 1.5 | 15 |
| 4489 | A novel approach to the chemical stabilization of gamma-irradiated ultrahigh molecular weight polyethylene using arc-discharge multi-walled carbon nanotubes. <i>Journal of Materials Science</i> , 2013, 48, 6549-6557. | 1.7 | 18 |
| 4490 | Electric heating films based on m-aramid nanocomposites containing hybrid fillers of graphene and carbon nanotube. <i>Journal of Materials Science</i> , 2013, 48, 4041-4049. | 1.7 | 18 |
| 4491 | Lower electrical conductive percolation threshold of multiwall carbon nanotube reinforced poly(vinylidene fluoride) induced by nano-clay and coupling agent. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 4170-4174. | 1.1 | 5 |
| 4492 | Effect of nitrile-functionalization and thermal cross-linking on the dielectric and mechanical properties of PEN/CNTs/CN composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2913-2922. | 1.1 | 19 |
| 4493 | Environmental Life Cycle Assessment of a Carbon Nanotube-Enabled Semiconductor Device. <i>Environmental Science & Technology</i> , 2013, 47, 8471-8478. | 4.6 | 33 |
| 4494 | Polyvinylferrocene for Noncovalent Dispersion and Redox-Controlled Precipitation of Carbon Nanotubes in Nonaqueous Media. <i>Langmuir</i> , 2013, 29, 9626-9634. | 1.6 | 46 |
| 4495 | Reusable glucose sensing using carbon nanotube-based self-assembly. <i>Nanoscale</i> , 2013, 5, 9231. | 2.8 | 23 |
| 4496 | High-Quality, Highly Concentrated Semiconducting Single-Wall Carbon Nanotubes for Use in Field Effect Transistors and Biosensors. <i>ACS Nano</i> , 2013, 7, 6831-6839. | 7.3 | 101 |
| 4497 | Origins of the Helical Wrapping of Phenyleneethynylene Polymers about Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12953-12965. | 1.2 | 35 |
| 4498 | Intensified internal electrolysis for degradation of methylene blue as model compound induced by a novel hybrid material: Multi-walled carbon nanotubes immobilized on zero-valent iron plates (Fe ₀ -CNTs). <i>Chemical Engineering Journal</i> , 2013, 217, 99-107. | 6.6 | 48 |
| 4499 | Recent developments in the photophysics of single-walled carbon nanotubes for their use as active and passive material elements in thin film photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14896. | 1.3 | 102 |
| 4500 | Synthesis of Vertically Aligned Carbon Nanotubes by CVD Technique: A Review. <i>Carbon Nanostructures</i> , 2013, , 113-124. | 0.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4501 | Aligned SWNT Films from Low-Yield Stress Gels and Their Transparent Electrode Performance. ACS Applied Materials & Interfaces, 2013, 5, 7244-7252. | 4.0 | 19 |
| 4502 | Quenching of the Electrochemiluminescence of Tris(2,2â€²-bipyridine)ruthenium(II)/Tri- <i>n</i> -propylamine by Pristine Carbon Nanotube and Its Application to Quantitative Detection of DNA. Analytical Chemistry, 2013, 85, 1711-1718. | 3.2 | 77 |
| 4503 | Processing and Mechanical Property Characterization of Aligned Carbon Nanotube Carbon Matrix Nanocomposites. , 2013, , . | | 3 |
| 4504 | Sn/carbon nanotube composite anode with improved cycle performance for lithium-ion battery. Ionics, 2013, 19, 1341-1347. | 1.2 | 21 |
| 4506 | Development of a modified electrode with amine-functionalized TiO ₂ /multi-walled carbon nanotubes nanocomposite for electrochemical sensing of the atypical neuroleptic drug olanzapine. Materials Science and Engineering C, 2013, 33, 4876-4883. | 3.8 | 38 |
| 4507 | Energy absorption characteristics of single-walled carbon nanotubes. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 249-255. | 0.4 | 0 |
| 4508 | Functionalization of carboxylated multi-wall carbon nanotubes with 3,5-diphenyl pyrazole and an investigation of their toxicity. New Carbon Materials, 2013, 28, 199-207. | 2.9 | 18 |
| 4509 | Palladium nanoparticles supported on carbon nanotubes from solventless preparations: versatile catalysts for ligand-free Suzuki cross coupling reactions. Journal of Materials Chemistry A, 2013, 1, 12909. | 5.2 | 92 |
| 4510 | Bomb calorimetry as a bulk characterization tool for carbon nanostructures. Carbon, 2013, 63, 324-329. | 5.4 | 21 |
| 4511 | Additive manufacturing (AM) and nanotechnology: promises and challenges. Rapid Prototyping Journal, 2013, 19, 353-364. | 1.6 | 358 |
| 4512 | Selective voltammetric determination of norepinephrine in the presence of acetaminophen and tryptophan on the surface of a modified carbon nanotube paste electrode. Materials Science and Engineering C, 2013, 33, 3214-3219. | 3.8 | 82 |
| 4513 | Functionalized multi-walled carbon nanotubes with hyperbranched aromatic polyamide for poly(methyl methacrylate) composites. Fibers and Polymers, 2013, 14, 182-187. | 1.1 | 12 |
| 4514 | Efficient cycloaddition of arynes to carbon nanotubes under microwave irradiation. Carbon, 2013, 63, 140-148. | 5.4 | 26 |
| 4515 | On the van der Waals interaction of carbon nanotubes as electromechanical nanothermometers. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 622-632. | 1.5 | 4 |
| 4516 | Electrocatalysis in Fuel Cells. Lecture Notes in Energy, 2013, , . | 0.2 | 85 |
| 4517 | A computational model for predicting the mass transport in a CVD reactor for carbon nanotube synthesis. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 4518 | In situ growth of positively-charged gold nanoparticles on single-walled carbon nanotubes as a highly active peroxidase mimetic and its application in biosensing. Biosensors and Bioelectronics, 2013, 43, 205-210. | 5.3 | 65 |
| 4519 | Carbon nanotube-based SAW sensors. , 2013, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4520 | Silicon Oxide Nanowires: Facile and Controlled Large Area Fabrication of Vertically Oriented Silicon Oxide Nanowires for Photoluminescence and Sensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8932-8938. | 4.0 | 15 |
| 4521 | Electric-double-layer field-effect transistors with ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8983. | 1.3 | 319 |
| 4522 | A liquid-like multiwalled carbon nanotube derivative and its epoxy nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2217-2224. | 1.3 | 12 |
| 4523 | Surface acoustic wave microfluidics. <i>Lab on A Chip</i> , 2013, 13, 3626. | 3.1 | 708 |
| 4524 | Highly water-soluble multi-walled carbon nanotubes amine-functionalized by supercritical water oxidation. <i>Nanoscale</i> , 2013, 5, 10171. | 2.8 | 12 |
| 4525 | Carbon nanotube and graphene multiple-thread yarns. <i>Nanoscale</i> , 2013, 5, 1183. | 2.8 | 18 |
| 4526 | Transition metal atom adsorptions on a boron nitride nanocage. <i>Structural Chemistry</i> , 2013, 24, 1039-1044. | 1.0 | 33 |
| 4527 | High on/off current ratio in ballistic CNTFETs based on tuning the gate insulator parameters for different ambient temperatures. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 447-457. | 1.1 | 20 |
| 4528 | Novel Cu-Cr alloy matrix CNT composites with enhanced thermal conductivity. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 631-636. | 1.1 | 17 |
| 4529 | Synthesize procedures, mechanical and thermal properties of thiazole bearing poly(amid-imide) composite thin films containing multiwalled carbon nanotubes. <i>Colloid and Polymer Science</i> , 2013, 291, 1525-1534. | 1.0 | 20 |
| 4530 | Mechanical properties of multi-walled carbon nanotube/polyester nanocomposites. <i>Journal of Nanostructure in Chemistry</i> , 2013, 3, 1. | 5.3 | 66 |
| 4531 | Sonication-assisted dispersion of carbon nanotubes in aqueous solutions of the anionic surfactant SDBS: The role of sonication energy. <i>Science Bulletin</i> , 2013, 58, 2082-2090. | 1.7 | 85 |
| 4532 | Zero-Dimensional Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11308-11312. | 7.2 | 13 |
| 4533 | Carbon nanomaterials supported Ni(OH) ₂ /NiO hybrid flower structure for supercapacitor. <i>Electrochimica Acta</i> , 2013, 109, 370-380. | 2.6 | 104 |
| 4534 | Electrospinning direct preparation of SnO ₂ /Fe ₂ O ₃ heterojunction nanotubes as an efficient visible-light photocatalyst. <i>Journal of Alloys and Compounds</i> , 2013, 575, 333-338. | 2.8 | 80 |
| 4535 | Enhanced field emission from vertically aligned carbon nanotubes on metal mesh electrode. <i>Applied Surface Science</i> , 2013, 285, 505-508. | 3.1 | 11 |
| 4536 | Thermal buckling of a nanoplate with small-scale effects. <i>Acta Mechanica</i> , 2013, 224, 1299-1307. | 1.1 | 39 |
| 4537 | Self-assembly of cationic surfactants on the carbon nanotube surface: insights from molecular dynamics simulations. <i>Journal of Molecular Modeling</i> , 2013, 19, 4319-4335. | 0.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4538 | Thermal conduction phenomena in carbon nanotubes and related nanostructured materials. <i>Reviews of Modern Physics</i> , 2013, 85, 1295-1326. | 16.4 | 365 |
| 4539 | Synthesis of magnetic carbon nanotubes: Functionalisation of carbon nanotubes with nickel/sulphur nanoparticles via self-assembly in near-critical acetone. <i>Journal of Supercritical Fluids</i> , 2013, 83, 1-5. | 1.6 | 2 |
| 4540 | Effect of adding W to Fe catalyst on the synthesis of SWCNTs by arc discharge. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 50, 116-121. | 1.3 | 23 |
| 4541 | In vitro nanotoxicity of single-walled carbon nanotube-dendrimer nanocomplexes against murine myoblast cells. <i>Toxicology Letters</i> , 2013, 219, 18-25. | 0.4 | 39 |
| 4542 | Optical holograms based on carbon nanotubes. , 2013, , . | | 0 |
| 4543 | Microstructure and dielectric properties of biocarbon nanofiber composites. <i>Nanoscale Research Letters</i> , 2013, 8, 293. | 3.1 | 13 |
| 4544 | Scalable and number-controlled synthesis of carbon nanotubes by nanostencil lithography. <i>Nanoscale Research Letters</i> , 2013, 8, 281. | 3.1 | 4 |
| 4545 | Design of a multi-walled carbon nanotube field emitter with micro vacuum gauge. <i>Nanoscale Research Letters</i> , 2013, 8, 143. | 3.1 | 8 |
| 4546 | Supported carbon nanotubes on SiO ₂ spheres as robust monolithic catalysts for the oxidative dehydrogenation of ethylbenzene. <i>New Carbon Materials</i> , 2013, 28, 336-341. | 2.9 | 4 |
| 4547 | Electronic, energetic, and structural properties of C- and Si-doped Mg ₁₂ O ₁₂ nano-cages. <i>Computational Materials Science</i> , 2013, 79, 352-355. | 1.4 | 30 |
| 4548 | Field emission from vertical graphene sheets formed by screen-printing technique. <i>Vacuum</i> , 2013, 94, 48-52. | 1.6 | 46 |
| 4549 | Probing carbon coatings on nanoparticle decorated carbon nanotubes by scanning transmission X-ray microscopy. <i>Applied Surface Science</i> , 2013, 285, 874-878. | 3.1 | 0 |
| 4550 | Reinforced Polymer Matrix Syntactic Foams. <i>SpringerBriefs in Materials</i> , 2013, , . | 0.1 | 53 |
| 4551 | Synthesis, characterization, and catalytic activity for hybrids of multi-walled carbon nanotube and amphiphilic poly(propyleneimine) dendrimer immobilized with silver and palladium nanoparticle. <i>Journal of Colloid and Interface Science</i> , 2013, 396, 101-111. | 5.0 | 28 |
| 4554 | Thermal transport in boron nitride nanotubes towards a nanoscopic thermal shield. <i>Journal of Applied Physics</i> , 2013, 114, . | 1.1 | 4 |
| 4555 | Theoretical study of soft-to-hard transition of copper-filled carbon nanotubes. <i>Computational Materials Science</i> , 2013, 69, 22-28. | 1.4 | 3 |
| 4556 | Interfacial electrochemical analysis on LiCoO ₂ /carbon nanotubes layers as cathode active composite in aqueous electrolytes. <i>Electrochimica Acta</i> , 2013, 113, 77-86. | 2.6 | 15 |
| 4558 | Carbon materials with quasi-graphene layers: The dielectric, percolation properties and the electronic transport mechanism. <i>Chinese Physics B</i> , 2013, 22, 037701. | 0.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4559 | Toward a comprehensive framework for nanomaterials: An interdisciplinary assessment of the current Environmental Health and Safety Regulation regarding the handling of carbon nanotubes. <i>Journal of Chemical Health and Safety</i> , 2013, 20, 9-24. | 1.1 | 8 |
| 4560 | Improvement of the electrochemical and electrocatalytic behavior of Prussian blue/carbon nanotubes composite via ionic liquid treatment. <i>Electrochimica Acta</i> , 2013, 113, 803-809. | 2.6 | 32 |
| 4561 | High contrast holograms using nanotube forest. <i>Applied Physics Letters</i> , 2013, 103, 111104. | 1.5 | 4 |
| 4562 | Synthesis of water-soluble single-walled carbon nanotubes and its application in poly(vinyl alcohol) composites. <i>Polymers for Advanced Technologies</i> , 2013, 24, 376-382. | 1.6 | 14 |
| 4563 | Low-dimensional systems investigated by x-ray absorption spectroscopy: a selection of 2D, 1D and 0D cases. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 423001. | 1.3 | 101 |
| 4564 | Effects of surfactant on carbon nanotube assembly synthesized by direct spinning. <i>Chemical Engineering Science</i> , 2013, 104, 25-31. | 1.9 | 12 |
| 4565 | Novel Synthesis and Characterization of Nanostructured Materials. <i>Engineering Materials</i> , 2013, , . | 0.3 | 42 |
| 4566 | Plasma Nanoscience and Nanotechnology. , 2013, , 287-357. | | 2 |
| 4567 | Effective reinforcement of electrical conductivity and strength of carbon nanotube fibers by silver-paste-liquid infiltration processing. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3861. | 1.3 | 16 |
| 4568 | Chiral Structure Determination of Aligned Single-Walled Carbon Nanotubes on Graphite Surface. <i>Nano Letters</i> , 2013, 13, 5666-5671. | 4.5 | 18 |
| 4569 | Improved functionalization and recovery of carboxylated carbon nanotubes using the acoustic cavitation approach. <i>Chemical Physics Letters</i> , 2013, 557, 97-101. | 1.2 | 23 |
| 4570 | Dispersion and magnetic field-induced alignment of functionalized carbon nanotubes in liquid crystals. <i>Synthetic Metals</i> , 2013, 181, 10-17. | 2.1 | 36 |
| 4571 | Design and synthesis of hierarchical porous electrode with nanocomposites of MnO ₂ thin layer encapsulated carbon nanotubes and its superb charge storage characteristics. <i>Electrochimica Acta</i> , 2013, 113, 373-381. | 2.6 | 8 |
| 4572 | An overview of nanoparticle assisted laser therapy. <i>International Journal of Heat and Mass Transfer</i> , 2013, 67, 469-486. | 2.5 | 76 |
| 4573 | CVD growth, characterization and applications of carbon nanostructured materials. <i>Surface and Coatings Technology</i> , 2013, 230, 77-86. | 2.2 | 25 |
| 4574 | Fabrication of copper matrix composites reinforced with carbon nanotubes using a combination of molecular-level-mixing and high energy ball milling. <i>Journal of Composite Materials</i> , 2013, 47, 613-621. | 1.2 | 19 |
| 4575 | Photo-regenerable multi-walled carbon nanotube membranes for the removal of pharmaceutical micropollutants from water. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 1582. | 1.7 | 27 |
| 4576 | Microwave-assisted synthesis of functionalized graphene on Ni foam as electrodes for supercapacitor application. <i>Electrochimica Acta</i> , 2013, 108, 421-428. | 2.6 | 55 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4577 | Carbon Coating Precedes SWCNT Nucleation on Silicon Nanoparticles: Insights from QM/MD Simulations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4238-4244. | 1.5 | 11 |
| 4578 | Reversible dispersion-precipitation of single-walled carbon nanotubes by pH change and addition of organic components. <i>New Journal of Chemistry</i> , 2013, 37, 3607. | 1.4 | 8 |
| 4579 | Comparison study of electrocatalytic activity of reduced graphene oxide supported Pt-Cu bimetallic or Pt nanoparticles for the electrooxidation of methanol and ethanol. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14242-14249. | 3.8 | 55 |
| 4580 | Fabrication of Pt-Cu/RGO hybrids and their electrochemical performance for the oxidation of methanol and formic acid in acid media. <i>Carbon</i> , 2013, 64, 11-19. | 5.4 | 45 |
| 4581 | Photocatalytic Engineering of Single-Walled Carbon Nanotubes: From Metal-Semiconductor Conversion to Cutting and Patterning. <i>Small</i> , 2013, 9, 1336-1341. | 5.2 | 3 |
| 4582 | A simultaneous increase in the thermal and electrical transport in carbon nanotube yarns induced by inter-tube metallic welding. <i>Carbon</i> , 2013, 59, 479-486. | 5.4 | 11 |
| 4583 | Graphene-Functionalized Carbon Nanotubes for Conducting Polymer Nanocomposites and Their Improved Strain Sensing Properties. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2439-2444. | 1.1 | 27 |
| 4584 | On the low-temperature growth mechanism of single walled carbon nanotubes in plasma enhanced chemical vapor deposition. <i>Chemical Physics Letters</i> , 2013, 590, 131-135. | 1.2 | 18 |
| 4585 | Poly(vinylidene fluoride)/polyaniline/carbon nanotubes nanocomposites: Influence of preparation method and oscillatory shear on morphology and electrical conductivity. <i>Polymer Testing</i> , 2013, 32, 1511-1521. | 2.3 | 17 |
| 4586 | Elasticity and rigidity percolation in flexible carbon nanotube films on PDMS substrates. <i>Soft Matter</i> , 2013, 9, 11568. | 1.2 | 31 |
| 4587 | Validation of a screening method for the rapid control of sulfonamide residues based on electrochemical detection using multiwalled carbon nanotubes-glassy carbon electrodes. <i>Analytical Methods</i> , 2013, 5, 6821. | 1.3 | 25 |
| 4588 | Combination of two dispersants as a valuable strategy to prepare improved poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 30 | 3.8 | 18 |
| 4589 | Amyloidogenic Peptide/Single-Walled Carbon Nanotube Composites Based on Tau-Protein-Related Peptides Derived from AcPHF6: Preparation and Dispersive Properties. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7593-7604. | 1.2 | 5 |
| 4590 | Preparation and properties of the polyimide thin films reinforced by acylchloride-functionalized multiple-walled carbon nanotubes. <i>Journal of Composite Materials</i> , 2013, 47, 3041-3051. | 1.2 | 1 |
| 4591 | New Frontiers of Nanoparticles and Nanocomposite Materials. <i>Advanced Structured Materials</i> , 2013, , . | 0.3 | 8 |
| 4592 | Topological Modelling of Nanostructures and Extended Systems. <i>Carbon Materials</i> , 2013, , . | 0.2 | 9 |
| 4593 | Carbon Nanotube Enhanced Aerospace Composite Materials. <i>Solid Mechanics and Its Applications</i> , 2013, , . | 0.1 | 12 |
| 4594 | Carbon nanomaterials for high-performance supercapacitors. <i>Materials Today</i> , 2013, 16, 272-280. | 8.3 | 581 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4595 | Near-Edge X-ray Absorption Fine Structure Studies of Electrospun Poly(dimethylsiloxane)/Poly(methyl Tj ETQq0 0 Q rgBT /Overlock 10 T | 1.6 | 24 |
| 4596 | Fabrication, characterization and mechanical properties of hybrid composites of copper using the nanoparticulates of SiC and carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 572, 83-90. | 2.6 | 73 |
| 4597 | Free-standing heterogeneous hybrid papers based on mesoporous γ -MnO ₂ particles and carbon nanotubes for lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2013, 244, 747-751. | 4.0 | 50 |
| 4598 | Analysis and optimization of carbon nanotubes and graphene sensors based on adsorption-desorption kinetics. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 21 |
| 4599 | Dispersing single-walled carbon nanotubes in ionic liquids: a quantitative analysis. <i>RSC Advances</i> , 2013, 3, 20034. | 1.7 | 26 |
| 4600 | High frequency small signal modeling of CNTFET. , 2013, , . | | 6 |
| 4601 | New polyaniline/polypyrrole/polythiophene and functionalized multiwalled carbon nanotube-based nanocomposites. <i>High Performance Polymers</i> , 2013, 25, 70-78. | 0.8 | 39 |
| 4602 | Amperometric determination of ascorbic acid using multiwalled carbon nanotube-thiolated polyaniline composite modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2013, 709, 19-25. | 1.9 | 26 |
| 4603 | Dielectrophoretic assembly of carbon nanotubes and stability analysis. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 367-373. | 1.8 | 15 |
| 4604 | CNTs/TiO ₂ composites and its electrochemical properties after UV light irradiation. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 164-169. | 1.8 | 32 |
| 4605 | Probing structure and strain transfer in dry-spun carbon nanotube fibers by depth-profiled Raman spectroscopy. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 20 |
| 4606 | Elastic properties of graphene obtained by computational mechanical tests. <i>Europhysics Letters</i> , 2013, 103, 68004. | 0.7 | 25 |
| 4607 | Thiol-based molecular overlayers adsorbed on C ₆₀ : Role of the end-group and charge state on the stability of the complexes. <i>Journal of Chemical Physics</i> , 2013, 139, 174307. | 1.2 | 1 |
| 4608 | Adsorption of sulfur and nitrogen compounds on hydrophobic bentonite. <i>Applied Clay Science</i> , 2013, 83-84, 286-293. | 2.6 | 28 |
| 4610 | Large-scale and controllable synthesis of metal-free nitrogen-doped carbon nanofibers and nanocoils over water-soluble Na ₂ CO ₃ . <i>Nanoscale Research Letters</i> , 2013, 8, 545. | 3.1 | 17 |
| 4611 | Thermal Conductivity of Single-Walled Carbon Nanotube with Internal Heat Source Studied by Molecular Dynamics Simulation. <i>International Journal of Thermophysics</i> , 2013, 34, 2361-2370. | 1.0 | 8 |
| 4612 | Interface coupling-induced enhancement of magnetoimpedance effect in heterogeneous nanobrush by adjusting textures of Co nanowires. <i>Nanoscale Research Letters</i> , 2013, 8, 471. | 3.1 | 4 |
| 4613 | Evaluating the capabilities of portable black carbon monitors and photometers for measuring airborne carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1. | 0.8 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4614 | Dispersion of carbon nanotubes in polyamide 6 for microinjection moulding. <i>Journal of Polymer Research</i> , 2013, 20, 1. | 1.2 | 22 |
| 4615 | Layered double hydroxide/carbon nanotubes composite as a high performance anode material for Ni-Zn secondary batteries. <i>Electrochimica Acta</i> , 2013, 111, 581-587. | 2.6 | 35 |
| 4616 | Modification Strategies for Carbon Nanotubes as a Drug Delivery System. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13517-13527. | 1.8 | 57 |
| 4617 | Cooling performance enhancement of LED (light emitting diode) packages with carbon nanogrease. <i>Energy</i> , 2013, 60, 195-203. | 4.5 | 23 |
| 4618 | Two-stage mechanical percolation in the epoxy resin intercalated buckypaper with high mechanical performance. <i>RSC Advances</i> , 2013, 3, 15290. | 1.7 | 10 |
| 4619 | Ordered macroporous platinum electrode and enhanced mass transfer in fuel cells using inverse opal structure. <i>Nature Communications</i> , 2013, 4, 2473. | 5.8 | 229 |
| 4620 | Mechanically robust biocomposite films of chitosan grafted carbon nanotubes via the [2 + 1] cycloaddition of nitrenes. <i>RSC Advances</i> , 2013, 3, 23631. | 1.7 | 23 |
| 4621 | Facile Synthesis and Enhanced Nonlinear Optical Properties of Porphyrin-Functionalized Multi-Walled Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2013, 19, 14159-14170. | 1.7 | 49 |
| 4622 | NanoCarbon 2011. <i>Carbon Nanostructures</i> , 2013, , . | 0.1 | 3 |
| 4623 | Ionic liquid combined with carbon nanotubes: A soft material for the preconcentration of PAHs. <i>Talanta</i> , 2013, 104, 169-172. | 2.9 | 25 |
| 4624 | 1,3-Dipolar cycloadditions of Stone-Wales defective single-walled carbon nanotubes: A theoretical study. <i>Journal of Computational Chemistry</i> , 2013, 34, 2223-2232. | 1.5 | 18 |
| 4625 | Hybrid microstrip and carbon nanotubes based patch antenna for wireless applications. , 2013, , . | | 2 |
| 4626 | Structural Polymer-Based Carbon Nanotube Composite Fibers: Understanding the Processing-Structure-Performance Relationship. <i>Materials</i> , 2013, 6, 2543-2577. | 1.3 | 220 |
| 4628 | Interaction of Pristine and Functionalized Carbon Nanotubes with Lipid Membranes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12113-12123. | 1.2 | 66 |
| 4629 | A versatile ethanol-mediated polymerization of dopamine for efficient surface modification and the construction of functional core-shell nanostructures. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6085. | 2.9 | 110 |
| 4631 | Nonlinear failure analysis of carbon nanotubes by using molecular-mechanics based models. <i>Composites Part B: Engineering</i> , 2013, 50, 150-157. | 5.9 | 20 |
| 4632 | Mapping Impurity of Single-Walled Carbon Nanotubes in Bulk Samples with Multiplex Coherent Anti-Stokes Raman Microscopy. <i>Nano Letters</i> , 2013, 13, 697-702. | 4.5 | 13 |
| 4633 | Ab initio studies of effect of intercalation on the properties of single walled carbon and gallium phosphide nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 54, 273-280. | 1.3 | 11 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4634 | Flammable and noxious gas sensing using a microtripolar electrode sensor with diameter and chirality sorted single-walled carbon nanotubes. Journal of Micromechanics and Microengineering, 2013, 23, 085022. | 1.5 | 5 |
| 4635 | On the friction and wear of carbon nanofiber-reinforced PEEK-based polymer composites. , 2013, , 227-305. | | 0 |
| 4636 | Toughening strategies of carbon nanotube/polycarbonate composites with electromagnetic interference shielding properties. Polymer Composites, 2013, 34, 1938-1949. | 2.3 | 17 |
| 4637 | Molecular dynamics study of the positioned single-walled carbon nanotubes with T-, X-, Y-junction during nanoscale soldering. Applied Surface Science, 2013, 284, 392-396. | 3.1 | 40 |
| 4638 | Catalytic Activity of Tetranitro-Copper Phthalocyanine Supported on Carbon Nanotubes towards Oxygen Reduction Reaction. Advanced Materials Research, 0, 706-708, 15-19. | 0.3 | 4 |
| 4639 | Rectifying performance and negative differential resistance behavior in graphite-chain-nanoribbon junctions. Europhysics Letters, 2013, 101, 68005. | 0.7 | 2 |
| 4640 | Quality Control of Vertically Aligned Carbon Nanotubes Grown by Chemical Vapor Deposition. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1804-1810. | 1.4 | 6 |
| 4641 | Hierarchical porous polymeric microspheres as efficient adsorbents and catalyst scaffolds. Chemical Communications, 2013, 49, 8761. | 2.2 | 60 |
| 4642 | Redox responsive nanotubes from organometallic polymers by template assisted layer by layer fabrication. Nanoscale, 2013, 5, 11692. | 2.8 | 10 |
| 4643 | A Softâ€”Templateâ€”Conversion Route to Fabricate Nanopatterned Hybrid Pt/Carbon for Potential Use in Counter Electrodes of Dyeâ€”Sensitized Solar Cells. Macromolecular Rapid Communications, 2013, 34, 1487-1492. | 2.0 | 5 |
| 4644 | Dreiwandige Kohlenstoff-Nanoröhren atmen lassen. Physik in Unserer Zeit, 2013, 44, 215-216. | 0.0 | 0 |
| 4645 | A non-contact strategy for controlled enrichment, manipulation, and separation of carbon nanotubes by surface acoustic waves. Applied Physics Letters, 2013, 102, . | 1.5 | 20 |
| 4646 | Tuning the Dispersibility of Carbon Nanostructures from Organophilic to Hydrophilic: Towards the Preparation of New Multipurpose Carbonâ€”Based Hybrids. Chemistry - A European Journal, 2013, 19, 12884-12891. | 1.7 | 17 |
| 4647 | Types and processing of electro-conductive and semiconducting materials for smart textiles. , 2013, , 29-69. | | 6 |
| 4648 | Sorption of phenanthrene on single-walled carbon nanotubes modified by DOM: effects of DOM molecular weight and contact time. Environmental Sciences: Processes and Impacts, 2013, 15, 307-314. | 1.7 | 6 |
| 4649 | Formation of WO ₃ nanotube-based bundles directed by NaHSO ₄ and its application in water treatment. Journal of Materials Chemistry A, 2013, 1, 1246-1253. | 5.2 | 106 |
| 4650 | Isotactic Polypropylene/Multi-Walled Carbon Nanotube Nanocomposites: The Effect of Modification of MWCNTs on Mechanical Properties and Melt Crystallization. Macromolecular Chemistry and Physics, 2013, 214, 2415-2431. | 1.1 | 31 |
| 4651 | Nature of proton transport in a water-filled carbon nanotube and in liquid water. Physical Chemistry Chemical Physics, 2013, 15, 6344. | 1.3 | 51 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4652 | Mechanical and electrical properties of carbon nanotube reinforced Cu-Ti alloy matrix composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 594-599. | 0.8 | 50 |
| 4653 | Controlled growth of nickel nanocrystal arrays and their field electron emission performance enhancement via removing adsorbed gas molecules. <i>CrystEngComm</i> , 2013, 15, 1296-1306. | 1.3 | 20 |
| 4654 | Contamination control and pilot manufacturing of commercial grade carbon nanotube colloidal formulations. , 2013, , . | | 2 |
| 4655 | Phonon-interface scattering in multilayer graphene on an amorphous support. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16321-16326. | 3.3 | 141 |
| 4656 | Coordination number model to quantify packing morphology of aligned nanowire arrays. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4033. | 1.3 | 34 |
| 4657 | Influence of polar functional groups introduced by COOH+ implantation on cell growth and anticoagulation of MWCNTs. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5543. | 2.9 | 9 |
| 4658 | Carbon nanotube solar cells. , 2013, , 241-269. | | 13 |
| 4659 | Zippering, entanglement, and the elastic modulus of aligned single-walled carbon nanotube films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20426-20430. | 3.3 | 40 |
| 4660 | Influence of gas condition and growth time on the growth of a spin-capable multi-walled carbon nanotube. , 2013, , . | | 0 |
| 4661 | Ion Sensor for the Quantification of Sodium in Sweat Samples. <i>IEEE Sensors Journal</i> , 2013, 13, 3430-3436. | 2.4 | 46 |
| 4662 | Renewable hydrogen and carbon nanotubes from biodiesel waste glycerol. <i>Scientific Reports</i> , 2013, 3, 2742. | 1.6 | 33 |
| 4663 | Thickness-dependent field emission from ZnTe films prepared by magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2013, 549, 88-91. | 2.8 | 18 |
| 4664 | Effect of morphology of the filler on the electrical behaviour of poly(l-lactide) nanocomposites. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1-6. | 1.9 | 16 |
| 4665 | Structural and Electrical Properties of Conducting Diamond Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1294-1301. | 4.0 | 36 |
| 4666 | Raman spectroscopy analysis and mapping the biodistribution of inhaled carbon nanotubes in the lungs and blood of mice. <i>Journal of Applied Toxicology</i> , 2013, 33, 1044-1052. | 1.4 | 24 |
| 4667 | Tailoring Polyacrylonitrile Interfacial Morphological Structure by Crystallization in the Presence of Single-Wall Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 807-814. | 4.0 | 69 |
| 4668 | Microstructure and mechanical property of multi-walled carbon nanotubes reinforced aluminum matrix composites fabricated by friction stir processing. <i>Materials & Design</i> , 2013, 45, 343-348. | 5.1 | 201 |
| 4669 | Tension-tension fatigue behavior of carbon nanotube wires. <i>Carbon</i> , 2013, 52, 225-231. | 5.4 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 4670 | Strain sensing behaviour of elastomeric composite films containing carbon nanotubes under cyclic loading. <i>Composites Science and Technology</i> , 2013, 74, 1-5. | 3.8 | 221 |
| 4671 | Quantitative Detection of Single Walled Carbon Nanotube in Water Using DNA and Magnetic Fluorescent Spheres. <i>Environmental Science & Technology</i> , 2013, 47, 493-501. | 4.6 | 13 |
| 4672 | Effects of Amplitude on Carbon Nanotube Nanowelding. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 19-23. | 1.0 | 0 |
| 4673 | Mechanical and Thermal Properties of Styrene Butadiene Rubber - Functionalized Carbon Nanotubes Nanocomposites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 89-101. | 1.0 | 20 |
| 4674 | Macroscopic self-standing SWCNT fibres as efficient electron emitters with very high emission current for robust cold cathodes. <i>Carbon</i> , 2013, 52, 356-362. | 5.4 | 24 |
| 4675 | Biofunctionalized carbon nanotubes in neural regeneration: a mini-review. <i>Nanoscale</i> , 2013, 5, 487-497. | 2.8 | 83 |
| 4676 | Energy loss distribution of proton beams at normal incidence on multi-walled carbon nanotubes. <i>Carbon</i> , 2013, 52, 137-144. | 5.4 | 8 |
| 4677 | Effects of carbon nanotubes aspect ratio on the qualitative and quantitative aspects of frequency response of electrical conductivity and dielectric permittivity in the carbon nanotube/polymer composites. <i>Carbon</i> , 2013, 54, 105-112. | 5.4 | 98 |
| 4678 | Improvement of interface and mechanical properties in carbon nanotube reinforced Cu-Cr matrix composites. <i>Materials & Design</i> , 2013, 45, 407-411. | 5.1 | 143 |
| 4679 | Three dimensional macroporous architectures and aerogels built of carbon nanotubes and/or graphene: synthesis and applications. <i>Chemical Society Reviews</i> , 2013, 42, 794-830. | 18.7 | 1,065 |
| 4680 | The controlled formation of hybrid structures of multi-walled carbon nanotubes on SiC plate-like particles and their synergetic effect as a filler in poly(vinylidene fluoride) based composites. <i>Carbon</i> , 2013, 51, 355-364. | 5.4 | 33 |
| 4681 | An integrated device for both photoelectric conversion and energy storage based on free-standing and aligned carbon nanotube film. <i>Journal of Materials Chemistry A</i> , 2013, 1, 954-958. | 5.2 | 148 |
| 4682 | Dimethyl methylphosphonate detection with a single-walled carbon nanotube capacitive sensor fabricated by airbrush technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 667-673. | 1.1 | 9 |
| 4683 | Preparation and thermal properties of fatty acids/CNTs composite as shape-stabilized phase change materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 377-384. | 2.0 | 86 |
| 4684 | Synthesis of coal-derived single-walled carbon nanotube from coal by varying the ratio of Zr/Ni as bimetallic catalyst. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1. | 0.8 | 18 |
| 4685 | Enhanced electromagnetic interference shielding effectiveness of polyaniline functionalized carbon nanotubes filled polystyrene composites. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1. | 0.8 | 116 |
| 4686 | Synthesis of Metal Oxide Nanomaterials for Chemical Sensors by Molecular Beam Epitaxy. , 2013, , 189-224. | | 0 |
| 4687 | The Effect of Exchange and Correlation Potentials on Adsorption of Nicotine on Graphene: A DFT Study. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 695-700. | 1.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4689 | Site-Specific Immobilization of Single-Walled Carbon Nanotubes onto Single and One-Dimensional DNA Origami. <i>Journal of the American Chemical Society</i> , 2013, 135, 2451-2454. | 6.6 | 55 |
| 4690 | Electrochemical synthesis of CdTe/SWNT hybrid nanostructures and their tunable electrical and optoelectrical properties. <i>Nanoscale</i> , 2013, 5, 1616. | 2.8 | 9 |
| 4691 | Adsorption-Induced Restructuring and Early Stages of Carbon-Nanotube Growth on Ni Nanoparticles. <i>Chemistry - A European Journal</i> , 2013, 19, 406-413. | 1.7 | 2 |
| 4692 | A Reversible Redox Strategy for SWCNT-Based Supercapacitors Using a High-Performance Electrolyte. <i>ChemPhysChem</i> , 2013, 14, 394-399. | 1.0 | 49 |
| 4693 | Formation of crosslinked-fullerene-like framework as negative replica of zeolite Y. <i>Carbon</i> , 2013, 62, 455-464. | 5.4 | 66 |
| 4694 | Enhancement of pullout energy in a single-walled carbon nanotube-polyethylene composite system via auxetic effect. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 55, 188-194. | 3.8 | 18 |
| 4695 | Self-aligned carbon nanotubes yarns (CNY) with efficient optoelectronic interface for microyarn shaped 3D photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 115, 166-171. | 3.0 | 19 |
| 4696 | SWCNT doped ferroelectric liquid crystal: The electro-optical properties with enhanced dipolar contribution. <i>Current Applied Physics</i> , 2013, 13, 684-687. | 1.1 | 19 |
| 4697 | An electrochemical microactuator based on highly textured LiCoO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 52-57. | 4.0 | 13 |
| 4698 | Atmospheric contaminants on graphitic surfaces. <i>Carbon</i> , 2013, 61, 33-39. | 5.4 | 72 |
| 4699 | High performance carbon nanotube spun yarns from a crosslinked network. <i>Carbon</i> , 2013, 52, 520-527. | 5.4 | 48 |
| 4700 | Improved field electron emission from SiC assisted carbon nanorod/nanotube heterostructured arrays by using energetic Si ion irradiation. <i>Surface and Coatings Technology</i> , 2013, 228, S323-S327. | 2.2 | 6 |
| 4701 | Simple and fast fluorimetric determination of the critical gel concentration of soft nanomaterials. <i>Analytica Chimica Acta</i> , 2013, 785, 91-97. | 2.6 | 4 |
| 4702 | Preparation and supercapacitor application of the single crystal nickel hydroxide and oxide nanosheets. <i>Materials Research Bulletin</i> , 2013, 48, 3518-3526. | 2.7 | 28 |
| 4703 | Formation of chiral nanotubes by the novel anthraquinone containing-achiral molecule. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 301-311. | 5.0 | 11 |
| 4704 | Counter-current ammonia injection flow during synthesis of single-walled carbon nanotubes by induction thermal plasma. <i>Chemical Engineering Science</i> , 2013, 104, 389-398. | 1.9 | 4 |
| 4705 | Building functional materials for health care and pharmacy from microfluidic principles and Flow Focusing. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1447-1469. | 6.6 | 96 |
| 4706 | Pyrolytic synthesis of boron-doped graphene and its application as electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2013, 108, 666-673. | 2.6 | 200 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4707 | Imaging the electronic structure of carbon nanotubes decorated with Fe ₂ O ₃ nanoparticles. <i>Applied Surface Science</i> , 2013, 273, 386-390. | 3.1 | 10 |
| 4708 | Synthesis and dielectric relaxation behavior of metallic Bi ₂ Te ₃ nanotubes. <i>Materials Letters</i> , 2013, 108, 25-28. | 1.3 | 5 |
| 4709 | Ultrasonic degradation of acetaminophen and naproxen in the presence of single-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2013, 254-255, 284-292. | 6.5 | 65 |
| 4710 | Self-assembled array of rectangular single-crystal microtubes of perchlorinated copper phthalocyanines. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 543-548. | 1.8 | 5 |
| 4711 | Improving mechanical and electrical properties of oriented polymer-free multi-walled carbon nanotube paper by spraying while winding. <i>Composites Part B: Engineering</i> , 2013, 53, 342-346. | 5.9 | 9 |
| 4712 | Influence of shear deformation on the electrical and rheological properties of combined filler networks in polymer melts: Carbon nanotubes and carbon black in polycarbonate. <i>Polymer</i> , 2013, 54, 5865-5874. | 1.8 | 45 |
| 4713 | Cross-linked multilayer composite films and microcapsules embedded carbon nanotubes. <i>Materials Letters</i> , 2013, 105, 132-135. | 1.3 | 10 |
| 4714 | Microwave sintering carbon nanotube/Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ composites and their electromagnetic performance. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2119-2126. | 2.8 | 47 |
| 4715 | Efficient dispersion of multi-walled carbon nanotubes in aqueous solution by non-covalent interaction with perylene bisimides. <i>RSC Advances</i> , 2013, 3, 24535. | 1.7 | 22 |
| 4716 | Encapsulating carbon nanotubes in aqueous ds-DNA anisotropic phases: shear orientation and rheological properties. <i>RSC Advances</i> , 2013, 3, 25917. | 1.7 | 7 |
| 4717 | First-principles study of the structural, energetic and electronic properties of C ₂₀ -carbon nanobuds. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 035006. | 0.8 | 5 |
| 4718 | Enhanced field emission and hysteresis characteristics of aligned carbon nanotubes with Ti decoration. <i>Organic Electronics</i> , 2013, 14, 2306-2314. | 1.4 | 27 |
| 4719 | Electrochemical determination of nicotinamide adenine dinucleotide and hydrogen peroxide based on poly(xanthurenic acid), flavin adenine dinucleotide and functionalized multi-walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 212-219. | 4.0 | 37 |
| 4720 | Electrochemical and electromechanical properties of high-performance polymer actuators containing vapor grown carbon nanofiber and metal oxide. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1065-1073. | 4.0 | 12 |
| 4722 | Luminescence functionalization of magnetite/multiwalled carbon nanotubes by YVO ₄ :Eu ³⁺ phosphors. <i>Solid State Sciences</i> , 2013, 15, 79-83. | 1.5 | 2 |
| 4723 | Transition between graphene-film and carbon-nanotube growth on Nickel alloys in open-atmosphere flame synthesis. <i>Chemical Physics Letters</i> , 2013, 570, 90-94. | 1.2 | 17 |
| 4724 | A stochastic algorithm for modeling heat welded random carbon nanotube network. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 259, 1-9. | 3.4 | 15 |
| 4725 | Hemin-graphene oxide-pristine carbon nanotubes complexes with intrinsic peroxidase-like activity for the detection of H ₂ O ₂ and simultaneous determination for Trp, AA, DA, and UA. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 496-501. | 4.0 | 70 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4726 | Synthesis of coaxial nanocables of single-walled carbon nanotubes sheathed with amorphous silicon oxide. <i>New Carbon Materials</i> , 2013, 28, 8-13. | 2.9 | 2 |
| 4727 | X-ray induced carbon coating on carbon nanotubes. <i>Carbon</i> , 2013, 56, 385-388. | 5.4 | 7 |
| 4728 | A novel approach for the fabrication of carbon nanofibre/ceramic porous structures. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2365-2374. | 2.8 | 15 |
| 4729 | Investigation of the interfacial phases formed between carbon nanotubes and aluminum in a bulk material. <i>Materials Chemistry and Physics</i> , 2013, 138, 787-793. | 2.0 | 46 |
| 4730 | Fabrication of patterned carbon nanotubes with adjustable arrays through controlled mesoscopic dewetting. <i>Reactive and Functional Polymers</i> , 2013, 73, 83-88. | 2.0 | 6 |
| 4731 | Metal nanoparticles inside multi-walled carbon nanotubes: A simple method of preparation and of microscopic image analysis. <i>Microporous and Mesoporous Materials</i> , 2013, 176, 139-144. | 2.2 | 11 |
| 4732 | Production of ethanol by gas phase hydrogenation of acetic acid over carbon nanotube-supported Pt@Sn nanoparticles. <i>Catalysis Today</i> , 2013, 215, 260-266. | 2.2 | 55 |
| 4733 | Comparison of electrochemical and electromechanical properties of a high performance carbon black polymer actuator and a single-walled carbon nanotube polymer actuator. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1103-1109. | 4.0 | 6 |
| 4734 | Facile synthesis of copper phthalocyanine supported on MWCNTs to improve their dispersibility and compatibility in PEN matrix. <i>Materials Letters</i> , 2013, 109, 116-119. | 1.3 | 15 |
| 4735 | Anisotropic studies of multi-wall carbon nanotube (MWCNT)-filled natural rubber (NR) and nitrile rubber (NBR) blends. <i>Polymer Testing</i> , 2013, 32, 1229-1236. | 2.3 | 32 |
| 4736 | A surface-conducted field emission device with suspended graphene cathodes. <i>Applied Surface Science</i> , 2013, 273, 432-436. | 3.1 | 9 |
| 4737 | Relationship between the electrochemical behavior of multiwalled carbon nanotubes (MWNTs) loaded with CuO and the photocatalytic activity of Eosin Y-MWNTs-CuO system. <i>Applied Surface Science</i> , 2013, 266, 288-293. | 3.1 | 14 |
| 4738 | A computational investigation of 11B and 15N chemical shielding tensors as well as local aromaticity based on NICS characterization in the N/B doped triangular graphene quantum dots. <i>Superlattices and Microstructures</i> , 2013, 62, 207-216. | 1.4 | 3 |
| 4739 | Uptake and intracellular distribution of collagen-functionalized single-walled carbon nanotubes. <i>Biomaterials</i> , 2013, 34, 2472-2479. | 5.7 | 55 |
| 4740 | Tuning the Dielectric Properties of Polystyrene/Poly(vinylidene fluoride) Blends by Selectively Localizing Carbon Black Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2505-2515. | 1.2 | 62 |
| 4741 | Single-walled carbon nanotube induced re-entrant hexagonal phases in a Pluronic block copolymer system. <i>Soft Matter</i> , 2013, 9, 3050. | 1.2 | 28 |
| 4742 | Salt-specific effects in aqueous dispersions of carbon nanotubes. <i>Soft Matter</i> , 2013, 9, 3712. | 1.2 | 28 |
| 4743 | Functionalizing Nanoparticles with Biological Molecules: Developing Chemistries that Facilitate Nanotechnology. <i>Chemical Reviews</i> , 2013, 113, 1904-2074. | 23.0 | 1,173 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4744 | A unified analysis of a micro-beam, droplet and CNT ring adhered on a substrate: Calculation of variation with movable boundaries. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013, 29, 62-72. | 1.5 | 42 |
| 4746 | The electrical response of carbon nanotube-based thin film sensors subjected to mechanical and environmental effects. <i>Smart Materials and Structures</i> , 2013, 22, 025010. | 1.8 | 30 |
| 4747 | Quantification of Carbon Nanomaterials <i>in Vivo</i> . <i>Accounts of Chemical Research</i> , 2013, 46, 750-760. | 7.6 | 63 |
| 4748 | Fused Porphyrin-Single-Walled Carbon Nanotube Hybrids: Efficient Formation and Photophysical Characterization. <i>ACS Nano</i> , 2013, 7, 3466-3475. | 7.3 | 67 |
| 4749 | A layer-by-layer deposition mechanism for producing a pyrolytic carbon coating on carbon nanotubes. <i>Carbon</i> , 2013, 57, 267-273. | 5.4 | 15 |
| 4751 | Carbon nanotubes: controlled growth and application. <i>Materials Today</i> , 2013, 16, 19-28. | 8.3 | 84 |
| 4752 | Electronic Structure of Graphdiyne Probed by X-ray Absorption Spectroscopy and Scanning Transmission X-ray Microscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5931-5936. | 1.5 | 62 |
| 4753 | Functional mesoporous carbon-coated CNT network for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2013, 37, 1294. | 1.4 | 12 |
| 4754 | Chemical Functionalization of Carbon Nanotubes for Dispersion in Epoxy Matrices. <i>Solid Mechanics and Its Applications</i> , 2013, , 155-183. | 0.1 | 2 |
| 4755 | Organic Solar Cells: A Review of Materials, Limitations, and Possibilities for Improvement. <i>Particulate Science and Technology</i> , 2013, 31, 427-442. | 1.1 | 150 |
| 4756 | Deploying RNA and DNA with Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5982-5992. | 1.5 | 35 |
| 4757 | Dynamics of the Formation of Carbon Nanotube Serpentine. <i>Physical Review Letters</i> , 2013, 110, 105502. | 2.9 | 10 |
| 4758 | Microwave-accelerated three components cyclocondensation in the synthesis of 2,3-dihydroquinazolin-4(1H)-ones promoted by Cu-CNTs. <i>Journal of Molecular Catalysis A</i> , 2013, 371, 135-140. | 4.8 | 53 |
| 4759 | Coatings based on conducting polymers and functionalized carbon nanotubes obtained by electropolymerization. <i>Progress in Organic Coatings</i> , 2013, 76, 632-638. | 1.9 | 37 |
| 4760 | Confinement effects and why carbon nanotube bundles can work as gas sensors. <i>Nanoscale</i> , 2013, 5, 2798. | 2.8 | 25 |
| 4761 | Are Carbon Nanotubes a Natural Solution? Applications in Biology and Medicine. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1870-1891. | 4.0 | 163 |
| 4762 | Hybrids of carbon nanotubes and graphene/graphene oxide. <i>Current Opinion in Solid State and Materials Science</i> , 2013, 17, 31-37. | 5.6 | 72 |
| 4763 | Nonlinear finite element vibration analysis of double-walled carbon nanotubes based on Timoshenko beam theory. <i>JVC/Journal of Vibration and Control</i> , 2013, 19, 75-85. | 1.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4764 | Novel carbon nanotube composites by grafting reaction with water-compatible redox initiator system. <i>Colloid and Polymer Science</i> , 2013, 291, 699-708. | 1.0 | 19 |
| 4765 | Synthesis, characterization and magnetic properties of carbon nanotubes decorated with magnetic $MnFe_2O_4$ nanoparticles. <i>Applied Surface Science</i> , 2013, 271, 118-124. | 3.1 | 34 |
| 4766 | Developing Descriptors To Predict Mechanical Properties of Nanotubes. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 773-782. | 2.5 | 11 |
| 4767 | Experimental and numerical investigation into the effect of carbon nanotube buckling on the reinforcement of CNT/Cu composites. <i>Composites Science and Technology</i> , 2013, 79, 28-34. | 3.8 | 56 |
| 4768 | Multiple functionalization of multi-walled carbon nanotubes with carboxyl and amino groups. <i>Applied Surface Science</i> , 2013, 276, 476-481. | 3.1 | 196 |
| 4769 | Single- and double-walled carbon nanotube based saturable absorbers for passive mode-locking of an erbium-doped fiber laser. <i>Laser Physics</i> , 2013, 23, 045105. | 0.6 | 45 |
| 4770 | Structure and Morphology Control in Crystalline Polymer-Carbon Nanotube Nanocomposites. <i>Macromolecules</i> , 2013, 46, 2877-2891. | 2.2 | 197 |
| 4771 | Effect of antioxidants on enzyme-catalysed biodegradation of carbon nanotubes. <i>Journal of Materials Chemistry B</i> , 2013, 1, 302-309. | 2.9 | 50 |
| 4772 | Janus Micelles as Effective Supracolloidal Dispersants for Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3602-3606. | 7.2 | 57 |
| 4773 | NO sensing one- and two-dimensional carbon nanostructures and nanohybrids: Progress and perspectives. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 9-21. | 4.0 | 34 |
| 4774 | Conducting Polymer/SWCNTs Modular Hybrid Materials via Diels-Alder Ligation. <i>Macromolecules</i> , 2013, 46, 2606-2615. | 2.2 | 35 |
| 4775 | The Road for Nanomaterials Industry: A Review of Carbon Nanotube Production, Post-Treatment, and Bulk Applications for Composites and Energy Storage. <i>Small</i> , 2013, 9, 1237-1265. | 5.2 | 617 |
| 4776 | A lead(II) sensor based on a glassy carbon electrode modified with Fe_3O_4 nanospheres and carbon nanotubes. <i>Mikrochimica Acta</i> , 2013, 180, 379-385. | 2.5 | 19 |
| 4777 | Carbon-Based Nanomaterials: Multifunctional Materials for Biomedical Engineering. <i>ACS Nano</i> , 2013, 7, 2891-2897. | 7.3 | 693 |
| 4778 | Nonprecious-Metal-Assisted Photochemical Hydrogen Production from <i>ortho</i> -Phenylenediamine. <i>Journal of the American Chemical Society</i> , 2013, 135, 8646-8654. | 6.6 | 52 |
| 4779 | Preparation of nanocrystalline-coated carbon nanotube/ $Ni_{0.5}Zn_{0.5}Fe_2O_4$ composite with excellent electromagnetic property as microwave absorber. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 145002. | 1.3 | 27 |
| 4780 | Fe-N doped carbon nanotube/graphene composite: facile synthesis and superior electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3302. | 5.2 | 115 |
| 4781 | Sulfur doped Co/SiO_2 catalysts for chirally selective synthesis of single walled carbon nanotubes. <i>Chemical Communications</i> , 2013, 49, 2031-2033. | 2.2 | 25 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 4782 | Chiral-Selective CoSO ₄ /SiO ₂ Catalyst for (9,8) Single-Walled Carbon Nanotube Growth. ACS Nano, 2013, 7, 614-626. | 7.3 | 101 |
| 4783 | Polystyrene composites with very high carbon nanotubes loadings by in situ grafting polymerization. Journal of Materials Research, 2013, 28, 1087-1096. | 1.2 | 14 |
| 4784 | Interactions of polydispersed single-walled carbon nanotubes with T cells resulting in downregulation of allogeneic CTL responses in vitro and in vivo. Nanotoxicology, 2013, 7, 1351-1360. | 1.6 | 28 |
| 4785 | Soft Oxidation of Single-Walled Carbon Nanotube Samples. Journal of Physical Chemistry C, 2013, 117, 8522-8529. | 1.5 | 14 |
| 4786 | Isolation of water soluble carbon nanotubes with network structure possessing multipodal junctions and its magnetic property. RSC Advances, 2013, 3, 7306. | 1.7 | 33 |
| 4787 | Morphology and tensile properties of PMMA carbon nanotubes nanocomposites and nanocomposites foams. Composites Science and Technology, 2013, 82, 29-37. | 3.8 | 63 |
| 4788 | Preparation of nitrogen-doped carbon submicrotubes by coaxial electrospinning and their electrocatalytic activity for oxygen reduction reaction in acid media. Electrochimica Acta, 2013, 96, 225-229. | 2.6 | 32 |
| 4789 | Photophysics of carbon nanotubes and nanotube composites. Chemical Physics, 2013, 413, 1-2. | 0.9 | 11 |
| 4790 | Pretreatment Control of Carbon Nanotube Array Growth for Gas Separation: Alignment and Growth Studied Using Microscopy and Small-Angle X-ray Scattering. ACS Applied Materials & Interfaces, 2013, 5, 3063-3070. | 4.0 | 17 |
| 4791 | Nanomaterials for Biosensors and Implantable Biodevices. , 2013, , 27-48. | | 19 |
| 4792 | Nitrogen-doped reduced graphene oxide supports for noble metal catalysts with greatly enhanced activity and stability. Applied Catalysis B: Environmental, 2013, 132-133, 379-388. | 10.8 | 231 |
| 4793 | High Purity and Yield Separation of Semiconducting Single-Walled Carbon Nanotubes Dispersed in Aqueous Solutions with Density Gradient Ultracentrifugation Using Mixed Dispersants of Polysaccharides and Surfactants. Japanese Journal of Applied Physics, 2013, 52, 035102. | 0.8 | 6 |
| 4794 | Ultrasound assisted shape regulation of CuO nanorods in ionic liquids and their use as energy efficient lubricant additives. Journal of Materials Chemistry A, 2013, 1, 5612. | 5.2 | 95 |
| 4795 | Green approach for the large-scale synthesis of metal/metal oxide nanoparticle decorated multiwalled carbon nanotubes. Journal of Materials Chemistry A, 2013, 1, 482-486. | 5.2 | 49 |
| 4796 | Development of electrical conductivity in PP/HDPE/MWCNT nanocomposite by melt mixing at very low loading of MWCNT. Polymer Composites, 2013, 34, 787-798. | 2.3 | 31 |
| 4797 | Helicity-Selective Photoreaction of Single-Walled Carbon Nanotubes with Organosulfur Compounds in the Presence of Oxygen. Journal of the American Chemical Society, 2013, 135, 6356-6362. | 6.6 | 33 |
| 4798 | The preparation of multi-walled carbon nanotube/poly(lactic acid) composites with excellent conductivity. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 489-496. | 2.7 | 27 |
| 4799 | Theoretical insights into [PMo ₁₂ O ₄₀] ³⁻ grafted on single-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2013, 15, 9177. | 1.3 | 27 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4800 | Vapor-Phase Hydrothermal Growth of Novel Segmentally Configured Nanotubular Crystal Structure. <i>Small</i> , 2013, 9, 3043-3050. | 5.2 | 9 |
| 4801 | Preparation and characterization of poly(trimethylene terephthalate)-poly(ethylene oxide) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 rgBT /Overlock 10 polymerization. <i>Polymer Engineering and Science</i> , 2013, 53, 914-922. | 1.5 | 4 |
| 4802 | Solid-state, flexible, high strength paper-based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5835. | 5.2 | 71 |
| 4803 | Shear Orientation in Nematic Carbon Nanotube Dispersions: A Combined NMR Investigation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8556-8562. | 1.5 | 10 |
| 4804 | Alignment of graphene sheets in wax composites for electromagnetic interference shielding improvement. <i>Nanotechnology</i> , 2013, 24, 115708. | 1.3 | 87 |
| 4805 | Biofuel Cells: Bioelectrochemistry Applied to the Generation of Green Electricity. , 2013, , 101-123. | | 3 |
| 4806 | Single-Layer MoS ₂ -Based Nanoprobes for Homogeneous Detection of Biomolecules. <i>Journal of the American Chemical Society</i> , 2013, 135, 5998-6001. | 6.6 | 995 |
| 4807 | Nanoengineered Colloidal Probes for Raman-Based Detection of Biomolecules inside Living Cells. <i>Small</i> , 2013, 9, 351-356. | 5.2 | 53 |
| 4808 | Nanocomposites of Polystyrene- <i>b</i> -Poly(isoprene)- <i>b</i> -Polystyrene Triblock Copolymer with Clay-Carbon Nanotube Hybrid Nanoadditives. <i>Journal of Physical Chemistry B</i> , 2013, 117, 907-915. | 1.2 | 18 |
| 4809 | CO ₂ -Responsive "Smart" Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2013, 25, 584-590. | 11.1 | 106 |
| 4810 | Scalable Formation of Carbon Nanotube Films Containing Highly Aligned Whiskerlike Crystallites. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 8705-8713. | 1.8 | 7 |
| 4811 | Studies of conducting polyaniline (PANI) wrapped-multiwalled carbon nanotubes (MWCNTs) nanocomposite and its application for optical pH sensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 407-412. | 4.0 | 51 |
| 4812 | Mechanical properties of nanosheets and nanotubes investigated using a new geometry independent volume definition. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 155302. | 0.7 | 27 |
| 4813 | Early Estimation of TSV Area for Power Delivery in 3-D ICs. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2013, , 43-51. | 0.3 | 0 |
| 4816 | Analysis and Mitigation of TSV-Induced Substrate Noise. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2013, , 15-26. | 0.3 | 0 |
| 4817 | TSVs for Power Delivery. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2013, , 27-41. | 0.3 | 0 |
| 4818 | Carbon Nanotubes for Advancing TSV Technology. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2013, , 53-62. | 0.3 | 0 |
| 4820 | Strategies for enhancing the analytical performance of nanomaterial-based sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 47, 27-36. | 5.8 | 103 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4821 | Functionalization of vertically aligned carbon nanotubes. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 129-152. | 1.5 | 83 |
| 4822 | Multi-walled carbon nanotubes for volatile organic compound detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 344-350. | 4.0 | 46 |
| 4823 | A route to rapid carbon nanotube growth. <i>Chemical Communications</i> , 2013, 49, 5159. | 2.2 | 36 |
| 4824 | Rheologic and mechanical properties of multiwalled carbon nanotubes-reinforced poly(trimethylene) Tj ETQq1 1 0.784314 rgBJ /Over | 1.7 | 22 |
| 4825 | Mechanical and flame-retardant properties of styrene-ethylene-butylene-styrene/carbon nanotube composites containing bisphenol A bis(diphenyl phosphate). <i>Composites Science and Technology</i> , 2013, 82, 8-14. | 3.8 | 43 |
| 4826 | Promises and Challenges of Unconventional Electrocatalyst Supports. <i>Lecture Notes in Energy</i> , 2013, , 689-728. | 0.2 | 2 |
| 4827 | Multifunctional films composed of carbon nanotubes and cellulose regenerated from alkaline-urea solution. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2161-2168. | 5.2 | 108 |
| 4828 | Nafion-MWCNT composite modified graphite paste for the analysis of quercetin in fruits of <i>Acanthopanax sessiliflorus</i> . <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 103-110. | 4.0 | 16 |
| 4829 | Analysis of CNT electronics structure to design CNTFET. , 2013, , . | | 10 |
| 4830 | Porous carbon-based materials for hydrogen storage: advancement and challenges. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9365. | 5.2 | 320 |
| 4831 | Light-Switchable Single-Walled Carbon Nanotubes Based on Host-Guest Chemistry. <i>Advanced Functional Materials</i> , 2013, 23, 5010-5018. | 7.8 | 37 |
| 4832 | Electrocatalytic oxidation and the mechanism of dopamine on a MWNT-modified glassy carbon electrode. <i>Russian Journal of Electrochemistry</i> , 2013, 49, 200-202. | 0.3 | 4 |
| 4833 | Amperometric detection of hydrogen peroxide utilizing synergistic action of cobalt hexacyanoferrate and carbon nanotubes chemically modified with platinum nanoparticles. <i>RSC Advances</i> , 2013, 3, 281-287. | 1.7 | 26 |
| 4834 | Assessment of electromechanical properties of screen printed polymer nanopastes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 511-519. | 1.7 | 11 |
| 4835 | Structure of hydrated cobalt ions confined in the nanospace of single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8264. | 1.3 | 12 |
| 4836 | Carbonaceous Impurities in Carbon Nanotubes are Responsible for Accelerated Electrochemistry of Cytochrome c. <i>Analytical Chemistry</i> , 2013, 85, 6195-6197. | 3.2 | 20 |
| 4837 | In Situ Bone Growth Detection Using Carbon Nanotubes-Titanium Sensors. <i>BioNanoScience</i> , 2013, 3, 184-191. | 1.5 | 6 |
| 4838 | Getting tubed: mechanical bond in endohedral derivatives of carbon nanotubes?. <i>Nanoscale</i> , 2013, 5, 7141. | 2.8 | 27 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4839 | Functionalization of Multi-Walled Carbon Nanotubes with Thermo-Responsive Azide-Terminated Poly(N-isopropylacrylamide) via Click Reactions. <i>Molecules</i> , 2013, 18, 4599-4612. | 1.7 | 26 |
| 4840 | An analytical solution on interface debonding for large diameter carbon nanotube-reinforced composite with functionally graded variation interphase. <i>Composite Structures</i> , 2013, 104, 261-269. | 3.1 | 37 |
| 4841 | Multi-walled carbon nanotube-based carbon/carbon composites with three-dimensional network structures. <i>Nanoscale</i> , 2013, 5, 6181. | 2.8 | 27 |
| 4842 | Nano-structure and property transformations of carbon systems under $\hat{\Gamma}^3$ -ray irradiation: a review. <i>RSC Advances</i> , 2013, 3, 10579. | 1.7 | 60 |
| 4843 | Electrical and flame-retardant properties of carbon nanotube/poly(ethylene terephthalate) composites containing bisphenol A bis(diphenyl phosphate). <i>Polymer</i> , 2013, 54, 3334-3340. | 1.8 | 29 |
| 4844 | Carbon Nanotubes in Acrylic Bone Cement. <i>Springer Series in Biomaterials Science and Engineering</i> , 2013, , 173-199. | 0.7 | 0 |
| 4845 | After the electronic field: Structure, bonding, and the first hyperpolarizability of HARf. <i>Journal of Computational Chemistry</i> , 2013, 34, 952-957. | 1.5 | 20 |
| 4846 | Preparation and characterization of poly(styrene-co-butyl acrylate)-encapsulated single-walled carbon nanotubes under ultrasonic irradiation. <i>Iranian Polymer Journal (English Edition)</i> , 2013, 22, 409-416. | 1.3 | 6 |
| 4847 | Carbon Nanotubeâ€“Poly(lactide-co-glycolide) Composite Scaffolds for Bone Tissue Engineering Applications. <i>Annals of Biomedical Engineering</i> , 2013, 41, 904-916. | 1.3 | 91 |
| 4848 | Carbon nanotube electrodes in organic transistors. <i>Nanoscale</i> , 2013, 5, 4638. | 2.8 | 38 |
| 4849 | Proteins and Peptides as Biological Nanowires: Towards Biosensing Devices. <i>Methods in Molecular Biology</i> , 2013, 996, 131-152. | 0.4 | 9 |
| 4850 | Dramatic enhancement of carbon nanotube dispersion in polyimide composites by a two-step amino functionalization approach. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3449-3457. | 2.5 | 10 |
| 4851 | Transparent, Conductive, and Printable Composites Consisting of TEMPO-Oxidized Nanocellulose and Carbon Nanotube. <i>Biomacromolecules</i> , 2013, 14, 1160-1165. | 2.6 | 257 |
| 4852 | Large-Scale Spinning Assembly of Neat, Morphology-Defined, Graphene-Based Hollow Fibers. <i>ACS Nano</i> , 2013, 7, 2406-2412. | 7.3 | 137 |
| 4853 | Oriented, polymer-stabilized carbon nanotube films: influence of dispersion rheology. <i>Nanotechnology</i> , 2013, 24, 015709. | 1.3 | 19 |
| 4854 | Direct Electrochemistry of Hemoglobin on Vertically Aligned Carbon Hybrid TiO ₂ Nanotubes and Its Highly Sensitive Biosensor Performance. <i>Chinese Journal of Chemistry</i> , 2013, 31, 215-220. | 2.6 | 10 |
| 4855 | Mechanical Dispersion Methods for Carbon Nanotubes in Aerospace Composite Matrix Systems. <i>Solid Mechanics and Its Applications</i> , 2013, , 99-154. | 0.1 | 3 |
| 4856 | Facile Synthesis of Phosphateâ€“Functionalized MWCNTâ€“TiO ₂ Nanocomposites as Efficient Photocatalysts and Insights into the Roles of Nanostructured Carbon. <i>ChemPlusChem</i> , 2013, 78, 670-676. | 1.3 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4857 | Functionalization of porous agarose film with single-walled carbon nanotubes as excellent electrochemical interface materials. <i>Polymer Composites</i> , 2013, 34, 482-486. | 2.3 | 2 |
| 4858 | Estimation of dispersion stability of UV/ozone treated multi-walled carbon nanotubes and their electrical properties. <i>Carbon</i> , 2013, 51, 346-354. | 5.4 | 32 |
| 4859 | Hierarchical, Guided Self-Assembly of Preselected Carbon Nanotubes for the Controlled Fabrication of CNT Structures by Electrooxidative Nanolithography. <i>Langmuir</i> , 2013, 29, 7515-7520. | 1.6 | 15 |
| 4860 | Purification of carbon nanotubes by high temperature chlorine gas treatment. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5615. | 1.3 | 31 |
| 4861 | CuO Necklace: Controlled Synthesis of a Metal Oxide and Carbon Nanotube Heterostructure for Enhanced Lithium Storage Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12346-12351. | 1.5 | 42 |
| 4862 | Carbon nanotube growth for through silicon via application. <i>Nanotechnology</i> , 2013, 24, 125603. | 1.3 | 39 |
| 4863 | Evaluation of the chemical interaction between carbon nanotubes functionalized with TGDDM tetrafunctional resin and hardener DDS. <i>Composites Part B: Engineering</i> , 2013, 51, 197-203. | 5.9 | 12 |
| 4864 | Carbon Nanotubes for Novel Hybrid Structural Composites with Enhanced Damage Tolerance and Self-Sensing/Actuating Abilities. <i>Solid Mechanics and Its Applications</i> , 2013, , 1-20. | 0.1 | 4 |
| 4865 | Carbon Nanotube Structures with Sensing and Actuating Capabilities. <i>Solid Mechanics and Its Applications</i> , 2013, , 57-97. | 0.1 | 1 |
| 4866 | Confinement Effects on UV-Visible Absorption Spectra: β -Carotene Inside Carbon Nanotube as a Test Case. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1239-1243. | 2.1 | 22 |
| 4867 | Label-free electrochemical IgE aptasensor based on covalent attachment of aptamer onto multiwalled carbon nanotubes/ionic liquid/chitosan nanocomposite modified electrode. <i>Biosensors and Bioelectronics</i> , 2013, 43, 218-225. | 5.3 | 123 |
| 4868 | Effect of the Support of Nickel-Containing Catalysts for the Synthesis of Carbon Nanotubes on Their Internal and External Diameters. <i>Theoretical and Experimental Chemistry</i> , 2013, 49, 121-125. | 0.2 | 6 |
| 4869 | Multi-walled carbon nanotube/poly(glycine) modified carbon paste electrode for the determination of dopamine in biological fluids and pharmaceuticals. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 458-465. | 2.5 | 69 |
| 4870 | Catalyst-free synthesis of multi-walled carbon nanotubes from carbon spheres and its implications for the formation mechanism. <i>Carbon</i> , 2013, 53, 137-144. | 5.4 | 12 |
| 4871 | A rapid screening technique for estimating nanoparticle transport in porous media. <i>Water Research</i> , 2013, 47, 4086-4094. | 5.3 | 33 |
| 4872 | A facile synthesis of ZnxCd1-xS/CNTs nanocomposite photocatalyst for H ₂ production. <i>Dalton Transactions</i> , 2013, 42, 9976. | 1.6 | 52 |
| 4873 | Pressure-dependent electrical conductivity of freestanding three-dimensional carbon nanotube network. <i>Applied Physics Letters</i> , 2013, 102, . | 1.5 | 16 |
| 4874 | Raman Spectroscopic Investigation of Individual Single-Walled Carbon Nanotubes Helically Wrapped by Ionic, Semiconducting Polymers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14840-14849. | 1.5 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 4875 | Dielectric percolative composites with high dielectric constant and low dielectric loss based on sulfonated poly(aryl ether ketone) and a-MWCNTs coated with polyaniline. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4035. | 2.7 | 33 |
| 4876 | Quantum mechanical treatment of binding energy between DNA nucleobases and carbon nanotube: A DFT analysis. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 54, 65-71. | 1.3 | 20 |
| 4877 | Chirality Affects Aggregation Kinetics of Single-Walled Carbon Nanotubes. <i>Environmental Science & Technology</i> , 2013, 47, 1844-1852. | 4.6 | 52 |
| 4878 | Improving Electrical Conductivity in Polycarbonate Nanocomposites Using Highly Conductive PEDOT/PSS Coated MWCNTs. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6189-6200. | 4.0 | 123 |
| 4879 | Mechanical Reinforcement of Polybenzoxazole by Carbon Nanotubes through Noncovalent Functionalization. <i>Macromolecules</i> , 2013, 46, 4034-4040. | 2.2 | 43 |
| 4880 | SWCNT Induced Crystallization in an Amorphous All-Aromatic Poly(ether imide). <i>Macromolecules</i> , 2013, 46, 1492-1503. | 2.2 | 34 |
| 4881 | Effect of CNT alignment on the strain sensing capability of carbon nanotube composites. <i>Smart Materials and Structures</i> , 2013, 22, 075006. | 1.8 | 72 |
| 4882 | Biodegradable poly(ethylene succinate) nanocomposites. Effect of filler type on thermal behaviour and crystallization kinetics. <i>Polymer</i> , 2013, 54, 4604-4616. | 1.8 | 43 |
| 4883 | Developing Polymer Composite Materials: Carbon Nanotubes or Graphene?. <i>Advanced Materials</i> , 2013, 25, 5153-5176. | 11.1 | 398 |
| 4884 | Realizing Comparable Oxidative and Cytotoxic Potential of Single- and Multiwalled Carbon Nanotubes through Annealing. <i>Environmental Science & Technology</i> , 2013, 47, 130726133045005. | 4.6 | 24 |
| 4885 | Electrode materials for aqueous asymmetric supercapacitors. <i>RSC Advances</i> , 2013, 3, 13059. | 1.7 | 469 |
| 4887 | Carbon nanotubes and hydrogen production from the reforming of toluene. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 8790-8797. | 3.8 | 27 |
| 4888 | Electrically conductive aerogels composed of cellulose and carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9714. | 5.2 | 72 |
| 4889 | Polylactide (PLA)-based nanocomposites. <i>Progress in Polymer Science</i> , 2013, 38, 1504-1542. | 11.8 | 992 |
| 4890 | Polymer Nanocomposites - Materials for Sensor Technology. <i>Materials Science Forum</i> , 0, 757, 197-216. | 0.3 | 2 |
| 4891 | Solvothermal One-Step Synthesis of Ni-Al Layered Double Hydroxide/Carbon Nanotube/Reduced Graphene Oxide Sheet Ternary Nanocomposite with Ultrahigh Capacitance for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5443-5454. | 4.0 | 246 |
| 4892 | CNT Induced Î²-Phase in Polylactide: Unique Crystallization, Biodegradation, and Biocompatibility. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10163-10174. | 1.5 | 57 |
| 4893 | Fibrous hydroxyapatite-carbon nanotube composites by chemical vapor deposition: In situ fabrication, structural and morphological characterization. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 457-464. | 1.7 | 14 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4894 | Photoluminescent properties of new quantum dot nanoparticles/carbon nanotubes hybrid structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 439, 138-144. | 2.3 | 10 |
| 4895 | Directed/localized growth of multiwalled carbon nanotubes catalyzed by cobalt nanoclusters. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1798. | 2.7 | 5 |
| 4896 | Immobilizing Carbon Nanotubes on SiC Foam as a Monolith Catalyst for Oxidative Dehydrogenation Reactions. <i>ChemCatChem</i> , 2013, 5, 1713-1717. | 1.8 | 25 |
| 4897 | Easy and controlled synthesis of nitrogen-doped carbon. <i>Carbon</i> , 2013, 55, 98-107. | 5.4 | 41 |
| 4898 | Rational Design of Advanced Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2013, 3, 549-565. | 10.2 | 264 |
| 4899 | Chapter 2. Actuators and Infrared Sensors Based on Carbon Nanotube-Polymer Composites. <i>RSC Nanoscience and Nanotechnology</i> , 2013, , 22-50. | 0.2 | 2 |
| 4900 | Chapter 4. Chemical Functionalisation of Carbon Nanotubes for Polymer Reinforcement. <i>RSC Nanoscience and Nanotechnology</i> , 2013, , 72-119. | 0.2 | 2 |
| 4901 | Metallic Single-walled Carbon Nanotubes for Electrically Conductive Materials and Devices. <i>RSC Nanoscience and Nanotechnology</i> , 2013, , 182-211. | 0.2 | 1 |
| 4902 | Methods for Improving the Integration of Functionalized Carbon Nanotubes in Polymers. <i>RSC Nanoscience and Nanotechnology</i> , 2013, , 234-252. | 0.2 | 2 |
| 4903 | Chapter 3. Photoelectrical Responses of Carbon Nanotube-Polymer Composites. <i>RSC Nanoscience and Nanotechnology</i> , 2013, , 51-71. | 0.2 | 0 |
| 4904 | Dispersion and Rheology of Multiwalled Carbon Nanotubes in Unsaturated Polyester Resin. <i>Macromolecules</i> , 2013, 46, 1642-1650. | 2.2 | 67 |
| 4905 | One-step chemical vapor deposition synthesis of magnetic CNT-hercynite (FeAl ₂ O ₄) hybrids with good aqueous colloidal stability. <i>Carbon</i> , 2013, 61, 515-524. | 5.4 | 16 |
| 4906 | Fracture and negative Poisson's ratio of novel spanned-fullerenes nanotube networks under tension. <i>Computational Materials Science</i> , 2013, 80, 15-26. | 1.4 | 19 |
| 4907 | The influence of CNTs on the thermoelectric properties of a CNT/Bi ₂ Te ₃ composite. <i>Carbon</i> , 2013, 52, 541-549. | 5.4 | 156 |
| 4908 | Polysiloxane Nanotubes. <i>Chemistry of Materials</i> , 2013, 25, 2787-2792. | 3.2 | 41 |
| 4909 | The microwave absorbing properties of SmCo attached single wall carbon nanotube/epoxy composites. <i>Journal of Alloys and Compounds</i> , 2013, 575, 123-127. | 2.8 | 38 |
| 4910 | Modeling microscale instabilities in compressed carbon nanotube bundles using multistable spring models. <i>Composite Structures</i> , 2013, 96, 745-750. | 3.1 | 6 |
| 4911 | Effects of acid treatment on structure, properties and biocompatibility of carbon nanotubes. <i>Applied Surface Science</i> , 2013, 264, 261-268. | 3.1 | 59 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 4912 | One-step electrochemically co-assembled redox-active [Ru(bpy) ₂ (tapt)] ₂ •BSA•SWCNTs hybrid film for non-redox protein biosensors. <i>Biosensors and Bioelectronics</i> , 2013, 39, 106-111. | 5.3 | 12 |
| 4913 | A simple route to fabricate controllable and stable multilayered all-MWNTs films and their applications for the detection of NADH at low potentials. <i>Biosensors and Bioelectronics</i> , 2013, 39, 289-295. | 5.3 | 34 |
| 4914 | Surface morphology of hybrids of double-stranded DNA and single-walled carbon nanotubes studied by atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 49-54. | 2.5 | 29 |
| 4915 | Highly efficient individual dispersion of single-walled carbon nanotubes using biocompatible dispersant. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 95-101. | 2.5 | 20 |
| 4916 | Highly sensitive humidity sensing properties of carbon quantum dots films. <i>Materials Research Bulletin</i> , 2013, 48, 790-794. | 2.7 | 71 |
| 4917 | Preparation and application of carbon nanotubes/poly(<i>o</i> -toluidine) composite fibers for the headspace solid-phase microextraction of benzene, toluene, ethylbenzene, and xylenes. <i>Journal of Separation Science</i> , 2013, 36, 3550-3557. | 1.3 | 14 |
| 4918 | Nanocomposites of poly(thioureaamide) with carbon nanotube. <i>High Performance Polymers</i> , 2013, 25, 813-821. | 0.8 | 6 |
| 4920 | Engineered fabrication of ordered arrays of Au•NiO•Au nanowires. <i>Nanotechnology</i> , 2013, 24, 045302. | 1.3 | 12 |
| 4921 | Probing Disordered Structure and Tube•Tube Interaction in Carbon Nanotubes by Scanning Transmission X-ray Microscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1969-1973. | 1.5 | 4 |
| 4922 | Revealing the Impact of Catalyst Phase Transition on Carbon Nanotube Growth by <i>in Situ</i> Raman Spectroscopy. <i>ACS Nano</i> , 2013, 7, 1100-1107. | 7.3 | 60 |
| 4923 | Influence of Solution Chemistry on the Release of Multiwalled Carbon Nanotubes from Silica Surfaces. <i>Environmental Science & Technology</i> , 2013, 47, 12211-12218. | 4.6 | 42 |
| 4924 | Transitional failure of hybrid carbon nanotubes under multiaxial loads. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 53, 95-100. | 1.3 | 1 |
| 4925 | Impact of temperature variation on CNTFET device characteristics. , 2013, , . | | 15 |
| 4926 | Magnetic and enhanced microwave absorption properties of nanoparticles of Li _{0.32} Zn _{0.26} Cu _{0.1} Fe _{2.32} O ₄ encapsulated in carbon nanotubes. <i>Materials Letters</i> , 2013, 95, 145-148. | 1.3 | 44 |
| 4927 | Effect of the synthetic strategy on the non-covalent functionalization of multi-walled carbon nanotubes with polymerized ionic liquids. <i>Carbon</i> , 2013, 57, 209-216. | 5.4 | 44 |
| 4928 | Facile Preparation, Characterization, and Highly Effective Microwave Absorption Performance of CNTs/Fe ₃ O ₄ /PANI Nanocomposites. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7. | 1.5 | 5 |
| 4929 | Nanostructured voltammetric sensor for ultra-trace anabolic drug determination in food safety field. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1241-1249. | 4.0 | 15 |
| 4930 | Electrooxidative behavior and determination of trifluoperazine at multiwalled carbon nanotube-modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1059-1066. | 1.2 | 24 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4931 | Self-Assembled and Highly Selective Sensors Based on Air-Bridge-Structured Nanowire Junction Arrays. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6802-6807. | 4.0 | 62 |
| 4932 | Time-Resolved Observation of Chiral-Index-Selective Wrapping on Single-Walled Carbon Nanotube with Non-Aromatic Polysilane. <i>Journal of the American Chemical Society</i> , 2013, 135, 2374-2383. | 6.6 | 22 |
| 4933 | Synthesis of porous carbon nanotubes foam composites with a high accessible surface area and tunable porosity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9508. | 5.2 | 69 |
| 4934 | Lithographically Patterned Thin Activated Carbon Films as a New Technology Platform for On-Chip Devices. <i>ACS Nano</i> , 2013, 7, 6498-6506. | 7.3 | 90 |
| 4935 | Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. <i>IEEE Sensors Journal</i> , 2013, 13, 4749-4756. | 2.4 | 56 |
| 4936 | Multiwall Carbon Nanotubes Mediate Macrophage Activation and Promote Pulmonary Fibrosis Through TGF β ² /Smad Signaling Pathway. <i>Small</i> , 2013, 9, 3799-3811. | 5.2 | 121 |
| 4937 | Single-Step Rapid Assembly of DNA Origami Nanostructures for Addressable Nanoscale Bioreactors. <i>Journal of the American Chemical Society</i> , 2013, 135, 696-702. | 6.6 | 242 |
| 4938 | Improved the electrochemical property of multiwall carbon nanotubes by mesophase pitch fluoride coating. <i>Journal of Materials Science</i> , 2013, 48, 8454-8462. | 1.7 | 1 |
| 4939 | Polyetherimide/Bucky Gels Nanocomposites with Superior Conductivity and Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7478-7484. | 4.0 | 19 |
| 4940 | Polymer Grafting to Single-Walled Carbon Nanotubes: Effect of Chain Length on Solubility, Graft Density and Mechanical Properties of Macroscopic Structures. <i>Small</i> , 2013, 9, 552-560. | 5.2 | 42 |
| 4941 | Preparation, structure, and properties of chitosan/cellulose/multiwalled carbon nanotube composite membranes and fibers. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1193-1199. | 1.3 | 30 |
| 4942 | Corrosion and thermal stability of multi-walled carbon nanotube-graphite-acrylonitrile-butadiene-styrene composite bipolar plates for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2013, 221, 345-355. | 4.0 | 28 |
| 4943 | Bio-Inspired Synthesis of Minerals for Energy, Environment, and Medicinal Applications. <i>Advanced Functional Materials</i> , 2013, 23, 10-25. | 7.8 | 94 |
| 4944 | Development of polyaniline-multiwalled carbon nanotube (PANI-MWCNT) nanocomposite for optical pH sensor. <i>Materials Research Innovations</i> , 2013, 17, 238-243. | 1.0 | 10 |
| 4945 | Defect-Induced Mechanical Mode Splitting in Carbon Nanotube Resonators. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, . | 1.0 | 5 |
| 4946 | Effect of the nanotube aspect ratio and surface functionalization on the morphology and properties of multiwalled carbon nanotube polyamide-based fibers. <i>Journal of Applied Polymer Science</i> , 2013, 129, 2479-2489. | 1.3 | 19 |
| 4947 | Influence of molecular structure on plasma carbonization of organic semiconductor molecules. <i>Journal of Physics: Conference Series</i> , 2013, 441, 012041. | 0.3 | 0 |
| 4948 | Solution-processed soldering of carbon nanotubes for flexible electronics. <i>Nanotechnology</i> , 2013, 24, 075301. | 1.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 4949 | Percolated pore networks of oxygen plasma-activated multi-walled carbon nanotubes for fast response, high sensitivity capacitive humidity sensors. <i>Nanotechnology</i> , 2013, 24, 085501. | 1.3 | 33 |
| 4950 | Effect of hydrogen pretreatment on the spin-capability of a multiwalled carbon nanotube forest. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 06F102. | 0.6 | 14 |
| 4951 | Note: Detecting flow velocity with high purity semiconducting single-walled carbon nanotubes. <i>Review of Scientific Instruments</i> , 2013, 84, 036110. | 0.6 | 3 |
| 4952 | Nanocomposite Coatings Codeposited with Nanoparticles Using Aerosol-Assisted Chemical Vapour Deposition. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8. | 1.5 | 11 |
| 4953 | Improved Processing of Carbon Nanotube Yarn. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7. | 1.5 | 12 |
| 4954 | Integration of Carbon Nanotubes in Microsystems: Local Growth and Electrical Properties of Contacts. <i>Materials</i> , 2013, 6, 3094-3107. | 1.3 | 11 |
| 4955 | The Preparation of Carbon Nanotube/MnO ₂ Composite Fiber and Its Application to Flexible Micro-Supercapacitor. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5. | 1.5 | 6 |
| 4956 | Focused Ion Beam Milling of Carbon Nanotube Yarns and Bucky-Papers: Correlating Their Internal Structure with Their Macro-Properties. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2013, , 63-93. | 0.4 | 2 |
| 4957 | Progress in Imidazolium Ionic Liquids Assisted Fabrication of Carbon Nanotube and Graphene Polymer Composites. <i>Polymers</i> , 2013, 5, 847-872. | 2.0 | 78 |
| 4958 | Carbon Nanotube-Epoxy Nanocomposites: Correlation and Integration of Dynamic Impedance, Dielectric, and Mechanical Analyses. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-11. | 1.5 | 10 |
| 4959 | Manufacturing process improvement and mechanical modelling of multiwalled carbon nanotube/epoxy composites. <i>Plastics, Rubber and Composites</i> , 2013, 42, 210-218. | 0.9 | 5 |
| 4960 | Mechanical Behavior and Structural Evolution of Carbon Nanotube Films and Fibers Under Tension: A Coarse-Grained Molecular Dynamics Study. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, . | 1.1 | 15 |
| 4961 | Synthesis and Characterization of Large Area Carbon Nanotubes Array. <i>Advanced Materials Research</i> , 2013, 750-752, 232-235. | 0.3 | 0 |
| 4962 | Characterization and Microwave Absorption Performance of CNTs/Fe ₃ O ₄ /PANI Nanocomposites. <i>Advanced Materials Research</i> , 2013, 842, 242-246. | 0.3 | 4 |
| 4963 | Morphology dependence of electron spin resonance investigation on structure controllable hollow La _{0.7} Sr _{0.3} MnO ₃ nanofibres. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 105001. | 1.3 | 3 |
| 4964 | Evaluation of cytotoxicity, biophysics and biomechanics of cells treated with functionalized hybrid nanomaterials. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130694. | 1.5 | 21 |
| 4965 | Multi-Scale Analysis for Tensile Mechanical Properties of Carbon Nanotube Fibers by <i>In Situ</i> Raman Spectroscopy. <i>Applied Mechanics and Materials</i> , 2013, 385-386, 47-50. | 0.2 | 0 |
| 4966 | Transparent Conductive CNT/PMMA Nanocomposite Via Electrostatic Adsorption Technique. <i>ECS Transactions</i> , 2013, 50, 165-169. | 0.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 4967 | A Systematic and Comparative Study of Binary Metal Catalysts for Carbon Nanotube Fabrication Using CVD and Laser Evaporation. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 273-285. | 1.0 | 7 |
| 4968 | Carbon Nanotubes Improves the Tribological Properties of Ni ₆₀ /Al ₂ O ₃ Coatings. Advanced Materials Research, 2013, 785-786, 864-871. | 0.3 | 1 |
| 4969 | Field Emission Properties of Spiral Pattern by Screen Printing. Japanese Journal of Applied Physics, 2013, 52, 11NJ08. | 0.8 | 1 |
| 4970 | Interaction of atomic quantum gases with a single carbon nanotube. Europhysics Letters, 2013, 102, 33001. | 0.7 | 1 |
| 4971 | A facile method to align carbon nanotubes on polymeric membrane substrate. Scientific Reports, 2013, 3, 3480. | 1.6 | 22 |
| 4972 | All-silicone prestrain-locked interpenetrating polymer network elastomers: free-standing silicone artificial muscles with improved performance and robustness. Smart Materials and Structures, 2013, 22, 055022. | 1.8 | 45 |
| 4973 | Wave-Packet Dynamics Simulation on Electronic Transport in Carbon Nanotubes with Randomly Distributed Impurities. Japanese Journal of Applied Physics, 2013, 52, 06GD07. | 0.8 | 3 |
| 4974 | Determining In-plane and Thru-plane Percolation Thresholds for Carbon Nanotube Thin Films Deposited on Paper Substrates Using Impedance Spectroscopy. Materials Research Society Symposia Proceedings, 2013, 1549, 117-122. | 0.1 | 4 |
| 4975 | Polymer Nanocomposites Containing Functionalised Multiwalled Carbon NanoTubes: a Particular Attention to Polyolefin Based Materials. , 0, , . | | 9 |
| 4976 | A convenient method for preparation of polystyrene-single-walled carbon nanotubes by metal-catalyzed living radical polymerization method. Journal of Polymer Engineering, 2013, 33, 463-469. | 0.6 | 5 |
| 4977 | Adsorption of Primary Alcohol Molecules on Trigonal Selenium Nanowires. Japanese Journal of Applied Physics, 2013, 52, 105001. | 0.8 | 2 |
| 4978 | Recent advances in the analysis of nanotube-reinforced polymeric biomaterials. Journal of the Mechanical Behavior of Materials, 2013, 22, 137-148. | 0.7 | 4 |
| 4979 | Broadâ€Spectralâ€Response Nanocarbon Bulkâ€Heterojunction Excitonic Photodetectors. Advanced Materials, 2013, 25, 3433-3437. | 11.1 | 99 |
| 4980 | Mineralization of phenanthrene sorbed on multiwalled carbon nanotubes. Environmental Toxicology and Chemistry, 2013, 32, 894-901. | 2.2 | 9 |
| 4981 | Electrohydrodynamic Patterning of Functional Materials. Springer Theses, 2013, , . | 0.0 | 9 |
| 4982 | Routes to self-assembly of nanorods. Journal of Materials Research, 2013, 28, 1761-1776. | 1.2 | 12 |
| 4983 | Predicting mechanical properties of multiscale composites. Plastics, Rubber and Composites, 2013, 42, 349-360. | 0.9 | 1 |
| 4984 | Preparation and Properties of Carbon Nanotubes Reinforced Cu Matrix Composites for Electronic Packaging Application. Applied Mechanics and Materials, 0, 275-277, 1789-1793. | 0.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 4985 | Development of the Strain Sensors Based on CNT/Epoxy Using Screen Printing. Key Engineering Materials, 2013, 588, 84-90. | 0.4 | 3 |
| 4986 | Effect of Catalyst Calcination Temperature on the Synthesis of MWCNTs-Talc Hybrid Compound Using CVD Method. Key Engineering Materials, 2013, 594-595, 63-67. | 0.4 | 0 |
| 4987 | Gas Sensors Based on Deposited Single-Walled Carbon Nanotubes-Polypyrrole Networks for Ammonia Detection. Advanced Materials Research, 0, 815, 501-507. | 0.3 | 3 |
| 4988 | Analysis of Sigmoid Functionally Graded Material (S-FGM) Nanoscale Plates Using the Nonlocal Elasticity Theory. Mathematical Problems in Engineering, 2013, 2013, 1-10. | 0.6 | 11 |
| 4989 | Flexible and Weaveable Capacitor Wire Based on a Carbon Nanocomposite Fiber. Advanced Materials, 2013, 25, 5965-5970. | 11.1 | 441 |
| 4990 | Polyolefins: 50 years after Ziegler and Natta II. Advances in Polymer Science, 2013, , . | 0.4 | 23 |
| 4991 | Experimental study on the mechanical reliability of carbon nanotubes. , 2013, , . | | 1 |
| 4992 | Synthesis of carbon based nanomaterials for tissue engineering applications. , 2013, , 119-157. | | 5 |
| 4993 | The effects of three-dimensional shaping of vertically aligned carbon-nanotube contacts for micro-electro-mechanical switches. Applied Physics Letters, 2013, 103, 231606. | 1.5 | 8 |
| 4994 | Conduction and electric field effect in ultra-thin TiN films. Applied Physics Letters, 2013, 103, 051904. | 1.5 | 20 |
| 4995 | Significantly enhanced thermoelectric properties of ultralong double-walled carbon nanotube bundle. Applied Physics Letters, 2013, 102, 053105. | 1.5 | 27 |
| 4996 | Electron field emission from reduced graphene oxide on polymer film. Applied Physics Letters, 2013, 102, . | 1.5 | 17 |
| 4997 | MULTI-WALL CARBON NANOTUBE-BASED DNA NANOSENSOR FOR DETERMINING MITOXANTRONE-DNA INTERACTION<i>IN-VITRO</i>. Instrumentation Science and Technology, 2013, 41, 325-334. | 0.9 | 7 |
| 4998 | Bis(<i>tert</i>-butylpyrene) Nanotweezers and Nanocalipers: Enhanced Extraction and Recognition Abilities for Single-Walled Carbon Nanotubes. Chemistry - A European Journal, 2013, 19, 16221-16230. | 1.7 | 14 |
| 4999 | Enhanced performance of inverted organic photovoltaic cells using CNTsâ€TiO_xnanocomposites as electron injection layer. Nanotechnology, 2013, 24, 355401. | 1.3 | 14 |
| 5000 | Multiscale Mass-Spring Models of Carbon Nanotube Arrays Accounting for Mullins-like Behavior and Permanent Deformation. Multiscale Modeling and Simulation, 2013, 11, 545-565. | 0.6 | 4 |
| 5001 | Mapping purity of single-walled carbon nanotubes in bulk samples with multiplex coherent anti-stokes Raman microscopy. , 2013, , . | | 0 |
| 5002 | Enhanced Rate Capability by Employing Carbon Nanotube-Loaded Electrospun Si/C Composite Nanofibers As Binder-Free Anodes. Journal of the Electrochemical Society, 2013, 160, A528-A534. | 1.3 | 31 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5003 | Poly lactide stereocomplex crystallization prompted by multiwall carbon nanotubes. Journal of Applied Polymer Science, 2013, 130, 4327-4337. | 1.3 | 23 |
| 5004 | Design, engineering and structural integrity of electro-responsive carbon nanotube- based hydrogels for pulsatile drug release. Journal of Materials Chemistry B, 2013, 1, 4593. | 2.9 | 63 |
| 5005 | Polyolefin Nanocomposites and Hybrid Catalysts. Advances in Polymer Science, 2013, , 279-309. | 0.4 | 17 |
| 5006 | Evaluation of thermal conductivity of single carbon nanotube in liquid and air using photofabricated fluorescence microsensors. , 2013, , . | | 0 |
| 5007 | Density Functional Theory Studying for Nicotine Adsorption on Nanotube to Predict Thermodynamic Properties. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 757-764. | 1.0 | 0 |
| 5008 | Fabrication of polystyrene/multiwalled carbon nanotube composite films synthesized by <i>in situ</i> microemulsion polymerization. Polymer Engineering and Science, 2013, 53, 1327-1336. | 1.5 | 22 |
| 5009 | Defect Healing and Enhanced Nucleation of Carbon Nanotubes by Low-Energy Ion Bombardment. Physical Review Letters, 2013, 110, 065501. | 2.9 | 65 |
| 5010 | Evaluation of thermal conductivity of single carbon nanotubes in air and liquid using a fluorescence temperature sensor. Applied Physics Letters, 2013, 103, . | 1.5 | 7 |
| 5011 | Generalization of the Gouy-Chapman-Stern model of an electric double layer for a morphologically complex electrode: Deterministic and stochastic morphologies. Physical Review E, 2013, 88, 052303. | 0.8 | 39 |
| 5012 | Growth of one-dimensional vertically aligned carbon nanostructures on SiC Catalyst effect. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, . | 0.9 | 0 |
| 5013 | Buckling of double-walled carbon nanotubes under compression and bending: Influence of vacancy defects and effect of high-temperature annealing. Journal of Applied Physics, 2013, 114, 174308. | 1.1 | 2 |
| 5014 | Atomistic study of welding of carbon nanotube onto metallic substrates. , 2013, , . | | 1 |
| 5015 | Dielectric relaxation in polyvinyl alcohol-polypyrrole-multiwall carbon nanotube composites below room temperature. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2013, 4, 025005. | 0.7 | 37 |
| 5016 | Atomic force microscopy imaging of dialyzed single-walled carbon nanotubes dispersed with sodium dodecyl sulfate. International Journal of Smart and Nano Materials, 2013, 4, 119-127. | 2.0 | 3 |
| 5017 | Effects of micro-sized and nano-sized carbon fillers on the thermal and electrical properties of polyphenylene sulfide based composites. Polymer Engineering and Science, 2013, 53, 2398-2406. | 1.5 | 40 |
| 5018 | THE PREPARATION OF SOLVENT-FREE MULTIWALL CARBON NANOTUBES/SILICA HYBRID NANOMATERIAL WITH LIQUID-LIKE BEHAVIOR. Functional Materials Letters, 2013, 06, 1350015. | 0.7 | 1 |
| 5019 | Multifunctional carbon nanotube-epoxy composites for thermal energy management. Journal of Composite Materials, 2013, 47, 77-95. | 1.2 | 20 |
| 5020 | Non-metallic nanomaterials in cancer theranostics: a review of silica- and carbon-based drug delivery systems. Science and Technology of Advanced Materials, 2013, 14, 044407. | 2.8 | 66 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5021 | Chiral Poly(Amide-Imide)/Carbon Nanotube Bionanocomposites Containing Hydroxyl Pendant Groups and L-Phenylalanine Amino Acid: Synthesis, Preparation of Thin Films, and Thermomechanical Behavior. <i>Soft Materials</i> , 2013, 11, 494-502. | 0.8 | 14 |
| 5022 | (3,3)₄ Armchair Carbon Nanotube in Connection with PNP and NPN Junctions: Ab Initio and DFT-Based Studies. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 213-232. | 1.0 | 11 |
| 5023 | Molecular Dynamics Simulation of Damage to Coiled Carbon Nanotubes under C Ion Irradiation. <i>Chinese Physics Letters</i> , 2013, 30, 113402. | 1.3 | 0 |
| 5024 | SWCNT Thin Film Enabled Piezoresistive Fiber Sensors - Fabrication, Characterization and Application for SHM of Polymeric Composite Structures. , 2013, , . | | 0 |
| 5025 | A Study of Surface Modifications of Carbon Nanotubes on the Properties of Polyamide 66/Multiwalled Carbon Nanotube Composites. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8. | 1.5 | 19 |
| 5026 | Phenomenological Characterization of the Fabrication of Aligned Carbon Nanotube Nanocomposites via Dielectrophoresis Under AC Electric Field. , 2013, , . | | 1 |
| 5027 | Hydroxylâ€phosphazeneâ€wrapped carbon nanotubes and its application in ethyleneâ€vinyl acetate copolymer. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4245-4254. | 1.3 | 5 |
| 5028 | Green Carbon Nanomaterials. , 2013, , 7-58. | | 0 |
| 5029 | Development of High Thermal Conductive Composites Filled with Carbon Materials. <i>Journal of the Adhesion Society of Japan</i> , 2013, 49, 343-348. | 0.0 | 0 |
| 5030 | Design and engineering of molecular communication systems. , 0, , 122-151. | | 0 |
| 5031 | Conductivity modulation of carbon nanotubes through hybridization with quantum dots and gold nanoparticles. <i>EPJ Applied Physics</i> , 2013, 64, 20401. | 0.3 | 4 |
| 5033 | Microenvironment Effects in Electrocatalysis: Ionicâ€Liquidâ€Like Coating on Carbon Nanotubes Enhances the Pdâ€Electrocatalytic Alcohol Oxidation. <i>Chemistry - A European Journal</i> , 2013, 19, 2384-2391. | 1.7 | 33 |
| 5034 | Design and synthesis of waterâ€soluble photosensitive Î±â€cyclodextrin and its application in dispersing carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2588-2593. | 1.3 | 4 |
| 5035 | Morphology change of multi-walled carbon nanotubes with SiC coating by electron irradiation. <i>Journal of Physics: Conference Series</i> , 2013, 417, 012037. | 0.3 | 4 |
| 5036 | Functionalised multi-walled carbon nanotubes for chemical vapour detection. <i>International Journal of Nanotechnology</i> , 2013, 10, 485. | 0.1 | 14 |
| 5037 | Diameter and wall number control of carbon nanotubes by chemical vapor deposition. <i>Journal of Applied Physics</i> , 2013, 114, . | 1.1 | 6 |
| 5038 | Crack and Electrical Resistance Behaviors of Carbon Nanotube-Based Polymer Composites under Mixed-Mode I/II Loading. <i>Materials Transactions</i> , 2013, 54, 1105-1109. | 0.4 | 4 |
| 5039 | Multiscale Modeling and Characterization of Mechanical and Physical Properties for Carbon Nanotube-based Polymer Composites. <i>Materia Japan</i> , 2013, 52, 14-16. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5040 | Adsorption of Methylene Blue on Multi-Walled Carbon Nanotubes in Sodium Alginate Gel Beads. , 0, , . | | 3 |
| 5041 | Collision dynamics of energetic carbon ions impinging on single-walled carbon nanotubes. EPJ Applied Physics, 2013, 64, 10401. | 0.3 | 3 |
| 5042 | Lignin-Based Carbon/CePO ₄ Nanocomposites: Solvothermal Fabrication, Characterization, Thermal Stability, and Luminescence. BioResources, 2013, 8, . | 0.5 | 5 |
| 5043 | Black Carbon-Mediated Reduction of 2,4-Dinitrotoluene by Dithiothreitol. Journal of Environmental Quality, 2013, 42, 815-821. | 1.0 | 20 |
| 5044 | PLGA-Carbon Nanotube Conjugates for Intercellular Delivery of Caspase-3 into Osteosarcoma Cells. PLoS ONE, 2013, 8, e81947. | 1.1 | 37 |
| 5045 | Carbon Nanotubes for Energy Applications. , 0, , . | | 12 |
| 5046 | Electrophoretic Deposition of Carbon Nanotubes on 3-Amino-Propyl-Triethoxysilane (APTES) Surface Functionalized Silicon Substrates. Nanomaterials, 2013, 3, 272-288. | 1.9 | 64 |
| 5048 | 1D Nanomaterials: Synthesis, Properties, and Applications. Journal of Nanomaterials, 2013, 2013, 1-1. | 1.5 | 15 |
| 5049 | Carbon Nanofiber Concrete for Damage Detection of Infrastructure. , 2013, , . | | 13 |
| 5053 | Kinetics of Growing Centimeter Long Carbon Nanotube Arrays. , 2013, , . | | 6 |
| 5054 | A Numerical Analysis for Predicting the Thermal Conductivity of Carbon Nanotube Reinforced Copper-Matrix Nanocomposites. MATEC Web of Conferences, 2014, 13, 04011. | 0.1 | 1 |
| 5055 | Oxygen-Carbon Nanotubes as a Chemotherapy Sensitizer for Paclitaxel in Breast Cancer Treatment. PLoS ONE, 2014, 9, e104209. | 1.1 | 11 |
| 5056 | Effects of Engineered Nanomaterials on Plants Growth: An Overview. Scientific World Journal, The, 2014, 2014, 1-28. | 0.8 | 274 |
| 5057 | Nanocomposites with Liquid-Like Multiwalled Carbon Nanotubes Dispersed in Epoxy Resin without Solvent Process. International Journal of Polymer Science, 2014, 2014, 1-6. | 1.2 | 3 |
| 5058 | Modeling the Mechanical Properties of Functionalized Carbon Nanotubes and Their Composites: Design at the Atomic Level. Advances in Condensed Matter Physics, 2014, 2014, 1-8. | 0.4 | 7 |
| 5059 | Static analysis of nanoplates based on the nonlocal Kirchhoff and Mindlin plate theories using DQM. Latin American Journal of Solids and Structures, 2014, 11, 1709-1720. | 0.6 | 11 |
| 5060 | Detonation nanodiamonds biofunctionalization and immobilization to titanium alloy surfaces as first steps towards medical application. Beilstein Journal of Organic Chemistry, 2014, 10, 2765-2773. | 1.3 | 16 |
| 5061 | Stealth nanotubes: strategies of shielding carbon nanotubes to evade opsonization and improve biodistribution. International Journal of Nanomedicine, 2014, 9 Suppl 1, 85. | 3.3 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5062 | Multiwalled carbon nanotubes induce altered morphology and loss of barrier function in human bronchial epithelium at noncytotoxic doses. <i>International Journal of Nanomedicine</i> , 2014, 9, 4093. | 3.3 | 26 |
| 5063 | Nano-rings with a handle – Synthesis of substituted cycloparaphenylenes. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1320-1333. | 1.5 | 43 |
| 5064 | Carbon Nanotubes: A Potential Concept for Drug Delivery Applications. <i>Recent Patents on Drug Delivery and Formulation</i> , 2014, 8, 12-26. | 2.1 | 30 |
| 5065 | Using Nonionic Surfactants for Production of Semiconductor-Type Carbon Nanotubes by Gel-Based Affinity Chromatography. <i>Nanomaterials and Nanotechnology</i> , 2014, 4, 19. | 1.2 | 7 |
| 5067 | Sensors Based on Carbon Nanotube Arrays and Graphene for Water Monitoring. , 2014, , 3-19. | | 1 |
| 5069 | Fabrication and properties of carbon nanotube/styrene–ethylene–butylene–styrene composites via a sequential process of (electrostatic adsorption aided dispersion)–plus–(melt mixing). <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 1.3 | 5 |
| 5070 | Anomalous decrease of the specific heat capacity at the electrical and thermal conductivity percolation threshold in nanocomposites. <i>Applied Physics Letters</i> , 2014, 105, . | 1.5 | 9 |
| 5071 | Use of Ionic Liquids in Electrochromic Devices. , 2014, , 301-333. | | 2 |
| 5072 | Functionalization of Multi-walled Carbon Nanotubes with 6-Aminobenzothiazole and their Temperature-dependent Magnetic Studies. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 874-886. | 1.0 | 9 |
| 5074 | Peapod–Type Nanocomposites through the In Situ Growth of Gold Nanoparticles within Preformed Hexaniobate Nanoscrolls. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4614-4617. | 7.2 | 30 |
| 5075 | Immobilization of individual nanotubes in graphitic layers for electrical characterization. <i>Nanotechnology</i> , 2014, 25, 115701. | 1.3 | 4 |
| 5076 | Comparative study of leakage power in CNTFET over MOSFET device. <i>Journal of Semiconductors</i> , 2014, 35, 114002. | 2.0 | 35 |
| 5077 | High microwave absorption performances for single-walled carbon nanotube–epoxy composites with ultra-low loadings. <i>Chinese Physics B</i> , 2014, 23, 088802. | 0.7 | 7 |
| 5078 | Influence of chirality on the thermal conductivity of single-walled carbon nanotubes. <i>Chinese Physics B</i> , 2014, 23, 083101. | 0.7 | 12 |
| 5080 | RRS-PBC: a molecular approach for periodic systems. <i>Science China Chemistry</i> , 2014, 57, 1399-1404. | 4.2 | 8 |
| 5081 | Growth and functionalization of CNTs on stainless steel electrodes for supercapacitor applications. <i>Materials Research Express</i> , 2014, 1, 035050. | 0.8 | 13 |
| 5082 | Effect of confinement on the structure and energetics of Zundel cation present inside the hydrophobic carbon nanotubes: an ab initio study. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1. | 0.5 | 3 |
| 5083 | Thermal and electrical behavior of nano-modified cement mortar. , 2014, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5084 | Recent Developments in Purification of Single Wall Carbon Nanotubes. Separation Science and Technology, 2014, 49, 2797-2812. | 1.3 | 14 |
| 5085 | Nanotitania-coated multi-walled carbon nanotube composite by facile colloidal processing route for photocatalytic applications. Composite Interfaces, 2014, 21, 251-262. | 1.3 | 3 |
| 5086 | The effect of carboxylated multi-walled carbon nanotubes on reinforcement efficiency of thiazole-bearing poly(amide-imide) composites. Designed Monomers and Polymers, 2014, 17, 275-285. | 0.7 | 8 |
| 5087 | Study on the Reusability of Multiwalled Carbon Nanotubes in Biodegradable Chitosan Nanocomposites. Polymer-Plastics Technology and Engineering, 2014, 53, 1236-1250. | 1.9 | 10 |
| 5088 | Current status and future direction for examining engineered nanoparticles in natural systems. Environmental Chemistry, 2014, 11, 351. | 0.7 | 103 |
| 5089 | Measuring the Electrical Conductivity of Carbon Nanotubes Grown on Sodaslime Glass Substrates using Cu as Catalyst. Molecular Crystals and Liquid Crystals, 2014, 591, 86-90. | 0.4 | 0 |
| 5090 | Functional Carbon Nanotube/Mesoporous Carbon/MnO ₂ Hybrid Network for High-Performance Supercapacitors. Journal of Nanomaterials, 2014, 2014, 1-6. | 1.5 | 7 |
| 5091 | Heat Dissipation Mechanism at Carbon Nanotube Junctions on Silicon Oxide Substrate. Journal of Heat Transfer, 2014, 136, . | 1.2 | 6 |
| 5092 | Nonlocal Elasticity Theory for Transient Analysis of Higher-Order Shear Deformable Nanoscale Plates. Journal of Nanomaterials, 2014, 2014, 1-8. | 1.5 | 9 |
| 5093 | Optimizing the Dispersion Conditions of SWCNTs in Aqueous Solution of Surfactants and Organic Solvents. Journal of Nanomaterials, 2014, 2014, 1-11. | 1.5 | 15 |
| 5094 | Preparation of MnO ₂ /graphene nanocomposite for the application of supercapacitor. , 2014, , . | | 2 |
| 5095 | Recent advances in scanning Microwave Impedance Microscopy (sMIM) for nano-scale measurements and industrial applications. , 2014, , . | | 4 |
| 5096 | Mechanical and Electrical Characterization of Entangled Networks of Carbon Nanofibers. Materials, 2014, 7, 4845-4853. | 1.3 | 13 |
| 5097 | Water-Dispersible Multiwalled Carbon Nanotubes Obtained from Citric-Acid-Assisted Oxygen Plasma Functionalization. Journal of Nanomaterials, 2014, 2014, 1-9. | 1.5 | 18 |
| 5098 | Facile synthesis of novel one-dimensional hierarchical SiC@SiO ₂ @c-C nanostructures and their field emission properties. RSC Advances, 2014, 4, 55224-55228. | 1.7 | 9 |
| 5099 | Hydrogen Peroxide Sensor Based on Carbon Nanotubes - Poly(celestine blue) Nanohybrid Modified Electrode. Advanced Materials Research, 2014, 938, 263-268. | 0.3 | 2 |
| 5100 | Common Wet Chemical Agents for Purifying Multiwalled Carbon Nanotubes. Journal of Nanomaterials, 2014, 2014, 1-9. | 1.5 | 24 |
| 5101 | Structural discrimination of double-walled carbon nanotubes by chiral diporphyrin nanocalipers. Journal of Materials Chemistry A, 2014, 2, 19067-19074. | 5.2 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5102 | Using 0-dimensional silica to control diameter and density of carbon nanotubes. , 2014, , . | | 1 |
| 5103 | Single-Walled Carbon Nanotubes: Field Emission Properties. , 0, , 4505-4511. | | 0 |
| 5104 | Fabrication of Carbon Nanotube Field-Emission Cathodes by Laser-Induced Transfer of Carbon Nanotubes and Silver Paste. Journal of Display Technology, 2014, 10, 1083-1087. | 1.3 | 2 |
| 5105 | Chip cooling with carbon nanotube heat sink. , 2014, , . | | 1 |
| 5106 | A simple drain current model for single-walled carbon nanotube network thin-film transistors. Journal of Applied Physics, 2014, 115, 154507. | 1.1 | 7 |
| 5107 | Flow-induced structure and rheological properties of multiwall carbon nanotube/polydimethylsiloxane composites. RSC Advances, 2014, 4, 62759-62768. | 1.7 | 13 |
| 5108 | Dispersion Enhancement of Multi-Walled Carbon Nanotubes in Nitrile Rubber. International Polymer Processing, 2014, 29, 317-324. | 0.3 | 1 |
| 5109 | Organization of polymer chains onto long, single-wall carbon nano-tubes: Effect of tube diameter and cooling method. Journal of Chemical Physics, 2014, 140, 024904. | 1.2 | 19 |
| 5110 | Enhanced field emission from lanthanum hexaboride coated multiwalled carbon nanotubes: Correlation with physical properties. Journal of Applied Physics, 2014, 116, . | 1.1 | 23 |
| 5111 | Silicon carbide based one-dimensional nanostructure growth: towards electronics and biology perspectives. Journal Physics D: Applied Physics, 2014, 47, 203001. | 1.3 | 20 |
| 5112 | Lab-on-a-chip Technologies Enabled by Surface Acoustic Waves. , 2014, , 354-398. | | 1 |
| 5113 | Quantifying energetics of topological frustration in carbon nanostructures. Physical Review B, 2014, 89, . | 1.1 | 9 |
| 5114 | Increased carbon nanotube area density after catalyst generation from cobalt disilicide using a cyclic reactive ion etching approach. Journal of Applied Physics, 2014, 115, 144302. | 1.1 | 3 |
| 5115 | Ion-modulated nonlinear electronic transport in carbon nanotube bundle/RbAg4I5 thin film composite nanostructures. Journal of Applied Physics, 2014, 115, 044302. | 1.1 | 7 |
| 5116 | Measuring inside damage of individual multi-walled carbon nanotubes using scanning transmission X-ray microscopy. Applied Physics Letters, 2014, 104, 241602. | 1.5 | 2 |
| 5117 | Multifunctional polymer nanocomposites with uniaxially aligned liquid crystal polymer fibrils and graphene nanoplatelets. Applied Physics Letters, 2014, 104, . | 1.5 | 14 |
| 5118 | Predictive model for alignment and deposition of functionalized nanotubes using applied electric field. Journal of Applied Physics, 2014, 115, . | 1.1 | 7 |
| 5119 | ABC Triblock Terpolymer Self-Assembled Core-Shell Corona Nanotubes with High Aspect Ratios. Macromolecular Rapid Communications, 2014, 35, 1387-1396. | 2.0 | 11 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5120 | Linking Catalyst Phase with CNT Morphology and its Subsequent Field Emission Characteristics: An Optimization Study. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 375-383. | 1.0 | 1 |
| 5122 | Modification of sisal fiber by in situ coating steam explosion and electromagnetic interference shielding effectiveness of sisal fiber/PP composites. Polymer Composites, 2014, 35, 1038-1043. | 2.3 | 9 |
| 5123 | Interactions between Nanofibers in Fiber-Surfactant Suspensions: Theory of Corresponding Distances. Physical Review Letters, 2014, 112, 128301. | 2.9 | 5 |
| 5124 | Comparison and analysis of physical properties of carbon nanomaterial-doped polymer composites. High Performance Polymers, 2014, 26, 953-960. | 0.8 | 14 |
| 5125 | Decoration of phthalocyanine on multiwalled carbon nanotubes/cellulose nanofibers nanocomposite for decoloration of dye wastewater. Composites Science and Technology, 2014, 101, 11-16. | 3.8 | 22 |
| 5126 | Chapter 5. Manipulation of Micro-/Nano-Objects via Surface Acoustic Waves. RSC Detection Science, 2014, , 136-152. | 0.0 | 1 |
| 5127 | Aligned carbon nanotubeâ€liquid silicone rubber conductors and electrode surfaces for stimulating medical implants. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1439-1447. | 0.8 | 7 |
| 5128 | Embryonic Toxicity of Nanoparticles. Cells Tissues Organs, 2014, 199, 1-23. | 1.3 | 36 |
| 5129 | Carbon Nanotubes and Their Growth Methods. , 2014, 6, 716-728. | | 102 |
| 5130 | Thin films of carbon nanotubes via ultrasonic spraying of suspensions in N-methyl-2-pyrrolidone and N-cyclohexyl-2-pyrrolidone. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, 011218. | 0.6 | 13 |
| 5131 | Application of a thioureaâ€containing taskâ€specific ionic liquid for the solidâ€phase extraction cleanup of lead ions from red lipstick, pine leaves, and water samples. Journal of Separation Science, 2014, 37, 1856-1861. | 1.3 | 15 |
| 5132 | Understanding the effects of nanocarbons on flexible polymer chain orientation and crystallization: Polyethylene/carbon nanochip hybrid fibrillar crystal growth. Journal of Applied Polymer Science, 2014, 131, n/a-n/a. | 1.3 | 6 |
| 5133 | Mechanical Properties, Electronic Structures, and Potential Applications in Lithium Ion Batteries: A First-Principles Study toward SnSe ₂ Nanotubes. Journal of Physical Chemistry C, 2014, 118, 28291-28298. | 1.5 | 37 |
| 5134 | Distinct electrical effects of multi-walled carbon nanotubes in two composites. Journal of Applied Physics, 2014, 116, . | 1.1 | 5 |
| 5135 | The synergy of ultrasonic treatment and organic modifiers for tuning the surface chemistry and conductivity of multiwalled carbon nanotubes. Surface and Interface Analysis, 2014, 46, 940-944. | 0.8 | 6 |
| 5136 | Effect of structure on electronic properties of the iron-carbon nanotube interface. Chemical Physics Letters, 2014, 615, 11-15. | 1.2 | 7 |
| 5137 | Engineering and Applications of Carbon Materials. , 2014, , 219-525. | | 22 |
| 5138 | First principles study on energetic, structural, and electronic properties of defective g-C ₃ N ₄ -zz3 nanotubes. Journal of Theoretical and Computational Chemistry, 2014, 13, 1450021. | 1.8 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 5139 | Properties and Applications of Polymer Nanocomposites. , 2014, , 1-46. | | 0 |
| 5140 | Multilayer-structured gold/nanoporous gold composite for high performance linear actuation. Applied Physics Letters, 2014, 104, . | 1.5 | 14 |
| 5141 | High Current Density and Longtime Stable Field Electron Transfer from Large-Area Densely Arrayed Graphene Nanosheetâ€“Carbon Nanotube Hybrids. ACS Applied Materials & Interfaces, 2014, 6, 21558-21566. | 4.0 | 13 |
| 5142 | Self-Assembled, Redox-Active Graphene Electrodes for High-Performance Energy Storage Devices. Journal of Physical Chemistry Letters, 2014, 5, 4324-4330. | 2.1 | 31 |
| 5143 | Ab Initio Electronic Circular Dichroism of Fullerenes, Singleâ€“Walled Carbon Nanotubes, and Ligandâ€“Protected Metal Nanoparticles. Chirality, 2014, 26, 553-562. | 1.3 | 19 |
| 5144 | Synchrotron Soft Xâ€“ray Absorption Spectroscopy Study of Carbon and Silicon Nanostructures for Energy Applications. Advanced Materials, 2014, 26, 7786-7806. | 11.1 | 84 |
| 5145 | Spin-orbit coupling and the static polarizability of single-wall carbon nanotubes. Journal of Applied Physics, 2014, 116, 024304. | 1.1 | 1 |
| 5146 | Selfâ€“Assembly of Hydrosoluble Carbon Nanotubes into Macroscopic Belts. ChemPlusChem, 2014, 79, 394-399. | 1.3 | 2 |
| 5147 | Carbon Aerogels Supported Pt Nanoparticles as Electrocatalysts for Methanol Oxidation in Alkaline Media. Journal of the Chinese Chemical Society, 2014, 61, 404-408. | 0.8 | 6 |
| 5148 | "Smart Skin" optical strain sensor using single wall carbon nanotubes. , 2014, , . | | 4 |
| 5149 | Fabrication of Vertically Aligned Carbon Nanotubes on MgO Support Layer by Thermal Chemical Vapor Deposition for Field Emission Application. Environmental Science and Engineering, 2014, , 745-747. | 0.1 | 0 |
| 5150 | Twisting dependent properties of twisted carbon nanotube fibers: microstructure and strain transfer factors. Materials Research Express, 2014, 1, 035025. | 0.8 | 2 |
| 5151 | Development of iron-base composite materials with high thermal conductivity for DEMO. Materials Research Society Symposia Proceedings, 2014, 1645, 1. | 0.1 | 0 |
| 5152 | Investigation of extended-gate field-effect transistor pH sensors based on different-temperature-annealed bi-layer MWCNTs-In2O3 films. Nanoscale Research Letters, 2014, 9, 502. | 3.1 | 17 |
| 5153 | Inflammasome activation in airway epithelial cells after multi-walled carbon nanotube exposure mediates a profibrotic response in lung fibroblasts. Particle and Fibre Toxicology, 2014, 11, 28. | 2.8 | 109 |
| 5154 | Photocatalytic property of Ag modified nano-TiO2/carbon nanotube composites for NO2 degradation under visible light. Materials Research Innovations, 2014, 18, S2-691-S2-695. | 1.0 | 3 |
| 5155 | Dynamics of fullerene self-insertion into carbon nanotubes in water. , 2014, , . | | 1 |
| 5156 | Preparation and growth mechanism of carbon nanotubes via catalytic pyrolysis of phenol resin. Materials Research Innovations, 2014, 18, 267-272. | 1.0 | 25 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5157 | Modulating SWCNT-silica interactions for enhanced dispersibility and hybrid cryogel formation. <i>Colloids and Interface Science Communications</i> , 2014, 3, 13-17. | 2.0 | 3 |
| 5158 | Preparation of carbon nanotube ink via organic hydrazine treatment. , 2014, , . | | 0 |
| 5159 | Modeling the electromechanical and strain response of carbon nanotube-based nanocomposites. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 5 |
| 5160 | Quantifying Cooperativity via Geometric Gyration-Based Metrics of Coupled Macromolecules. <i>Journal of Nanomechanics & Micromechanics</i> , 2014, 4, . | 1.4 | 1 |
| 5161 | Transparent electrodes for organic optoelectronic devices: a review. <i>Journal of Photonics for Energy</i> , 2014, 4, 040990. | 0.8 | 249 |
| 5162 | EFFECTS OF CARBON NANOTUBES ON RAT LIVER AND BRAIN. <i>Nano</i> , 2014, 09, 1450083. | 0.5 | 1 |
| 5163 | Analytical Calculation of Sensing Parameters on Carbon Nanotube Based Gas Sensors. <i>Sensors</i> , 2014, 14, 5502-5515. | 2.1 | 31 |
| 5164 | Electric Double Layer Capacitor of Multiwall Carbon Nanotubes under Different Degree of Acid Oxidations. <i>Materials Science Forum</i> , 0, 802, 186-191. | 0.3 | 0 |
| 5165 | Electron Beam Irradiation on Substrate for Precise Dielectrophoretic Assembly of Carbon Nanotubes - A Simulation. <i>Advanced Materials Research</i> , 2014, 960-961, 69-72. | 0.3 | 0 |
| 5166 | Influence of carbon nanotubes with preloaded and coexisting dissolved organic matter on the bioaccumulation of polycyclic aromatic hydrocarbons to <i>Chironomus plumosus</i> larvae in sediment. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 182-189. | 2.2 | 19 |
| 5167 | Investigation on Mechanical Properties of Nano Ferrous Composite. <i>Procedia Engineering</i> , 2014, 97, 513-521. | 1.2 | 12 |
| 5168 | Nanofins: Science. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014, , 23-50. | 0.2 | 0 |
| 5169 | Carbon nanomaterials from pyrolysis of polydiacetylene-walled nanorods. <i>Materials Research Express</i> , 2014, 1, 015602. | 0.8 | 2 |
| 5170 | Confinement and controlling the effective compressive stiffness of carbyne. <i>Nanotechnology</i> , 2014, 25, 335709. | 1.3 | 28 |
| 5171 | B/N pair and Si doped ultra-small-diameter single-walled carbon nanotubes: a density functional theory study. <i>Physica Scripta</i> , 2014, 89, 115807. | 1.2 | 2 |
| 5172 | Nanotheranostics – Application and Further Development of Nanomedicine Strategies for Advanced Theranostics. <i>Theranostics</i> , 2014, 4, 660-677. | 4.6 | 499 |
| 5173 | Mechanical Properties and Toughening Mechanisms of Multi-Walled Carbon Nanotube Reinforced Yttria-Stabilized Zirconia Composite. <i>Advanced Materials Research</i> , 0, 1052, 24-27. | 0.3 | 2 |
| 5174 | Silicon-Based Platform for Biosensing Applications. <i>Springer Briefs in Molecular Science</i> , 2014, , 39-59. | 0.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 5175 | Enhanced Electrical Properties of PVDF-TrFE Nanocomposite for Actuator Application. <i>Key Engineering Materials</i> , 0, 605, 335-339. | 0.4 | 5 |
| 5176 | Simulation of Electric Field for Carbon Nanotube Assembly by Dielectrophoresis. <i>Advanced Materials Research</i> , 2014, 941-944, 421-424. | 0.3 | 0 |
| 5177 | Characteristics and Applications of Carbon Nanotubes with Different Numbers of Walls. , 2014, , 313-339. | | 5 |
| 5178 | An emerging interface between life science and nanotechnology: present status and prospects of reproductive healthcare aided by nano-biotechnology. <i>Nano Reviews</i> , 2014, 5, 22762. | 3.7 | 53 |
| 5179 | Preparation and Characterization of Carbon Nanofibers from the High Temperature Controllable Flame. <i>Advanced Materials Research</i> , 2014, 1033-1034, 1086-1089. | 0.3 | 0 |
| 5180 | LabVIEW program for the process control of dielectrophoretic assembly of carbon nanotubes. , 2014, , . | | 0 |
| 5181 | Carbon nanotubeâ€“polyaniline composites. <i>Progress in Polymer Science</i> , 2014, 39, 707-748. | 11.8 | 266 |
| 5182 | Dry Spinning Carbon Nanotubes into Continuous Yarn. , 2014, , 211-242. | | 5 |
| 5183 | Three-dimensional Nanotube Networks and a New Horizon of Applications. , 2014, , 457-493. | | 2 |
| 5184 | Direct Synthesis of Long Nanotube Yarns for Commercial Fiber Products. , 2014, , 333-348. | | 1 |
| 5185 | Energy Storage from Dispersion Forces in Nanotubes. , 2014, , 789-806. | | 1 |
| 5186 | Sulfonated multi-walled carbon nanotubes for the removal of copper (II) from aqueous solutions. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1765-1771. | 2.9 | 79 |
| 5187 | Preparation of ZnO/Ag nanocomposite and coating on polymers for anti-infection biomaterial application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 787-792. | 2.0 | 21 |
| 5188 | A shape-memory scaffold for macroscale assembly of functional nanoscale building blocks. <i>Materials Horizons</i> , 2014, 1, 69-73. | 6.4 | 55 |
| 5189 | Synthesis and characterization of Agâ€“TiO2â€“CNT nanoparticle composites with high photocatalytic activity under artificial light. <i>Composites Part B: Engineering</i> , 2014, 57, 105-111. | 5.9 | 79 |
| 5190 | Highly Electron Transparent Graphene for Field Emission Triode Gates. <i>Advanced Functional Materials</i> , 2014, 24, 1218-1227. | 7.8 | 49 |
| 5191 | Analyses of exergy efficiency and pumping power for a conventional flat plate solar collector using SWCNTs based nanofluid. <i>Energy and Buildings</i> , 2014, 78, 1-9. | 3.1 | 154 |
| 5192 | Plum-like Fe3O4 microspheres strung with nitrogen-doped carbon nanotubes: Synthesis and characterization. <i>Materials Letters</i> , 2014, 121, 85-88. | 1.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5193 | O ₂ activation on the outer surface of carbon nanotubes modified by encapsulated iron clusters. <i>Applied Surface Science</i> , 2014, 300, 91-97. | 3.1 | 11 |
| 5194 | Improving toughness of ultra-high molecular weight polyethylene with ionic liquid modified carbon nanofiber. <i>Polymer</i> , 2014, 55, 160-165. | 1.8 | 17 |
| 5195 | Low temperature synthesis of reduced titanium oxide nanotube arrays: Crystal structure transformation and enhanced field emission. <i>Materials Research Bulletin</i> , 2014, 50, 79-84. | 2.7 | 9 |
| 5196 | Direct observation of spin-injection in tyrosinate-functionalized single-wall carbon nanotubes. <i>Carbon</i> , 2014, 67, 424-433. | 5.4 | 7 |
| 5197 | Filled cobalt nanoparticles into carbon nanotubes as a rapid and high-efficiency catalyst for selective epoxidation of styrene with molecular oxygen. <i>Chemical Engineering Journal</i> , 2014, 237, 81-87. | 6.6 | 36 |
| 5198 | Water-in-oil microemulsion doped with gold nanoparticle decorated single walled carbon nanotube: Scaffold for enhancing lipase activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 442-449. | 2.5 | 26 |
| 5199 | Synthesis of carbon nanotube/mesoporous TiO ₂ coaxial nanocables with enhanced lithium ion battery performance. <i>Carbon</i> , 2014, 75, 345-352. | 5.4 | 44 |
| 5200 | Enhanced field emission from Ti ³⁺ self-doped TiO ₂ nanotube arrays synthesized by a facile cathodic reduction process. <i>Applied Surface Science</i> , 2014, 301, 525-529. | 3.1 | 64 |
| 5201 | Computer simulations of the early stages of crystal nucleation of linear and short chain branched polyethylene on carbon nanotubes. <i>European Polymer Journal</i> , 2014, 56, 194-204. | 2.6 | 15 |
| 5202 | Cycle and rate performance of chemically modified super-aligned carbon nanotube electrodes for lithium ion batteries. <i>Carbon</i> , 2014, 69, 444-451. | 5.4 | 31 |
| 5203 | Interface enhancement of carbon nanotube/mesocarbon microbead isotropic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 56, 44-50. | 3.8 | 10 |
| 5204 | Correlation between atomistic morphology and electron transport properties in defect-free and defected graphene nanoribbons: An interpretation through Clar sextet theory. <i>Carbon</i> , 2014, 75, 190-200. | 5.4 | 6 |
| 5205 | Simulated carbon irradiation of carbon nanotubes – A comparative study of interatomic potentials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 326, 37-40. | 0.6 | 3 |
| 5206 | New developments in the growth of 4 Angstrom carbon nanotubes in linear channels of zeolite template. <i>Carbon</i> , 2014, 76, 401-409. | 5.4 | 10 |
| 5207 | Characterization of multiwalled carbon nanotube-polymethyl methacrylate composite resins as denture base materials. <i>Journal of Prosthetic Dentistry</i> , 2014, 111, 318-326. | 1.1 | 57 |
| 5208 | Reduced vibrational frequencies of multiwall carbon nanotubes due to interlayer degrees of freedom. <i>European Journal of Mechanics, A/Solids</i> , 2014, 47, 206-210. | 2.1 | 4 |
| 5209 | MWCNT-conducting polymer composite based ammonia gas sensors: A new approach for complete recovery process. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 213-219. | 4.0 | 180 |
| 5210 | Low-dimensional carbonaceous nanofiller induced polymer crystallization. <i>Progress in Polymer Science</i> , 2014, 39, 555-593. | 11.8 | 140 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5211 | Laser-Assisted Reduction of Graphene Oxide for Flexible, Large-Area Optoelectronics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 106-115. | 1.9 | 59 |
| 5212 | DFT studies of functionalized zigzag and armchair boron nitride nanotubes as nanovectors for drug delivery of collagen amino acids. <i>Structural Chemistry</i> , 2014, 25, 293-300. | 1.0 | 32 |
| 5213 | Effect of doping in carbon nanotubes on the viability of biomimetic chitosan-carbon nanotubes-hydroxyapatite scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3341-3351. | 2.1 | 20 |
| 5214 | New trends in enzyme immobilization at nanostructured interfaces for efficient electrocatalysis in biofuel cells. <i>Electrochimica Acta</i> , 2014, 126, 104-114. | 2.6 | 118 |
| 5215 | Ultrasound regeneration of multi wall carbon nanotubes saturated by humic acid. <i>Desalination and Water Treatment</i> , 2014, 52, 7468-7472. | 1.0 | 22 |
| 5216 | Preparation and characterization of poly(1-amino-9,10-anthraquinone)/multiwalled carbon nanotube nanocomposite. <i>Monatshefte für Chemie</i> , 2014, 145, 267-273. | 0.9 | 6 |
| 5217 | Study of physical properties of carbon nanotube thin films deposited by DC magnetron sputtering. <i>Journal of the Korean Physical Society</i> , 2014, 64, 46-52. | 0.3 | 0 |
| 5218 | Activity inhibition on municipal activated sludge by single-walled carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1. | 0.8 | 20 |
| 5219 | Trends in nanoscience, nanotechnology, and carbon nanotubes: a bibliometric approach. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1. | 0.8 | 15 |
| 5220 | High stability silver nanoparticles-graphene/poly(ionic liquid)-based chemoresistive sensors for volatile organic compounds detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3995-4004. | 1.9 | 50 |
| 5221 | Electrochemical investigation of Pd nanoparticles and MWCNTs supported Pd nanoparticles-coated electrodes for alcohols (C1-C3) oxidation in fuel cells. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 233-243. | 1.5 | 19 |
| 5222 | Micelle-encapsulated multi-wall carbon nanotubes with photosensitive copolymer and its application in the detection of dopamine. <i>Colloid and Polymer Science</i> , 2014, 292, 153-161. | 1.0 | 8 |
| 5223 | Hollow graphitic carbon nanospheres: synthesis and properties. <i>Journal of Materials Science</i> , 2014, 49, 1947-1956. | 1.7 | 15 |
| 5224 | The strain-sensing behaviors of carbon black/polypropylene and carbon nanotubes/polypropylene conductive composites prepared by the vacuum-assisted hot compression. <i>Colloid and Polymer Science</i> , 2014, 292, 945-951. | 1.0 | 18 |
| 5225 | Pristine and graphitized-MWCNTs as durable cathode-catalyst supports for PEFCs. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1291-1305. | 1.2 | 13 |
| 5226 | Fabrication of carbon nanotube-nickel nanoparticle hybrid paste electrodes for electrochemical sensing of carbohydrates. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 459-466. | 4.0 | 33 |
| 5227 | An environmentally friendly approach to functionalizing carbon nanotubes for fabricating a strong biocomposite Film. <i>RSC Advances</i> , 2014, 4, 5382. | 1.7 | 6 |
| 5228 | A Review of Organic and Inorganic Biomaterials for Neural Interfaces. <i>Advanced Materials</i> , 2014, 26, 1846-1885. | 11.1 | 456 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 5229 | A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. <i>Energy and Environmental Science</i> , 2014, 7, 1564. | 15.6 | 996 |
| 5230 | Water dispersed multi-walled carbon nanotubes modified by tannin acid. <i>Materials Letters</i> , 2014, 123, 44-47. | 1.3 | 11 |
| 5231 | The effects of highly structured low density carbon nanotube networks on the thermal degradation behaviour of polysiloxanes. <i>Polymer Degradation and Stability</i> , 2014, 102, 25-32. | 2.7 | 7 |
| 5232 | Enhancement of the mechanical properties of graphene-copper composites with graphene-nickel hybrids. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 599, 247-254. | 2.6 | 241 |
| 5233 | Recent progress on carbon-based support materials for electrocatalysts of direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6266-6291. | 5.2 | 449 |
| 5235 | On localized modes of free vibrations of single-walled carbon nanotubes embedded in nonhomogeneous elastic medium. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2014, 94, 130-141. | 0.9 | 17 |
| 5236 | The interphase microstructure and electrical properties of glass fibers covalently and non-covalently bonded with multiwall carbon nanotubes. <i>Carbon</i> , 2014, 73, 310-324. | 5.4 | 131 |
| 5237 | Safe Clinical Use of Carbon Nanotubes as Innovative Biomaterials. <i>Chemical Reviews</i> , 2014, 114, 6040-6079. | 23.0 | 207 |
| 5238 | Pristine multi-walled carbon nanotubes/SDS modified carbon paste electrode as an amperometric sensor for epinephrine. <i>Talanta</i> , 2014, 125, 352-360. | 2.9 | 76 |
| 5239 | Photoinduced electron transfer in a carbon nanohorn-C ₆₀ conjugate. <i>Chemical Science</i> , 2014, 5, 2072. | 3.7 | 21 |
| 5240 | New Si-O-C composite film anode materials for LIB by electrodeposition. <i>Journal of Materials Chemistry A</i> , 2014, 2, 883-896. | 5.2 | 34 |
| 5241 | Dispersion of single-walled carbon nanotubes in aqueous solution with a thermo-responsive pentablock terpolymer. <i>Colloid and Polymer Science</i> , 2014, 292, 281-289. | 1.0 | 9 |
| 5242 | Release characteristics of selected carbon nanotube polymer composites. <i>Carbon</i> , 2014, 68, 33-57. | 5.4 | 216 |
| 5243 | An accurate spring-mass finite element model for vibration analysis of single-walled carbon nanotubes. <i>Computational Materials Science</i> , 2014, 85, 121-126. | 1.4 | 11 |
| 5244 | Enhanced broadband microwave reflection loss of carbon nanotube ensheathed Ni-Zn-Co-ferrite magnetic nanoparticles. <i>Materials Letters</i> , 2014, 120, 259-262. | 1.3 | 46 |
| 5245 | Contribution of Chirality to the Adsorption of a Kr Atom on a Single Wall Carbon Nanotube. <i>Journal of Low Temperature Physics</i> , 2014, 175, 590-603. | 0.6 | 6 |
| 5246 | Rapid, simple and low cost fabrication of a microfluidic direct methanol fuel cell based on polydimethylsiloxane. <i>Microsystem Technologies</i> , 2014, 20, 493-498. | 1.2 | 9 |
| 5247 | Computational study on bonding of carbon nanotubes onto metallic substrates. <i>Microsystem Technologies</i> , 2014, 20, 397-402. | 1.2 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5248 | Synthesis and characterization of polypyrrole nanotubes/multi-walled carbon nanotubes composites with superior electrochemical performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1047-1052. | 1.1 | 19 |
| 5249 | The permeation of potassium and chloride ions through nanotubes: a molecular simulation study. <i>Monatshefte Für Chemie</i> , 2014, 145, 881-890. | 0.9 | 23 |
| 5250 | In vivo translocation and toxicity of multi-walled carbon nanotubes are regulated by microRNAs. <i>Nanoscale</i> , 2014, 6, 4275. | 2.8 | 66 |
| 5251 | Studies on the functionalization of MWNTs and their application as a recyclable catalyst for C C bond coupling reactions. <i>Catalysis Communications</i> , 2014, 46, 71-74. | 1.6 | 25 |
| 5252 | Controlled Growth of Single-Walled Carbon Nanotube Networks by Catalyst Interfacial Diffusion. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300151. | 1.9 | 1 |
| 5253 | Electrically conductive multi-walled carbon nanotube-reinforced amorphous polyamide nanocomposites. <i>Polymer Composites</i> , 2014, 35, 587-595. | 2.3 | 11 |
| 5254 | A new approach to determine rheological percolation of carbon nanotubes in microstructured polymer matrices. <i>Carbon</i> , 2014, 67, 64-71. | 5.4 | 42 |
| 5255 | Carbon nanotubes based electrochemical aptasensing platform for the detection of hydroxylated polychlorinated biphenyl in human blood serum. <i>Biosensors and Bioelectronics</i> , 2014, 54, 78-84. | 5.3 | 58 |
| 5256 | Silver decorated multi-walled carbon nanotubes as a heterogeneous catalyst in the sonication of 2-aryl-2,3-dihydroquinazolin-4(1H)-ones. <i>RSC Advances</i> , 2014, 4, 11654-11660. | 1.7 | 37 |
| 5257 | Highly sensitive and selective determination of thiocyanate using gold nanoparticles surface decorated multi-walled carbon nanotubes modified carbon paste electrode. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 467-474. | 4.0 | 33 |
| 5258 | Growth limit of carbon onions – A continuum mechanical study. <i>International Journal of Solids and Structures</i> , 2014, 51, 706-715. | 1.3 | 13 |
| 5259 | A convenient strategy to functionalize carbon nanotubes with ascorbic acid and its effect on the physical and thermomechanical properties of poly(amide-imide) composites. <i>Journal of Solid State Chemistry</i> , 2014, 211, 136-145. | 1.4 | 50 |
| 5260 | Mechanical and electrical properties of multiwall carbon nanotube/polycarbonate composites for electrostatic discharge and electromagnetic interference shielding applications. <i>RSC Advances</i> , 2014, 4, 13839. | 1.7 | 157 |
| 5261 | Adsorption of formaldehyde molecule on Al-doped vacancy-defected single-walled carbon nanotubes: A theoretical study. <i>Computational Materials Science</i> , 2014, 82, 337-344. | 1.4 | 28 |
| 5262 | Nanocarbon-based gas sensors: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5573. | 5.2 | 202 |
| 5263 | Ni(OH) ₂ @Co(OH) ₂ hollow nanohexagons: Controllable synthesis, facet-selected competitive growth and capacitance property. <i>Nano Energy</i> , 2014, 5, 52-59. | 8.2 | 56 |
| 5264 | Nanotube Based Nonlinear Fiber Devices for Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 89-98. | 1.9 | 10 |
| 5265 | Enhancement of proton conductivity of polymer electrolyte membrane enabled by sulfonated nanotubes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 974-986. | 3.8 | 93 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5266 | Integrated Polymer Solar Cell and Electrochemical Supercapacitor in a Flexible and Stable Fiber Format. <i>Advanced Materials</i> , 2014, 26, 466-470. | 11.1 | 337 |
| 5267 | An uncertainty quantification method for nanomaterial prediction models. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 33-44. | 1.5 | 8 |
| 5268 | Morphology and processing of aligned carbon nanotube carbon matrix nanocomposites. <i>Carbon</i> , 2014, 68, 807-813. | 5.4 | 36 |
| 5269 | A theoretical and experimental exploration of the mechanism of microwave assisted 1,3-dipolar cycloaddition of pyridinium ylides to single walled carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2014, 145, 99-107. | 2.0 | 8 |
| 5270 | Surface modification of nitrogen-doped carbon nanotubes by ozone via atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, . | 0.9 | 9 |
| 5271 | Laser-assisted growth of carbon nanotubes – A review. <i>Journal of Laser Applications</i> , 2014, 26, . | 0.8 | 18 |
| 5272 | A new polystyrene-based ionomer/MWCNT nanocomposite for wearable skin temperature sensors. <i>Reactive and Functional Polymers</i> , 2014, 76, 57-62. | 2.0 | 40 |
| 5273 | Infrared and microwave properties of polypyrrole/multi-walled carbon nanotube composites. <i>Journal of Luminescence</i> , 2014, 152, 117-120. | 1.5 | 7 |
| 5274 | Towards optimization of functionalized single-walled carbon nanotubes adhering with poly(3-hexylthiophene) for highly efficient polymer solar cells. <i>Diamond and Related Materials</i> , 2014, 41, 79-83. | 1.8 | 18 |
| 5275 | Photo stability enhancement of Poly(3-hexylthiophene)-PCBM nanocomposites by addition of multi walled carbon nanotubes under ambient conditions. <i>Organic Electronics</i> , 2014, 15, 1650-1656. | 1.4 | 12 |
| 5276 | Synthesis of the graphene/nickel oxide composite and its electrochemical performance for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16171-16178. | 3.8 | 62 |
| 5277 | Boosting sensitivity of boron nitride nanotube (BNNT) to nitrogen dioxide by Fe encapsulation. <i>Journal of Molecular Graphics and Modelling</i> , 2014, 51, 1-6. | 1.3 | 23 |
| 5278 | Selective fabrication of carbon nanowires, carbon nanotubes, and graphene by catalytic chemical liquid deposition. <i>Materials Research Bulletin</i> , 2014, 55, 229-236. | 2.7 | 5 |
| 5279 | Studies of nanocomposites of carbon nanotubes and a negative dielectric anisotropy liquid crystal. <i>Journal of Chemical Physics</i> , 2014, 140, 104908. | 1.2 | 23 |
| 5280 | Fluidized bed synthesis of carbon nanotubes: Reaction mechanism, rate controlling step and overall rate of reaction. <i>AIChE Journal</i> , 2014, 60, 2882-2892. | 1.8 | 37 |
| 5281 | Bio-Inspired Nanotechnology. , 2014, , . | | 13 |
| 5282 | A safer and flexible method for the oxygen functionalization of carbon nanotubes by nitric acid vapors. <i>Applied Surface Science</i> , 2014, 303, 446-455. | 3.1 | 17 |
| 5283 | Fabrication of polyaniline/silver nanoparticles/multi-walled carbon nanotubes composites for flexible microelectronic circuits. <i>Synthetic Metals</i> , 2014, 192, 15-22. | 2.1 | 43 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5284 | Tunable Epoxidation of Single-Walled Carbon Nanotubes by Isolated Methyl(trifluoromethyl)dioxirane. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 1666-1671. | 1.2 | 23 |
| 5285 | Graphene-Based Nanowire Supercapacitors. <i>Langmuir</i> , 2014, 30, 3567-3571. | 1.6 | 68 |
| 5286 | Determination of the Length, Diameter, Molecular Mass, Density and Surfactant Adsorption of SWCNTs in Dilute Dispersion by Intrinsic Viscosity, Sedimentation, and Diffusion Measurements. <i>Macromolecules</i> , 2014, 47, 3093-3100. | 2.2 | 8 |
| 5287 | Effect of high SWNT content on the room temperature mechanical properties of fully dense 3YTZP/SWNT composites. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1571-1579. | 2.8 | 26 |
| 5288 | Preparation of Ferrocene-Based Coordination Polymer Microspheres and Their Application in Hydrogen Storage. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014, 24, 491-500. | 1.9 | 5 |
| 5289 | Supramolecular Complexes of Multivalent Cholesterol-Containing Polymers to Solubilize Carbon Nanotubes in Apolar Organic Solvents. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1356-1364. | 1.7 | 11 |
| 5290 | Study of the Role of Surface Oxygen Functional Groups on Carbon Nanotubes in the Selective Oxidation of Acrolein. <i>ChemCatChem</i> , 2014, 6, 1553-1557. | 1.8 | 24 |
| 5291 | Controllable Loading of Noble Metal Nanoparticles on Multiwalled Carbon Nanotubes/Fe ₃ O ₄ through an In Situ Galvanic Replacement Reaction for High-Performance Catalysis. <i>ChemCatChem</i> , 2014, 6, 1868-1872. | 1.8 | 18 |
| 5292 | High-Current-Density Edge Electron Emission and Electron Beam Shaping for Vacuum Electronics Using Flexible Graphene Paper. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 1776-1780. | 1.6 | 3 |
| 5293 | CVD synthesis of Al ₂ O ₃ nanotubular structures using a powder source. <i>Ceramics International</i> , 2014, 40, 7923-7929. | 2.3 | 7 |
| 5294 | Mechanical and electrical properties of aligned carbon nanotube/carbon matrix composites. <i>Carbon</i> , 2014, 75, 307-313. | 5.4 | 49 |
| 5295 | Microstructure and wear behavior of graphene nanosheets-reinforced zirconia coating. <i>Ceramics International</i> , 2014, 40, 12821-12829. | 2.3 | 83 |
| 5296 | Carbon-based sorbents: Carbon nanotubes. <i>Journal of Chromatography A</i> , 2014, 1357, 53-67. | 1.8 | 99 |
| 5297 | Separation of dispersed carbon nanotubes from water: Effect of pH and surfactants on the aggregation at oil/water interface. <i>Separation and Purification Technology</i> , 2014, 129, 113-120. | 3.9 | 11 |
| 5298 | Improving the performance of poly(3,4-ethylenedioxythiophene) for brain-machine interface applications. <i>Acta Biomaterialia</i> , 2014, 10, 2446-2454. | 4.1 | 63 |
| 5299 | Determination of sulfonamides in milk samples by HPLC with amperometric detection using a glassy carbon electrode modified with multiwalled carbon nanotubes. <i>Journal of Separation Science</i> , 2014, 37, 382-389. | 1.3 | 20 |
| 5300 | Polycaprolactone-thiophene-conjugated carbon nanotube meshes as scaffolds for cardiac progenitor cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 1553-1561. | 1.6 | 42 |
| 5301 | Mechanically Interlocked Single-Wall Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5394-5400. | 7.2 | 69 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5302 | Synthesis and magnetic properties of multiwalled carbon nanotubes decorated with magnetite nanoparticles. <i>Physica B: Condensed Matter</i> , 2014, 435, 88-91. | 1.3 | 18 |
| 5303 | Structure of Single-Wall Carbon Nanotubes: A Graphene Helix. <i>Small</i> , 2014, 10, 3283-3290. | 5.2 | 11 |
| 5304 | Comparisons of phase morphology and physical properties of PVDF nanocomposites filled with organoclay and/or multi-walled carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2014, 143, 681-692. | 2.0 | 46 |
| 5305 | Size-Selective, Noncovalent Dispersion of Carbon Nanotubes by PEGylated Lipids: A Coarse-Grained Molecular Dynamics Study. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 3080-3089. | 1.0 | 23 |
| 5306 | Recyclable enzyme mimic of cubic Fe ₃ O ₄ nanoparticles loaded on graphene oxide-dispersed carbon nanotubes with enhanced peroxidase-like catalysis and electrocatalysis. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4442-4448. | 2.9 | 96 |
| 5307 | Comparative study of carbon nanotubes- and fullerenes-doped liquid crystal for different electrophoretic parameters. <i>Journal of Materials Science</i> , 2014, 49, 1695-1700. | 1.7 | 3 |
| 5308 | Evaluating the hydrogen chemisorption and physisorption energies for nitrogen-containing single-walled carbon nanotubes with different chiralities: a density functional theory study. <i>Structural Chemistry</i> , 2014, 25, 1045-1056. | 1.0 | 12 |
| 5309 | Triton assisted fabrication of uniform semiconducting single-walled carbon nanotube networks for highly sensitive gas sensors. <i>Carbon</i> , 2014, 66, 369-376. | 5.4 | 17 |
| 5310 | Determination of 5,7-dihydroxychromone and luteolin in peanut hulls by capillary electrophoresis with a multiwall carbon nanotube/poly(ethylene terephthalate) composite electrode. <i>Food Chemistry</i> , 2014, 145, 555-561. | 4.2 | 28 |
| 5311 | Effects of Topological Defects and Diatom Vacancies on Characteristic Vibration Modes and Raman Intensities of Zigzag Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7235-7241. | 1.1 | 10 |
| 5312 | Density Functional Theory Study on the Static Dipole Polarizability of Boron Nitride Nanotubes: Single Wall and Coaxial Systems. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1739-1745. | 1.5 | 29 |
| 5313 | Single-Walled Carbon Nanotube-Poly(porphyrin) Hybrid for Volatile Organic Compounds Detection. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1602-1610. | 1.5 | 51 |
| 5314 | Carbon nanotube-based fluorescence sensors. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014, 19, 20-34. | 5.6 | 71 |
| 5315 | Enhanced storage capability and kinetic processes by pores- and hetero-atoms- riched carbon nanobubbles for lithium-ion and sodium-ion batteries anodes. <i>Nano Energy</i> , 2014, 4, 81-87. | 8.2 | 227 |
| 5316 | Ultrashort-pulse laser ablation of gold thin film targets: Theory and experiment. <i>Thin Solid Films</i> , 2014, 550, 190-198. | 0.8 | 24 |
| 5317 | Effect of sintering temperature and nanotube concentration on microstructure and properties of carbon nanotube/alumina nanocomposites. <i>Ceramics International</i> , 2014, 40, 7449-7458. | 2.3 | 25 |
| 5318 | Tracking and Quantification of Single-Walled Carbon Nanotubes in Fish Using Near Infrared Fluorescence. <i>Environmental Science & Technology</i> , 2014, 48, 1973-1983. | 4.6 | 49 |
| 5319 | Confining ss-DNA/carbon nanotube complexes in ordered droplets. <i>Soft Matter</i> , 2014, 10, 1024. | 1.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5320 | The effects of catalyst on the morphology and physicochemical properties of nitrogen-doped carbon nanotubes. <i>Materials Letters</i> , 2014, 116, 289-292. | 1.3 | 28 |
| 5321 | Effects of welding on thermal conductivity of randomly oriented carbon nanotube networks. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 803-810. | 2.5 | 23 |
| 5322 | Non-covalent functionalization of carbon nanotubes with polymers. <i>RSC Advances</i> , 2014, 4, 2911-2934. | 1.7 | 265 |
| 5323 | Effects of nitrogen-doped carbon nanotubes on the discharge performance of Li-air batteries. <i>Carbon</i> , 2014, 67, 744-752. | 5.4 | 82 |
| 5324 | Facile hydroxylation of halloysite nanotubes for epoxy nanocomposite applications. <i>Polymer</i> , 2014, 55, 6519-6528. | 1.8 | 115 |
| 5325 | Electrochemical performance of binder-free carbon nanotubes with different nitrogen amounts grown on the nickel foam as cathodes in Li ⁺ O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18746-18753. | 5.2 | 49 |
| 5326 | On the deposition and properties of DLC protective coatings on elastomers: A critical review. <i>Surface and Coatings Technology</i> , 2014, 258, 677-690. | 2.2 | 54 |
| 5327 | Analysis on the sharpness of optical sensitivity for amorphous selenium sensors with carbon nanotubes. <i>Sensors and Actuators A: Physical</i> , 2014, 220, 237-242. | 2.0 | 2 |
| 5328 | Augmentation of properties on sparingly loaded nanocomposites via functionalized single-walled carbon nanotubes using a covalent approach. <i>RSC Advances</i> , 2014, 4, 62947-62950. | 1.7 | 12 |
| 5329 | Electrical Properties of Self-Assembled Films of Polyaniline/Carbon Nanotubes Composites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24811-24818. | 1.5 | 29 |
| 5330 | Core/shell-like structured ultrafine branched nanofibers created by electrospinning. <i>Polymer Journal</i> , 2014, 46, 792-799. | 1.3 | 23 |
| 5331 | Influence of iron contaminations on local and bulk magnetic properties of nonfunctionalized and functionalized multi-wall carbon nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 661-669. | 0.8 | 7 |
| 5332 | Theoretical Study of Hydrogen Adsorption on Ru-Decorated (8,0) Single-Walled Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27672-27680. | 1.5 | 43 |
| 5333 | Wrinkling and folding of nanotube-polymer bilayers. <i>Journal of Chemical Physics</i> , 2014, 141, 044901. | 1.2 | 10 |
| 5334 | Photochemical Behavior of Single-Walled Carbon Nanotubes in the Presence of Propylamine. <i>ChemPhysChem</i> , 2014, 15, 1821-1826. | 1.0 | 7 |
| 5335 | Nanoparticles. , 2014, , . | | 38 |
| 5336 | A boron nitride nanotube peapod thermal rectifier. <i>Journal of Applied Physics</i> , 2014, 115, 243501. | 1.1 | 4 |
| 5337 | Multiwalled carbon nanotube/polydimethylsiloxane composite films as high performance flexible electric heating elements. <i>Applied Physics Letters</i> , 2014, 105, . | 1.5 | 60 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5338 | Structure and Optical Properties of Multilayers Carbon Nanotubes/PEEK Nanocomposites. <i>Advances in Polymer Technology</i> , 2014, 33, . | 0.8 | 6 |
| 5339 | Electromagnetic and microwave absorbing properties of magnetite nanoparticles decorated carbon nanotubes/polyaniline multiphase heterostructures. <i>Journal of Materials Science</i> , 2014, 49, 7221-7230. | 1.7 | 41 |
| 5340 | Regulated Dielectric Loss of Polymer Composites from Coating Carbon Nanotubes with a Cross-Linked Silsesquioxane Shell through Free-Radical Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18635-18643. | 4.0 | 37 |
| 5341 | Decoration of carbon nanotube films with iridium nanoparticles and their electrochemical characterization. <i>Biochip Journal</i> , 2014, 8, 129-136. | 2.5 | 5 |
| 5342 | High performance CNT point emitter with graphene interfacial layer. <i>Nanotechnology</i> , 2014, 25, 455601. | 1.3 | 9 |
| 5343 | Electrokinetic Study and Surface Conductance of Carbon Nanotubes in Liquid Crystal Medium. <i>Soft Materials</i> , 2014, 12, 284-289. | 0.8 | 8 |
| 5344 | Water-Induced Formation, Characterization, and Photoluminescence of Carbon Nanotube-Based Composites of Gadolinium(III) and Platinum(II) Dithiolenes. <i>Chemistry - A European Journal</i> , 2014, 20, 16657-16661. | 1.7 | 60 |
| 5345 | From solid carbon sources to carbon nanotubes: a general water-assisted approach. <i>RSC Advances</i> , 2014, 4, 54244-54248. | 1.7 | 4 |
| 5346 | Hydrogen-bonded complexes upon spatial confinement: structural and energetic aspects. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1430-1440. | 1.3 | 18 |
| 5347 | Using multi-walled carbon nanotubes to enhance coimmobilization of poly(azure A) and poly(neutral) Tj ETQq1 1 0.784314 rgBT /Over 2014, 4, 45566-45574. | 1.7 | 10 |
| 5348 | Role of HF in Oxygen Removal from Carbon Nanotubes: Implications for High Performance Carbon Electronics. <i>Nano Letters</i> , 2014, 14, 6179-6184. | 4.5 | 32 |
| 5349 | High-Quality Vertically Aligned Carbon Nanotubes for Applications as Thermal Interface Materials. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014, 4, 232-239. | 1.4 | 30 |
| 5350 | Visible light enhanced gas sensing of CdSe nanoribbons of ethanol. <i>CrystEngComm</i> , 2014, 16, 4231. | 1.3 | 15 |
| 5351 | Enzymatic biosensors based on α -D-glucose oxidase immobilised on sepiolite for TBHQ quantification. <i>Analyst</i> , The, 2014, 139, 2214. | 1.7 | 23 |
| 5352 | Advantage of CNTFET characteristics over MOSFET to reduce leakage power. , 2014, , . | | 27 |
| 5353 | A carbon nanotube-based Raman-imaging immunoassay for evaluating tumor targeting ligands. <i>Analyst</i> , The, 2014, 139, 3069-3076. | 1.7 | 11 |
| 5354 | Representative volume element-based design and analysis tools for composite materials with nanofillers. <i>Journal of Composite Materials</i> , 2014, 48, 2117-2129. | 1.2 | 12 |
| 5355 | Additional small-scale boundary effects on free vibration of carbon nanotubes and their macroscopic energy meaning. <i>International Journal of Materials Research</i> , 2014, 105, 1018-1024. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5356 | Off-Lattice Monte Carlo Simulation of Heat Transfer through Carbon Nanotube Multiphase Systems Taking into Account Thermal Boundary Resistances. Numerical Heat Transfer; Part A: Applications, 2014, 65, 1023-1043. | 1.2 | 18 |
| 5357 | Multifunctional materials and nanotechnology for assessing and monitoring civil infrastructures. , 2014, , 295-326. | | 1 |
| 5358 | Nanometer-sized manganese oxide-quenched fluorescent oligonucleotides: an effective sensing platform for probing biomolecular interactions. Chemical Communications, 2014, 50, 11049. | 2.2 | 72 |
| 5359 | Connecting carbon nanotubes to polyoxometalate clusters for engineering high-performance anode materials. Physical Chemistry Chemical Physics, 2014, 16, 19668-19673. | 1.3 | 59 |
| 5360 | Influence of carbon nanotubes on epoxy resin cure reaction using different techniques: A comprehensive review. Polymer Engineering and Science, 2014, 54, 2461-2469. | 1.5 | 71 |
| 5361 | Supercapacitive properties of coiled carbon nanotubes directly grown on nickel nanowires. Journal of Materials Chemistry A, 2014, 2, 17446-17453. | 5.2 | 30 |
| 5362 | Surface-immobilization of molecules for detection of chemical warfare agents. Analyst, The, 2014, 139, 4154-68. | 1.7 | 12 |
| 5363 | Electrical and optical properties of 4-N,N-dimethylamino-4- ϵ -methyl-stilbazolium tosylate (DAST) modified by carbon nanotubes. Journal of Materials Chemistry C, 2014, 2, 2394. | 2.7 | 24 |
| 5364 | Disaggregation of heteroaggregates composed of multiwalled carbon nanotubes and hematite nanoparticles. Environmental Sciences: Processes and Impacts, 2014, 16, 1371-1378. | 1.7 | 10 |
| 5365 | Gel electrophoresis and Raman mapping for determining the length distribution of SWCNTs. RSC Advances, 2014, 4, 37070-37078. | 1.7 | 3 |
| 5366 | Dispersion and characterization of arc discharge single-walled carbon nanotubes " towards conducting transparent films. Nanoscale, 2014, 6, 3695. | 2.8 | 22 |
| 5367 | High-yield photolytic generation of brominated single-walled carbon nanotubes and their application for gas sensing. Chemical Communications, 2014, 50, 11568-11571. | 2.2 | 21 |
| 5368 | A highly sensitive NADH sensor based on a mycelium-like nanocomposite using graphene oxide and multi-walled carbon nanotubes to co-immobilize poly(luminol) and poly(neutral red) hybrid films. Analyst, The, 2014, 139, 3991-3998. | 1.7 | 22 |
| 5369 | Electron Beam Reduction Method for Preparing the Catalyst Layer in the Growth of Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 2014, 591, 19-24. | 0.4 | 1 |
| 5370 | Simple and highly efficient direct thiolation of the surface of carbon nanotubes. RSC Advances, 2014, 4, 14777-14780. | 1.7 | 17 |
| 5371 | Ternary graphite nanosheet/copper phthalocyanine/sulfonated poly(aryl ether ketone) dielectric percolative composites: preparation, micromorphologies and dielectric properties. RSC Advances, 2014, 4, 28721-28727. | 1.7 | 6 |
| 5372 | A simple/green process for the preparation of composite carbon nanotube fibers/yarns. RSC Advances, 2014, 4, 43235-43240. | 1.7 | 6 |
| 5373 | Influence of concentration and position of carboxyl groups on the electronic properties of single-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2014, 16, 21602-21608. | 1.3 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5374 | Computational modelling of a graphene Fresnel lens on different substrates. <i>RSC Advances</i> , 2014, 4, 30050-30058. | 1.7 | 27 |
| 5375 | A novel electrochemical chiral sensor for 3,4-dihydroxyphenylalanine based on the combination of single-walled carbon nanotubes, sulfuric acid and square wave voltammetry. <i>Analyst</i> , 2014, 139, 2243-2248. | 1.7 | 39 |
| 5376 | Effects of nitrogen doping on supercapacitor performance of a mesoporous carbon electrode produced by a hydrothermal soft-templating process. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11753. | 5.2 | 127 |
| 5377 | Surface engineered angstrom thick ZnO-sheathed TiO ₂ nanowires as photoanodes for performance enhanced dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16867-16876. | 5.2 | 51 |
| 5378 | High-performance infrared photo-transistor based on SWCNT decorated with PbS nanoparticles. <i>Sensors and Actuators A: Physical</i> , 2014, 220, 213-220. | 2.0 | 16 |
| 5379 | Cabbage leaf-shaped two-dimensional TiO ₂ mesostructures for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 27084-27090. | 1.7 | 15 |
| 5380 | Stable field emission lamps based on well-aligned BaO nanowires. <i>RSC Advances</i> , 2014, 4, 22246. | 1.7 | 9 |
| 5381 | Using multi-walled carbon nanotubes (MWNTs) for oilfield produced water treatment with environmentally acceptable endpoints. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2039-2047. | 1.7 | 6 |
| 5382 | Curved polymer nanodiscs by wetting nanopores of anodic aluminum oxide templates with polymer nanospheres. <i>Nanoscale</i> , 2014, 6, 1340-1346. | 2.8 | 23 |
| 5383 | Upcycle waste plastics to magnetic carbon materials for dye adsorption from polluted water. <i>RSC Advances</i> , 2014, 4, 26817. | 1.7 | 13 |
| 5384 | Covalently functionalized carbon nanotube supported Pd nanoparticles for catalytic reduction of 4-nitrophenol. <i>Nanoscale</i> , 2014, 6, 6609-6616. | 2.8 | 146 |
| 5385 | Enhanced mechanical properties of a multiwall carbon nanotube attached pre-stitched graphene oxide filled linear low density polyethylene composite. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2681-2689. | 5.2 | 42 |
| 5386 | Influences of high aspect ratio carbon nanotube network on normal stress difference measurements and extrusion behaviors for isotactic polypropylene nanocomposite melts. <i>RSC Advances</i> , 2014, 4, 1246-1255. | 1.7 | 20 |
| 5387 | Self-Bridging of Vertical Silicon Nanowires and a Universal Capacitive Force Model for Spontaneous Attraction in Nanostructures. <i>ACS Nano</i> , 2014, 8, 11261-11267. | 7.3 | 11 |
| 5388 | Nanoporous Cu ²⁺ /C composites based on carbon-nanotube aerogels. <i>Journal of Materials Chemistry A</i> , 2014, 2, 962-967. | 5.2 | 10 |
| 5389 | Fabrication of a 3D micro/nano dual-scale carbon array and its demonstration as the microelectrodes for supercapacitors. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 045001. | 1.5 | 17 |
| 5390 | Enhancement of Dielectric and Electro-Optical Properties in SWCNT Dispersed Ferroelectric Liquid Crystals. <i>Ferroelectrics</i> , 2014, 468, 84-91. | 0.3 | 11 |
| 5391 | High-performance supercapacitors based on defect-engineered carbon nanotubes. <i>Carbon</i> , 2014, 80, 246-254. | 5.4 | 68 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5392 | Statistical Length Measurement Method by Direct Imaging of Carbon Nanotubes. ACS Applied Materials & Interfaces, 2014, 6, 6139-6146. | 4.0 | 15 |
| 5393 | 3D hollow carbon nanotetrapods synthesized by three-step vapor phase transport. Carbon, 2014, 80, 325-338. | 5.4 | 7 |
| 5394 | Facile Synthesis and Properties of Hierarchical Double-Walled Copper Silicate Hollow Nanofibers Assembled by Nanotubes. ACS Nano, 2014, 8, 3664-3670. | 7.3 | 80 |
| 5395 | Electrocatalysis of oxygen reduction on carbon nanotubes with different surface functional groups in acid and alkaline solutions. International Journal of Hydrogen Energy, 2014, 39, 16964-16975. | 3.8 | 29 |
| 5396 | Advances in Polymer-based Nanostructured Membranes for Water Treatment. Polymer-Plastics Technology and Engineering, 2014, 53, 1290-1316. | 1.9 | 22 |
| 5397 | Photoelectrochemical Cells for Energy Conversion, Sensing, and Optoelectronic Applications. ChemElectroChem, 2014, 1, 1778-1797. | 1.7 | 54 |
| 5398 | One-Dimensional Titanium Dioxide Nanomaterials: Nanotubes. Chemical Reviews, 2014, 114, 9385-9454. | 23.0 | 1,045 |
| 5399 | Carbon Nanotube Balls and Their Application in Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 706-711. | 4.0 | 36 |
| 5400 | Facile synthesis of carbon nanotubes and their use in the fabrication of resistive switching memory devices. RSC Advances, 2014, 4, 9905. | 1.7 | 39 |
| 5401 | Study of Mechanical and Crystalline Behavior of Polyamide 6/Hytrel/Carbon Nanotubes (CNT) based Polymer Composites. , 2014, 6, 805-811. | | 28 |
| 5402 | Morphology and dynamic-mechanical properties of PVC/NBR blends reinforced with two types of nanoparticles. Journal of Composite Materials, 2014, 48, 131-141. | 1.2 | 30 |
| 5403 | Synergistic Effect of Layer-by-Layer Assembled Thin Films Based on Clay and Carbon Nanotubes To Reduce the Flammability of Flexible Polyurethane Foam. Industrial & Engineering Chemistry Research, 2014, 53, 14315-14321. | 1.8 | 51 |
| 5404 | Tuning the First Hyperpolarizabilities of Boron Nitride Nanotubes. ACS Photonics, 2014, 1, 928-935. | 3.2 | 14 |
| 5405 | Carbon nanoparticle from a natural source fabricated for folate receptor targeting, imaging and drug delivery application in A549 lung cancer cells. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 730-736. | 2.0 | 24 |
| 5406 | Carbon Nanotube Epoxy Nanocomposites: The Effects of Interfacial Modifications on the Dynamic Mechanical Properties of the Nanocomposites. ACS Applied Materials & Interfaces, 2014, 6, 16621-16630. | 4.0 | 97 |
| 5407 | Carbon Nano hoops: Excited Singlet and Triplet Behavior of [9]- and [12]-Cycloparaphenylene. Journal of Physical Chemistry A, 2014, 118, 1595-1600. | 1.1 | 48 |
| 5408 | Thermal conductivity of multi-walled carbon nanotubes: Molecular dynamics simulations. Chinese Physics B, 2014, 23, 096501. | 0.7 | 6 |
| 5409 | Enhanced Charge Transport Kinetics in Anisotropic, Stratified Photoanodes. ACS Applied Materials & Interfaces, 2014, 6, 1389-1393. | 4.0 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 5410 | Advances and challenges for flexible energy storage and conversion devices and systems. <i>Energy and Environmental Science</i> , 2014, 7, 2101. | 15.6 | 767 |
| 5411 | Large work function difference driven electron transfer from electrides to single-walled carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 8844. | 2.8 | 36 |
| 5412 | Irradiation effects in single-walled carbon nanotubes: Density-functional theory based treatments. <i>Computational Materials Science</i> , 2014, 93, 15-21. | 1.4 | 5 |
| 5413 | Synthesis of carbon nanotubes on Fe _x O _y doped Al ₂ O ₃ –ZrO ₂ nanopowder. <i>Powder Technology</i> , 2014, 266, 106-112. | 2.1 | 8 |
| 5414 | Thermodynamics at the nanoscale: phase diagrams of nickel–carbon nanoclusters and equilibrium constants for phase transitions. <i>Nanoscale</i> , 2014, 6, 11981-11987. | 2.8 | 29 |
| 5415 | Novel electrochemical sensor based on N-doped carbon nanotubes and Fe ₃ O ₄ nanoparticles: Simultaneous voltammetric determination of ascorbic acid, dopamine and uric acid. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 207-213. | 5.0 | 99 |
| 5416 | One-step surface modification of multi-walled carbon nanotubes by pyrrole. <i>Materials Letters</i> , 2014, 134, 91-94. | 1.3 | 10 |
| 5417 | Hydrogen storage using Na-decorated graphyne and its boron nitride analog. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12757-12764. | 3.8 | 100 |
| 5418 | Solid source growth of Si oxide nanowires promoted by carbon nanotubes. <i>Applied Surface Science</i> , 2014, 314, 119-123. | 3.1 | 3 |
| 5419 | Electrospun Doping of Carbon Nanotubes and Platinum Nanoparticles into the β -Phase Polyvinylidene Difluoride Nanofibrous Membrane for Biosensor and Catalysis Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7563-7571. | 4.0 | 112 |
| 5420 | Toward hard yet tough ceramic coatings. <i>Surface and Coatings Technology</i> , 2014, 258, 1-16. | 2.2 | 168 |
| 5421 | Facile Synthesis and Properties of Multilayered Polyaniline/Polypyrrole/Epoxy/Polystyrene/Functionalized Carbon Nanotube Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2014, 53, 661-670. | 1.9 | 6 |
| 5423 | Robust preparation of superhydrophobic polymer/carbon nanotube hybrid membranes for highly effective removal of oils and separation of water-in-oil emulsions. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15268. | 5.2 | 194 |
| 5424 | Phonon Transport through Point Contacts between Graphitic Nanomaterials. <i>Physical Review Letters</i> , 2014, 112, . | 2.9 | 60 |
| 5425 | Coarse-grained potentials of single-walled carbon nanotubes. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 71, 197-218. | 2.3 | 61 |
| 5426 | Metal-free doped carbon materials as electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4085-4110. | 5.2 | 683 |
| 5427 | Computational structural modeling and mechanical behavior of carbon nanotube reinforced aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 614, 273-283. | 2.6 | 28 |
| 5428 | Electronic Property Modification of Single-Walled Carbon Nanotubes by Encapsulation of Sulfur-Terminated Graphene Nanoribbons. <i>Small</i> , 2014, 10, 5077-5086. | 5.2 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5429 | Ion irradiation for improved graphene network formation in carbon nanotube growth. Carbon, 2014, 77, 790-795. | 5.4 | 9 |
| 5430 | Nonlinear free vibrations of curved double walled carbon nanotubes using differential quadrature method. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 64, 95-105. | 1.3 | 26 |
| 5431 | Iron oxide and oxygen plasma functionalized multi-walled carbon nanotubes for the discrimination of volatile organic compounds. Carbon, 2014, 78, 510-520. | 5.4 | 31 |
| 5432 | The solvent effect on the sidewall functionalization of multi-walled carbon nanotubes with maleic anhydride. Carbon, 2014, 78, 401-414. | 5.4 | 4 |
| 5433 | Electromagnetic absorbing materials using nonwoven fabrics coated with multi-walled carbon nanotubes. Carbon, 2014, 78, 463-468. | 5.4 | 55 |
| 5434 | Simultaneous in situ Raman monitoring of the solid and gas phases during the formation and growth of carbon nanostructures inside a cold wall CCVD reactor. Carbon, 2014, 78, 164-180. | 5.4 | 9 |
| 5435 | Solution Assembled Single-Walled Carbon Nanotube Foams: Superior Performance in Supercapacitors, Lithium-Ion, and Lithium-Air Batteries. Journal of Physical Chemistry C, 2014, 118, 20137-20151. | 1.5 | 40 |
| 5436 | Design of Surfactant-Substrate Interactions for Roll-to-Roll Assembly of Carbon Nanotubes for Thin-Film Transistors. Journal of the American Chemical Society, 2014, 136, 11188-11194. | 6.6 | 60 |
| 5437 | Inherent carbonaceous impurities on arc-discharge multiwalled carbon nanotubes and their implications for nanoscale interfaces. Carbon, 2014, 80, 1-11. | 5.4 | 13 |
| 5438 | Effect of Functional Group Topology of Carbon Nanotubes on Electrophoretic Alignment and Properties of Deposited Layer. Journal of Physical Chemistry C, 2014, 118, 11417-11425. | 1.5 | 9 |
| 5439 | Combination of Carbon Nitride and Carbon Nanotubes: Synergistic Catalysts for Energy Conversion. ChemSusChem, 2014, 7, 2303-2309. | 3.6 | 84 |
| 5440 | Top-Down Patterning and Self-Assembly for Regular Arrays of Semiconducting Single-Walled Carbon Nanotubes. Advanced Materials, 2014, 26, 6151-6156. | 11.1 | 42 |
| 5441 | SYNTHESIS, CHARACTERISTICS AND APPLICATIONS OF ZnO NANOWIRES IN DYE-SENSITIZED SOLAR CELLS VIA WATER BATH METHOD. Nano, 2014, 09, 1450061. | 0.5 | 1 |
| 5442 | Isostructural Synthesis of Porous Metal-Organic Nanotubes. Journal of the American Chemical Society, 2014, 136, 10983-10988. | 6.6 | 67 |
| 5443 | Biocompatible Carbon Nanotube-Chitosan Scaffold Matching the Electrical Conductivity of the Heart. ACS Nano, 2014, 8, 9822-9832. | 7.3 | 187 |
| 5444 | Improving the photocatalytic activity and anti-photocorrosion of semiconductor ZnO by coupling with versatile carbon. Physical Chemistry Chemical Physics, 2014, 16, 16891. | 1.3 | 374 |
| 5445 | Adsorption of rare-earth atoms on silicon carbide nanotube: a density-functional study. Modern Physics Letters B, 2014, 28, 1450154. | 1.0 | 0 |
| 5446 | Carbon nanotubes: properties, synthesis, purification, and medical applications. Nanoscale Research Letters, 2014, 9, 393. | 3.1 | 865 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5447 | Organic contaminants and carbon nanoparticles: sorption mechanisms and impact parameters. Journal of Zhejiang University: Science A, 2014, 15, 606-617. | 1.3 | 10 |
| 5448 | Electrochemical activation of pristine single walled carbon nanotubes: impact on oxygen reduction and other surface sensitive redox processes. Physical Chemistry Chemical Physics, 2014, 16, 9966. | 1.3 | 9 |
| 5449 | n-Type Carbon Nanotubes/Silver Telluride Nanohybrid Buckypaper with a High-Thermoelectric Figure of Merit. ACS Applied Materials & Interfaces, 2014, 6, 4940-4946. | 4.0 | 60 |
| 5450 | New way to characterize the percolation threshold of polyethylene and carbon nanotube polymer composites using Fourier transform (FT) rheology. Korea Australia Rheology Journal, 2014, 26, 319-326. | 0.7 | 17 |
| 5451 | Optical properties of single-walled carbon nanotubes filled with CuCl by gas-phase technique. Physica Status Solidi (B): Basic Research, 2014, 251, 2466-2470. | 0.7 | 36 |
| 5452 | Charge transfer interactions in self-assembled single walled carbon nanotubes/Dawson's Wells polyoxometalate hybrids. Chemical Science, 2014, 5, 4346-4354. | 3.7 | 49 |
| 5453 | Sensitive voltammetric detection of caffeine in tea and other beverages based on a DNA-functionalized single-walled carbon nanotube modified glassy carbon electrode. Analytical Methods, 2014, 6, 7525-7531. | 1.3 | 18 |
| 5454 | Removal of metal particles from carbon nanotubes using conventional and microwave methods. Separation and Purification Technology, 2014, 136, 105-110. | 3.9 | 13 |
| 5455 | Advances in Conceptual Electronic Nanodevices based on 0D and 1D Nanomaterials. Nano-Micro Letters, 2014, 6, 1-19. | 14.4 | 32 |
| 5456 | Research Progress in Improving the Rate Performance of LiFePO ₄ Cathode Materials. Nano-Micro Letters, 2014, 6, 209-226. | 14.4 | 51 |
| 5457 | Nanotubes Self-Assembled from Amphiphilic Molecules via Helical Intermediates. Chemical Reviews, 2014, 114, 10217-10291. | 23.0 | 208 |
| 5458 | Recent Advances in Shell-Sheddable Nanoparticles for Cancer Therapy. Journal of Biomedical Nanotechnology, 2014, 10, 1841-1862. | 0.5 | 38 |
| 5459 | PANI-TiC nanocomposite film for the direct electron transfer of hemoglobin and its application for biosensing. Journal of Solid State Electrochemistry, 2014, 18, 2193-2200. | 1.2 | 12 |
| 5460 | Effect of carbon nanotubes shape on the properties of multiwall carbon nanotubes/polyethylene flexible transparent conductive films. Journal of Materials Science: Materials in Electronics, 2014, 25, 2692-2696. | 1.1 | 15 |
| 5461 | Mesoscale Simulations of Cylindrical Nanoparticle-Driven Assembly of Diblock Copolymers in Concentrated Solutions. Macromolecules, 2014, 47, 5416-5423. | 2.2 | 9 |
| 5463 | Semiconducting Carbon Nanotube Aerogel Bulk Heterojunction Solar Cells. Small, 2014, 10, 3299-3306. | 5.2 | 52 |
| 5464 | Improved dispersion of carbon nanotubes in aluminum nanocomposites. Composite Structures, 2014, 108, 992-1000. | 3.1 | 74 |
| 5465 | Unconventional Terahertz Carrier Relaxation in Graphene Oxide: Observation of Enhanced Auger Recombination Due to Defect Saturation. ACS Nano, 2014, 8, 2486-2494. | 7.3 | 33 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5466 | Dynamic Raman Spectroelectrochemistry of Single Walled Carbon Nanotubes modified electrodes using a Langmuir-Schaefer method. <i>Electrochimica Acta</i> , 2014, 129, 171-176. | 2.6 | 23 |
| 5467 | Crystallization of poly(μ -caprolactone)/MWCNT composites: A combined SAXS/WAXS, electrical and thermal conductivity study. <i>Polymer</i> , 2014, 55, 2220-2232. | 1.8 | 80 |
| 5468 | Potential and prospective implementation of carbon nanotubes on next generation aircraft and space vehicles: A review of current and expected applications in aerospace sciences. <i>Progress in Aerospace Sciences</i> , 2014, 70, 42-68. | 6.3 | 189 |
| 5469 | Analytical applications of nanomaterials in electrogenerated chemiluminescence. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5573-5587. | 1.9 | 81 |
| 5470 | Synthesis of a three dimensional structure of vertically aligned carbon nanotubes and graphene from a single solid carbon source. <i>RSC Advances</i> , 2014, 4, 13355. | 1.7 | 13 |
| 5471 | Analytical modeling and simulation of Iâ€“V characteristics in carbon nanotube based gas sensors using ANN and SVR methods. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 137, 173-180. | 1.8 | 18 |
| 5472 | Interaction of H ₂ with a Double-Walled Armchair Nanotube by First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15816-15824. | 1.5 | 5 |
| 5473 | Conjoined structures of carbon nanotubes and graphene nanoribbons. <i>Physica Scripta</i> , 2014, 89, 044008. | 1.2 | 8 |
| 5474 | Point-of-Care Platforms. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 297-315. | 2.8 | 53 |
| 5475 | Bioactive nanocarbon assemblies: Nanoarchitectonics and applications. <i>Nano Today</i> , 2014, 9, 378-394. | 6.2 | 236 |
| 5476 | Structure, electrical and mechanical properties of polyamide 66/acid-treated MWCNT composite films prepared by solution mixing in the presence of nonionic surfactant. <i>Fibers and Polymers</i> , 2014, 15, 1010-1016. | 1.1 | 6 |
| 5477 | Efficient mixed metal oxide routed synthesis of boron nitride nanotubes. <i>RSC Advances</i> , 2014, 4, 26697-26705. | 1.7 | 23 |
| 5478 | Electrical Transducers. , 2014, , 169-232. | | 12 |
| 5479 | Electrochemical biosensing platform based on amino acid ionic liquid functionalized graphene for ultrasensitive biosensing applications. <i>Biosensors and Bioelectronics</i> , 2014, 62, 134-139. | 5.3 | 51 |
| 5480 | Biological response to purification and acid functionalization of carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1. | 0.8 | 24 |
| 5481 | Toward Lithium Ion Batteries with Enhanced Thermal Conductivity. <i>ACS Nano</i> , 2014, 8, 7202-7207. | 7.3 | 54 |
| 5482 | Enhanced solid-phase photocatalytic degradation of polyethylene by TiO ₂ @MWCNTs nanocomposites. <i>Materials Chemistry and Physics</i> , 2014, 148, 387-394. | 2.0 | 33 |
| 5483 | Development of efficient digestion procedures for quantitative determination of cobalt and molybdenum catalyst residues in carbon nanotubes. <i>Carbon</i> , 2014, 80, 59-67. | 5.4 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5484 | Pancreatic cancer gene therapy using an siRNA-functionalized single walled carbon nanotubes (SWNTs) nanoplex. <i>Biomaterials Science</i> , 2014, 2, 1244. | 2.6 | 37 |
| 5485 | Nano-Design of 3D Electrodes for Highly Efficient Quantum Dot-Sensitized Solar Energy Conversion. <i>Journal of the Electrochemical Society</i> , 2014, 161, H809-H815. | 1.3 | 4 |
| 5486 | Measurement of anode surface temperature in carbon nanomaterial production by arc discharge method. <i>Materials Research Bulletin</i> , 2014, 60, 158-165. | 2.7 | 18 |
| 5487 | Controllable growth of single crystalline CdS nanotubes by thermal evaporation. <i>Materials Letters</i> , 2014, 136, 55-58. | 1.3 | 15 |
| 5488 | Process dependent graphene-wrapped plate-like MnO ₂ nanospheres for high performance supercapacitor. <i>Chemical Physics Letters</i> , 2014, 614, 123-128. | 1.2 | 11 |
| 5489 | An analytical model and ANN simulation for carbon nanotube based ammonium gas sensors. <i>RSC Advances</i> , 2014, 4, 36896-36904. | 1.7 | 11 |
| 5490 | Air-stable high-efficiency solar cells with dry-transferred single-walled carbon nanotube films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11311-11318. | 5.2 | 66 |
| 5491 | Nanosized Carbon Black Combined with Ni ₂ O ₃ as "Universal" Catalysts for Synergistically Catalyzing Carbonization of Polyolefin Wastes to Synthesize Carbon Nanotubes and Application for Supercapacitors. <i>Environmental Science & Technology</i> , 2014, 48, 4048-4055. | 4.6 | 82 |
| 5492 | Is it possible to enhance Raman scattering of single-walled carbon nanotubes by metal particles during chemical vapor deposition?. <i>Carbon</i> , 2014, 80, 311-317. | 5.4 | 6 |
| 5493 | Fluorescent silica nanoparticles functionalized on multi-walled carbon nanotubes: Fabrication and fluorescent properties. <i>Biochip Journal</i> , 2014, 8, 83-90. | 2.5 | 4 |
| 5494 | Facile and scalable fabrication of chemiresistive sensor array for hydrogen detection based on gold-nanoparticle decorated SWCNT network. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 716-722. | 4.0 | 15 |
| 5495 | A decade of graphene research: production, applications and outlook. <i>Materials Today</i> , 2014, 17, 426-432. | 8.3 | 519 |
| 5496 | Direct Synthesis and Integration of Individual, Diameter-Controlled Single-Walled Nanotubes (SWNTs). <i>Chemistry of Materials</i> , 2014, 26, 5074-5082. | 3.2 | 12 |
| 5497 | Highly Stable Hysteresis-Free Carbon Nanotube Thin-Film Transistors by Fluorocarbon Polymer Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8441-8446. | 4.0 | 87 |
| 5498 | "Unrolling" multi-walled carbon nanotubes with ionic liquids: application as fillers in epoxy-based nanocomposites. <i>RSC Advances</i> , 2014, 4, 43436-43443. | 1.7 | 12 |
| 5499 | IrOx "carbon nanotube hybrids: A nanostructured material for electrodes with increased charge capacity in neural systems. <i>Acta Biomaterialia</i> , 2014, 10, 4548-4558. | 4.1 | 35 |
| 5500 | Preparation of polyaniline/graphene oxide nanocomposite for the application of supercapacitor. <i>Applied Surface Science</i> , 2014, 307, 172-177. | 3.1 | 145 |
| 5501 | Advances in the chemistry of alkyne-substituted homo- and heterometallic carbonyl clusters of the iron, cobalt and nickel triads. An update. <i>Journal of Organometallic Chemistry</i> , 2014, 751, 111-152. | 0.8 | 19 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5502 | Torsion of cracked nanorods using a nonlocal elasticity model. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 115304. | 1.3 | 27 |
| 5503 | The kinetic and thermodynamic sorption and stabilization of multiwalled carbon nanotubes in natural organic matter surrogate solutions: The effect of surrogate molecular weight. <i>Environmental Pollution</i> , 2014, 186, 43-49. | 3.7 | 32 |
| 5504 | A new aptamer/SWNTs IDE-SPQC sensor for rapid and specific detection of Group A Streptococcus. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 431-437. | 4.0 | 14 |
| 5505 | A numerical study on carbon nanotube-hybridized carbon fibre pullout. <i>Composites Science and Technology</i> , 2014, 91, 38-44. | 3.8 | 29 |
| 5506 | Role of the cathode deposit in the carbon arc for the synthesis of nanomaterials. <i>Carbon</i> , 2014, 77, 80-88. | 5.4 | 22 |
| 5507 | Functionalization of carbon nanotube by carboxyl group under radial deformation. <i>Chemical Physics</i> , 2014, 428, 117-120. | 0.9 | 22 |
| 5508 | Electrochemical sensing of bisphenol A based on polyglutamic acid/amino-functionalised carbon nanotubes nanocomposite. <i>Electrochimica Acta</i> , 2014, 133, 492-500. | 2.6 | 104 |
| 5509 | A simple yet efficient visible-light-driven CdS nanowires-carbon nanotube 1D-1D nanocomposite photocatalyst. <i>Journal of Catalysis</i> , 2014, 309, 146-155. | 3.1 | 161 |
| 5510 | Characterization and enhanced field emission properties of carbon nanotube bundle arrays coated with N-doped nanocrystalline anatase TiO ₂ . <i>Materials Chemistry and Physics</i> , 2014, 143, 1378-1383. | 2.0 | 7 |
| 5511 | Free vibration of rectangular nanoplates using Rayleigh-Ritz method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 357-363. | 1.3 | 47 |
| 5512 | Self-assembling synthesis of γ -Al ₂ O ₃ -carbon composites and a method to increase their photoluminescence. <i>Journal of Luminescence</i> , 2014, 153, 393-400. | 1.5 | 16 |
| 5513 | Field emission characteristics of vertically aligned carbon nanotubes with honeycomb configuration grown onto glass substrate with titanium coating. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 182, 14-20. | 1.7 | 11 |
| 5514 | Core/shell, protuberance-free multiwalled carbon nanotube/polyaniline nanocomposites via interfacial chemistry of aryl diazonium salts. <i>Journal of Colloid and Interface Science</i> , 2014, 418, 185-192. | 5.0 | 47 |
| 5515 | Peel test of spinnable carbon nanotube webs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 60, 160-165. | 1.3 | 5 |
| 5516 | The in vitro and in vivo toxicity of graphene quantum dots. <i>Biomaterials</i> , 2014, 35, 5041-5048. | 5.7 | 437 |
| 5517 | Quantum rainbow characterization of short chiral carbon nanotubes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 323, 30-35. | 0.6 | 10 |
| 5518 | Formation of electrically conducting, transparent films using silver nanoparticles connected by carbon nanotubes. <i>Thin Solid Films</i> , 2014, 562, 445-450. | 0.8 | 4 |
| 5519 | Preparation of highly dispersed Pt nanoparticles supported on single-walled carbon nanotubes by a microwave-assisted polyol method and their remarkably catalytic activity. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4266-4273. | 3.8 | 21 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 5520 | Domain growth of carbon nanotubes assisted by dewetting of thin catalyst precursor films. <i>Applied Surface Science</i> , 2014, 288, 215-221. | 3.1 | 5 |
| 5521 | Molecular interactions between carbon nanotubes and ammonium ionic liquids and their catalysis properties. <i>Materials Research Bulletin</i> , 2014, 58, 6-9. | 2.7 | 9 |
| 5522 | Adsorption of polar, nonpolar, and substituted aromatics to colloidal graphene oxide nanoparticles. <i>Environmental Pollution</i> , 2014, 186, 226-233. | 3.7 | 104 |
| 5523 | Flexural fatigue performance and electrical resistance response of carbon nanotube-based polymer composites at cryogenic temperatures. <i>Cryogenics</i> , 2014, 59, 44-48. | 0.9 | 10 |
| 5524 | Nucleation and anomalous cap formation on icosahedral Fe ₁₃ nanocatalyst: A first step towards chirality-controlled single-walled nanotube growth. <i>Carbon</i> , 2014, 67, 198-202. | 5.4 | 1 |
| 5525 | Silicon carbide/carbon nanotube heterostructures: Controllable synthesis, dielectric properties and microwave absorption. <i>Advanced Powder Technology</i> , 2014, 25, 1273-1279. | 2.0 | 23 |
| 5526 | Effects of B-N co-doping into the ultra-small diameter zigzag single-walled carbon nanotubes: A density functional theory study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 59, 88-92. | 1.3 | 14 |
| 5527 | Improving the mechanical properties of multiwalled carbon nanotube/epoxy nanocomposites using polymerization in a stirring plasma system. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 56, 172-180. | 3.8 | 20 |
| 5528 | The fracture behaviors of carbon nanotube and nanoscroll reinforced silicon matrix composites. <i>Carbon</i> , 2014, 67, 344-351. | 5.4 | 12 |
| 5529 | Narrow-chirality distributed single-walled carbon nanotube synthesis by remote plasma enhanced ethanol deposition on cobalt incorporated MCM-41 catalyst. <i>Carbon</i> , 2014, 66, 134-143. | 5.4 | 16 |
| 5530 | Carboxyl-tailed ionic liquid promoted aqueous dispersion of multi-walled carbon nanotubes. <i>High Performance Polymers</i> , 2014, 26, 274-282. | 0.8 | 7 |
| 5531 | New methods of synthesis and varied properties of carbon quantum dots with high nitrogen content. <i>Journal of Materials Research</i> , 2014, 29, 383-391. | 1.2 | 42 |
| 5532 | Titanium Dioxide Nanomaterials for Sensor Applications. <i>Chemical Reviews</i> , 2014, 114, 10131-10176. | 23.0 | 702 |
| 5533 | Platinum nanocatalysts loaded on graphene oxide-dispersed carbon nanotubes with greatly enhanced peroxidase-like catalysis and electrocatalysis activities. <i>Nanoscale</i> , 2014, 6, 8107-8116. | 2.8 | 105 |
| 5534 | Facile One-Pot, One-Step Synthesis of a Carbon Nanoarchitecture for an Advanced Multifunctional Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6496-6500. | 7.2 | 169 |
| 5535 | Synthesis, characterization and magnetic properties of Co@Au core-shell nanoparticles encapsulated by nitrogen-doped multiwall carbon nanotubes. <i>Carbon</i> , 2014, 77, 722-737. | 5.4 | 23 |
| 5536 | Template-free fabrication of mesoporous carbons from carbon quantum dots and their catalytic application to the selective oxidation of hydrocarbons. <i>Nanoscale</i> , 2014, 6, 5831. | 2.8 | 45 |
| 5537 | Mesoporous LiFePO ₄ Microspheres Embedded Homogeneously with 3D CNT Conductive Networks for Enhanced Electrochemical Performance. <i>Electrochimica Acta</i> , 2014, 137, 344-351. | 2.6 | 41 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5538 | Functional Gels Based on Chemically Modified Graphenes. <i>Advanced Materials</i> , 2014, 26, 3992-4012. | 11.1 | 276 |
| 5539 | Transport of surfactant-facilitated multiwalled carbon nanotube suspensions in columns packed with sized soil particles. <i>Environmental Pollution</i> , 2014, 192, 36-43. | 3.7 | 51 |
| 5540 | Effect of temperature and chiral vector on emerging CNTFET device. , 2014, , . | | 17 |
| 5541 | Modification of carbon nanotubes with 4-mercaptobenzoic acid-doped polyaniline for quantum dot sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4177. | 2.7 | 19 |
| 5542 | Nanostructured carbon materials based electrothermal air pump actuators. <i>Nanoscale</i> , 2014, 6, 6932-6938. | 2.8 | 32 |
| 5543 | The mechanism of blue photoluminescence from carbon nanodots. <i>CrystEngComm</i> , 2014, 16, 4981-4986. | 1.3 | 62 |
| 5544 | Carbon nanotube reinforced PVAm/PVA blend FSC nanocomposite membrane for CO ₂ /CH ₄ separation. <i>International Journal of Greenhouse Gas Control</i> , 2014, 26, 127-134. | 2.3 | 85 |
| 5545 | Hollow carbon beads for significant water evaporation enhancement. <i>Chemical Engineering Science</i> , 2014, 116, 704-709. | 1.9 | 90 |
| 5546 | Effects of single-walled carbon nanotubes on lysozyme gelation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 121, 165-170. | 2.5 | 7 |
| 5547 | First-principles study of single atom adsorption on capped single-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10161-10168. | 3.8 | 10 |
| 5548 | Nanocarbon aerogel complexes inspired by the leaf structure. <i>Carbon</i> , 2014, 77, 637-644. | 5.4 | 21 |
| 5549 | Fabrication and test of adhesion enhanced flexible carbon nanotube transparent conducting films. <i>Applied Surface Science</i> , 2014, 313, 220-226. | 3.1 | 25 |
| 5550 | Effect of the selective localization of carbon nanotubes in polystyrene/poly(vinylidene fluoride) blends on their dielectric, thermal, and mechanical properties. <i>Materials & Design</i> , 2014, 56, 807-815. | 5.1 | 89 |
| 5551 | Synthesis of biguanide-functionalized single-walled carbon nanotubes (SWCNTs) hybrid materials to immobilized palladium as new recyclable heterogeneous nanocatalyst for Suzukiâ€Miyaura coupling reaction. <i>Journal of Molecular Catalysis A</i> , 2014, 382, 106-113. | 4.8 | 71 |
| 5552 | Influence of encapsulated electron active molecules of single walled-carbon nanotubes on superstrate-type Cu(In,Ga)Se ₂ solar cells. <i>Materials Chemistry and Physics</i> , 2014, 144, 49-54. | 2.0 | 5 |
| 5553 | Nanodiamonds activate blood platelets and induce thromboembolism. <i>Nanomedicine</i> , 2014, 9, 427-440. | 1.7 | 38 |
| 5554 | Ferrite multiphase/carbon nanotube composites sintered by microwave sintering and spark plasma sintering. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 881-885. | 0.5 | 3 |
| 5555 | Noncovalent Functionalization of Boron Nitride Nanotubes in Aqueous Media Opens Application Roads in Nanobiomedicine. <i>Nanobiomedicine</i> , 2014, 1, 7. | 4.4 | 44 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5556 | High Strength and High Modulus Electrospun Nanofibers. <i>Fibers</i> , 2014, 2, 158-186. | 1.8 | 215 |
| 5557 | One step shift towards flexible supercapacitors based on carbon nanotubes - A review. , 2014, , . | | 1 |
| 5559 | Scientometric investigation of global carbon nanotubes research. <i>International Journal of Nuclear Knowledge Management</i> , 2014, 6, 322. | 0.3 | 1 |
| 5560 | Vibrational properties of single-walled carbon nanotubes embedded in an elastic medium in thermal environment. <i>International Journal of Nanomanufacturing</i> , 2014, 10, 453. | 0.3 | 0 |
| 5561 | Mechanics of fracture in nanometer-scale components. <i>Mechanical Engineering Reviews</i> , 2014, 1, SMM0007-SMM0007. | 4.7 | 6 |
| 5562 | Surface modification of carbon nanomaterials by aminopropyltriethoxysilane. <i>Surface Innovations</i> , 2014, 2, 245-252. | 1.4 | 7 |
| 5563 | Preparation of high filling ratio Fe ₂ O ₃ @MWCNTs composite particles and catalytic performance on thermal decomposition of ammonium perchlorate. <i>Micro and Nano Letters</i> , 2014, 9, 787-791. | 0.6 | 5 |
| 5565 | Semi-transparent polymer light emitting diodes with multiwall carbon nanotubes as cathodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2828-2832. | 0.8 | 4 |
| 5566 | Synthesis and characterisation of double-walled carbon nanotube/cobalt oxide nanocomposite for the application of anode material for lithium ion batteries. <i>International Journal of Nanoparticles</i> , 2014, 7, 133. | 0.1 | 2 |
| 5568 | Recent progress in parallel fabrication of individual single walled carbon nanotube devices using dielectrophoresis. <i>Materials Express</i> , 2014, 4, 263-278. | 0.2 | 11 |
| 5570 | Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 1.3 | 13 |
| 5571 | Carbon Nanotubes: A New Methodology for Enhanced Squeeze Lifetime CNTs. , 2014, , . | | 4 |
| 5572 | Polymer-carbon nanotube composites: electrospinning, alignment and interactions. , 2014, , . | | 0 |
| 5573 | Molecular Disorder in Prestrained Nanocomposites: Effects of Processing on Durability of Thermally-Active Ethylene-Vinyl Acetate PyChol Multiwall Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1718, 21-26. | 0.1 | 0 |
| 5574 | Interaction between Spinnable Multi Wall Carbon Nanotube Webs. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1180-1193. | 1.3 | 0 |
| 5577 | In situ CCVD synthesis of carbon nanotubes within zeolite crystal coated porous ceramic foam. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 480-484. | 0.5 | 1 |
| 5578 | A bioactive glass nanocomposite scaffold toughened by multi-wall carbon nanotubes for tissue engineering. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 485-491. | 0.5 | 15 |
| 5579 | Understanding double-resonant Raman scattering in chiral carbon nanotubes: Diameter and energy dependence of the Dmode. <i>Physical Review B</i> , 2015, 92, . | 1.1 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5582 | Li-ion batteries: basics, progress, and challenges. <i>Energy Science and Engineering</i> , 2015, 3, 385-418. | 1.9 | 736 |
| 5584 | Additive Manufacturing of Ceramics. , 2015, , 156-197. | | 11 |
| 5585 | Study on Dielectric and Magnetic Properties of MWCNTs/Polyester Composites. <i>Applied Mechanics and Materials</i> , 2015, 815, 188-192. | 0.2 | 0 |
| 5586 | Controlled catalytic domain formation by mixed iron halide compounds to decrease the waviness of carbon nanotube arrays. <i>RSC Advances</i> , 2015, 5, 84367-84371. | 1.7 | 3 |
| 5587 | Recent Advancements in Boron Nitride Nanotube Biomedical Research. , 2015, , 594-605. | | 0 |
| 5588 | Silicon nanowire and carbon nanotube hybrid for room temperature multiwavelength light source. <i>Scientific Reports</i> , 2015, 5, 16753. | 1.6 | 26 |
| 5589 | An Efficient Approach to Prepare Carbon Nanotube-Gold Nanoparticles Nanocomposites Based on Amphiphilic Copolymer Containing Coumarin. <i>Chemistry Letters</i> , 2015, 44, 1497-1499. | 0.7 | 1 |
| 5590 | Diameter Dependence of Lattice Thermal Conductivity of Single-Walled Carbon Nanotubes: Study from Ab Initio. <i>Scientific Reports</i> , 2015, 5, 15440. | 1.6 | 35 |
| 5591 | Influence of PMSA-Based Polymer on the Settling Velocity of CNT in Aqueous Media. <i>Materials Transactions</i> , 2015, 56, 2006-2009. | 0.4 | 1 |
| 5592 | Selective Determination of Uric Acid in the Presence of Ascorbic Acid Using Layer-by-Layer Gold Nanoparticles, Tin Oxide Nanoparticles and Multi-walled Carbon Nanotubes Assembled Multilayer Films. <i>Electrochemistry</i> , 2015, 83, 956-961. | 0.6 | 2 |
| 5593 | Dynamical backaction cooling with free electrons. <i>Nature Communications</i> , 2015, 6, 8104. | 5.8 | 23 |
| 5594 | On the Stability and Abundance of Single Walled Carbon Nanotubes. <i>Scientific Reports</i> , 2015, 5, 16850. | 1.6 | 31 |
| 5595 | A highly durable fuel cell electrocatalyst based on double-polymer-coated carbon nanotubes. <i>Scientific Reports</i> , 2015, 5, 16711. | 1.6 | 39 |
| 5596 | Graphene oxide/carbon nanoparticle thin film based IR detector: Surface properties and device characterization. <i>AIP Advances</i> , 2015, 5, . | 0.6 | 30 |
| 5597 | Preparation of CNTs rope by electrostatic and airflow field carding with high speed rotor spinning. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 103, 012016. | 0.3 | 2 |
| 5598 | Water-processed carbon nanotube/graphene hybrids with enhanced field emission properties. <i>AIP Advances</i> , 2015, 5, . | 0.6 | 19 |
| 5600 | Change in chirality of semiconducting single-walled carbon nanotubes can overcome anionic surfactant stabilisation: a systematic study of aggregation kinetics. <i>Environmental Chemistry</i> , 2015, 12, 652. | 0.7 | 13 |
| 5601 | Dispersability of Carbon Nanotubes in Biopolymer-Based Fluids. <i>Crystals</i> , 2015, 5, 74-90. | 1.0 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 5602 | Plasmonic Gold Decorated MWCNT Nanocomposite for Localized Plasmon Resonance Sensing. Scientific Reports, 2015, 5, 13181. | 1.6 | 29 |
| 5603 | Concept of the Tip Effect in Single Walled Carbon Nanotube. Advanced Materials Research, 0, 1099, 37-40. | 0.3 | 0 |
| 5604 | Dispersion and Functionalization of Boron Nitride Nanotubes in Aqueous Solution. Nippon Gomu Kyokaishi, 2015, 88, 447-453. | 0.0 | 0 |
| 5605 | Clocking the anisotropic lattice dynamics of multi-walled carbon nanotubes by four-dimensional ultrafast transmission electron microscopy. Scientific Reports, 2015, 5, 8404. | 1.6 | 38 |
| 5606 | Investigation of physical aging of carbon nanotube/PEDOT:PSS nanocomposites by electrochemical impedance spectroscopy. , 2015, , . | | 1 |
| 5607 | A biomemory chip composed of a myoglobin/CNT heterolayer fabricated by the protein-adsorption-precipitation-crosslinking (PAPC) technique. Colloids and Surfaces B: Biointerfaces, 2015, 136, 853-858. | 2.5 | 6 |
| 5608 | Carbon nanotube field emitters on KOVAR substrate modified by random pattern. Journal of Nanoparticle Research, 2015, 17, 1. | 0.8 | 2 |
| 5609 | The effects of an alkaline treatment on the ferroelectric properties of poly(vinylidene fluoride) Tj ETQq1 1 0.784314 rgBT /Ovgrlock 10 | 1.6 | 10 |
| 5610 | Carbon nanotube web-based current collectors for high-performance lithium ion batteries. Materials Today Communications, 2015, 4, 149-155. | 0.9 | 11 |
| 5611 | Influence of carbon nanotube extending length on pyrocarbon microstructure and mechanical behavior of carbon/carbon composites. Applied Surface Science, 2015, 355, 1020-1027. | 3.1 | 30 |
| 5612 | Inner Surface Chirality of Single-Handed Twisted Carbonaceous Tubular Nanoribbons. Chirality, 2015, 27, 809-815. | 1.3 | 13 |
| 5613 | (<i>S</i>)-BINOL Immobilized onto Multiwalled Carbon Nanotubes through Covalent Linkage: A New Approach for Hybrid Nanomaterials Characterization. ChemNanoMat, 2015, 1, 178-187. | 1.5 | 5 |
| 5614 | Enhanced Field Emission from a Carbon Nanotube Array Coated with a Hexagonal Boron Nitride Thin Film. Small, 2015, 11, 3710-3716. | 5.2 | 38 |
| 5615 | Scanning MWCNT Nanopipette and Probe Microscopy: Li Patterning and Transport Studies. Small, 2015, 11, 4946-4958. | 5.2 | 6 |
| 5616 | Carbon/Silicon Heterojunction Solar Cells: State of the Art and Prospects. Advanced Materials, 2015, 27, 6549-6574. | 11.1 | 159 |
| 5617 | Programmable Nanocarbon-Based Architectures for Flexible Supercapacitors. Advanced Energy Materials, 2015, 5, 1500677. | 10.2 | 87 |
| 5618 | Improved impact strength of epoxy by the addition of functionalized multiwalled carbon nanotubes and reactive diluent. Journal of Applied Polymer Science, 2015, 132, . | 1.3 | 17 |
| 5619 | Preparation and characterization of P(ANa-co-VAc-co-DEMA) fibers coated with multiwalled carbon nanotubes by electrostatic interactions. Journal of Applied Polymer Science, 2015, 132, . | 1.3 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 5620 | Palladium and Bimetallic Palladium-Nickel Nanoparticles Supported on Multiwalled Carbon Nanotubes: Application to Carbon-Carbon Bond-Forming Reactions in Water. <i>ChemCatChem</i> , 2015, 7, 1841-1847. | 1.8 | 49 |
| 5621 | (9,8) Single-Walled Carbon Nanotube Enrichment via Aqueous Two-Phase Separation and Their Thin-Film Transistor Applications. <i>Advanced Electronic Materials</i> , 2015, 1, 1500151. | 2.6 | 23 |
| 5622 | Elucidating Adsorption Mechanisms of Phthalate Esters upon Carbon Nanotubes/Graphene and Natural Organic Acid Competitive Effects in Water by <i>DFT</i> and <i>MD</i> Calculations. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1631-1636. | 1.0 | 7 |
| 5623 | Selective detection and quantification of carbon nanotubes in soil. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1969-1974. | 2.2 | 6 |
| 5624 | Polyamide/carbonaceous particles nanocomposites fibers: Morphology and performances. <i>Polymer Composites</i> , 2015, 36, 1020-1028. | 2.3 | 5 |
| 5625 | Bio-Inspired Hierarchical Nanoweb for Green Catalysis. <i>Small</i> , 2015, 11, 4292-4297. | 5.2 | 7 |
| 5626 | Biological Effect of Single Wall Carbon Nanotubes on <i>Skeletonema</i> and <i>Costatum</i> and <i>Prorocentrum donghaiense</i> in Seawaters. <i>Key Engineering Materials</i> , 0, 645-646, 1326-1332. | 0.4 | 0 |
| 5627 | A Review of Patterned Organic Bioelectronic Materials and their Biomedical Applications. <i>Advanced Materials</i> , 2015, 27, 7583-7619. | 11.1 | 67 |
| 5628 | Transcrystallinity and relevant interfacial strength induced by carbon nanotube fibers in a polypropylene matrix. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 1.3 | 5 |
| 5629 | Segmental nitrogen doping and carboxyl functionalization of multi-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2472-2478. | 0.7 | 4 |
| 5630 | Microfluidic direct methanol fuel cell by electrophoretic deposition of platinum/carbon nanotubes on electrode surface. <i>International Journal of Energy Research</i> , 2015, 39, 1430-1436. | 2.2 | 14 |
| 5631 | Synergic Effects of Randomly Aligned SWCNT Mesh and Self-Assembled Molecule Layer for High-Performance, Low-Bandgap, Polymer Solar Cells with Fast Charge Extraction. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500324. | 1.9 | 22 |
| 5632 | Improving electrical conductivity of poly methyl methacrylate by utilization of carbon nanotube and CO ₂ laser. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 1.3 | 19 |
| 5633 | A V-Shaped Polyaromatic Amphiphile: Solubilization of Various Nanocarbons in Water and Enhanced Photostability. <i>Chemistry - A European Journal</i> , 2015, 21, 12741-12746. | 1.7 | 39 |
| 5634 | A Highly Sensitive Electrochemical Immunosensor for Fumonisin B ₁ Detection in Corn Using Single-Walled Carbon Nanotubes/Chitosan. <i>Electroanalysis</i> , 2015, 27, 2679-2687. | 1.5 | 41 |
| 5635 | An analytical bond-order potential for carbon. <i>Journal of Computational Chemistry</i> , 2015, 36, 1719-1735. | 1.5 | 36 |
| 5636 | Phenomenological characterization of fabrication of aligned pristine-SWNT and COOH-SWNT nanocomposites via dielectrophoresis under AC electric field. <i>Polymer Composites</i> , 2015, 36, 1266-1279. | 2.3 | 19 |
| 5637 | Large-Area Polyimide/SWCNT Nanocable Cathode for Flexible Lithium-Ion Batteries. <i>Advanced Materials</i> , 2015, 27, 6504-6510. | 11.1 | 150 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5638 | The effect of molecular weight on the separation of semiconducting single-walled carbon nanotubes using poly(2,7-carbazole)s. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2510-2516. | 2.5 | 27 |
| 5639 | Effect of high-pressure fluorination on electrical properties of multi-walled carbon nanotubes sheet. <i>EPJ Applied Physics</i> , 2015, 72, 20403. | 0.3 | 2 |
| 5641 | Electrical response of liquid crystal cells doped with multi-walled carbon nanotubes. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 396-403. | 1.5 | 31 |
| 5642 | Small-scale effects on transverse vibrational behavior of single-walled carbon nanotubes with arbitrary boundary conditions. <i>Engineering Solid Mechanics</i> , 2015, 3, 131-144. | 0.6 | 6 |
| 5643 | Manufacturing and characterization of multifunctional polymer-reduced graphene oxide nanocomposites. , 2015, , 157-232. | | 2 |
| 5644 | Raman spectroscopy of proton-irradiated octadecylamine-functionalized carbon nanotube films. <i>Journal of the Korean Physical Society</i> , 2015, 67, 608-611. | 0.3 | 2 |
| 5645 | Effects of Morphology, Concentration and Contact Duration of Carbon-Based Nanoparticles on Cytotoxicity of L929 Cells. , 2015, , . | | 3 |
| 5646 | Recent Advancements in Carbon Nanofiber and Carbon Nanotube Applications in Drug Delivery and Tissue Engineering. <i>Current Pharmaceutical Design</i> , 2015, 21, 2037-2044. | 0.9 | 34 |
| 5647 | Conductive Polymeric Composites Based on Multiwalled Carbon Nanotubes and Linseed Oil Functionalized and Cross-Linked with Diacetylenes from Propargyl Alcohol. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7. | 1.5 | 3 |
| 5648 | Fabrication of Nanochannels. <i>Materials</i> , 2015, 8, 6277-6308. | 1.3 | 24 |
| 5649 | Enhanced Synthesis of Carbon Nanomaterials Using Acoustically Excited Methane Diffusion Flames. <i>Materials</i> , 2015, 8, 4805-4816. | 1.3 | 7 |
| 5650 | Titration of DNA/Carbon Nanotube Complexes with Double-Chained Oppositely Charged Surfactants. <i>Nanomaterials</i> , 2015, 5, 722-736. | 1.9 | 5 |
| 5651 | Impact of Carbon Nano-Onions on <i>Hydra vulgaris</i> as a Model Organism for Nanoecotoxicology. <i>Nanomaterials</i> , 2015, 5, 1331-1350. | 1.9 | 57 |
| 5652 | Textile-Based Electronic Components for Energy Applications: Principles, Problems, and Perspective. <i>Nanomaterials</i> , 2015, 5, 1493-1531. | 1.9 | 81 |
| 5653 | Biosensing with Förster Resonance Energy Transfer Coupling between Fluorophores and Nanocarbon Allotropes. <i>Sensors</i> , 2015, 15, 14766-14787. | 2.1 | 29 |
| 5654 | Effects of Functionalized and Raw Multi-Walled Carbon Nanotubes on Soil Bacterial Community Composition. <i>PLoS ONE</i> , 2015, 10, e0123042. | 1.1 | 59 |
| 5655 | A Review of Spectral Methods for Dispersion Characterization of Carbon Nanotubes in Aqueous Suspensions. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-11. | 0.6 | 67 |
| 5656 | SWCNT-Based Biosensor Modelling for pH Detection. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7. | 1.5 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5657 | The Electrical and Mechanical Properties of Porous Anodic 6061-T6 Aluminum Alloy Oxide Film. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-5. | 1.5 | 14 |
| 5658 | A Microwave-Based Chemical Factory in the Lab: From Milligram to Multigram Preparations. <i>Journal of Chemistry</i> , 2015, 2015, 1-8. | 0.9 | 24 |
| 5659 | Dynamic Fracture Toughness of TaC/CNTs/SiC CMCs Prepared by Spark Plasma Sintering. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-8. | 1.0 | 2 |
| 5660 | Thermal Spectroscopy and Kinetic Studies of PEO/PVDF Loaded by Carbon Nanotubes. <i>Journal of Materials</i> , 2015, 2015, 1-8. | 0.1 | 12 |
| 5661 | Fabrication and Properties of Macroscopic Carbon Nanotube Assemblies Transforming from Aligned Nanotubes. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8. | 1.5 | 3 |
| 5662 | First-Principles Study of Field Emission from Zigzag Graphene Nanoribbons Terminated with Ether Groups. <i>Chinese Journal of Chemical Physics</i> , 2015, 28, 573-578. | 0.6 | 1 |
| 5663 | Large-Scale Preparation of Carbon Nanotubes via Catalytic Pyrolysis of Phenolic Resin at Low Temperature. <i>InterCeram: International Ceramic Review</i> , 2015, 64, 86-89. | 0.2 | 3 |
| 5665 | Surface Chemistry and Thermal Stability in Air of Carbon Nanotubes Functionalised via a Novel Eco-Friendly Approach to HNO ₃ Vapor Oxidation. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 83-92. | 1.0 | 2 |
| 5666 | Influence of hybrid nano-filler on the crystallization behaviour and interfacial interaction in polyamide 6 based hybrid nano-composites. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9410-9419. | 1.3 | 30 |
| 5667 | Broadband laser polarization control with aligned carbon nanotubes. <i>Nanoscale</i> , 2015, 7, 11199-11205. | 2.8 | 14 |
| 5668 | Thermal decomposition mechanism of Co@ANPyO/CNTs nanocomposites and their application to the thermal decomposition of ammonium perchlorate. <i>RSC Advances</i> , 2015, 5, 50278-50288. | 1.7 | 19 |
| 5669 | Highly Photoluminescent Carbon Dots Derived from Egg White: Facile and Green Synthesis, Photoluminescence Properties, and Multiple Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1412-1418. | 3.2 | 153 |
| 5670 | Aqueous Nanosilica Dispersants for Carbon Nanotube. <i>Langmuir</i> , 2015, 31, 3194-3202. | 1.6 | 22 |
| 5671 | Ethylenediamine-assisted hydrothermal synthesis of nitrogen-doped carbon quantum dots as fluorescent probes for sensitive biosensing and bioimaging. <i>Sensors and Actuators B: Chemical</i> , 2015, 218, 229-236. | 4.0 | 206 |
| 5672 | Tunable Encapsulation Structure of Block Copolymer Coated Single-Walled Carbon Nanotubes in Aqueous Solution. <i>Macromolecules</i> , 2015, 48, 3475-3480. | 2.2 | 13 |
| 5673 | Solving a wonderful problem. <i>Nature Materials</i> , 2015, 14, 561-563. | 13.3 | 9 |
| 5674 | Energy distribution of the particles obtained after irradiation of carbon nanotubes with carbon projectiles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 352, 221-224. | 0.6 | 2 |
| 5675 | Diffusion of Epoxy Molecules on the Chemically Modified Graphene: A Molecular Dynamics Simulation Study. <i>Materials Science Forum</i> , 0, 817, 803-808. | 0.3 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5676 | Broad Family of Carbon Nanoallotropes: Classification, Chemistry, and Applications of Fullerenes, Carbon Dots, Nanotubes, Graphene, Nanodiamonds, and Combined Superstructures. <i>Chemical Reviews</i> , 2015, 115, 4744-4822. | 23.0 | 1,519 |
| 5677 | Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. <i>Chemical Reviews</i> , 2015, 115, 10816-10906. | 23.0 | 1,151 |
| 5678 | Carbon nanotube-ionic liquid composite gel based high-performance bioanode for glucose/O ₂ biofuel cells. <i>Analytical Methods</i> , 2015, 7, 5060-5066. | 1.3 | 8 |
| 5679 | Enhanced dispersion of multiwall carbon nanotubes in natural rubber latex nanocomposites by surfactants bearing phenyl groups. <i>Journal of Colloid and Interface Science</i> , 2015, 455, 179-187. | 5.0 | 73 |
| 5680 | Studies on the equivalent serial resistance of carbon supercapacitor. <i>Electrochimica Acta</i> , 2015, 174, 596-600. | 2.6 | 56 |
| 5681 | Impedance Spectroscopy of Supported Multiwalled Carbon Nanotubes for Immunosensor Applications. <i>Journal of Nanomedicine & Nanotechnology</i> , 2015, 06, . | 1.1 | 1 |
| 5682 | Electrochemical properties of MnO ₂ -deposited TiO ₂ nanotube arrays 3D composite electrode for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14331-14337. | 3.8 | 50 |
| 5683 | Restriction of Phase Transformation in Carbon Nanotube-Reinforced Ytria-Stabilized Zirconia. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 2965-2974. | 1.1 | 15 |
| 5684 | Pulmonary Mast Cells. , 2015, , 665-682. | | 0 |
| 5685 | Mechanical behavior of extra-strong CNT fibers and their composites. , 2015, , 339-372. | | 2 |
| 5686 | Influence of dispersion/mixture time on mechanical properties of Al-CNTs nanocomposites. <i>Composite Structures</i> , 2015, 126, 114-122. | 3.1 | 60 |
| 5687 | Effect of the reactivity and porous structure of expanded graphite (EG) on microstructure and properties of Al ₂ O ₃ -C refractories. <i>Journal of Alloys and Compounds</i> , 2015, 645, 388-397. | 2.8 | 38 |
| 5688 | Diethylenetriamine-functionalized single-walled carbon nanotubes (SWCNTs) to immobilization palladium as a novel recyclable heterogeneous nanocatalyst for the Suzuki-Miyaura coupling reaction in aqueous media. <i>Comptes Rendus Chimie</i> , 2015, 18, 636-643. | 0.2 | 28 |
| 5690 | Nanotechnology Advancements on Carbon Nanotube/Polypyrrole Composite Electrodes for Supercapacitors. , 2015, , 479-510. | | 27 |
| 5691 | Detecting the hollow structure of thick carbon nanotubes by scanning transmission X-ray microscopy. <i>RSC Advances</i> , 2015, 5, 46904-46907. | 1.7 | 1 |
| 5692 | Tailored mechanical behavior of magnetic particles loaded carbon nanotube foam in presence of magnetic field. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 265301. | 1.3 | 3 |
| 5693 | Third-order optical nonlinearity effect of DNA- and polyvinylpyrrolidone-functionalized carbon nanotubes. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2015, 24, 1550008. | 1.1 | 3 |
| 5694 | Nanomaterials Definitions, Classifications, and Applications. , 2015, , 3-40. | | 54 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5696 | Electron transport properties of a single-walled carbon nanotube in the presence of hydrogen cyanide: first-principles analysis. <i>Journal of Molecular Modeling</i> , 2015, 21, 173. | 0.8 | 15 |
| 5697 | Microinjection molding of polyamide 6/carbon nanotube composites. <i>Nanocomposites</i> , 2015, 1, 145-151. | 2.2 | 1 |
| 5698 | DFT calculation of carbon nanotubes energy and dipole moment in external electric field. , 2015, , . | | 1 |
| 5699 | Advanced properties of multiwalled carbon nanotube elastomer composites. <i>Materials Technology</i> , 2015, 30, 150-154. | 1.5 | 8 |
| 5700 | Simple and Precise Quantification of Iron Catalyst Content in Carbon Nanotubes Using UV/Visible Spectroscopy. <i>ChemistryOpen</i> , 2015, 4, 613-619. | 0.9 | 23 |
| 5701 | Nanoring Arrays on Fe Coated Substrate: Formation and Guidance for the Growth of Hierarchical CNTs. <i>Langmuir</i> , 2015, 31, 13327-13333. | 1.6 | 0 |
| 5702 | High performance electric heating polyimide composite films reinforced with acid-treated multiwalled carbon nanotubes. <i>Macromolecular Research</i> , 2015, 23, 1144-1151. | 1.0 | 4 |
| 5703 | The effect of particle shape on the structure and rheological properties of carbon-based particle suspensions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015, 33, 1550-1561. | 2.0 | 13 |
| 5704 | The use of carbon nanotubes for damage sensing and structural health monitoring in laminated composites: a review. <i>Nanocomposites</i> , 2015, 1, 167-184. | 2.2 | 119 |
| 5705 | Interface Dynamics in Strained Polymer Nanocomposites: Stick-Slip Wrapping as a Prelude to Mechanical Backbone Twisting Derived from Sonication-Induced Amorphization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20091-20099. | 1.5 | 4 |
| 5706 | Rectangular copper nanotubes. <i>RSC Advances</i> , 2015, 5, 108002-108006. | 1.7 | 3 |
| 5707 | The role of ions in plasma catalytic carbon nanotube growth: A review. <i>Frontiers of Chemical Science and Engineering</i> , 2015, 9, 154-162. | 2.3 | 10 |
| 5708 | Controlled preparation of CuO and Cu nanoparticles attached on carbon nanotubes for glucose sensing. <i>Materials Technology</i> , 2015, 30, A186-A191. | 1.5 | 2 |
| 5709 | Multi-scale Simulation of Carbon Nanotubes Interactions with Cell Membrane: DFT Calculations and Molecular Dynamic Simulation. , 2015, 11, 423-427. | | 8 |
| 5710 | Production of Sustainable Energy by Carbon Nanotube/Platinum Catalyst in Microbial Fuel Cell. <i>Procedia CIRP</i> , 2015, 26, 473-476. | 1.0 | 19 |
| 5711 | A Review of Hydrophilization of Oxidized Nanocarbons. <i>ACS Symposium Series</i> , 2015, , 25-41. | 0.5 | 1 |
| 5712 | Topology Optimized Vibration Control of a Fluid-Conveying Carbon Nanotube with Non-Uniform Magnetic Field. <i>International Journal of Applied Mechanics</i> , 2015, 07, 1550092. | 1.3 | 6 |
| 5713 | High frequency CNTFET-based logic gate. , 2015, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5714 | Electrical and optical polarization responses of composite films based on aligned carbon nanotubes. RSC Advances, 2015, 5, 86811-86816. | 1.7 | 3 |
| 5715 | Preparation of aligned carbon nanotubes: Shape-dependence on isotropic to nematic phase transition. , 2015, , . | | 0 |
| 5716 | Quantitative Production of Charges with a Carbon Nanotubes Coated Electrode Based on Trichel Pulses. Key Engineering Materials, 0, 645-646, 92-97. | 0.4 | 0 |
| 5717 | Methane dissociative reaction on Rh-decorated carbon and boron-nitride nanotubes. , 2015, , . | | 0 |
| 5718 | On Adhesive and Buckling Instabilities in the Mechanics of Carbon Nanotubes Bundles. Journal of Applied Mechanics, Transactions ASME, 2015, 82, . | 1.1 | 1 |
| 5719 | Effect of Device Parameters on Carbon Nanotube Field Effect Transistor in Nanometer Regime. Journal of Nano Research, 2015, 36, 64-75. | 0.8 | 5 |
| 5720 | Electrospun Aligned Fibrous Arrays and Twisted Ropes: Fabrication, Mechanical and Electrical Properties, and Application in Strain Sensors. Nanoscale Research Letters, 2015, 10, 475. | 3.1 | 30 |
| 5721 | Controllable boron doping of carbon nanotubes with tunable dopant functionalities: an effective strategy toward carbon materials with enhanced electrical properties. RSC Advances, 2015, 5, 97579-97588. | 1.7 | 30 |
| 5722 | CVD method for carbon nanotubes preparation based on orthogonal experiment using C ₃ H ₆ . Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 959-964. | 0.4 | 5 |
| 5723 | Effect of carbon nano tube (CNT) particles in magnetic abrasive finishing of Mg alloy bars. Journal of Mechanical Science and Technology, 2015, 29, 5325-5333. | 0.7 | 19 |
| 5724 | One-step microwave-assisted synthesis of Ag/ZnO/graphene nanocomposites with enhanced photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 302, 17-22. | 2.0 | 70 |
| 5725 | Technologies for Printing Sensors and Electronics Over Large Flexible Substrates: A Review. IEEE Sensors Journal, 2015, 15, 3164-3185. | 2.4 | 963 |
| 5726 | An exact analysis for the hoop elasticity and pressure-induced twist of CNT-nanovessels and CNT-nanopipes. Mechanics of Materials, 2015, 82, 47-62. | 1.7 | 8 |
| 5727 | Probing the Influence of the Conjugated Structure and Halogen Atoms of Poly-Iron-Phthalocyanine on the Oxygen Reduction Reaction by X-ray Absorption Spectroscopy and Density Functional Theory. Electrochimica Acta, 2015, 154, 102-109. | 2.6 | 11 |
| 5728 | Analysis of different parameters of channel material and temperature on threshold voltage of CNTFET. Materials Science in Semiconductor Processing, 2015, 31, 431-438. | 1.9 | 25 |
| 5729 | Improving the electrochemical performance of Fe ₃ O ₄ nanoparticles via a double protection strategy through carbon nanotube decoration and graphene networks. Nano Research, 2015, 8, 1339-1347. | 5.8 | 30 |
| 5730 | Effects of geometrical and mechanical properties of fiber and matrix on composite fracture toughness. Composite Structures, 2015, 122, 496-506. | 3.1 | 43 |
| 5731 | Superior performance hybrid (electrostatic double-layer and faradaic capacitor) polymer actuators incorporating noble metal oxides and carbon black. Sensors and Actuators B: Chemical, 2015, 210, 748-755. | 4.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5732 | All carbon coaxial supercapacitors based on hollow carbon nanotube sleeve structure. <i>Nanotechnology</i> , 2015, 26, 045401. | 1.3 | 14 |
| 5733 | Carbon nanotube assembly at near-industrial natural-fiber spinning rates. <i>Carbon</i> , 2015, 86, 350-357. | 5.4 | 64 |
| 5734 | Noncovalent Grafting of Carbon Nanotubes with Triblock Terpolymers: Toward Patchy 1D Hybrids. <i>Macromolecules</i> , 2015, 48, 1767-1776. | 2.2 | 20 |
| 5735 | A Transparent, Hazy, and Strong Macroscopic Ribbon of Oriented Cellulose Nanofibrils Bearing Poly(ethylene glycol). <i>Advanced Materials</i> , 2015, 27, 2070-2076. | 11.1 | 185 |
| 5736 | Pencil Drawn Strain Gauges and Chemiresistors on Paper. <i>Scientific Reports</i> , 2014, 4, 3812. | 1.6 | 131 |
| 5737 | Boron Nitride Nanomaterials for Thermal Management Applications. <i>ChemPhysChem</i> , 2015, 16, 1339-1346. | 1.0 | 119 |
| 5738 | Multiwalled carbon nanotubes noncovalently functionalized by electro-active amphiphilic copolymer micelles for selective dopamine detection. <i>RSC Advances</i> , 2015, 5, 18233-18241. | 1.7 | 15 |
| 5739 | A higher-order nonlocal elasticity and strain gradient theory and its applications in wave propagation. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 78, 298-313. | 2.3 | 1,161 |
| 5740 | Low temperature synthesized carbon nanotube superstructures with superior CO ₂ and hydrogen storage capacity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5148-5161. | 5.2 | 84 |
| 5741 | Peptide-Induced Affinity Binding of Carbonic Anhydrase to Carbon Nanotubes. <i>Langmuir</i> , 2015, 31, 397-403. | 1.6 | 33 |
| 5742 | Novel scalable synthesis of highly conducting and robust PEDOT paper for a high performance flexible solid supercapacitor. <i>Energy and Environmental Science</i> , 2015, 8, 1339-1347. | 15.6 | 350 |
| 5743 | Lipid monolayer disruption caused by aggregated carbon nanoparticles. <i>RSC Advances</i> , 2015, 5, 11676-11685. | 1.7 | 47 |
| 5744 | Formation of single and multi-walled carbon nanotubes and graphene from Indian bituminous coal. <i>Fuel</i> , 2015, 147, 35-42. | 3.4 | 60 |
| 5745 | Bioelectrochemistry of Heme Peptide at Seamless Three-Dimensional Carbon Nanotubes/Graphene Hybrid Films for Highly Sensitive Electrochemical Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3647-3654. | 4.0 | 39 |
| 5746 | A 2D percolation-based model for characterizing the piezoresistivity of carbon nanotube-based films. <i>Journal of Materials Science</i> , 2015, 50, 2973-2983. | 1.7 | 51 |
| 5747 | A new understanding of carbon nanotube growth: Different functions of carbon species. <i>Applied Surface Science</i> , 2015, 332, 756-760. | 3.1 | 0 |
| 5748 | Highly untangled multiwalled carbon nanotube@polyhedral oligomeric silsesquioxane ionic hybrids: Synthesis, characterization and nonlinear optical properties. <i>Carbon</i> , 2015, 86, 325-337. | 5.4 | 23 |
| 5749 | Quantitative assessment of the effect of purity on the properties of single wall carbon nanotubes. <i>Nanoscale</i> , 2015, 7, 5126-5133. | 2.8 | 14 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5750 | Investigation of microstructure and electric heating behavior of hybrid polymer composite films based on thermally stable polybenzimidazole and multiwalled carbon nanotube. <i>Polymer</i> , 2015, 59, 102-109. | 1.8 | 24 |
| 5751 | Visible light photocatalytic activities of carbon nanotube/titanic acid nanotubes derived-TiO ₂ composites for the degradation of methylene blue. <i>Advanced Powder Technology</i> , 2015, 26, 8-13. | 2.0 | 13 |
| 5752 | The hybrid of Pd and SWCNT (Pd loaded on SWCNT) as an efficient sensor for the formaldehyde molecule detection: A DFT study. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 55-62. | 4.0 | 75 |
| 5753 | Controlling Carbon-Nanotubeâ€™Phospholipid Solubility by Curvature-Dependent Self-Assembly. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4020-4032. | 1.2 | 18 |
| 5754 | More Dominant Shear Flow Effect Assisted by Added Carbon Nanotubes on Crystallization Kinetics of Isotactic Polypropylene in Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1364-1375. | 4.0 | 33 |
| 5755 | Green functions of graphene: An analytic approach. <i>Physica B: Condensed Matter</i> , 2015, 463, 48-53. | 1.3 | 8 |
| 5756 | The Biological Effects of Carbon Nanotubes in Plasma Membranes Damage, DNA Damage, and Mitochondrial Dysfunction. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 179-188. | 0.3 | 0 |
| 5757 | Well-ordered nanohybrids and nanoporous materials from gyroid block copolymer templates. <i>Chemical Society Reviews</i> , 2015, 44, 1974-2018. | 18.7 | 198 |
| 5758 | Computational study of interaction of alkali metals with C ₃ N nanotubes. <i>Journal of Molecular Modeling</i> , 2015, 21, 20. | 0.8 | 4 |
| 5759 | Nanomaterialâ€™Enabled Stretchable Conductors: Strategies, Materials and Devices. <i>Advanced Materials</i> , 2015, 27, 1480-1511. | 11.1 | 594 |
| 5760 | Synthesis and characterization of polycaprolactone-grafted carbon nanotubes via click reaction. <i>Composite Interfaces</i> , 2015, 22, 193-201. | 1.3 | 7 |
| 5761 | Dielectric properties of ultraviolet cured poly(dimethyl siloxane) sub-percolative composites containing percolative amounts of multi-walled carbon nanotubes. <i>RSC Advances</i> , 2015, 5, 12792-12799. | 1.7 | 40 |
| 5762 | Simple, effective fabrication of layered carbon nanotube/graphene hybrid field emitters by electrophoretic deposition. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, 011802. | 0.6 | 7 |
| 5763 | Stabilization and functionalization of singleâ€™walled carbon nanotubes with polyvinylpyrrolidone copolymers for applications in aqueous media. <i>Journal of Polymer Science Part A</i> , 2015, 53, 337-343. | 2.5 | 11 |
| 5764 | Carbon nanotubes part I: preparation of a novel and versatile drug-delivery vehicle. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 1071-1087. | 2.4 | 88 |
| 5765 | Elastomeric nanocomposite scaffolds made from poly(glycerol sebacate) chemically crosslinked with carbon nanotubes. <i>Biomaterials Science</i> , 2015, 3, 46-58. | 2.6 | 85 |
| 5766 | Highly dispersible surface-unzipped multi-walled carbon nanotubes as binder-free electrodes for supercapacitor applications. <i>Current Applied Physics</i> , 2015, 15, S21-S26. | 1.1 | 15 |
| 5767 | A first-principles study on three-dimensional covalently-bonded hexagonal boron nitride nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 075301. | 0.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5768 | Compressive and interlaminar shear properties of carbon/carbon composite laminates reinforced with carbon nanotube-grafted carbon fibers produced by injection chemical vapor deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 449-457. | 2.6 | 53 |
| 5769 | Recent progress in solar cells based on one-dimensional nanomaterials. <i>Energy and Environmental Science</i> , 2015, 8, 1139-1159. | 15.6 | 164 |
| 5770 | Properties of aligned poly(L-lactic acid) electrospun fibers. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 1.3 | 9 |
| 5771 | Removal of endocrine disrupting compounds, pharmaceuticals, and personal care products in water using carbon nanotubes: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 27, 1-11. | 2.9 | 235 |
| 5772 | Properties and Applications of Polymer Nanocomposite. , 2015, , 43-98. | | 3 |
| 5773 | The interaction between sugar-based surfactant with zigzag single-walled carbon nanotubes: insight from a computational study. <i>Liquid Crystals</i> , 2015, 42, 158-166. | 0.9 | 3 |
| 5774 | Highly efficient CNT functionalized cotton fabrics for flexible/wearable heating applications. <i>RSC Advances</i> , 2015, 5, 10697-10702. | 1.7 | 105 |
| 5775 | Temperature effect on the synthesis of carbon nanotubes and core-shell Ni nanoparticle by thermal CVD. <i>Diamond and Related Materials</i> , 2015, 52, 59-65. | 1.8 | 19 |
| 5776 | Influence of induced magnetic field and heat flux with the suspension of carbon nanotubes for the peristaltic flow in a permeable channel. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 381, 405-415. | 1.0 | 156 |
| 5778 | Facile synthesis of nitrogen-doped unzipped carbon nanotubes and their electrochemical properties. <i>RSC Advances</i> , 2015, 5, 8175-8181. | 1.7 | 21 |
| 5779 | A new approach to the synthesis of titania nano-powders enriched with very high contents of carbon nanotubes by electro-spinning. <i>Materials Chemistry and Physics</i> , 2015, 153, 338-345. | 2.0 | 13 |
| 5780 | Pretreatment with paeonol prevents the adverse effects and alters the translocation of multi-walled carbon nanotubes in nematode <i>Caenorhabditis elegans</i> . <i>RSC Advances</i> , 2015, 5, 8942-8951. | 1.7 | 30 |
| 5781 | Highly reduced graphene oxide supported Pt nanocomposites as highly efficient catalysts for methanol oxidation. <i>Chemical Communications</i> , 2015, 51, 2418-2420. | 2.2 | 37 |
| 5782 | Research on performance and preparation of graphene/epoxy high dielectric permittivity polymer composites. <i>High Performance Polymers</i> , 2015, 27, 911-917. | 0.8 | 8 |
| 5783 | Introducing magnetic-responsive CNT/Fe ₃ O ₄ composites to enhance the mechanical properties of sulfonated poly(arylene ether nitrile) proton-exchange membranes. <i>Journal of Polymer Research</i> , 2015, 22, 1. | 1.2 | 9 |
| 5784 | Synthesis, structural and field emission properties of multiwall carbon nanotube-graphene-like nanocarbon hybrid films grown by microwave plasma enhanced chemical vapor deposition. <i>Materials Chemistry and Physics</i> , 2015, 156, 38-46. | 2.0 | 19 |
| 5785 | Shear flow-induced orientation and structural recovery of multiwalled carbon nanotube in poly(ethylene oxide) matrix. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 1.3 | 11 |
| 5786 | Density functional theory for field emission from carbon nano-structures. <i>Ultramicroscopy</i> , 2015, 159, 162-172. | 0.8 | 21 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5787 | Carboxyl groups trigger the activity of carbon nanotube catalysts for the oxygen reduction reaction and agar conversion. <i>Nano Research</i> , 2015, 8, 502-511. | 5.8 | 19 |
| 5788 | Multi-walled carbon nanotube-coated cotton fabric for possible energy storage devices. <i>Bulletin of Materials Science</i> , 2015, 38, 169-172. | 0.8 | 17 |
| 5789 | Covalent Functionalization of Carbon Nanotubes with Xanthates and Peroxides. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1804-1810. | 1.2 | 7 |
| 5790 | Mechanical Properties and Defect Sensitivity of Diamond Nanothreads. <i>Nano Letters</i> , 2015, 15, 1585-1590. | 4.5 | 108 |
| 5791 | Serotonin sensor based on a glassy carbon electrode modified with multiwalled carbon nanotubes, chitosan and poly(p-aminobenzenesulfonate). <i>Mikrochimica Acta</i> , 2015, 182, 1323-1328. | 2.5 | 30 |
| 5792 | An ultrasensitive electrochemiluminescence sensor for detecting diphenhydramine hydrochloride based on l-cysteine-functionalized multiwalled carbon nanotubes/gold nanoparticles nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 5-11. | 4.0 | 26 |
| 5793 | Dynamics of Gold Nanoparticles on Carbon Nanostructures Driven by van der Waals and Electrostatic Interactions. <i>Small</i> , 2015, 11, 2756-2761. | 5.2 | 12 |
| 5794 | Preparation of hydrophobic and conductive cotton fabrics using multi-wall carbon nanotubes by the sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 14-21. | 1.1 | 22 |
| 5795 | Strong and Stiff Aramid Nanofiber/Carbon Nanotube Nanocomposites. <i>ACS Nano</i> , 2015, 9, 2489-2501. | 7.3 | 192 |
| 5796 | The influence of layered, spherical, and tubular carbon nanomaterials' concentration on the flame retardancy of polypropylene. <i>Polymer Composites</i> , 2015, 36, 1230-1241. | 2.3 | 69 |
| 5797 | Transient analysis of single-layered graphene sheet using the kp-Ritz method and nonlocal elasticity theory. <i>Applied Mathematics and Computation</i> , 2015, 258, 489-501. | 1.4 | 32 |
| 5798 | Responses of Microbial Communities to Single-Walled Carbon Nanotubes in Phenol Wastewater Treatment Systems. <i>Environmental Science & Technology</i> , 2015, 49, 4627-4635. | 4.6 | 81 |
| 5799 | Macroscopic Carbon Nanotube-based 3D Monoliths. <i>Small</i> , 2015, 11, 3263-3289. | 5.2 | 83 |
| 5800 | A Gridded High-Compression-Ratio Carbon Nanotube Cold Cathode Electron Gun. <i>IEEE Electron Device Letters</i> , 2015, 36, 399-401. | 2.2 | 30 |
| 5801 | Fabrication of flexible, transparent and conductive films from single-walled carbon nanotubes with high aspect ratio using poly((furfuryl methacrylate)-co-(2-(dimethylamino)ethyl methacrylate)) as a new polymeric dispersant. <i>Nanoscale</i> , 2015, 7, 6745-6753. | 2.8 | 25 |
| 5802 | Polydopamine-embedded Cu ₂ Se nanoparticles as a sensitive biosensing platform through the coupling of nanometal surface energy transfer and photo-induced electron transfer. <i>Analyst</i> , 2015, 140, 4121-4129. | 1.7 | 25 |
| 5803 | Controlled synthesis of V ₂ O ₅ /MWCNT core/shell hybrid aerogels through a mixed growth and self-assembly methodology for supercapacitors with high capacitance and ultralong cycle life. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15692-15699. | 5.2 | 82 |
| 5804 | Investigations of SP-AMS Carbon Ion Distributions as a Function of Refractory Black Carbon Particle Type. <i>Aerosol Science and Technology</i> , 2015, 49, 409-422. | 1.5 | 29 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5805 | Molecular-Level Engineering of Adhesion in Carbon Nanomaterial Interfaces. <i>Nano Letters</i> , 2015, 15, 4504-4516. | 4.5 | 25 |
| 5806 | Shape memory polymer-based self-healing composites. , 2015, , 293-363. | | 6 |
| 5807 | Aligned carbon nanotube/molybdenum disulfide hybrids for effective fibrous supercapacitors and lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17553-17557. | 5.2 | 103 |
| 5808 | Highly permeable artificial water channels that can self-assemble into two-dimensional arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9810-9815. | 3.3 | 152 |
| 5809 | Highly elastic and transparent multiwalled carbon nanotube/polydimethylsiloxane bilayer films as electric heating materials. <i>Materials and Design</i> , 2015, 86, 72-79. | 3.3 | 60 |
| 5810 | Interfacial improvement of carbon fiber-reinforced methylphenylsilicone resin composites with sizing agent containing functionalized carbon nanotubes. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 2295-2310. | 1.4 | 17 |
| 5811 | Graphene-based nanomaterials: biological and medical applications and toxicity. <i>Nanomedicine</i> , 2015, 10, 2423-2450. | 1.7 | 150 |
| 5812 | Covalent grafting of a-CNTs on copper phthalocyanine for the preparation of PEN nanocomposites with high dielectric constant and high thermal stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8922-8932. | 1.1 | 6 |
| 5813 | Influence of electrolessly silver-plated multi-walled carbon nanotubes on thermal conductivity of epoxy matrix nanocomposites. <i>Composites Part B: Engineering</i> , 2015, 80, 379-384. | 5.9 | 42 |
| 5814 | A numerical study on carbon nanotube pullout to understand its bridging effect in carbon nanotube reinforced composites. <i>Composites Part B: Engineering</i> , 2015, 81, 64-71. | 5.9 | 41 |
| 5815 | Electrochemical sensor based on Nbim/CNT composite for selective determination of luteolin in the flavonoids. <i>Journal of Electroanalytical Chemistry</i> , 2015, 754, 94-99. | 1.9 | 21 |
| 5816 | Probing the influence of the center atom coordination structure in iron phthalocyanine multi-walled carbon nanotube-based oxygen reduction reaction catalysts by X-ray absorption fine structure spectroscopy. <i>Journal of Power Sources</i> , 2015, 291, 20-28. | 4.0 | 46 |
| 5817 | Poly(ionic liquid)-carbon nanotubes self-supported, highly electroconductive composites and their application in electroactive devices. <i>Composites Science and Technology</i> , 2015, 117, 364-370. | 3.8 | 11 |
| 5818 | A novel single walled carbon nanotube (SWCNT) functionalization agent facilitating in vivo combined chemo/thermo therapy. <i>Nanoscale</i> , 2015, 7, 16204-16213. | 2.8 | 40 |
| 5819 | A Review on Polymeric Nanocomposites of Nanodiamond, Carbon Nanotube, and Nanobifiller: Structure, Preparation and Properties. <i>Polymer-Plastics Technology and Engineering</i> , 2015, 54, 1379-1409. | 1.9 | 55 |
| 5820 | Measuring Nanomaterial Release from Carbon Nanotube Composites: Review of the State of the Science. <i>Journal of Physics: Conference Series</i> , 2015, 617, 012026. | 0.3 | 50 |
| 5821 | Fabrication of multi-walled carbon nanotube thin films via electrophoretic deposition process: effect of water magnetization on deposition efficiency. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 495-502. | 1.1 | 5 |
| 5822 | Development of nanocomposite with epoxidized natural rubber and functionalized multiwalled carbon nanotubes for enhanced thermal conductivity and gas barrier property. <i>Materials and Design</i> , 2015, 83, 777-785. | 3.3 | 41 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 5823 | Investigation of thermodynamic and structural properties of drug delivery system based on carbon nanotubes as a carboplatin drug carrier by molecular dynamics simulations. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015, 83, 131-140. | 0.9 | 13 |
| 5824 | Electrochemical actuation of multiwall carbon nanotube fiber with embedded carbide-derived carbon particles. <i>Carbon</i> , 2015, 94, 911-918. | 5.4 | 23 |
| 5825 | Chemical Bath Deposition of Aluminum Oxide Buffer on Curved Surfaces for Growing Aligned Carbon Nanotube Arrays. <i>Langmuir</i> , 2015, 31, 7401-7409. | 1.6 | 9 |
| 5826 | The effect of polymer polarity on the microwave absorbing properties of MWNTs. <i>RSC Advances</i> , 2015, 5, 64925-64931. | 1.7 | 20 |
| 5827 | Molecular control of stress transmission in the microtubule cytoskeleton. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 3015-3024. | 1.9 | 21 |
| 5828 | Progress towards high-power Li/CF _x batteries: electrode architectures using carbon nanotubes with CF _x . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22504-22518. | 1.3 | 76 |
| 5829 | Binding energy and mechanical stability of two parallel and crossing carbon nanotubes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150229. | 1.0 | 12 |
| 5830 | Mussel inspired functionalization of carbon nanotubes for heavy metal ion removal. <i>RSC Advances</i> , 2015, 5, 68430-68438. | 1.7 | 58 |
| 5831 | Self-Assembled Multifunctional Hybrids: Toward Developing High-Performance Graphene-Based Architectures for Energy Storage Devices. <i>ACS Central Science</i> , 2015, 1, 206-216. | 5.3 | 60 |
| 5832 | Laser directed writing of flat lenses on buckypaper. <i>Nanoscale</i> , 2015, 7, 12405-12410. | 2.8 | 11 |
| 5833 | Formation of Carbon Nanotube Forest over Spin-coated Fe ₂ O ₃ Reduced Thin-film by Chemical Vapor Deposition. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 392-398. | 1.0 | 16 |
| 5834 | Drastic increase in catalyst productivity of nanoclay-supported CVD-grown carbon nanotubes by organo-modification. <i>Applied Clay Science</i> , 2015, 118, 248-257. | 2.6 | 9 |
| 5835 | Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene. <i>Chemical Reviews</i> , 2015, 115, 7046-7117. | 23.0 | 448 |
| 5836 | Organo functionalized graphene with Pd nanoparticles and its excellent catalytic activity for Suzuki coupling reaction. <i>Applied Catalysis A: General</i> , 2015, 505, 539-547. | 2.2 | 66 |
| 5837 | Nanocarbon electrode prepared from oppositely charged nanoparticles and nanotubes for low-potential thiocholine oxidation. <i>Electrochimica Acta</i> , 2015, 176, 249-254. | 2.6 | 7 |
| 5838 | Conductive and transparent films of oriented multi-walled carbon nanotubes by Langmuir-Schaefer method. <i>Thin Solid Films</i> , 2015, 589, 701-706. | 0.8 | 12 |
| 5839 | A simple synthesis of nitrogen-doped carbon micro- and nanotubes. <i>Chemical Communications</i> , 2015, 51, 13546-13549. | 2.2 | 26 |
| 5840 | Regenerated cellulose/multiwalled carbon nanotube composite films with efficient electric heating performance. <i>Carbohydrate Polymers</i> , 2015, 133, 456-463. | 5.1 | 49 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5841 | Control of the photoluminescence properties of single-walled carbon nanotubes by alkylation and subsequent thermal treatment. <i>Chemical Communications</i> , 2015, 51, 13462-13465. | 2.2 | 39 |
| 5842 | Fabrication and Performance of All-Solid-State Li-Air Battery with SWCNTs/LAGP Cathode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17307-17310. | 4.0 | 94 |
| 5843 | Relationships among the structural topology, bond strength, and mechanical properties of single-walled aluminosilicate nanotubes. <i>Nanoscale</i> , 2015, 7, 16222-16229. | 2.8 | 15 |
| 5844 | Stretch, wrap, and relax to smartness. <i>Science</i> , 2015, 349, 382-383. | 6.0 | 23 |
| 5845 | Carbon nanotubes decorated by mesoporous cobalt oxide as electrode material for lithium-ion batteries. <i>Chemical Physics Letters</i> , 2015, 635, 185-189. | 1.2 | 21 |
| 5846 | Bio-Inspired Aggregation Control of Carbon Nanotubes for Ultra-Strong Composites. <i>Scientific Reports</i> , 2015, 5, 11533. | 1.6 | 58 |
| 5847 | Raman, morphology and electrical behavior of nanocomposites based on PEO/PVDF with multi-walled carbon nanotubes. <i>Results in Physics</i> , 2015, 5, 105-110. | 2.0 | 115 |
| 5848 | Lightweight superhard carbon allotropes obtained by transversely compressing the smallest CNTs under high pressure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 2116-2119. | 0.9 | 13 |
| 5849 | Enhanced solubilization of large-diameter single-walled carbon nanotubes with amino-functionalized dipyrrene nanotweezers. <i>Journal of Materials Science</i> , 2015, 50, 6032-6040. | 1.7 | 9 |
| 5850 | A Shish-kebab superstructure in low-crystallinity elastomer nanocomposites: Morphology regulation and load-transfer. <i>Macromolecular Research</i> , 2015, 23, 537-544. | 1.0 | 11 |
| 5851 | Characterisation of carbon nanotube pastes for field emission using their sheet resistances. <i>Applied Surface Science</i> , 2015, 353, 54-62. | 3.1 | 2 |
| 5852 | Effect of functionalization of carbon nanotubes on mechanical and electrochemical behavior of polyaniline nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2015, 276, 416-423. | 2.2 | 51 |
| 5853 | On the loading mechanism of ssDNA into carbon nanotubes. <i>RSC Advances</i> , 2015, 5, 56896-56903. | 1.7 | 15 |
| 5854 | Theoretical investigations of sp ² -sp ² hybridized capped graphyne nanotubes. <i>Chemical Engineering Science</i> , 2015, 134, 217-221. | 1.9 | 16 |
| 5855 | Extraordinary mechanical properties of monatomic C ₃ N ₂ chain. <i>Molecular Simulation</i> , 2015, 41, 256-261. | 0.9 | 0 |
| 5856 | Investigation of the Effect of Reaction Time, Weight Ratio, and Type of Catalyst on the Yield of Multi-Wall Carbon Nanotubes via Chemical Vapor Deposition of Acetylene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 853-859. | 1.0 | 1 |
| 5857 | Effect of Carbon Nanotubes Purification on Electroanalytical Response of Near-Percolation Amperometric Nanocomposite Sensors. <i>Journal of the Electrochemical Society</i> , 2015, 162, B217-B224. | 1.3 | 12 |
| 5859 | Activated sludge microbial community responses to single-walled carbon nanotubes: community structure does matter. <i>Water Science and Technology</i> , 2015, 71, 1235-1240. | 1.2 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5860 | Adsorption of Lactate Dehydrogenase Enzyme on Carbon Nanotubes: How to Get Accurate Results for the Cytotoxicity of These Nanomaterials. <i>Langmuir</i> , 2015, 31, 3635-3643. | 1.6 | 25 |
| 5861 | Solution-Mediated Selective Nanosoldering of Carbon Nanotube Junctions for Improved Device Performance. <i>ACS Nano</i> , 2015, 9, 4806-4813. | 7.3 | 16 |
| 5862 | CHAPTER 1. The Search for Functional Porous Carbons from Sustainable Precursors. <i>RSC Green Chemistry</i> , 2015, , 3-49. | 0.0 | 5 |
| 5863 | The interface strength and debonding for composite structures: Review and recent developments. <i>Composite Structures</i> , 2015, 129, 8-26. | 3.1 | 32 |
| 5864 | Preparation of carbon nanotubes/waterborne polyurethane composites with the emulsion particles assisted dispersion of carbon nanotubes. <i>Composites Science and Technology</i> , 2015, 114, 50-56. | 3.8 | 33 |
| 5865 | Application of nanomaterials in the bioanalytical detection of disease-related genes. <i>Biosensors and Bioelectronics</i> , 2015, 74, 113-133. | 5.3 | 68 |
| 5866 | Thermal annealing of carbon nanotubes reveals a toxicological impact of the structural defects. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1. | 0.8 | 19 |
| 5867 | Sono-assisted Synthesis of MgAl-layered Double Hydroxide Nanosheet/multiwalled Carbon Nanotube Filler for the Fabricating of L-isoleucine Amino Acid Based Polymer Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2015, 54, 1439-1447. | 1.9 | 4 |
| 5868 | Modification of glassy carbon electrode with a bilayer of multiwalled carbon nanotube/tiron-doped polypyrrole: Application to sensitive voltammetric determination of acyclovir. <i>Materials Science and Engineering C</i> , 2015, 53, 134-141. | 3.8 | 51 |
| 5869 | Size-dependent free flexural vibrational behavior of functionally graded nanobeams using semi-analytical differential transform method. <i>Composites Part B: Engineering</i> , 2015, 79, 156-169. | 5.9 | 92 |
| 5870 | Visible-light-enhanced gas sensing of CdSxSe1-x nanoribbons for acetic acid at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2015, 215, 497-503. | 4.0 | 25 |
| 5871 | Novel highly scalable carbon nanotube-strengthened ceramics by high shear compaction and spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2599-2606. | 2.8 | 16 |
| 5872 | Thermophysical properties of Single Wall Carbon Nanotubes and its effect on exergy efficiency of a flat plate solar collector. <i>Solar Energy</i> , 2015, 115, 757-769. | 2.9 | 129 |
| 5873 | Carbon nanotubes and carbon nanofibers fabricated on tubular porous Al2O3 substrates. <i>Carbon</i> , 2015, 90, 25-33. | 5.4 | 34 |
| 5874 | Effect of microstructure and morphological properties of carbon nanotubes on the length reduction during melt processing. <i>Composites Science and Technology</i> , 2015, 112, 42-49. | 3.8 | 9 |
| 5875 | Resonance induced spin-selective transport behavior in carbon nanoribbon/nanotube/nanoribbon heterojunctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1722-1725. | 0.9 | 4 |
| 5876 | Mechanical and electrical properties of low SWNT content 3YTZP composites. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2351-2359. | 2.8 | 11 |
| 5877 | Effect of interaction between AC electric field and phonon oscillation of metal cluster on tip-growth of carbon nanotube. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 70, 225-230. | 1.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5878 | Nano-electrocatalyst materials for low temperature fuel cells: A review. Chinese Journal of Catalysis, 2015, 36, 458-472. | 6.9 | 58 |
| 5879 | Rational Design of Multiamphiphilic Polymer Compatibilizers: Versatile Solubility and Hybridization of Noncovalently Functionalized CNT Nanocomposites. ACS Applied Materials & Interfaces, 2015, 7, 9841-9850. | 4.0 | 35 |
| 5880 | Progress Towards Commercially Viable Li-ion Battery Cells. Advanced Energy Materials, 2015, 5, 1500118. | 10.2 | 355 |
| 5881 | Structural Recovery of High-Aspect-Ratio Nanoparticle/Polymer Nanocomposites in Simple Shear Flow. Journal of Macromolecular Science - Physics, 2015, 54, 549-561. | 0.4 | 3 |
| 5882 | Flexible resistive tensile load cells based on MWCNT/rubber composites. Pigment and Resin Technology, 2015, 44, 187-191. | 0.5 | 5 |
| 5883 | Controllable Fabrication of Flexible Multi-Walled Carbon Nanotubes/Reduced Graphene Oxide Hybrid Ultrathin Films. Applied Mechanics and Materials, 0, 748, 175-178. | 0.2 | 0 |
| 5884 | Synthesis of single-walled carbon nanotubes on graphene layers. Chemical Communications, 2015, 51, 8974-8977. | 2.2 | 16 |
| 5885 | Interactions of carbon nanotubes with the nitromethane-water mixture governing selective adsorption of energetic molecules from aqueous solution. Physical Chemistry Chemical Physics, 2015, 17, 6995-7001. | 1.3 | 11 |
| 5886 | Mesoporous carbon biomaterials. Science China Materials, 2015, 58, 241-257. | 3.5 | 54 |
| 5887 | Nickel and nickel oxide nanocrystals selectively grafting on multiwalled carbon nanotubes. Nano Convergence, 2015, 2, . | 6.3 | 6 |
| 5888 | Nondestructive covalent functionalization of carbon nanotubes by selective oxidation of the original defects with K ₂ FeO ₄ . Applied Surface Science, 2015, 346, 520-527. | 3.1 | 30 |
| 5889 | Optimization of Sonication Parameters for Homogeneous Surfactant-Assisted Dispersion of Multiwalled Carbon Nanotubes in Aqueous Solutions. Journal of Physical Chemistry C, 2015, 119, 7506-7516. | 1.5 | 77 |
| 5890 | MnFe ₂ O ₄ @CNT-N as novel electrochemical nanosensor for determination of caffeine, acetaminophen and ascorbic acid. Sensors and Actuators B: Chemical, 2015, 218, 128-136. | 4.0 | 83 |
| 5891 | Continuous-flow system and monitoring tools for the dielectrophoretic integration of nanowires in light sensor arrays. Nanotechnology, 2015, 26, 115502. | 1.3 | 3 |
| 5892 | Atomic oxygen exposure behaviors of CVD-grown carbon nanotube film and its polymer composite film. Composites Part A: Applied Science and Manufacturing, 2015, 71, 116-125. | 3.8 | 21 |
| 5893 | The effect of different surfactants/plasticizers on the electrical behavior of CNT nano-modified cement mortars. , 2015, , . | | 3 |
| 5894 | Pushing nanotubes to the limit. Nature Materials, 2015, 14, 563-563. | 13.3 | 2 |
| 5895 | Origins of Height Distribution within Carbon Nanotube Arrays. Journal of Nano Research, 2015, 32, 17-24. | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 5896 | Insights into carbon nanotube nucleation: Cap formation governed by catalyst interfacial step flow. <i>Scientific Reports</i> , 2014, 4, 6510. | 1.6 | 46 |
| 5897 | Temperature compensation in CNT-composite distributed strain sensors. , 2015, , . | | 4 |
| 5898 | Real-world carbon nanoparticle exposures induce brain and gonadal alterations in zebrafish (<i>Danio</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.7 | 52 |
| 5899 | Microwave-assisted in situ synthesis of reduced graphene oxide/Mn ₃ O ₄ composites for supercapacitor applications. <i>RSC Advances</i> , 2015, 5, 45061-45067. | 1.7 | 18 |
| 5900 | Impact of particle surface chemistry on the structure and rheological properties of graphene-based particle/polydimethylsiloxane composites. <i>RSC Advances</i> , 2015, 5, 34885-34893. | 1.7 | 7 |
| 5901 | Carbon nanomaterials for photovoltaic process. <i>Nano Energy</i> , 2015, 15, 490-522. | 8.2 | 47 |
| 5902 | Supercritical fluid extraction with carbon nanotubes as a solid collection trap for the analysis of polycyclic aromatic hydrocarbons and their derivatives. <i>Journal of Chromatography A</i> , 2015, 1395, 1-6. | 1.8 | 28 |
| 5903 | Electrodeposition of Various Au Nanostructures on Aligned Carbon Nanotubes as Highly Sensitive Nanoelectrode Ensembles. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2005-2015. | 1.2 | 3 |
| 5904 | Voltammetric techniques at chemically modified electrodes. <i>Journal of Analytical Chemistry</i> , 2015, 70, 399-418. | 0.4 | 45 |
| 5905 | Preparation of Nitrogen-Doped Carbon Nanotubes with Different Morphologies from Melamine-Formaldehyde Resin. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7413-7420. | 4.0 | 89 |
| 5906 | Radio frequency plasma mediated dry functionalization of multiwall carbon nanotube. <i>Applied Surface Science</i> , 2015, 340, 64-71. | 3.1 | 25 |
| 5907 | Carbon nanomaterial-based electrochemical biosensors: an overview. <i>Nanoscale</i> , 2015, 7, 6420-6431. | 2.8 | 329 |
| 5908 | Nanobiosensors and Nanobioanalyses. , 2015, , . | | 10 |
| 5910 | Anisotropic terahertz response of stretch-aligned composite films based on carbon nanotubeâ€SiC hybrid structures. <i>RSC Advances</i> , 2015, 5, 26985-26990. | 1.7 | 5 |
| 5911 | Sweet potato-derived carbon nanoparticles as anode for lithium ion battery. <i>RSC Advances</i> , 2015, 5, 40737-40741. | 1.7 | 70 |
| 5912 | Mechanical Behavior of Starchâ€Carbon Nanotubes Composites. , 2015, , 141-171. | | 4 |
| 5913 | Photo-nano immunotherapy for metastatic breast cancer using synergistic single-walled carbon nanotubes and glycyated chitosan. , 2015, , . | | 0 |
| 5914 | Synthesis of high-quality carbon nanotube fibers by controlling the effects of sulfur on the catalyst agglomeration during the direct spinning process. <i>RSC Advances</i> , 2015, 5, 41894-41900. | 1.7 | 67 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5915 | Epoxidation of Multi-Walled Carbon Nanotubes by Organocatalytic Oxidation. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 3063-3068. | 1.2 | 10 |
| 5916 | Effect of oxygen plasma treatment on the mechanical properties of carbon nanotube fibers. <i>Materials Letters</i> , 2015, 156, 17-20. | 1.3 | 42 |
| 5917 | Preferential magnetic targeting of carbon nanotubes to cancer sites: noninvasive tracking using MRI in a murine breast cancer model. <i>Nanomedicine</i> , 2015, 10, 931-948. | 1.7 | 42 |
| 5918 | A novel processing route for carbon nanotube reinforced glass-ceramic matrix composites. , 2015, , . | | 1 |
| 5919 | Selective loss of younger erythrocytes from blood circulation and changes in erythropoietic patterns in bone marrow and spleen in mouse anemia induced by poly-dispersed single-walled carbon nanotubes. <i>Nanotoxicology</i> , 2015, 9, 1032-1040. | 1.6 | 21 |
| 5920 | Impact of Sublethal Levels of Single-Wall Carbon Nanotubes on Pyoverdine Production in <i>Pseudomonas aeruginosa</i> and Its Environmental Implications. <i>Environmental Science and Technology Letters</i> , 2015, 2, 105-111. | 3.9 | 19 |
| 5921 | Enhancing the Efficiency of Electron Conduction in Spray-Coated Anode of Photoelectrochemical Cell Using Oxygenated Multi-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9085-9091. | 1.5 | 5 |
| 5922 | Advances in the Organometallic Chemistry of Carbon Nanomaterials. <i>Organometallics</i> , 2015, 34, 2086-2097. | 1.1 | 20 |
| 5923 | Reversible Electrochemical Actuation of Metallic Nanohoneycombs Induced by Pseudocapacitive Redox Processes. <i>ACS Nano</i> , 2015, 9, 3984-3995. | 7.3 | 43 |
| 5924 | Interactions of Microorganisms with Polymer Nanocomposite Surfaces Containing Oxidized Carbon Nanotubes. <i>Environmental Science & Technology</i> , 2015, 49, 5484-5492. | 4.6 | 31 |
| 5925 | Highly Ordered Mesoporous Few-Layer Graphene Frameworks Enabled by Fe ₃ O ₄ Nanocrystal Superlattices. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5727-5731. | 7.2 | 95 |
| 5926 | Monodisperse carbon microspheres derived from potato starch for asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2015, 167, 303-310. | 2.6 | 69 |
| 5927 | Nonlocal continuum model for vibration of single-layered graphene sheets based on the element-free kp-Ritz method. <i>Engineering Analysis With Boundary Elements</i> , 2015, 56, 90-97. | 2.0 | 48 |
| 5928 | Application of the differential transformation method for nonlocal vibration analysis of functionally graded nanobeams. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 1207-1215. | 0.7 | 87 |
| 5929 | Novel electrical conductive hybrid nanostructures based on PA/MWCNT-COOH electrospun nanofibers and anchored MWCNT-COOH. <i>Polymer Engineering and Science</i> , 2015, 55, 1263-1272. | 1.5 | 8 |
| 5930 | Carbon-Based Sorbents with Three-Dimensional Architectures for Water Remediation. <i>Small</i> , 2015, 11, 3319-3336. | 5.2 | 166 |
| 5931 | Enhancement of the tensile strength in poly(p-phenylene sulfide) and multi-walled carbon nanotube nanocomposites by hot-stretching. <i>Journal of Materials Science</i> , 2015, 50, 3622-3630. | 1.7 | 11 |
| 5932 | H-Bonded Supramolecular Polymer for the Selective Dispersion and Subsequent Release of Large-Diameter Semiconducting Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2015, 137, 4328-4331. | 6.6 | 111 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5933 | Core-shell structure carbon coated ferric oxide (Fe ₂ O ₃ @C) nanoparticles for supercapacitors with superior electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2015, 639, 422-427. | 2.8 | 29 |
| 5934 | Fatigue failure and electrical resistance behaviors of carbon nanotube-based polymer composites under uniaxial tension loading in a cryogenic environment. <i>Journal of Composite Materials</i> , 2015, 49, 457-463. | 1.2 | 9 |
| 5935 | Influence of Pyridine-Polybenzimidazole Film Thickness of Carbon Nanotube Supported Platinum on Fuel Cell Applications. <i>Fuel Cells</i> , 2015, 15, 361-374. | 1.5 | 5 |
| 5936 | Electrically Conductive Polypropylene Nanocomposites with Negative Permittivity at Low Carbon Nanotube Loading Levels. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6125-6138. | 4.0 | 153 |
| 5937 | Natural frequency analysis of functionally graded rectangular nanoplates with different boundary conditions via an analytical method. <i>Meccanica</i> , 2015, 50, 2391-2408. | 1.2 | 33 |
| 5938 | Noble metals supported on carbon nanotubes using supercritical fluids for the preparation of composite materials: A look at the interface. <i>Journal of Supercritical Fluids</i> , 2015, 101, 110-116. | 1.6 | 22 |
| 5939 | π-Conjugated bis(terpyridine)metal complex molecular wires. <i>Chemical Society Reviews</i> , 2015, 44, 7698-7714. | 18.7 | 133 |
| 5940 | Negative thermal expansion in functional materials: controllable thermal expansion by chemical modifications. <i>Chemical Society Reviews</i> , 2015, 44, 3522-3567. | 18.7 | 527 |
| 5943 | Synergistic effect of a r-GO/PANI nanocomposite electrode based air working ionic actuator with a large actuation stroke and long-term durability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8380-8388. | 5.2 | 56 |
| 5945 | Chemical-free graphene by unzipping carbon nanotubes using cryo-milling. <i>Carbon</i> , 2015, 89, 217-224. | 5.4 | 34 |
| 5946 | Electrically and Magnetically Biased Graphene-Based Cylindrical Waveguides: Analysis and Applications as Reconfigurable Antennas. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 951-960. | 2.0 | 84 |
| 5947 | Three-dimensional imaging and quantitative analysis of dispersion and mechanical failure in filled nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 79, 23-29. | 3.8 | 16 |
| 5948 | Improvement of electrical properties of through silicon vias metal interconnector by adding single-walled nanotubes. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 06FF12. | 0.8 | 1 |
| 5949 | Ammonia borane in an external electric field: structure, charge transfer, and chemical bonding. <i>RSC Advances</i> , 2015, 5, 65991-65997. | 1.7 | 11 |
| 5950 | Carbon nanotubes-gold nanohybrid as potent electrocatalyst for oxygen reduction in alkaline media. <i>Nanoscale</i> , 2015, 7, 17274-17277. | 2.8 | 22 |
| 5951 | Fabrication and application of carbon nanotubes/cellulose composite paper. <i>Vacuum</i> , 2015, 122, 135-142. | 1.6 | 53 |
| 5952 | Enhanced field emission of plasma treated multilayer graphene. <i>Applied Physics Letters</i> , 2015, 107, . | 1.5 | 58 |
| 5953 | Scalable fabrication of carbon-based MEMS/NEMS and their applications: a review. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 113001. | 1.5 | 31 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 5954 | CoPt/CeO ₂ catalysts for the growth of narrow diameter semiconducting single-walled carbon nanotubes. <i>Nanoscale</i> , 2015, 7, 19699-19704. | 2.8 | 7 |
| 5955 | Bimodal Latex Effect on Spin-Coated Thin Conductive Polymer Single-Walled Carbon Nanotube Layers. <i>Langmuir</i> , 2015, 31, 11982-11988. | 1.6 | 11 |
| 5956 | Anomalous Stretchable Conductivity Using an Engineered Tricot Weave. <i>ACS Nano</i> , 2015, 9, 12214-12223. | 7.3 | 35 |
| 5957 | Curly graphene nanosheets modified by nanoneedle-like manganese oxide for electrochemical capacitors. <i>RSC Advances</i> , 2015, 5, 88950-88957. | 1.7 | 5 |
| 5958 | Influence of phase coarsening and filler agglomeration on electrical and rheological properties of MWNTs-filled PP/PMMA composites under annealing. <i>Polymer</i> , 2015, 79, 159-170. | 1.8 | 30 |
| 5959 | Deagglomeration of multi-walled carbon nanotubes via an organic modifier: structure and mechanism. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25365-25378. | 1.3 | 14 |
| 5960 | Size reduction of 3D-polymer-coated single-walled carbon nanotubes by ultracentrifugation. <i>Nanoscale</i> , 2015, 7, 19534-19539. | 2.8 | 8 |
| 5961 | Key roles of carbon solubility in single-walled carbon nanotube nucleation and growth. <i>Nanoscale</i> , 2015, 7, 20284-20289. | 2.8 | 27 |
| 5962 | Carbon nanotubes enhanced cellulose nanocrystals films with tailorable electrical conductivity. <i>Composites Science and Technology</i> , 2015, 120, 1-8. | 3.8 | 29 |
| 5963 | Below-gap excitation of semiconducting single-wall carbon nanotubes. <i>Nanoscale</i> , 2015, 7, 18337-18342. | 2.8 | 5 |
| 5964 | Synthesis and formation mechanism of 1D hollow SiO ₂ nanomaterials using in situ formed 1D NaCl crystal templates. <i>RSC Advances</i> , 2015, 5, 92004-92007. | 1.7 | 2 |
| 5965 | In Situ Fabrication of Nano Transistors by Selective Deposition of a Gate Dielectric around Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24094-24102. | 4.0 | 5 |
| 5966 | Synthesis of 1D-glyconanomaterials by a hybrid noncovalent-covalent functionalization of single wall carbon nanotubes: a study of their selective interactions with lectins and with live cells. <i>Nanoscale</i> , 2015, 7, 19259-19272. | 2.8 | 16 |
| 5967 | Why do the structural properties of complexes formed by glucans and carbon nanotubes differ so much?. <i>RSC Advances</i> , 2015, 5, 95682-95689. | 1.7 | 4 |
| 5968 | Peptide self-assembly for nanomaterials: the old new kid on the block. <i>Chemical Society Reviews</i> , 2015, 44, 8288-8300. | 18.7 | 212 |
| 5969 | Economic analysis of CNT lithium-ion battery manufacturing. <i>Environmental Science: Nano</i> , 2015, 2, 463-476. | 2.2 | 12 |
| 5970 | Self-organisation processes in the carbon arc for nanosynthesis. <i>Journal of Applied Physics</i> , 2015, 117, . | 1.1 | 26 |
| 5971 | Influence of the Processing Route on the Carbon Nanotubes Dispersion and Creep Resistance of 3 _{YTZP} /SWCNT _s Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2015, 98, 645-653. | 1.9 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5972 | Stretchable and transparent electrodes based on in-plane structures. <i>Nanoscale</i> , 2015, 7, 14577-14594. | 2.8 | 86 |
| 5973 | MWCNT/perylene bisimide water dispersions for miniaturized temperature sensors. <i>RSC Advances</i> , 2015, 5, 65023-65029. | 1.7 | 13 |
| 5974 | Parallel Arrays of Sub-10 nm Aligned Germanium Nanofins from an In Situ Metal Oxide Hardmask using Directed Self-Assembly of Block Copolymers. <i>Chemistry of Materials</i> , 2015, 27, 6091-6096. | 3.2 | 23 |
| 5975 | Aerosol Emission Monitoring and Assessment of Potential Exposure to Multi-walled Carbon Nanotubes in the Manufacture of Polymer Nanocomposites. <i>Annals of Occupational Hygiene</i> , 2015, 59, 1135-1151. | 1.9 | 16 |
| 5976 | Hydrogen trapping potential of (HF) _m (m=1-8) and (H ₂ O) _n (n=1-10) clusters. <i>Computational and Theoretical Chemistry</i> , 2015, 1071, 18-26. | 1.1 | 8 |
| 5977 | Ambient effects on the electrical conductivity of carbon nanotubes. <i>Carbon</i> , 2015, 95, 347-353. | 5.4 | 27 |
| 5978 | Poly(p-phenylene terephthalamide)/carbon nanotube composite membrane: Preparation via polyanion solution method and mechanical property enhancement. <i>Composites Science and Technology</i> , 2015, 118, 135-140. | 3.8 | 15 |
| 5979 | One-step synthesis of fluorescently labelled, single-walled carbon nanotubes. <i>Chemical Communications</i> , 2015, 51, 17233-17236. | 2.2 | 2 |
| 5980 | CNT suspended CuO+H ₂ O nano fluid and energy analysis for the peristaltic flow in a permeable channel. <i>AEJ - Alexandria Engineering Journal</i> , 2015, 54, 623-633. | 3.4 | 14 |
| 5981 | Review-Advanced Carbon-Supported Organic Electrode Materials for Lithium (Sodium)-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2393-A2405. | 1.3 | 114 |
| 5982 | A real-time documentation and mechanistic investigation of quantum dots-induced autophagy in live <i>Caenorhabditis elegans</i> . <i>Biomaterials</i> , 2015, 72, 38-48. | 5.7 | 30 |
| 5983 | Synthesis, characterization and field emission properties of tin oxide nanowires. <i>Materials Chemistry and Physics</i> , 2015, 166, 26-30. | 2.0 | 5 |
| 5984 | Synthesis of aspartic acid-treated multi-walled carbon nanotubes based water coolant and experimental investigation of thermal and hydrodynamic properties in circular tube. <i>Energy Conversion and Management</i> , 2015, 105, 1366-1376. | 4.4 | 59 |
| 5985 | Spectral analysis of lamellae evolution and constraining effects aided by nano-carbons: A coupled experimental and simulation study. <i>Polymer</i> , 2015, 75, 187-198. | 1.8 | 12 |
| 5986 | Highly Selective Electrochemical Determination of Taxol Based on ds-DNA-Modified Pencil Electrode. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 344-358. | 1.4 | 7 |
| 5987 | Therapeutic and safety considerations of nanoparticle-mediated drug delivery in pregnancy. <i>Nanomedicine</i> , 2015, 10, 2229-2247. | 1.7 | 85 |
| 5988 | Heteroaggregation of multiwalled carbon nanotubes with sediments. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2015, 4, 42-50. | 1.7 | 17 |
| 5989 | Analysis of structural and optical properties of annealed fullerene thin films. <i>European Physical Journal D</i> , 2015, 69, 1. | 0.6 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 5990 | Block-assembling: a new strategy for fabricating conductive nanoporous materials from nanocomposites based on a melt-miscible crystalline/crystalline blend and MWCNTs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8510-8518. | 2.7 | 7 |
| 5991 | Influence of hyperbranched copper phthalocyanine grafted carbon nanotubes on the dielectric and rheological properties of polyarylene ether nitriles. <i>RSC Advances</i> , 2015, 5, 72028-72036. | 1.7 | 19 |
| 5992 | Antimicrobial photodynamic inactivation in nanomedicine: small light strides against bad bugs. <i>Nanomedicine</i> , 2015, 10, 2379-2404. | 1.7 | 148 |
| 5993 | Synthesis of CNT@Fe ₃ O ₄ -C hybrid nanocables as anode materials with enhanced electrochemical performance for lithium ion batteries. <i>Electrochimica Acta</i> , 2015, 176, 1332-1337. | 2.6 | 61 |
| 5994 | Rational design of nanomaterials for water treatment. <i>Nanoscale</i> , 2015, 7, 17167-17194. | 2.8 | 176 |
| 5995 | Synthesis of carrageenan/multi-walled carbon nanotube hybrid hydrogel nanocomposite for adsorption of crystal violet from aqueous solution. <i>Polish Journal of Chemical Technology</i> , 2015, 17, 70-76. | 0.3 | 32 |
| 5996 | Nanofurry magnetic carbon microspheres for separation processes and catalysis: synthesis, phase composition, and properties. <i>Journal of Materials Science</i> , 2015, 50, 7353-7363. | 1.7 | 15 |
| 5997 | Liquid Crystalline Polymers. , 2015, , . | | 12 |
| 5998 | Evaluation and modelling of electrically conductive polymer nanocomposites with carbon nanotube networks. <i>Composites Part B: Engineering</i> , 2015, 83, 184-193. | 5.9 | 44 |
| 5999 | Measurement of transport properties of aerosolized nanomaterials. <i>Journal of Aerosol Science</i> , 2015, 90, 169-181. | 1.8 | 9 |
| 6000 | Pt-nanoparticle functionalized carbon nano-onions for ultra-high energy supercapacitors and enhanced field emission behaviour. <i>RSC Advances</i> , 2015, 5, 80990-80997. | 1.7 | 52 |
| 6001 | Detailed study on interfacial interactions in epoxy composites cured with 1-butylimidazole containing functionalized carbon nanotubes. <i>Composite Interfaces</i> , 2015, 22, 629-649. | 1.3 | 8 |
| 6002 | Polyacrylonitrile-based electrospun fibers. , 2015, , . | | 1 |
| 6003 | Highly reproducible, hysteresis-free, flexible strain sensors by inkjet printing of carbon nanotubes. <i>Carbon</i> , 2015, 95, 1020-1026. | 5.4 | 103 |
| 6004 | Bistable electrical switching and nonvolatile memory effect based on the thin films of polyurethane-carbon nanotubes blends. <i>Sensors and Actuators A: Physical</i> , 2015, 234, 282-289. | 2.0 | 12 |
| 6005 | Towards nanoprinting with metals on graphene. <i>Nature Communications</i> , 2015, 6, 8071. | 5.8 | 11 |
| 6006 | The peculiar electrical response of liquid crystal-carbon nanotube systems as seen by impedance spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 375302. | 1.3 | 14 |
| 6007 | Improving the extraction of characteristic field enhancement factors from nonlinear Fowler-Nordheim plots: Call for experimental tests. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, 052201. | 0.6 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6008 | In situ preparation of reinforced polyimide nanocomposites with the noncovalently dispersed and matrix compatible MWCNTs. Composites Part A: Applied Science and Manufacturing, 2015, 78, 341-349. | 3.8 | 15 |
| 6009 | Protein functionalized carbon nanomaterials for biomedical applications. Carbon, 2015, 95, 767-779. | 5.4 | 186 |
| 6010 | Increasing the performance of dielectric elastomer actuators: A review from the materials perspective. Progress in Polymer Science, 2015, 51, 188-211. | 11.8 | 369 |
| 6011 | Graphoepitaxial effect in the guided growth of SWNT arrays on quartz. Journal of Materials Chemistry C, 2015, 3, 9678-9683. | 2.7 | 4 |
| 6012 | Microstructure and impedance spectroscopy of 3YTZP/SWNT ceramic nanocomposites. Ceramics International, 2015, 41, 12861-12868. | 2.3 | 10 |
| 6013 | Ionic liquid polymer functionalized carbon nanotubes-coated polyaniline for the solid-phase microextraction of benzene derivatives. RSC Advances, 2015, 5, 99483-99490. | 1.7 | 20 |
| 6014 | In situ Raman monitoring of single-walled carbon nanotube filling with copper chloride. Journal of Nanophotonics, 2015, 10, 012516. | 0.4 | 1 |
| 6015 | Effects of Growth Parameters on the Morphology of CNTs/Cu Composite Powder Prepared Using Cr/Cu Catalyst by Chemical Vapor Deposition. Rare Metal Materials and Engineering, 2015, 44, 1832-1837. | 0.8 | 6 |
| 6016 | Enhanced dielectric properties in polyvinyl alcohol " Multiwall carbon nanotube composites. Materials Chemistry and Physics, 2015, 167, 286-294. | 2.0 | 41 |
| 6017 | Flexible field emission devices based on BaO nanowires. , 2015, , . | | 0 |
| 6018 | Methods and strategies for the synthesis of diverse nanoparticles and their applications: a comprehensive overview. RSC Advances, 2015, 5, 105003-105037. | 1.7 | 519 |
| 6019 | Stabilization and dispersion of carbon nanomaterials in aqueous solutions: A review. Separation and Purification Technology, 2015, 156, 861-874. | 3.9 | 70 |
| 6020 | Tensile strain sensing of buckypaper and buckypaper composites. Materials and Design, 2015, 88, 414-419. | 3.3 | 32 |
| 6021 | Super-capacitive behavior of carbon nano tube doped 11-(4-cyanobiphenyl-4-oxy) undecan-1-ol. Journal of Molecular Liquids, 2015, 211, 442-447. | 2.3 | 11 |
| 6022 | Recent Progress on the Chemical Reactions of Single-Walled Carbon Nanotubes. , 2015, , 177-197. | | 1 |
| 6023 | Direct growth of CNTs on in situ formed siliceous micro-flakes just by one-step pyrolyzation of polypropylene blends. Journal of Materials Science, 2015, 50, 1309-1316. | 1.7 | 6 |
| 6024 | Effect of natural and synthetic surface coatings on the toxicity of multiwalled carbon nanotubes toward green algae. Carbon, 2015, 83, 198-207. | 5.4 | 70 |
| 6025 | Preparation, characterization and properties of polycaprolactone diol-functionalized multi-walled carbon nanotube/thermoplastic polyurethane composite. Composites Part A: Applied Science and Manufacturing, 2015, 70, 8-15. | 3.8 | 47 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6026 | Short-Term Response of Soil Enzyme Activity and Soil Respiration to Repeated Carbon Nanotubes Exposure. <i>Soil and Sediment Contamination</i> , 2015, 24, 250-261. | 1.1 | 22 |
| 6027 | The Chemical Electronic Properties of PNP Molecular Transistor Based on (4,3) Chiral Carbon Nanotube. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 218-232. | 1.0 | 1 |
| 6028 | Manganese oxide nanoflakes/multi-walled carbon nanotubes/chitosan nanocomposite modified glassy carbon electrode as a novel electrochemical sensor for chromium (III) detection. <i>Electrochimica Acta</i> , 2015, 156, 207-215. | 2.6 | 76 |
| 6029 | Handbook of Polymer Nanocomposites. Processing, Performance and Application. , 2015, , . | | 61 |
| 6030 | Theoretical investigations on Zundel cation present inside boron-nitride nanotubes: Effect of confinement and hydrogen bonding. <i>Chemical Physics</i> , 2015, 446, 127-133. | 0.9 | 8 |
| 6031 | Binder-free, high-performance carbon nanotube line emitters fabricated using mechanical clamping process. <i>Journal of Alloys and Compounds</i> , 2015, 626, 287-291. | 2.8 | 4 |
| 6032 | Easy Preparation of Self-Assembled High-Density Buckypaper with Enhanced Mechanical Properties. <i>Nano Letters</i> , 2015, 15, 190-197. | 4.5 | 69 |
| 6033 | Highly loaded well dispersed stable Ni species in NiXMg2AlOY nanocomposites: Application to hydrogen production from bioethanol. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 485-496. | 10.8 | 29 |
| 6034 | Effect of carbon nanoparticle type, content, and stress on piezoresistive polyethylene nanocomposites. <i>Polymer Engineering and Science</i> , 2015, 55, 1643-1651. | 1.5 | 9 |
| 6035 | Understanding the Stabilization of Single-Walled Carbon Nanotubes and Graphene in Ionic Surfactant Aqueous Solutions: Large-Scale Coarse-Grained Molecular Dynamics Simulation-Assisted DLVO Theory. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1047-1060. | 1.5 | 50 |
| 6036 | The Lithium/Air Battery: Still an Emerging System or a Practical Reality?. <i>Advanced Materials</i> , 2015, 27, 784-800. | 11.1 | 543 |
| 6037 | Forced vibration of two coupled carbon nanotubes conveying lagged moving nano-particles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 68, 72-80. | 1.3 | 16 |
| 6038 | Rotation, elongation and failure of CNT nanoropes induced by electric field. <i>Computational Materials Science</i> , 2015, 98, 333-339. | 1.4 | 2 |
| 6039 | Highly aligned arrays of super resilient carbon nanotubes by steam purification. <i>Carbon</i> , 2015, 84, 130-137. | 5.4 | 31 |
| 6040 | Nonlinear vibration of double layered viscoelastic nanoplates based on nonlocal theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 67, 65-76. | 1.3 | 77 |
| 6041 | Recent advances in carbon nanodots: synthesis, properties and biomedical applications. <i>Nanoscale</i> , 2015, 7, 1586-1595. | 2.8 | 420 |
| 6042 | Porous reduced graphene oxide wrapped carbon nanotube@manganese dioxide nanocables with enhanced electrochemical capacitive performance. <i>RSC Advances</i> , 2015, 5, 6136-6141. | 1.7 | 9 |
| 6043 | Personal Thermal Management by Metallic Nanowire-Coated Textile. <i>Nano Letters</i> , 2015, 15, 365-371. | 4.5 | 415 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6044 | Microwave-Assisted Functionalization of Carboxylated Multi-walled Carbon Nanotubes with Isatin Derivatives. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 332-338. | 1.0 | 1 |
| 6045 | Engineered carbon nanotube field emission devices. , 2015, , 125-186. | | 15 |
| 6046 | Multiwall Carbon Nanotubes Directly Promote Fibroblast-Myofibroblast and Epithelial-Mesenchymal Transitions through the Activation of the TGF- β /Smad Signaling Pathway. <i>Small</i> , 2015, 11, 446-455. | 5.2 | 62 |
| 6047 | Molecular Modeling and Multiscaling Issues for Electronic Material Applications. , 2015, , . | | 5 |
| 6048 | From a historic review to horizons beyond: lithium-sulphur batteries run on the wheels. <i>Chemical Communications</i> , 2015, 51, 18-33. | 2.2 | 170 |
| 6049 | Photophysical properties and applications of coordination complexes incorporating pyrene. <i>Coordination Chemistry Reviews</i> , 2015, 282-283, 139-149. | 9.5 | 79 |
| 6050 | Controlling exfoliation in order to minimize damage during dispersion of long SWCNTs for advanced composites. <i>Scientific Reports</i> , 2014, 4, 3907. | 1.6 | 68 |
| 6051 | Immunosensor based on carbon nanotube/manganese dioxide electrochemical tags. <i>Analytica Chimica Acta</i> , 2015, 853, 228-233. | 2.6 | 37 |
| 6052 | Thermal Effect on Vibration Characteristics of Armchair and Zigzag Single-Walled Carbon Nanotubes Using Nonlocal Parabolic Beam Theory. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 266-272. | 1.0 | 29 |
| 6053 | Mechanically Robust BiSbTe Alloys with Superior Thermoelectric Performance: A Case Study of Stable Hierarchical Nanostructured Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2015, 5, 1401391. | 10.2 | 304 |
| 6054 | Tunable scattering from liquid crystal devices using carbon nanotubes network electrodes. <i>Nanoscale</i> , 2015, 7, 330-336. | 2.8 | 18 |
| 6055 | Nanoimprint technology for patterning functional materials and its applications. <i>Microelectronic Engineering</i> , 2015, 132, 98-119. | 1.1 | 65 |
| 6056 | Graphene and carbon nanotube (CNT) in MEMS/NEMS applications. <i>Microelectronic Engineering</i> , 2015, 132, 192-206. | 1.1 | 191 |
| 6057 | Adsorption of Glucose Molecule onto Platinum-Decorated Single-Walled Carbon Nanotubes: A Dispersion-Corrected DFT Simulation. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 273-282. | 1.0 | 8 |
| 6058 | Carbon Nanomaterial-Phosphomolybdate Composites for Oxidative Electrocatalysis. <i>ChemElectroChem</i> , 2015, 2, 269-279. | 1.7 | 54 |
| 6059 | Effect of type and aspect ratio of different carbon nanotubes on cure behavior of epoxy-based nanocomposites. <i>Iranian Polymer Journal (English Edition)</i> , 2015, 24, 1-12. | 1.3 | 37 |
| 6060 | Synthesis, characterization, and description of influences on the stabilizing activity of antioxidant-functionalized multi-walled carbon nanotubes. <i>Carbon</i> , 2015, 81, 305-313. | 5.4 | 16 |
| 6061 | Radial AlN nanotips on carbon fibers as flexible electron emitters. <i>Carbon</i> , 2015, 81, 124-131. | 5.4 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6062 | Electrochemical and photo-electrochemical properties of carbon spheres prepared via chemical vapor deposition. <i>Materials Science in Semiconductor Processing</i> , 2015, 30, 456-461. | 1.9 | 21 |
| 6063 | Enhanced negative dielectric anisotropy and high electrical conductivity of the SWCNT doped nematic liquid crystalline material. <i>Journal of Molecular Liquids</i> , 2015, 204, 21-26. | 2.3 | 27 |
| 6064 | Enhanced torsional stability of carbon nanotubes with tensile pre-strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 66, 263-267. | 1.3 | 1 |
| 6065 | Mono-dispersed ultra-long single-walled carbon nanotubes as enabling components in transparent and electrically conductive thin films. <i>Carbon</i> , 2015, 82, 152-160. | 5.4 | 24 |
| 6066 | Affecting the morphology of silver deposition on carbon nanotube surface: From nanoparticles to dendritic (tree-like) nanostructures. <i>Materials Science and Engineering C</i> , 2015, 46, 232-238. | 3.8 | 4 |
| 6067 | Binding of nucleobases with graphene and carbon nanotube: a review of computational studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 1567-1597. | 2.0 | 34 |
| 6068 | A high power density miniaturized microbial fuel cell having carbon nanotube anodes. <i>Journal of Power Sources</i> , 2015, 273, 823-830. | 4.0 | 112 |
| 6069 | Large-Scale Horizontally Aligned ZnO Microrod Arrays with Controlled Orientation, Periodic Distribution as Building Blocks for Chip-in Piezo-Phototronic LEDs. <i>Small</i> , 2015, 11, 438-445. | 5.2 | 29 |
| 6070 | Highly-ordered perpendicularly immobilized FWCNTs on the thionine monolayer-modified electrode for hydrogen peroxide and glucose sensors. <i>Biosensors and Bioelectronics</i> , 2015, 64, 477-484. | 5.3 | 34 |
| 6071 | A Review of the Application of CNTs in PEM Fuel Cells. <i>International Journal of Green Energy</i> , 2015, 12, 787-809. | 2.1 | 36 |
| 6072 | Carbon Nanotube Reinforced Titanium Metal Matrix Composites Prepared by Powder Metallurgy—A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2015, 40, 38-55. | 6.8 | 137 |
| 6073 | Morphology-controllable fabrication and enhanced field emission of multilayer graphene—silicon nanowire composites. <i>Materials Letters</i> , 2015, 138, 175-178. | 1.3 | 12 |
| 6074 | Microstructural characterization of MWCNTs/magnesium alloy composites fabricated by powder compact laser sintering. <i>Journal of Alloys and Compounds</i> , 2015, 620, 80-86. | 2.8 | 21 |
| 6075 | MWCNTs decorated Mn _{0.8} Zn _{0.2} Fe ₂ O ₄ : Synthesis, characterization and compositional effect on the structural and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 230-237. | 1.0 | 11 |
| 6076 | Preparation of carbon microspheres decorated with silver nanoparticles and their ability to remove dyes from aqueous solution. <i>Journal of Hazardous Materials</i> , 2015, 283, 193-201. | 6.5 | 62 |
| 6077 | Carbon nanotube-based lateral flow biosensor for sensitive and rapid detection of DNA sequence. <i>Biosensors and Bioelectronics</i> , 2015, 64, 367-372. | 5.3 | 120 |
| 6078 | Mechanical properties of defective carbon nanotube/polyethylene nanocomposites: A molecular dynamics simulation study. <i>Polymer Composites</i> , 2016, 37, 305-314. | 2.3 | 20 |
| 6081 | Reorientation of single-wall carbon nanotubes in negative anisotropy liquid crystals by an electric field. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 825-833. | 1.5 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6082 | Biosynthesis of Bacterial Cellulose/Carboxylic Multi-Walled Carbon Nanotubes for Enzymatic Biofuel Cell Application. <i>Materials</i> , 2016, 9, 183. | 1.3 | 31 |
| 6083 | Impact of single-walled carbon nanotubes on the embryo: a brief review. <i>International Journal of Nanomedicine</i> , 2016, 11, 349. | 3.3 | 15 |
| 6084 | Development of a Multiscale Strategy and Application to Chemical Vapor Deposition. <i>Computer Aided Chemical Engineering</i> , 2016, 39, 95-123. | 0.3 | 5 |
| 6086 | Thermal Transport Properties of Dry Spun Carbon Nanotube Sheets. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8. | 1.5 | 12 |
| 6087 | Reinforcement of Multiwalled Carbon Nanotube in Nitrile Rubber: In Comparison with Carbon Black, Conductive Carbon Black, and Precipitated Silica. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8. | 1.5 | 28 |
| 6088 | In situ sensing in glass fiber-reinforced polymer composites via embedded carbon nanotube thin films. <i>Journal of Nanomaterials</i> , 2016, 2016, 327-352. | | 1 |
| 6089 | Thermal stability and structural study of the poly(3-hexyl thiophene)/HiPCO single walled carbon nanotubes (P3HT/SWCNT) nanocomposites. <i>EPJ Applied Physics</i> , 2016, 74, 24609. | 0.3 | 3 |
| 6090 | Conductive Fe ₃ O ₄ Nanoparticles Accelerate Syntrophic Methane Production from Butyrate Oxidation in Two Different Lake Sediments. <i>Frontiers in Microbiology</i> , 2016, 7, 1316. | 1.5 | 141 |
| 6091 | A Review of Double-Walled and Triple-Walled Carbon Nanotube Synthesis and Applications. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 109. | 1.3 | 44 |
| 6092 | A Review on the Respiratory System Toxicity of Carbon Nanoparticles. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 325. | 1.2 | 42 |
| 6093 | Effect of Sodium Dodecyl Sulfate Adsorption on the Behavior of Water inside Single Walled Carbon Nanotubes with Dissipative Particle Dynamics Simulation. <i>Molecules</i> , 2016, 21, 500. | 1.7 | 14 |
| 6094 | Nano-Welding of Multi-Walled Carbon Nanotubes on Silicon and Silica Surface by Laser Irradiation. <i>Nanomaterials</i> , 2016, 6, 36. | 1.9 | 22 |
| 6095 | Investigating the Effect of Carbon Nanotube Diameter and Wall Number in Carbon Nanotube/Silicon Heterojunction Solar Cells. <i>Nanomaterials</i> , 2016, 6, 52. | 1.9 | 38 |
| 6096 | A Spray-On Carbon Nanotube Artificial Neuron Strain Sensor for Composite Structural Health Monitoring. <i>Sensors</i> , 2016, 16, 1171. | 2.1 | 21 |
| 6097 | Integrated Analysis of Dysregulated ncRNA and mRNA Expression Profiles in Humans Exposed to Carbon Nanotubes. <i>PLoS ONE</i> , 2016, 11, e0150628. | 1.1 | 70 |
| 6098 | Interactions between Carbon Nanomaterials and Biomolecules. <i>Journal of Oleo Science</i> , 2016, 65, 1-7. | 0.6 | 52 |
| 6099 | Next-Generation Graphene-Based Membranes for Gas Separation and Water Purifications. <i>Journal of Membrane Science</i> , 2016, 515, 1-10. | | 5 |
| 6100 | Carbon Nanotube-Based Polymer Composites: Synthesis, Properties and Applications. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-10. | | 62 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6101 | Electrospinning Functional Polyacrylonitrile Nanofibers with Polyaniline, Carbon Nanotubes, and Silver Nitrate as Additives. , 0, , . | | 5 |
| 6102 | Safer Production of Water Dispersible Carbon Nanotubes and Nanotube/Cotton Composite Materials. , 0, , . | | 4 |
| 6104 | Development of carbon nanofiber aggregate for concrete strain monitoring. , 2016, , 9-45. | | 4 |
| 6105 | Nonlocal divergence and flutter instability analysis of embedded fluid-conveying carbon nanotube under magnetic field. Microfluidics and Nanofluidics, 2016, 20, 1. | 1.0 | 43 |
| 6106 | Ammonia-based plasma treatment of single-walled carbon nanotube thin films for bio-immobilization. Carbon, 2016, 105, 430-437. | 5.4 | 11 |
| 6107 | Enhancing the Colloidal Stability and Electrical Conductivity of Single-Walled Carbon Nanotubes Dispersed in Water. Macromolecular Chemistry and Physics, 2016, 217, 683-700. | 1.1 | 9 |
| 6108 | Enhanced optical transparency of films formed from sorted metallic or semiconducting single-walled carbon nanotubes filled with CuCl. Physica Status Solidi (B): Basic Research, 2016, 253, 2400-2405. | 0.7 | 13 |
| 6109 | Nanoscale Engineering of Heterostructured Anode Materials for Boosting Lithium-Ion Storage. Advanced Materials, 2016, 28, 7580-7602. | 11.1 | 224 |
| 6110 | Highly Stretchable Supercapacitors Based on Aligned Carbon Nanotube/Molybdenum Disulfide Composites. Angewandte Chemie - International Edition, 2016, 55, 9191-9195. | 7.2 | 146 |
| 6111 | Poly(vinyl chloride)/single wall carbon nanotubes composites: Investigation of mechanical and thermal characteristics. Journal of Vinyl and Additive Technology, 2016, 22, 128-133. | 1.8 | 17 |
| 6112 | Preparation of Highly Monodisperse Electroactive Pollen Biocomposites. ChemNanoMat, 2016, 2, 414-418. | 1.5 | 6 |
| 6113 | Mechanisms for Imparting Conductivity to Nonconductive Polymeric Biomaterials. Macromolecular Bioscience, 2016, 16, 1103-1121. | 2.1 | 12 |
| 6114 | Simultaneous ultrasonication-assisted internal mixing to prepare MWCNT-filled epoxy composites with increased strength and thermal conductivity. Polymer Composites, 2016, 37, 870-880. | 2.3 | 11 |
| 6115 | Review on the recent progress of carbon counter electrodes for dye-sensitized solar cells. Chemical Engineering Journal, 2016, 304, 629-645. | 6.6 | 177 |
| 6116 | Length-dependent broadband electric properties of PMMA composites filled with carbon nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1025-1033. | 0.8 | 7 |
| 6117 | Electrooxidation and Determination of Tripeleppamine Hydrochloride at MWCNT-CTAB Modified Glassy Carbon Electrode. Electroanalysis, 2016, 28, 523-532. | 1.5 | 6 |
| 6118 | Preparation of novel high copper ions removal membranes by embedding organosilane-functionalized multi-walled carbon nanotube. Journal of Chemical Technology and Biotechnology, 2016, 91, 2322-2330. | 1.6 | 49 |
| 6119 | Robust and Flexible Polyurethane Composite Nanofibers Incorporating Multi-Walled Carbon Nanotubes Produced by Solution Blow Spinning. Macromolecular Materials and Engineering, 2016, 301, 364-370. | 1.7 | 17 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6120 | Effective Enhancement of Humidity Sensing Characteristics of Novel Thermally Treated MWCNTs/Polyvinylpyrrolidone Film Caused by Interfacial Effect. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600153. | 1.9 | 10 |
| 6121 | Styrene- <i>n</i> -butadiene- <i>n</i> -styrene copolymer compatibilized interfacial modified multiwalled carbon nanotubes with mechanical and piezoresistive properties. <i>Journal of Applied Polymer Science</i> , 2016, 133, . | 1.3 | 3 |
| 6122 | Architectural effect of poly(acrylic acid) and poly(amide imide) block copolymers on dispersion of carbon nanotubes in water. <i>Journal of Applied Polymer Science</i> , 2016, 133, . | 1.3 | 1 |
| 6123 | Hierarchical self-assembled nanoclay derived mesoporous CNT/polyindole electrode for supercapacitors. <i>RSC Advances</i> , 2016, 6, 64271-64284. | 1.7 | 48 |
| 6124 | Fabrication of carbon nanotubes/TiO ₂ nanoparticles electrode-based on electrochemiluminescence (ECL) cell application. <i>Surface and Coatings Technology</i> , 2016, 306, 309-312. | 2.2 | 9 |
| 6125 | Finite-Size Effects in the Absorption Spectra of a Single-Wall Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18268-18274. | 1.5 | 9 |
| 6126 | Quantum confinement induced band gaps in MgB ₂ nanosheets. <i>2D Materials</i> , 2016, 3, 031003. | 2.0 | 12 |
| 6127 | Highly Stretchable Supercapacitors Based on Aligned Carbon Nanotube/Molybdenum Disulfide Composites. <i>Angewandte Chemie</i> , 2016, 128, 9337-9341. | 1.6 | 10 |
| 6128 | Highly Flexible Wrinkled Carbon Nanotube Thin Film Strain Sensor to Monitor Human Movement. <i>Advanced Materials Technologies</i> , 2016, 1, 1600053. | 3.0 | 154 |
| 6129 | Contrasts between Mild and Harsh Oxidation of Carbon Nanotubes in terms of their Properties and Electrochemical Performance. <i>ChemElectroChem</i> , 2016, 3, 1713-1719. | 1.7 | 11 |
| 6130 | Nanomaterials for Sustainable Society. , 2016, , 975-993. | | 1 |
| 6131 | Carbonized electrospun polyacrylonitrile nanofibers as highly sensitive sensors in structural health monitoring of composite structures. <i>Journal of Applied Polymer Science</i> , 2016, 133, . | 1.3 | 16 |
| 6132 | The Effect of Different Carbon Materials on Manganese Oxide-Based Lithium-Air Batteries in Ambient Environment. <i>Energy Technology</i> , 2016, 4, 510-516. | 1.8 | 5 |
| 6133 | Radially Aligned Porous Carbon Nanotube Arrays on Carbon Fibers: A Hierarchical 3D Carbon Nanostructure for High-Performance Capacitive Energy Storage. <i>Advanced Functional Materials</i> , 2016, 26, 3012-3020. | 7.8 | 132 |
| 6134 | Electronic Properties of Cyclacenes from TAO-DFT. <i>Scientific Reports</i> , 2016, 6, 37249. | 1.6 | 50 |
| 6135 | Direct Preparation of Carbon Nanotube Intramolecular Junctions on Structured Substrates. <i>Scientific Reports</i> , 2016, 6, 38032. | 1.6 | 11 |
| 6136 | Effects of Potential Modes on Performances of Electrodeposited Poly[Ni(salen)]/MWCNTs Composite as Supercapacitor Electrode Material. <i>Electrochemistry</i> , 2016, 84, 427-431. | 0.6 | 8 |
| 6137 | Functional interfaces of titanate nanotubes with controlled orientation/aggregation. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 495-499. | 0.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6138 | Using electric pulse and laser to trigger a sharp and nonvolatile change of lateral photovoltage in nano-carbon film. <i>Applied Physics Letters</i> , 2016, 108, . | 1.5 | 15 |
| 6139 | Near-field imaging of single walled carbon nanotubes emitting in the telecom wavelength range. <i>Journal of Applied Physics</i> , 2016, 120, 123110. | 1.1 | 5 |
| 6140 | A semi-analytical approach for calculating the equilibrium structure and radial breathing mode frequency of single-walled carbon nanotubes. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016, 32, 1075-1087. | 1.5 | 2 |
| 6141 | Impact of scaling channel length on the performances of nanoscale FETs. , 2016, , . | | 4 |
| 6142 | Enriched semiconducting single wall nanotubes as back contact for CdTe solar cell. , 2016, , . | | 1 |
| 6143 | Research on electromagnetic interference shielding effectiveness of sisal fiber/carbon black/HDPE composites by tri-screw extrusion molding. <i>AIP Conference Proceedings</i> , 2016, , . | 0.3 | 1 |
| 6144 | Radical scavenging properties of piperidine derivatives of fullerene C60/C70 and multi-walled carbon nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 640, 152-157. | 0.4 | 3 |
| 6145 | Optical characterization of spincoated Multiwall Carbon Nanotube films on silicon substrates. , 2016, , . | | 2 |
| 6146 | Behavior of oxidized platinum nanoparticles on an aligned carbon nanotube forest. <i>Journal of Applied Physics</i> , 2016, 120, . | 1.1 | 7 |
| 6147 | Spinodal instabilities in polydisperse lyotropic nematics. <i>Journal of Chemical Physics</i> , 2016, 145, 244904. | 1.2 | 5 |
| 6148 | Surfactant-Only Stabilized Dispersions of Multiwalled Carbon Nanotubes in High-Electrolyte-Concentration Brines. <i>Energy & Fuels</i> , 2016, 30, 8952-8961. | 2.5 | 9 |
| 6149 | Carbon nanotube-based cold cathodes: Field emission angular properties and temporal stability. <i>Journal of Applied Physics</i> , 2016, 120, 164305. | 1.1 | 3 |
| 6151 | Plasma engineering of graphene. <i>Applied Physics Reviews</i> , 2016, 3, 021301. | 5.5 | 123 |
| 6152 | Uncovering three-dimensional gradients in fibrillar orientation in an impact-resistant biological armour. <i>Scientific Reports</i> , 2016, 6, 26249. | 1.6 | 30 |
| 6153 | Microstructural Characterization of Aluminum-Carbon Nanotube Nanocomposites Produced Using Different Dispersion Methods. <i>Microscopy and Microanalysis</i> , 2016, 22, 725-732. | 0.2 | 24 |
| 6154 | Thermal properties of TIM using CNTs forest in electronics packaging. , 2016, , . | | 0 |
| 6155 | Modeling of dynamic mechanical properties of polymer composites reinforced by one dimensional nanofillers. <i>Journal of Applied Physics</i> , 2016, 120, 175103. | 1.1 | 11 |
| 6156 | Study on electrical properties and thermal conductivity of carbon nanotube/epoxy resin nanocomposites with different filler aspect ratios. , 2016, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6157 | Effect of tetrahedral amorphous carbon coating on the resistivity and wear of single-walled carbon nanotube network. <i>Journal of Applied Physics</i> , 2016, 119, 185306. | 1.1 | 5 |
| 6158 | Carbon nanotubes in thermotropic low molar mass liquid crystals. <i>Series in Sof Condensed Matter</i> , 2016, , 603-630. | 0.1 | 3 |
| 6159 | Nematic phase formation in suspensions of carbon nanotubes. <i>Series in Sof Condensed Matter</i> , 2016, , 775-796. | 0.1 | 0 |
| 6160 | Self-Sorting of Two Hydrocarbon Receptors with One Carbonaceous Ligand. <i>Angewandte Chemie</i> , 2016, 128, 15565-15569. | 1.6 | 26 |
| 6161 | Piezoelectric and dielectric characterization of corona and contact poled PZT-epoxy-MWCNT bulk composites. <i>Smart Materials and Structures</i> , 2016, 25, 115018. | 1.8 | 18 |
| 6162 | Theoretic Study on Dispersion Mechanism of Boron Nitride Nanotubes by Polynucleotides. <i>Scientific Reports</i> , 2016, 6, 39747. | 1.6 | 10 |
| 6163 | The effects of liquid-phase oxidation of multiwall carbon nanotubes on their surface characteristics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 112, 012004. | 0.3 | 3 |
| 6164 | Exploring pentagon-heptagon pair defects in the triangular graphene quantum dots: A computational study. <i>Materials Chemistry and Physics</i> , 2016, 175, 223-232. | 2.0 | 5 |
| 6165 | Controlled thermal functionalization for dispersion enhancement of multi-wall carbon nanotube in organic solvents. <i>Journal of Materials Science</i> , 2016, 51, 5625-5634. | 1.7 | 19 |
| 6166 | Chitosan-sodium alginate encapsulated Co-doped ZrO ₂ -MWCNTs nanocomposites for photocatalytic decolorization of organic dyes. <i>Research on Chemical Intermediates</i> , 2016, 42, 7231-7245. | 1.3 | 13 |
| 6167 | Ionic liquid polymer functionalized carbon nanotubes-doped poly(3,4-ethylenedioxythiophene) for highly-efficient solid-phase microextraction of carbamate pesticides. <i>Journal of Chromatography A</i> , 2016, 1444, 42-49. | 1.8 | 61 |
| 6168 | Comparative study on high temperature mechanical behavior in 3YTZP containing SWCNTs or MWCNTs. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2573-2578. | 2.8 | 7 |
| 6169 | The effect of nanofiller geometry and compounding method on polylactic acid nanocomposite films. <i>European Polymer Journal</i> , 2016, 77, 31-42. | 2.6 | 15 |
| 6170 | A density functional reactivity theory (DFRT) based approach to understand the effect of symmetry of fullerenes on the kinetic, thermodynamic and structural aspects of carbon NanoBuds. <i>Chemical Physics</i> , 2016, 472, 218-228. | 0.9 | 9 |
| 6171 | Theoretical Research on a Multibeam-Modulated Electron Gun Based on Carbon Nanotube Cold Cathodes. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 2919-2924. | 1.6 | 14 |
| 6172 | A DFT study of adsorption of glycine onto the surface of BC ₂ N nanotube. <i>Applied Surface Science</i> , 2016, 384, 230-236. | 3.1 | 21 |
| 6173 | Preparation of carbon nanomaterials using two-group arc discharge plasma. <i>Chemical Engineering Journal</i> , 2016, 303, 217-230. | 6.6 | 27 |
| 6174 | Construction of a biointerface on a carbon nanotube surface for efficient electron transfer. <i>Materials Letters</i> , 2016, 174, 184-187. | 1.3 | 19 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6175 | Preparation and enhanced conducting properties of open networks of poly(3-hexylthiophene)/carbon nanotube hybrids. RSC Advances, 2016, 6, 51485-51492. | 1.7 | 6 |
| 6176 | Synthesis of Carbon Nanotubes and Their Relevant Properties. , 2016, , 139-168. | | 0 |
| 6177 | Applications of Carbon Nanotubes in Bio-Nanotechnology. , 2016, , 379-408. | | 1 |
| 6178 | Vertically-Aligned Carbon Nanotubes for Electrochemical Energy Conversion and Storage. Nanoscience and Technology, 2016, , 253-270. | 1.5 | 4 |
| 6179 | Nonlocal effect on the nonlinear dynamic characteristics of buckled parametric double-layered nanoplates. Nonlinear Dynamics, 2016, 85, 1719-1733. | 2.7 | 9 |
| 6180 | Hydrogen physisorption energies for bumpy, saturated, nitrogen-doped single-walled carbon nanotubes. Structural Chemistry, 2016, 27, 1479-1490. | 1.0 | 7 |
| 6181 | Multifunctional characterization of carbon nanotube sheets, yarns, and their composites. Current Applied Physics, 2016, 16, 1250-1258. | 1.1 | 26 |
| 6182 | An efficient approach to the preparation of polyethylene magnetic nanocomposites. Polymer, 2016, 97, 131-137. | 1.8 | 22 |
| 6183 | In-situ characterization of interfacial shear strength in multi-walled carbon nanotube reinforced aluminum matrix composites. Carbon, 2016, 106, 37-47. | 5.4 | 93 |
| 6184 | Coupling of semiconductor carbon nanotubes emission with silicon photonic micro ring resonators. , 2016, , . | | 0 |
| 6185 | Enhanced electrocatalytic activity and durability of highly monodisperse Pt@PPy@PANI nanocomposites as a novel catalyst for the electro-oxidation of methanol. RSC Advances, 2016, 6, 50851-50857. | 1.7 | 110 |
| 6186 | Applications of Carbon Nanotubes in CFx Electrodes for High-power Li/CFx Batteries. MRS Advances, 2016, 1, 403-408. | 0.5 | 5 |
| 6187 | Nanocomposites of Hydrophobized Cellulose Nanocrystals and Polypropylene. MRS Advances, 2016, 1, 659-665. | 0.5 | 0 |
| 6188 | Carbon Nanotubes-Adsorbed Electrospun PA66 Nanofiber Bundles with Improved Conductivity and Robust Flexibility. ACS Applied Materials & Interfaces, 2016, 8, 14150-14159. | 4.0 | 241 |
| 6189 | Exploration of the environmentally benign and highly effective approach for improving carbon nanotube homogeneity in aqueous system. Journal of Thermal Analysis and Calorimetry, 2016, 124, 815-825. | 2.0 | 6 |
| 6190 | Pore size distribution control of pitch-based activated carbon for improvement of electrochemical property. Journal of Industrial and Engineering Chemistry, 2016, 35, 341-346. | 2.9 | 17 |
| 6191 | Flexible electrospun polyvinylidene fluoride nanofibrous composites with high electrical conductivity and good mechanical properties by employing ultrasonication induced dispersion of multi-walled carbon nanotubes. Composites Science and Technology, 2016, 128, 201-206. | 3.8 | 24 |
| 6192 | High-Temperature Deformation Mechanisms in Monolithic 3^YT^ZP^P and 3^YT^ZP^P Containing Single-Walled Carbon Nanotubes. Journal of the American Ceramic Society, 2016, 99, 286-292. | 1.9 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6193 | Boron nitride nanotube as a delivery system for platinum drugs: Drug encapsulation and diffusion coefficient prediction. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 88, 291-297. | 1.9 | 49 |
| 6194 | Nanoparticles and DNA – a powerful and growing functional combination in bionanotechnology. <i>Nanoscale</i> , 2016, 8, 9037-9095. | 2.8 | 181 |
| 6195 | Characterization and properties of transparent cellulose nanowhiskers-based graphene nanoplatelets/multi-walled carbon nanotubes films. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 86, 77-86. | 3.8 | 12 |
| 6196 | Optimizing the structure and yield of vanadium oxide nanotubes by periodic 2D layer scrolling. <i>RSC Advances</i> , 2016, 6, 40932-40944. | 1.7 | 18 |
| 6197 | Wet spinning of continuous polymer-free carbon-nanotube fibers with high electrical conductivity and strength. <i>Applied Physics Express</i> , 2016, 9, 055101. | 1.1 | 33 |
| 6198 | Printing of CNT/silicone rubber for a wearable flexible stretch sensor. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 1 |
| 6199 | Effects of optical absorbance with ablation characteristics in femtosecond laser irradiation of carbon reinforced Al ₂ O ₃ composites. <i>Advances in Applied Ceramics</i> , 0, , 1-6. | 0.6 | 0 |
| 6200 | Interfacial doping of carbon nanotubes at the polarisable organic/water interface: a liquid/liquid pseudo-capacitor. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7365-7371. | 5.2 | 16 |
| 6201 | Advanced nano-hybrids for thermo-oxidative-resistant nanocomposites. <i>Journal of Materials Science</i> , 2016, 51, 6955-6966. | 1.7 | 8 |
| 6202 | Stretchable conductors based on in-situ polymerizde poly(3,4-ethylenedioxythiophene) and three dimensional structure design. , 2016, , . | | 0 |
| 6203 | CVD Growth of Carbon Nanotube Forest with Selective Wall-Number from Fe–Cu Catalyst. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11163-11169. | 1.5 | 13 |
| 6204 | Magical Allotropes of Carbon: Prospects and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2016, 41, 257-317. | 6.8 | 167 |
| 6205 | One-to-One Correspondence Growth Mechanism of Gourd-like SiO ₂ Nanotubes. <i>Crystal Growth and Design</i> , 2016, 16, 3081-3086. | 1.4 | 3 |
| 6206 | Helical polysilane wrapping onto carbon nanotube: preparation, characterization and infrared emissivity property study. <i>RSC Advances</i> , 2016, 6, 7439-7447. | 1.7 | 9 |
| 6207 | Review of Applications of Polymer/Carbon Nanotubes and Epoxy/CNT Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2016, 55, 1167-1191. | 1.9 | 208 |
| 6208 | Electron beam curing of poly(ethylene glycol) diglycidyl ether-functionalized MWNTs/epoxy composites. <i>Journal of Composite Materials</i> , 2016, 50, 1595-1602. | 1.2 | 2 |
| 6209 | Hollow carbon fiber sponges from crude catkins: an ultralow cost absorbent for oils and organic solvents. <i>RSC Advances</i> , 2016, 6, 48715-48719. | 1.7 | 23 |
| 6210 | A new benzimidazole based covalent organic polymer having high energy storage capacity. <i>Chemical Communications</i> , 2016, 52, 7592-7595. | 2.2 | 97 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6211 | Flexible thin SiC fiber fabrics using carbon nanotube modification for improving electromagnetic shielding properties. <i>Materials and Design</i> , 2016, 104, 68-75. | 3.3 | 44 |
| 6212 | Finite Element Analysis of CNT Reinforced Epoxy Composite Due to Thermo-mechanical Loading. <i>Procedia Technology</i> , 2016, 23, 138-143. | 1.1 | 4 |
| 6213 | Nanotubes of Biomimetic Supramolecules Constructed by Synthetic Metal Chlorophyll Derivatives. <i>Nano Letters</i> , 2016, 16, 3650-3654. | 4.5 | 50 |
| 6214 | Carbon nanotube hybrid nanostructures: future generation conducting materials. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9347-9361. | 5.2 | 47 |
| 6215 | Energy Storage Performance Enhancement by Surface Engineering of Electrode Materials. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600430. | 1.9 | 17 |
| 6216 | Effect of organization of semi-flexible polymers on mechanical properties of its composite with single wall carbon nanotubes. <i>Composites Science and Technology</i> , 2016, 134, 242-250. | 3.8 | 13 |
| 6217 | Thermal buckling analysis of nanoplates based on nonlocal elasticity theory with four-unknown shear deformation theory resting on Winkler-Pasternak elastic foundation. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2016, 17, 362-373. | 1.4 | 22 |
| 6218 | Nanoparticle Ecotoxicology. , 2016, , 343-450. | | 18 |
| 6219 | Twin carbons: The carbonization of cellulose or carbonized cellulose coated with a conducting polymer, polyaniline. <i>Carbon</i> , 2016, 109, 836-842. | 5.4 | 13 |
| 6220 | Effect of the MWCNTs selective localization on the dielectric properties for PVDF/PS/HDPE ternary blends with in situ formed core-shell structure. <i>RSC Advances</i> , 2016, 6, 58493-58500. | 1.7 | 11 |
| 6221 | Knitted Carbon-Nanotube-Sheath/Spandex-Core Elastomeric Yarns for Artificial Muscles and Strain Sensing. <i>ACS Nano</i> , 2016, 10, 9129-9135. | 7.3 | 189 |
| 6222 | Development of high oxidation resistant coating of nanostructured MgO on carbon nanotubes via simple precipitation technique in Mg/CO gas system. <i>Ceramics International</i> , 2016, 42, 18573-18578. | 2.3 | 5 |
| 6223 | A novel design of ultrafast micro-CT system based on carbon nanotube: A feasibility study in phantom. <i>Physica Medica</i> , 2016, 32, 1302-1307. | 0.4 | 10 |
| 6224 | Poly (crystal violet) - Multi-walled carbon nanotubes modified electrode for electroanalytical determination of luteolin. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 46-52. | 1.9 | 30 |
| 6226 | Novel Synthesis Strategy of Al^{3+} -AlOOH Nanotubes: Coupling Reaction via Ionic Liquid-Assisted Hydrothermal Route. <i>Crystal Growth and Design</i> , 2016, 16, 6139-6143. | 1.4 | 10 |
| 6227 | Quantum Simulations of One-Dimensional Nanostructures under Arbitrary Deformations. <i>Physical Review Applied</i> , 2016, 6, . | 1.5 | 8 |
| 6229 | Sonochemical/hydration-dehydration synthesis of Pt-TiO ₂ NPs/decorated carbon nanotubes with enhanced photocatalytic hydrogen production activity. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1347-1357. | 1.6 | 43 |
| 6230 | Phase morphology control and the selective localization of MWCNT for suppressing dielectric loss and enhancing the dielectric constant of HDPE/PA11/MWCNT composites. <i>RSC Advances</i> , 2016, 6, 73056-73062. | 1.7 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6231 | Effect of the calculation method and the basis set on the structure and electrical properties of (4,4) carbon nanotubes with different lengths and open ends. <i>Journal of Structural Chemistry</i> , 2016, 57, 649-657. | 0.3 | 1 |
| 6232 | Torsional vibration of carbon nanotube with axial velocity and velocity gradient effect. <i>International Journal of Mechanical Sciences</i> , 2016, 119, 88-96. | 3.6 | 47 |
| 6233 | Thermophysical and optical properties of SWCNTs nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 207-213. | 2.9 | 71 |
| 6234 | Defects: Defects in Carbon Nanotubes. , 2016, , 185-192. | | 0 |
| 6235 | Encapsulation: Characterization of Carbon Nanotubes for Doxorubicin Encapsulation. , 2016, , 213-222. | | 0 |
| 6236 | Interactions between C ₆₀ and vesicles: a coarse-grained molecular dynamics simulation. <i>RSC Advances</i> , 2016, 6, 90388-90396. | 1.7 | 4 |
| 6237 | Functionalized carbon nanotubes and graphene-based materials for energy storage. <i>Chemical Communications</i> , 2016, 52, 14350-14360. | 2.2 | 53 |
| 6238 | Development of an opto-electronic fiber device with multiple nano-probes. <i>Nanotechnology</i> , 2016, 27, 445204. | 1.3 | 0 |
| 6240 | Bioavailability of phenanthrene and nitrobenzene sorbed on carbonaceous materials. <i>Carbon</i> , 2016, 110, 404-413. | 5.4 | 21 |
| 6241 | Fast-condensing nanofoams: Suppressing localization of intense stress waves. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 676, 450-462. | 2.6 | 4 |
| 6242 | Thermal and electrical properties of poly(phenylene sulfide)/carbon nanotube nanocomposite films with a segregated structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 91, 77-84. | 3.8 | 17 |
| 6243 | Functionalised carbon nanotubes: From intracellular uptake and cell-related toxicity to systemic brain delivery. <i>Journal of Controlled Release</i> , 2016, 241, 200-219. | 4.8 | 157 |
| 6244 | AOT assisted preparation of ordered, conducting and dispersible core-shell nanostructured polythiophene " MWCNT nanocomposites. <i>Polymer</i> , 2016, 103, 206-213. | 1.8 | 22 |
| 6245 | Direct Intertube Cross-Linking of Carbon Nanotubes at Room Temperature. <i>Nano Letters</i> , 2016, 16, 6541-6547. | 4.5 | 26 |
| 6246 | Smart Fabrics and Networked Clothing: Recent developments in CNT-based fibers and their continual refinement. <i>IEEE Consumer Electronics Magazine</i> , 2016, 5, 105-111. | 2.3 | 27 |
| 6247 | Collision of 3D bipolar light pulses in an array of carbon nanotubes. , 2016, , . | | 0 |
| 6248 | Spectroelectrochemistry at free-standing carbon nanotubes electrodes. <i>Electrochimica Acta</i> , 2016, 217, 262-268. | 2.6 | 10 |
| 6249 | Functionalized Carbon Nanotubes with Phosphorus- and Nitrogen-Containing Agents: Effective Reinforcer for Thermal, Mechanical, and Flame-Retardant Properties of Polystyrene Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26266-26274. | 4.0 | 134 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6250 | Carbon nanotubes and nanofibers as strain and damage sensors for smart cement. <i>Materials Today Communications</i> , 2016, 8, 196-204. | 0.9 | 63 |
| 6251 | Degradation mechanism of a junction-free transparent silver network electrode. <i>RSC Advances</i> , 2016, 6, 73769-73775. | 1.7 | 20 |
| 6252 | Heteroatom-Doped Nanostructured Carbon Materials. , 2016, , 219-235. | | 0 |
| 6253 | Multiwalled Carbon Nanotube Functionalization with High Molecular Weight Hyaluronan Significantly Reduces Pulmonary Injury. <i>ACS Nano</i> , 2016, 10, 7675-7688. | 7.3 | 41 |
| 6254 | Cobalt doped ZrO ₂ decorated multiwalled carbon nanotube: A promising nanocatalyst for photodegradation of indigo carmine and eosin Y dyes. <i>Progress in Natural Science: Materials International</i> , 2016, 26, 354-361. | 1.8 | 57 |
| 6255 | An investigation of thermal stability of carbon nanofluids for solar thermal applications. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 652-659. | 3.0 | 63 |
| 6256 | A novel one-step synthesis method for cuprous nanoparticles on multi-walled carbon nanotubes with high catalytic activity. <i>Ceramics International</i> , 2016, 42, 17916-17919. | 2.3 | 10 |
| 6257 | Electrocatalytic performances of multi-walled carbon nanotubes chemically modified by metal phthalocyanines in Li/SOCl ₂ batteries. <i>RSC Advances</i> , 2016, 6, 75632-75639. | 1.7 | 9 |
| 6258 | Light Harvesting Nanotubes Formed by Supramolecular Assembly of Aromatic Oligophosphates. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9961-9964. | 7.2 | 52 |
| 6259 | Synthesis and Electrochemical Lithium Storage Behavior of Carbon Nanotubes Filled with Iron Sulfide Nanoparticles. <i>Advanced Science</i> , 2016, 3, 1600113. | 5.6 | 44 |
| 6260 | Synthesis, Classification, and Properties of Nanomaterials. , 2016, , 83-133. | | 20 |
| 6261 | A study of mechanism on infrared photoresponse in three-dimensional single-walled carbon nanotubes. <i>Carbon</i> , 2016, 107, 646-650. | 5.4 | 4 |
| 6262 | Tunable electronic and magnetic properties of two-dimensional materials and their one-dimensional derivatives. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016, 6, 324-350. | 6.2 | 71 |
| 6263 | Biological effects of double-walled carbon nanotubes on the innate immune system: An in vitro study on THP-1 human monocytes. <i>Toxicology</i> , 2016, 365, 1-8. | 2.0 | 1 |
| 6264 | Aggregation and stabilization of multiwalled carbon nanotubes in aqueous suspensions: influences of carboxymethyl cellulose, starch and humic acid. <i>RSC Advances</i> , 2016, 6, 67260-67270. | 1.7 | 21 |
| 6266 | Enhanced conversion efficiency of quasi solid state dye sensitized solar cells based on functionalized multi-walled carbon nanotubes incorporated TiO ₂ photoanode. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10010-10019. | 1.1 | 0 |
| 6267 | Thermal and mechanical properties of single-walled and multi-walled carbon nanotube polycarbonate polyurethane composites with a focus on self-healing. <i>International Journal of Materials Research</i> , 2016, 107, 692-702. | 0.1 | 4 |
| 6268 | Ultrafast Photophysics of Single-Walled Carbon Nanotubes. <i>Advanced Optical Materials</i> , 2016, 4, 1670-1688. | 3.6 | 28 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6269 | Microwave Engineering for Synthesizing Clays and Modifying Properties in Zeolites. , 2016, , 179-210. | | 0 |
| 6270 | Pd nanoparticles deposited on Isoniazid grafted multi walled carbon nanotubes: synthesis, characterization and application for Suzuki reaction in aqueous media. RSC Advances, 2016, 6, 88916-88924. | 1.7 | 28 |
| 6271 | The decoration of multi-walled carbon nanotubes with nickel oxide nanoparticles using chemical method. International Nano Letters, 2016, 6, 183-190. | 2.3 | 29 |
| 6272 | Multiwalled carbon nanotubes/gold nanocomposites-based electrochemiluminescent sensor for sensitive determination of bisphenol A. Analytical and Bioanalytical Chemistry, 2016, 408, 7173-7180. | 1.9 | 22 |
| 6273 | Electrochemical properties of multi-walled carbon nanotubes treated with nitric acid for a supercapacitor electrode. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 664-669. | 2.3 | 17 |
| 6274 | Computational study on the fullerene-like B 40 borospherene properties and its interaction with ammonia. Journal of Molecular Liquids, 2016, 223, 315-320. | 2.3 | 26 |
| 6275 | Combined microfluidization and ultrasonication: a synergistic protocol for high-efficient processing of SWCNT dispersions with high quality. Journal of Nanoparticle Research, 2016, 18, 1. | 0.8 | 5 |
| 6276 | Micro-/Nanorobots. Springer Handbooks, 2016, , 671-716. | 0.3 | 6 |
| 6277 | A simple chemical treatment for easy dispersion of carbon nanotubes in epoxy matrix for improving mechanical properties. Journal of Materials Science, 2016, 51, 10775-10781. | 1.7 | 7 |
| 6278 | A novel preparation and properties of in-situ grown carbon nanotube reinforced carbon/carbon composites. Vacuum, 2016, 132, 95-105. | 1.6 | 13 |
| 6279 | Computer simulation of size effects and adsorption properties of one-wall carbon nanotubes (6,6). Russian Journal of General Chemistry, 2016, 86, 1684-1691. | 0.3 | 4 |
| 6280 | Enhanced field emission properties of molybdenum disulphide few layer nanosheets synthesized by hydrothermal method. Applied Surface Science, 2016, 389, 1017-1022. | 3.1 | 126 |
| 6281 | Real-Time Imaging of Self-Organization and Mechanical Competition in Carbon Nanotube Forest Growth. ACS Nano, 2016, 10, 11496-11504. | 7.3 | 34 |
| 6282 | Electrical contact resistance performance of precious-metal-electroplated carbon nanotube films under micro loads. Mechanical Engineering Journal, 2016, 3, 15-00346-15-00346. | 0.2 | 0 |
| 6283 | Carbon Nanotubes Immersed in Superfluid Helium: The Impact of Quantum Confinement on Wetting and Capillary Action. Journal of Physical Chemistry Letters, 2016, 7, 4929-4935. | 2.1 | 18 |
| 6284 | Optimal thermal design of CMOS for direct integration of carbon nanotubes. , 2016, , . | | 1 |
| 6285 | Chapter 3 Nanocomposites Based on Block Copolymers and Carbon Nanotubes. , 2016, , 69-110. | | 0 |
| 6287 | Surpassing the Exciton Diffusion Limit in Single-Walled Carbon Nanotube Sensitized Solar Cells. ACS Nano, 2016, 10, 11258-11265. | 7.3 | 22 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6288 | Carboxymethyl cellulose assisted preparation of water-processable halloysite nanotubular composites with carboxyl-functionalized multi-carbon nanotubes for simultaneous voltammetric detection of uric acid, guanine and adenine in biological samples. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 103-113. | 1.9 | 27 |
| 6289 | Strain sensing and structural health monitoring using nanofilms and nanocomposites. , 2016, , 303-326. | | 2 |
| 6290 | 1D nanocrystals with precisely controlled dimensions, compositions, and architectures. <i>Science</i> , 2016, 353, 1268-1272. | 6.0 | 316 |
| 6291 | Decoupling function and taxonomy in the global ocean microbiome. <i>Science</i> , 2016, 353, 1272-1277. | 6.0 | 2,001 |
| 6292 | CNT paste emitters with minimal damage during high temperature vacuum brazing fabricated using fillers having low catalytic activities. , 2016, , . | | 0 |
| 6294 | Combined effect of carbon nanotubes and polypyrrole on the electrical properties of cellulose-nanopaper. <i>Cellulose</i> , 2016, 23, 3925-3937. | 2.4 | 19 |
| 6295 | Excellent Electroactive Shape Memory Performance of EVA/PCL/CNT Blend Composites with Selectively Localized CNTs. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22793-22802. | 1.5 | 64 |
| 6296 | Electrical properties and applications of carbon nanotube composites. <i>International Journal of Nanotechnology</i> , 2016, 13, 524. | 0.1 | 2 |
| 6297 | Influence of carbon nanotubes functionalization on the mechanical properties of polymethacrylate nanocomposites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 510, 169-175. | 2.3 | 25 |
| 6298 | Superior Cycle Stability Performance of Quasi-Cuboidal CoV ₂ O ₆ Microstructures as Electrode Material for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27291-27297. | 4.0 | 79 |
| 6299 | Electrochemical biosensors and nanobiosensors. <i>Essays in Biochemistry</i> , 2016, 60, 69-80. | 2.1 | 265 |
| 6300 | Finite element prediction of stress transfer in graphene nanocomposites: The interface effect. <i>Composite Structures</i> , 2016, 154, 269-276. | 3.1 | 15 |
| 6301 | Carbon Nanotube Thin-Film Antennas. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20986-20992. | 4.0 | 41 |
| 6302 | Carbon nanotubes in Li-ion batteries: A review. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 213, 12-40. | 1.7 | 127 |
| 6303 | Slip boundary conditions over curved surfaces. <i>Physical Review E</i> , 2016, 93, 013105. | 0.8 | 27 |
| 6304 | Determination of Î±2,3-sialylated glycans in human serum using a glassy carbon electrode modified with carboxylated multiwalled carbon nanotubes, a polyamidoamine dendrimer, and a glycan-recognizing lectin from <i>Maackia Amurensis</i> . <i>Mikrochimica Acta</i> , 2016, 183, 2337-2344. | 2.5 | 17 |
| 6305 | Excellent heat dissipation properties of the super-aligned carbon nanotube films. <i>RSC Advances</i> , 2016, 6, 61686-61694. | 1.7 | 42 |
| 6306 | Light Harvesting Nanotubes Formed by Supramolecular Assembly of Aromatic Oligophosphates. <i>Angewandte Chemie</i> , 2016, 128, 10115-10118. | 1.6 | 21 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6307 | Toxicological effects of multi-walled carbon nanotubes on <i>Saccharomyces cerevisiae</i> : The uptake kinetics and mechanisms and the toxic responses. <i>Journal of Hazardous Materials</i> , 2016, 318, 650-662. | 6.5 | 55 |
| 6308 | Sea urchin-like NiCoO ₂ @C nanocomposites for Li-ion batteries and supercapacitors. <i>Nano Energy</i> , 2016, 27, 457-465. | 8.2 | 127 |
| 6309 | CdS nanoparticle coated carbon nanotube through magnetron sputtering and its improved field emission performance. <i>Current Applied Physics</i> , 2016, 16, 1293-1302. | 1.1 | 12 |
| 6310 | Ultrafast dynamics in unaligned MWCNTs decorated with metal nanoparticles. <i>Nanotechnology</i> , 2016, 27, 235704. | 1.3 | 1 |
| 6311 | Metallic and semiconducting carbon nanotubes separation using an aqueous two-phase separation technique: a review. <i>Nanotechnology</i> , 2016, 27, 332002. | 1.3 | 24 |
| 6312 | Aggregation Kinetics and Stability Mechanisms of Pristine and Oxidized Nanocarbons in Polar Solvents. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16804-16814. | 1.5 | 14 |
| 6313 | Simultaneous UV-Visible Absorption and Raman Spectroelectrochemistry. <i>Analytical Chemistry</i> , 2016, 88, 8210-8217. | 3.2 | 33 |
| 6314 | Laser synthesis of a copper single-walled carbon nanotube nanocomposite via molecular-level mixing and non-equilibrium solidification. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 495301. | 1.3 | 9 |
| 6315 | Self-Sorting of Two Hydrocarbon Receptors with One Carbonaceous Ligand. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15339-15343. | 7.2 | 38 |
| 6316 | Synthesis of Fe ₂ O ₃ /carbon nanocomposites as high capacity electrodes for next generation lithium ion batteries: a review. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18223-18239. | 5.2 | 85 |
| 6317 | Selective Adsorption and Separation through Molecular Filtration by Hyperbranched Poly(ether) Tj ETQqO O rgBT /Overlock 10 Tf 50 34 | 1.6 | 33 |
| 6318 | Low-dose carbon-based nanoparticle-induced effects in A549 lung cells determined by biospectroscopy are associated with increases in genomic methylation. <i>Scientific Reports</i> , 2016, 6, 20207. | 1.6 | 58 |
| 6319 | Strengthening in and fracture behaviour of CNT and carbon-fibre-reinforced epoxy matrix hybrid composite. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2016, 41, 1443-1461. | 0.8 | 14 |
| 6321 | Nanoparticles in feed: Progress and prospects in poultry research. <i>Trends in Food Science and Technology</i> , 2016, 58, 115-126. | 7.8 | 75 |
| 6322 | Sorption behaviour of Pu ⁴⁺ and PuO ₂ ²⁺ on amido amine-functionalized carbon nanotubes: experimental and computational study. <i>RSC Advances</i> , 2016, 6, 107011-107020. | 1.7 | 23 |
| 6323 | Electrocatalytic oxidation of Epinephrine and Norepinephrine at metal oxide doped phthalocyanine/MWCNT composite sensor. <i>Scientific Reports</i> , 2016, 6, 26938. | 1.6 | 103 |
| 6324 | Enhanced optoelectronic performances of vertically aligned hexagonal boron nitride nanowalls-nanocrystalline diamond heterostructures. <i>Scientific Reports</i> , 2016, 6, 29444. | 1.6 | 13 |
| 6325 | Collisions of three-dimensional bipolar optical solitons in an array of carbon nanotubes. <i>Physical Review A</i> , 2016, 94, . | 1.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6326 | Carbyne: A One Dimensional Carbon Allotrope. , 2016, , 3-25. | | 1 |
| 6327 | Fabrication of biocompatible nanohybrid shish-kebab-structured carbon nanotubes with a mussel-inspired layer. RSC Advances, 2016, 6, 101660-101670. | 1.7 | 14 |
| 6328 | Waterborne acrylicâ€“polyaniline nanocomposite as antistatic coating: preparation and characterization. Iranian Polymer Journal (English Edition), 2016, 25, 991-998. | 1.3 | 18 |
| 6329 | Three-dimensional carbon-based architectures for oil remediation: from synthesis and modification to functionalization. Journal of Materials Chemistry A, 2016, 4, 18687-18705. | 5.2 | 77 |
| 6330 | Sum of ranking differences in comparison of nickel-coated carbon nanofibers adsorbents in capacity and randomness of 1-butanethiol (1-butyl mercaptan) adsorption. Journal of the Iranian Chemical Society, 2016, 13, 2283-2289. | 1.2 | 1 |
| 6331 | A carbon nanotube based x-ray detector. Nanotechnology, 2016, 27, 475501. | 1.3 | 4 |
| 6332 | A convenient approach to producing a sensitive MWCNT-based paper sensor. RSC Advances, 2016, 6, 112241-112245. | 1.7 | 12 |
| 6333 | Coupling carbon nanomaterials with photochromic molecules for the generation of optically responsive materials. Nature Communications, 2016, 7, 11118. | 5.8 | 217 |
| 6334 | Promises and challenges of nanomaterials for lithium-based rechargeable batteries. Nature Energy, 2016, 1, . | 19.8 | 1,388 |
| 6335 | Effect of pristine graphene incorporation on charge storage mechanism of three-dimensional graphene oxide: superior energy and power density retention. Scientific Reports, 2016, 6, 31555. | 1.6 | 26 |
| 6336 | Insight into the Mechanisms of Combined Toxicity of Single-Walled Carbon Nanotubes and Nickel Ions in Macrophages: Role of P2X ₇ Receptor. Environmental Science & Technology, 2016, 50, 12473-12483. | 4.6 | 26 |
| 6337 | Lung Microtissue Array to Screen the Fibrogenic Potential of Carbon Nanotubes. Scientific Reports, 2016, 6, 31304. | 1.6 | 25 |
| 6338 | Importance of the structural integrity of a carbon conjugated mediator for photocatalytic hydrogen generation from water over a CdSâ€“carbon nanotubeâ€“MoS ₂ composite. Chemical Communications, 2016, 52, 13596-13599. | 2.2 | 20 |
| 6339 | A glutathione biosensor based on a glassy carbon electrode modified with CdO nanoparticle-decorated carbon nanotubes in a nafion matrix. Mikročimica Acta, 2016, 183, 3255-3263. | 2.5 | 42 |
| 6340 | Polyaniline-based glucose biosensor: A review. Journal of Electroanalytical Chemistry, 2016, 782, 138-153. | 1.9 | 130 |
| 6341 | Three-dimensional Sponges with Super Mechanical Stability: Harnessing True Elasticity of Individual Carbon Nanotubes in Macroscopic Architectures. Scientific Reports, 2016, 6, 18930. | 1.6 | 56 |
| 6342 | Poly(acrylamide)-MWNTs hybrid hydrogel with extremely high mechanical strength. Open Chemistry, 2016, 14, 150-157. | 1.0 | 10 |
| 6343 | Progress on nanoparticle-based carbon nanotube complex: fabrication and potential application. Reviews in Inorganic Chemistry, 2016, 36, . | 1.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6344 | Multiwalled carbon nanotube reinforced biomimetic bundled gel fibres. <i>Biomaterials Science</i> , 2016, 4, 1197-1201. | 2.6 | 6 |
| 6345 | Influence of PMSA-Based Polymer on the Settling Velocity of CNT in Aqueous Media. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016, 63, 861-865. | 0.1 | 0 |
| 6346 | Functionalization of Single-walled Carbon Nanotubes with Thermo-reversible Block Copolymers and Characterization by Small-angle Neutron Scattering. <i>Journal of Visualized Experiments</i> , 2016, , . | 0.2 | 2 |
| 6347 | Investigation of mechanical properties of masterbatches and composites with small additions of CNTs. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 112, 012019. | 0.3 | 0 |
| 6348 | Behaviors of field emitters under pulsed voltages. <i>Science China Technological Sciences</i> , 2016, 59, 1777-1784. | 2.0 | 4 |
| 6349 | The application of carbon nanotubes for enhancement of the epoxy thermoelectret properties. , 2016, , . | | 2 |
| 6350 | Modeling of external electric field effect on the carbon and silicon carbide nanotubes. <i>AIP Conference Proceedings</i> , 2016, , . | 0.3 | 1 |
| 6351 | Facile preparation of modified carbon nanotube reinforced PBT nanocomposites with enhanced thermal, flame retardancy, and mechanical properties. <i>Polymer Composites</i> , 2016, 37, 1812-1820. | 2.3 | 18 |
| 6352 | Recent Advances in Stretchable and Transparent Electronic Materials. <i>Advanced Electronic Materials</i> , 2016, 2, 1500407. | 2.6 | 245 |
| 6354 | Reality Check for Nanomaterial Mediated Therapy with 3D Biomimetic Culture Systems. <i>Advanced Functional Materials</i> , 2016, 26, 4046-4065. | 7.8 | 47 |
| 6355 | Synthesizing Nitrogen Doped Core Sheath Carbon Nanotube Films for Flexible Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600271. | 10.2 | 93 |
| 6356 | NanodrÄhte in Chemo und Biosensoren: aktueller Stand und Fahrplan fÄ¼r die Zukunft. <i>Angewandte Chemie</i> , 2016, 128, 1286-1302. | 1.6 | 10 |
| 6357 | Nanowire Chemical/Biological Sensors: Status and a Roadmap for the Future. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1266-1281. | 7.2 | 237 |
| 6358 | Functionalization of Carbon Materials by Reduction of Diazonium Cations Produced in Situ in a BrÄnstedt Acidic Ionic Liquid. <i>ChemElectroChem</i> , 2016, 3, 572-580. | 1.7 | 17 |
| 6359 | Molecular mechanics of DNA bricks: <i>in situ</i> structure, mechanical properties and ionic conductivity. <i>New Journal of Physics</i> , 2016, 18, 055012. | 1.2 | 21 |
| 6360 | Effects of carbonaceous materials on microbial bioavailability of 2,2,4,4-tetrabromodiphenyl ether (BDE-47) in sediments. <i>Journal of Hazardous Materials</i> , 2016, 312, 216-223. | 6.5 | 27 |
| 6361 | Gaseous detonation fabrication of CNTs and CNTs doping with Fe based composites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 494-499. | 1.0 | 5 |
| 6362 | Preparation and properties of an antistatic UV-curable coating modified by multi-walled carbon nanotubes. <i>Polymer Bulletin</i> , 2016, 73, 2815-2830. | 1.7 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6363 | Energy dissipation in intercalated carbon nanotube forests with metal layers. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 1.1 | 3 |
| 6364 | Enhanced Field-Emission Performance from Carbon Nanotube Emitters on Nickel Foam Cathodes. Journal of Electronic Materials, 2016, 45, 2299-2304. | 1.0 | 18 |
| 6365 | Exploring the potential energy surface for reaction of SWCNT with NO ₂ ⁺ : A model reaction for oxidation of carbon nanotube in acid solution. Computational and Theoretical Chemistry, 2016, 1088, 1-8. | 1.1 | 10 |
| 6366 | A facile method to enhance the electrical conductivity of a pure carbon nanotube film. Materials Technology, 2016, 31, 7-9. | 1.5 | 2 |
| 6367 | Ensuring near-optimum homogeneity and densification levels in nano-reinforced ceramics. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 6368 | Carbon Nanoparticles and Nanostructures. Carbon Nanostructures, 2016, , . | 0.1 | 18 |
| 6369 | Graphene and carbon-based nanomaterials as highly efficient adsorbents for oils and organic solvents. Nanotechnology Reviews, 2016, 5, . | 2.6 | 42 |
| 6370 | Investigation of different methods for cisplatin loading using single-walled carbon nanotube. Chemical Engineering Research and Design, 2016, 112, 56-63. | 2.7 | 15 |
| 6371 | Catalytic Applications of Carbon Dots. Carbon Nanostructures, 2016, , 257-298. | 0.1 | 12 |
| 6372 | Reviewâ€”Nanocarbon-Based Multi-Functional Biointerfaces: Design and Applications. ECS Journal of Solid State Science and Technology, 2016, 5, M3045-M3053. | 0.9 | 4 |
| 6373 | High-Performance PEDOT:PSS/Single-Walled Carbon Nanotube/Ionic Liquid Actuators Combining Electrostatic Double-Layer and Faradaic Capacitors. Langmuir, 2016, 32, 7210-7218. | 1.6 | 64 |
| 6374 | Enhanced adsorption and degradation of phenolic pollutants in water by carbon nanotube modified laccase-carrying electrospun fibrous membranes. Environmental Science: Nano, 2016, 3, 857-868. | 2.2 | 25 |
| 6375 | Attractive Interactions between DNAâ€”Carbon Nanotube Hybrids in Monovalent Salts. Journal of Physical Chemistry C, 2016, 120, 13831-13835. | 1.5 | 12 |
| 6376 | Excellent electromagnetic interference shielding effectiveness of chemically reduced graphitic oxide paper at 101ÅGHz*. European Physical Journal B, 2016, 89, 1. | 0.6 | 8 |
| 6377 | Thermo-Electrochemical Cells Based on Carbon Nanotube Electrodes by Electrophoretic Deposition. Nano-Micro Letters, 2016, 8, 240-246. | 14.4 | 33 |
| 6378 | Toward carbon nanotube-based imaging agents for the clinic. Biomaterials, 2016, 101, 229-240. | 5.7 | 47 |
| 6379 | Yield optimization of nanocarbons prepared via chemical vapor decomposition of carbon dioxide using response surface methodology. Diamond and Related Materials, 2016, 66, 196-205. | 1.8 | 13 |
| 6380 | Tunable morphology and its influence on electrical, thermal and mechanical properties of carbon nanostructure-buckypaper. Materials and Design, 2016, 101, 236-244. | 3.3 | 54 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6381 | A Many-Body Overview of Excitonic Effects in Armchair Graphene Nanoribbons. , 2016, , 109-120. | | 2 |
| 6382 | Modeling and Simulation of the Elastic Properties of Kevlar Reinforced by Graphene. , 2016, , 19-25. | | 2 |
| 6383 | Spherical and rodlike inorganic nanoparticle regulated the orientation of carbon nanotubes in polymer nanofibers. Chemical Physics Letters, 2016, 650, 82-87. | 1.2 | 19 |
| 6384 | Fragmentation characteristics of undoped and nitrogen-doped multiwalled carbon nanotubes in aqueous dispersion in dependence on the ultrasonication parameters. Diamond and Related Materials, 2016, 66, 126-134. | 1.8 | 30 |
| 6385 | Single-walled carbon nanotubes disturbed the immune and metabolic regulation function 13-weeks after a single intratracheal instillation. Environmental Research, 2016, 148, 184-195. | 3.7 | 9 |
| 6386 | One-Step Preparation of Oxygen/Fluorine Dual Functional MWCNTs with Good Water Dispersibility by the Initiation of Fluorine Gas. ACS Applied Materials & Interfaces, 2016, 8, 7991-7999. | 4.0 | 23 |
| 6387 | Unconventional supercapacitors from nanocarbon-based electrode materials to device configurations. Chemical Society Reviews, 2016, 45, 4340-4363. | 18.7 | 480 |
| 6388 | Assembling tin dioxide nanorods on carbon nanotubes by a chemical solution method. Integrated Ferroelectrics, 2016, 168, 151-156. | 0.3 | 0 |
| 6389 | Multiplug filtration cleanup method with multi-walled carbon nanotubes for the analysis of malachite green, diethylstilbestrol residues, and their metabolites in aquatic products by liquid chromatography-tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2016, 408, 5801-5809. | 1.9 | 20 |
| 6390 | Study on the interaction of metallocene catalysts with the surface of carbon nanotubes and its influence on the catalytic properties. 1. Investigation of possible complex structures and the influence on structural and electronic properties. Journal of Organometallic Chemistry, 2016, 818, 154-162. | 0.8 | 3 |
| 6391 | Liquid crystal behavior induced assembling fabrication of conductive chiral MWCNTs@NCC nanopaper. Applied Surface Science, 2016, 385, 521-528. | 3.1 | 9 |
| 6392 | Thermoelectric power factor performance of Bi ₈₅ Sb ₁₅ /graphene composite. Japanese Journal of Applied Physics, 2016, 55, 045802. | 0.8 | 13 |
| 6393 | Noncovalent compatibilization of polypropylene/MWCNT composites using an amino-pyridine grafted polypropylene matrix. Polymer Composites, 2016, 37, 2794-2802. | 2.3 | 9 |
| 6394 | Recent advances and challenges of stretchable supercapacitors based on carbon materials. Science China Materials, 2016, 59, 475-494. | 3.5 | 83 |
| 6395 | Human hair-derived hollow carbon microfibers for electrochemical sensing. Carbon, 2016, 107, 872-877. | 5.4 | 40 |
| 6396 | Fe Ti O based catalyst for large-chiral-angle single-walled carbon nanotube growth. Carbon, 2016, 107, 865-871. | 5.4 | 11 |
| 6397 | Methane decomposition for carbon nanotube production: Optimization of the reaction parameters using response surface methodology. Chemical Engineering Research and Design, 2016, 112, 163-174. | 2.7 | 34 |
| 6398 | Lipid extraction mediates aggregation of carbon nanospheres in pulmonary surfactant monolayers. Physical Chemistry Chemical Physics, 2016, 18, 18923-18933. | 1.3 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6399 | Electrical conductivity and mechanical performance of multiwalled CNTs-filled polyvinyl chloride composites subjected to tensile load. <i>Journal of Applied Polymer Science</i> , 2016, 133, . | 1.3 | 16 |
| 6400 | Free vibration of in-plane-aligned membranes of single-walled carbon nanotubes in the presence of in-plane-unidirectional magnetic fields. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 3736-3766. | 1.5 | 26 |
| 6401 | Effect of carbon nanotube dispersion on electrochemical and mechanical characteristics of poly(methyl methacrylate)-based gel polymer electrolytes. <i>Polymer Composites</i> , 2016, 37, 1936-1944. | 2.3 | 14 |
| 6402 | Lightweight, Flexible, High-Performance Carbon Nanotube Cables Made by Scalable Flow Coating. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4903-4910. | 4.0 | 38 |
| 6403 | Facile route to multi-walled carbon nanotubes under ambient conditions. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 401-404. | 1.2 | 7 |
| 6404 | Electrochemical sensing of levodopa or carbidopa using a glassy carbon electrode modified with carbon nanotubes within a poly(allylamine hydrochloride) film. <i>Analytical Methods</i> , 2016, 8, 1274-1280. | 1.3 | 16 |
| 6405 | Electronic structures and magnetic properties of rare-earth-atom-doped BNNTs. <i>Frontiers of Physics</i> , 2016, 11, 1. | 2.4 | 1 |
| 6406 | One-step solvothermal synthesis of quasi-hexagonal Fe ₂ O ₃ nanoplates/graphene composite as high performance electrode material for supercapacitor. <i>Electrochimica Acta</i> , 2016, 191, 275-283. | 2.6 | 93 |
| 6407 | Conjugated fluorene-moiety-containing pendant polymers for the dispersion of single-wall carbon nanotubes: polymer wrapping abilities and electrical properties. <i>Polymer Journal</i> , 2016, 48, 421-429. | 1.3 | 4 |
| 6408 | Mechanical properties of single-walled carbon nanotube reinforced polymer composites with varied interphase's modulus and thickness: A finite element analysis study. <i>Computational Materials Science</i> , 2016, 114, 209-218. | 1.4 | 46 |
| 6409 | Multi-wall carbon nanotube-embedded lithium cobalt phosphate composites with reduced resistance for high-voltage lithium-ion batteries. <i>Electronic Materials Letters</i> , 2016, 12, 147-155. | 1.0 | 12 |
| 6410 | Synthesis of carbon nanotube fibers using the direct spinning process based on Design of Experiment (DOE). <i>Carbon</i> , 2016, 100, 647-655. | 5.4 | 39 |
| 6411 | Cohesive laws for van der Waals interactions of super carbon nanotube/polymer composites. <i>Mechanics Research Communications</i> , 2016, 72, 33-40. | 1.0 | 17 |
| 6412 | Simulation and Characterization of Tetracosane on Graphite: Molecular Dynamics Beyond the Monolayer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 984-994. | 1.5 | 7 |
| 6413 | From Helixes to Mesostructures: Evolution of Mesoporous Silica Shells on Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2016, 28, 936-942. | 3.2 | 17 |
| 6414 | ZnO nanorod arrays prepared by chemical bath deposition combined with rapid thermal annealing: structural, photoluminescence and field emission characteristics. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 025306. | 1.3 | 15 |
| 6415 | Implantable neurotechnologies: a review of micro- and nanoelectrodes for neural recording. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 23-44. | 1.6 | 123 |
| 6416 | First-principle study of SO ₂ molecule adsorption on Ni-doped vacancy-defected single-walled (8,0) carbon nanotubes. <i>Applied Surface Science</i> , 2016, 364, 560-566. | 3.1 | 47 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6417 | Band gap opening and semiconductor-metal phase transition in (n, n) single-walled carbon nanotubes with distinctive boron-nitrogen line defect. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4643-4651. | 1.3 | 8 |
| 6418 | Ternary polybenzoxazine/POSS/SWCNT hybrid nanocomposites stabilized through supramolecular interactions. <i>Soft Matter</i> , 2016, 12, 1847-1858. | 1.2 | 31 |
| 6419 | Carbon science in 2016: Status, challenges and perspectives. <i>Carbon</i> , 2016, 98, 708-732. | 5.4 | 261 |
| 6420 | Fabrication of zinc stannate based all-printed resistive switching device. <i>Materials Letters</i> , 2016, 166, 311-316. | 1.3 | 28 |
| 6421 | Preparation of acrylic/MWNTs nanocomposite latexes via ultrasonically-assisted emulsion polymerization: A comparative study. <i>European Polymer Journal</i> , 2016, 75, 104-115. | 2.6 | 5 |
| 6422 | The properties of MWCNT/polyurethane conductive composite coating prepared by electrostatic spraying. <i>Progress in Organic Coatings</i> , 2016, 90, 284-290. | 1.9 | 31 |
| 6423 | Microbial electrolysis cells: An emerging technology for wastewater treatment and energy recovery. From laboratory to pilot plant and beyond. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 942-956. | 8.2 | 234 |
| 6424 | Thermal and optical study of semiconducting CNTs-doped nematic liquid crystalline material. <i>Phase Transitions</i> , 2016, 89, 632-642. | 0.6 | 22 |
| 6425 | Review on carbon nanotubes and carbon nanotube bundles for gas/ion separation and water purification studied by molecular dynamics simulation. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 457-470. | 1.8 | 31 |
| 6426 | Enhanced Adsorption of Hydroxyl- and Amino-Substituted Aromatic Chemicals to Nitrogen-Doped Multiwall Carbon Nanotubes: A Combined Batch and Theoretical Calculation Study. <i>Environmental Science & Technology</i> , 2016, 50, 899-905. | 4.6 | 53 |
| 6427 | Strain sensing, electrical and mechanical properties of polycarbonate/multiwall carbon nanotube monofilament fibers fabricated by melt spinning. <i>Polymer</i> , 2016, 82, 181-189. | 1.8 | 110 |
| 6428 | Energy dissipation and high-strain rate dynamic response of E-glass fiber composites with anchored carbon nanotubes. <i>Composites Part B: Engineering</i> , 2016, 88, 44-54. | 5.9 | 29 |
| 6429 | Effect of annealing temperature on structural, optical and electrical properties of hydrothermal assisted zinc oxide nanorods. <i>Thin Solid Films</i> , 2016, 598, 39-45. | 0.8 | 81 |
| 6430 | Interfacial engineering of epoxy/carbon nanotubes using reactive glue for effective reinforcement of the composite. <i>Polymer Journal</i> , 2016, 48, 183-188. | 1.3 | 8 |
| 6431 | Electrospun carbon nanofibers coated with urchin-like ZnCo ₂ O ₄ nanosheets as a flexible electrode material. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5958-5964. | 5.2 | 92 |
| 6432 | Multiwalled carbon nanotubes as masks against carbon and argon irradiation. A molecular dynamics study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 373, 98-101. | 0.6 | 1 |
| 6433 | Carbon Nanomaterials Based on Carbon Nanotubes (CNTs). <i>Advanced Structured Materials</i> , 2016, , 25-101. | 0.3 | 1 |
| 6434 | Electrochemical and Electromechanical Properties of Activated Multi-walled Carbon Nanotube Polymer Actuator that Surpass the Performance of a Single-walled Carbon Nanotube Polymer Actuator. <i>Materials Today: Proceedings</i> , 2016, 3, S178-S183. | 0.9 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6435 | Quantum primary rainbows in transmission of positrons through very short carbon nanotubes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 373, 52-62. | 0.6 | 12 |
| 6436 | Flexible Field Emission Devices Based on Barium Oxide Nanowires. <i>Journal of Display Technology</i> , 2016, 12, 466-471. | 1.3 | 9 |
| 6437 | A room temperature light source based on silicon nanowires. <i>Thin Solid Films</i> , 2016, 613, 59-63. | 0.8 | 5 |
| 6438 | Largely Enhanced Thermal Conductivity and High Dielectric Constant of Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6 <i>Chemistry C</i> , 2016, 120, 6344-6355. | 1.5 | 204 |
| 6439 | Rational Synthesis of Three-Dimensional Nanosuperstructures for Applications in Energy Storage and Conversion. <i>IEEE Transactions on Device and Materials Reliability</i> , 2016, 16, 475-482. | 1.5 | 2 |
| 6440 | Electrodeposited Conducting Polyaniline Nanowire Arrays Aligned on Carbon Nanotubes Network for High Performance Supercapacitors and Sensors. <i>Electrochimica Acta</i> , 2016, 199, 234-241. | 2.6 | 98 |
| 6441 | Carbon nanotube/polyimide bilayer thin films with high structural stability, optical transparency, and electric heating performance. <i>RSC Advances</i> , 2016, 6, 30106-30114. | 1.7 | 13 |
| 6442 | Fully-drawn pencil-on-paper sensors for electroanalysis of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2016, 769, 72-79. | 1.9 | 59 |
| 6443 | Graphdiyne oxide as a platform for fluorescence sensing. <i>Chemical Communications</i> , 2016, 52, 5629-5632. | 2.2 | 115 |
| 6444 | Optical limiting response of multi-walled carbon nanotube-phthalocyanine nanocomposite in solution and when in poly (acrylic acid). <i>Journal of Molecular Structure</i> , 2016, 1117, 140-146. | 1.8 | 12 |
| 6445 | Sugar-functionalized triptycenes used for dispersion of single-walled carbon nanotubes in aqueous solution by supramolecular interaction. <i>New Journal of Chemistry</i> , 2016, 40, 3300-3307. | 1.4 | 9 |
| 6446 | Multilevel resistive switching and nonvolatile memory effects in epoxy methacrylate resin and carbon nanotube composite films. <i>Organic Electronics</i> , 2016, 32, 7-14. | 1.4 | 35 |
| 6447 | Preparation of multi-walled carbon nanotubes/SiO ₂ core-shell nanocomposites by a two-step Stober process. <i>Micro and Nano Letters</i> , 2016, 11, 67-70. | 0.6 | 2 |
| 6448 | Effects of amino group on the properties of carbon nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 249-252. | 1.0 | 3 |
| 6449 | Strain rate effects on compressive behavior of covalently bonded CNT networks. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 80, 168-175. | 1.3 | 6 |
| 6450 | Fluorescent ampicillin analogues as multifunctional disguising agents against opsonization. <i>Nanoscale</i> , 2016, 8, 12658-12667. | 2.8 | 6 |
| 6451 | Meter-Long Spiral Carbon Nanotube Fibers Show Ultrauniformity and Flexibility. <i>Nano Letters</i> , 2016, 16, 1768-1775. | 4.5 | 51 |
| 6452 | Rapid fabrication of circular channel microfluidic flow-focusing devices for hydrogel droplet generation. <i>Micro and Nano Letters</i> , 2016, 11, 41-45. | 0.6 | 21 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6453 | Microcombing enables high-performance carbon nanotube composites. <i>Composites Science and Technology</i> , 2016, 123, 92-98. | 3.8 | 22 |
| 6454 | Production of hydrogen and carbon nanomaterials from methane using Co/ZSM-5 catalyst. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8668-8678. | 3.8 | 45 |
| 6455 | Determination of Tungsten Target Parameters for Transmission X-ray Tube: A Simulation Study Using Geant4. <i>Nuclear Engineering and Technology</i> , 2016, 48, 795-798. | 1.1 | 26 |
| 6456 | “Patchy” Carbon Nanotubes as Efficient Compatibilizers for Polymer Blends. <i>ACS Macro Letters</i> , 2016, 5, 306-310. | 2.3 | 38 |
| 6457 | Resistive sensing of gaseous nitrogen dioxide using a dispersion of single-walled carbon nanotubes in an ionic liquid. <i>Materials Research Bulletin</i> , 2016, 78, 53-57. | 2.7 | 8 |
| 6458 | TiO ₂ “multi-walled carbon nanotube nanocomposites: hydrothermal synthesis and temporally-dependent optical properties. <i>RSC Advances</i> , 2016, 6, 20120-20127. | 1.7 | 32 |
| 6459 | Carbon nanotube dispersion in nematic liquid crystals: An overview. <i>Progress in Materials Science</i> , 2016, 80, 38-76. | 16.0 | 157 |
| 6460 | Electric field and current assisted alignment of CNT inside polymer matrix and its effects on electrical and mechanical properties. <i>Polymer</i> , 2016, 89, 119-127. | 1.8 | 86 |
| 6461 | Tuning of glyconanomaterial shape and size for selective bacterial cell agglutination. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2028-2037. | 2.9 | 31 |
| 6462 | Low-swelling proton-conducting multi-layer composite membranes containing polyarylene ether nitrile and sulfonated carbon nanotubes for fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5113-5122. | 3.8 | 29 |
| 6463 | Carbon nanotubes growth on expanded perlite particles via CVD method: The influence of the substrate morphology. <i>Chemical Engineering Journal</i> , 2016, 291, 106-114. | 6.6 | 27 |
| 6464 | Mechanisms of NH ₃ and NO ₂ detection in carbon-nanotube-based sensors: An ab initio investigation. <i>Carbon</i> , 2016, 101, 177-183. | 5.4 | 56 |
| 6465 | Electrocatalytic activity of Pt/ZrO ₂ supported on different carbon materials for methanol oxidation in H ₂ SO ₄ solution. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1846-1858. | 3.8 | 18 |
| 6466 | Periodic density functional theory study of structural and electronic properties of single-walled zinc oxide and carbon nanotubes. <i>Journal of Solid State Chemistry</i> , 2016, 237, 36-47. | 1.4 | 23 |
| 6467 | Mechanical and electrical properties of carbon nanotube buckypaper reinforced silicon carbide nanocomposites. <i>Ceramics International</i> , 2016, 42, 4984-4992. | 2.3 | 19 |
| 6468 | Physicochemical properties and ecotoxicological effects of yttrium oxide nanoparticles in aquatic media: Role of low molecular weight natural organic acids. <i>Environmental Pollution</i> , 2016, 212, 113-120. | 3.7 | 18 |
| 6469 | Depth map sensor based on optical doped lens with multi-walled carbon nanotubes of liquid crystal. <i>Applied Optics</i> , 2016, 55, 140. | 2.1 | 11 |
| 6470 | Novel design of non-enzymatic sensor for rapid monitoring of hydrogen peroxide in water matrix. <i>Journal of Electroanalytical Chemistry</i> , 2016, 766, 30-36. | 1.9 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6471 | Going small to beat the high. <i>Nature Nanotechnology</i> , 2016, 11, 580-581. | 15.6 | 8 |
| 6472 | Fibrosis biomarkers in workers exposed to MWCNTs. <i>Toxicology and Applied Pharmacology</i> , 2016, 299, 125-131. | 1.3 | 127 |
| 6473 | Pressure-driven opening of carbon nanotubes. <i>Nanoscale</i> , 2016, 8, 6014-6020. | 2.8 | 5 |
| 6474 | Growing Carbon Nanotubes from Both Sides of Graphene. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7356-7362. | 4.0 | 34 |
| 6475 | Changing liquid crystalline phase with field. <i>Liquid Crystals</i> , 2016, 43, 770-776. | 0.9 | 0 |
| 6476 | Analytical assessment of carbon allotropes for gas sensor applications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 92, 295-302. | 2.5 | 11 |
| 6477 | Mechanism for excitation-dependent photoluminescence from graphene quantum dots and other graphene oxide derivatives: consensus, debates and challenges. <i>Nanoscale</i> , 2016, 8, 7794-7807. | 2.8 | 393 |
| 6478 | Electronic properties of carbon nanotubes linked covalently with iron phthalocyanine to determine the formation of high-valent iron intermediates or hydroxyl radicals. <i>Carbon</i> , 2016, 100, 408-416. | 5.4 | 36 |
| 6479 | Towards compliant and wearable robotic orthoses: A review of current and emerging actuator technologies. <i>Medical Engineering and Physics</i> , 2016, 38, 317-325. | 0.8 | 130 |
| 6480 | Enhancing the grain size of organic halide perovskites by sulfonate-carbon nanotube incorporation in high performance perovskite solar cells. <i>Chemical Communications</i> , 2016, 52, 5674-5677. | 2.2 | 77 |
| 6481 | Nickel cluster functionalised carbon nanotube for CO molecule detection: a theoretical study. <i>Molecular Physics</i> , 2016, 114, 671-680. | 0.8 | 8 |
| 6482 | Electrical conductivity of different carbon nanotubes on wool fabric: An investigation on the effects of different dispersing agents and pretreatments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 497, 81-89. | 2.3 | 18 |
| 6483 | Temperature dependent, shape variant synthesis of photoluminescent and biocompatible carbon nanostructures from almond husk for applications in dye removal. <i>RSC Advances</i> , 2016, 6, 29545-29553. | 1.7 | 56 |
| 6484 | Multifunctional electrocatalytic hybrid carbon nanocables with highly active edges on their walls. <i>Nanoscale</i> , 2016, 8, 6700-6711. | 2.8 | 10 |
| 6485 | CoFe ₂ O ₄ -decorated carbon nanotubes for the dehydration of glucose and fructose. <i>New Journal of Chemistry</i> , 2016, 40, 4468-4471. | 1.4 | 15 |
| 6486 | Enhancement of C/C-LAS joint using aligned carbon nanotubes prepared by injection chemical vapor deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 67-74. | 2.6 | 19 |
| 6488 | Nanoparticle-induced phenomena in polyurethanes. , 2016, , 171-194. | | 10 |
| 6489 | High-performance supercapacitors based on polyaniline-graphene nanocomposites: Some approaches, challenges and opportunities. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 13-29. | 2.9 | 94 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6490 | Quantitative 3D electromagnetic field determination of 1D nanostructures from single projection. <i>Ultramicroscopy</i> , 2016, 164, 24-30. | 0.8 | 7 |
| 6491 | Enhanced degradation of azo dye in wastewater by pulsed discharge plasma coupled with MWCNTs-TiO ₂ /β ³ -Al ₂ O ₃ composite photocatalyst. <i>Journal of Environmental Management</i> , 2016, 172, 186-192. | 3.8 | 33 |
| 6492 | Preparation, Characterization, and Catalytic Activity of Carbon Nanotubes-Supported Metal or Metal Oxide. , 2016, , 231-284. | | 1 |
| 6493 | Synthesis of graphene encapsulated Fe ₃ C in carbon nanotubes from biomass and its catalysis application. <i>Carbon</i> , 2016, 99, 330-337. | 5.4 | 155 |
| 6494 | Sustainable Life Cycles of Natural-Precursor-Derived Nanocarbons. <i>Chemical Reviews</i> , 2016, 116, 163-214. | 23.0 | 163 |
| 6495 | Field dependence of liquid-crystalline phase in liquid-crystal and carbon nanotubes composite. <i>Liquid Crystals</i> , 2016, 43, 484-487. | 0.9 | 6 |
| 6496 | Vibrational G peak splitting in laterally functionalized single wall carbon nanotubes: Theory and molecular dynamics simulations. <i>Carbon</i> , 2016, 96, 616-621. | 5.4 | 6 |
| 6497 | A microstructural and neutron-diffraction study on the interactions between microwave-irradiated multiwalled carbon nanotubes and hydrogen. <i>Journal of Materials Science</i> , 2016, 51, 1308-1315. | 1.7 | 5 |
| 6498 | Multiple spectroscopic studies on the interaction of BSA with pristine CNTs and their toxicity against <i>Donax faba</i> . <i>Journal of Luminescence</i> , 2016, 170, 141-149. | 1.5 | 26 |
| 6499 | Physical adsorption of polyvinyl pyrrolidone on carbon nanotubes under shear studied with dissipative particle dynamics simulations. <i>Carbon</i> , 2016, 100, 291-301. | 5.4 | 21 |
| 6500 | Recent advances in bionanocomposites: Preparation, properties, and applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 225-254. | 1.8 | 102 |
| 6501 | Super-strong and highly conductive carbon nanotube ribbons from post-treatment methods. <i>Carbon</i> , 2016, 99, 407-415. | 5.4 | 101 |
| 6502 | Modeling of carbon nanotubes and carbon nanotube-polymer composites. <i>Progress in Aerospace Sciences</i> , 2016, 80, 33-58. | 6.3 | 77 |
| 6503 | Relationship of Extensional Viscosity and Liquid Crystalline Transition to Length Distribution in Carbon Nanotube Solutions. <i>Macromolecules</i> , 2016, 49, 681-689. | 2.2 | 57 |
| 6504 | Synergistic effect of iron oxide modified carbon nanotubes on the thermal stability of silicone rubber under different atmospheres. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 1281-1291. | 2.0 | 14 |
| 6505 | The effect of polymer spatial configuration on the microwave absorbing properties of non-covalent modified MWNTs. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 81, 264-270. | 3.8 | 9 |
| 6506 | Electrically conductive and strong cellulose-based composite fibers reinforced with multiwalled carbon nanotube containing multiple hydrogen bonding moiety. <i>Composites Science and Technology</i> , 2016, 123, 57-64. | 3.8 | 51 |
| 6507 | Reinforcement of norbornene-based nanocomposites with norbornene functionalized multi-walled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2016, 288, 9-18. | 6.6 | 18 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6508 | Synthesis of Magnetic MWNTs/ZnS/Fe ₃ O ₄ Nanocomposites and Their Enhanced Photocatalytic Activity. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2016, 46, 638-641. | 0.6 | 4 |
| 6509 | Toward the suppression of cellular toxicity from single-walled carbon nanotubes. Biomaterials Science, 2016, 4, 230-244. | 2.6 | 40 |
| 6510 | Nanocomposites. Advanced Structured Materials, 2016, , 65-115. | 0.3 | 0 |
| 6511 | Effect of multi-walled carbon nanotubes on mechanical, thermal and electrical properties of phenolic foam via in-situ polymerization. Composites Part A: Applied Science and Manufacturing, 2016, 82, 214-225. | 3.8 | 62 |
| 6513 | Design fabrication and characterisation of polyaniline and multiwall carbon nanotubes composites based patch antenna. IET Microwaves, Antennas and Propagation, 2016, 10, 88-93. | 0.7 | 20 |
| 6514 | Rainbow channeling of protons in very short carbon nanotubes with aligned Stone-Wales defects. Nuclear Instruments & Methods in Physics Research B, 2016, 367, 37-45. | 0.6 | 4 |
| 6515 | Computational homogenization in RVE models with material periodic conditions for CNT polymer composites. Composite Structures, 2016, 137, 9-17. | 3.1 | 44 |
| 6516 | Synthesis, characterization and chemical binding of a Ni(II) Schiff base complex on functionalized MWNTs; Catalytic oxidation of cyclohexene with molecular oxygen. Chemical Engineering Journal, 2016, 286, 259-265. | 6.6 | 28 |
| 6517 | Synthesis of carbon nanotubes by catalytic chemical vapour deposition: A review on carbon sources, catalysts and substrates. Materials Science in Semiconductor Processing, 2016, 41, 67-82. | 1.9 | 408 |
| 6519 | Ultrasensitive Detection of Single-Walled Carbon Nanotubes Using Surface Plasmon Resonance. Analytical Chemistry, 2016, 88, 968-973. | 3.2 | 7 |
| 6520 | UHPLC combined with mass spectrometric study of as-synthesized carbon dots samples. Talanta, 2016, 146, 340-350. | 2.9 | 18 |
| 6521 | Platinum on pyridine-polybenzimidazole wrapped carbon nanotube supports for high temperature proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2016, 41, 10430-10445. | 3.8 | 11 |
| 6522 | Thin and flexible multi-walled carbon nanotube/waterborne polyurethane composites with high-performance electromagnetic interference shielding. Carbon, 2016, 96, 768-777. | 5.4 | 301 |
| 6523 | Electronic Applications of Ethylene Propylene Diene Monomer Rubber and Its Composites. Springer Series on Polymer and Composite Materials, 2016, , 305-333. | 0.5 | 5 |
| 6524 | Controlled Atmosphere Transmission Electron Microscopy. , 2016, , . | | 34 |
| 6525 | An assessment of flexural performance of liquid nitrogen conditioned glass/epoxy composites with multiwalled carbon nanotube. Journal of Composite Materials, 2016, 50, 3077-3088. | 1.2 | 27 |
| 6526 | A review of exposure and toxicological aspects of carbon nanotubes, and as additives to fire retardants in polymers. Critical Reviews in Toxicology, 2016, 46, 74-95. | 1.9 | 11 |
| 6527 | Nonlocal buckling and vibration analysis of thick rectangular nanoplates using finite strip method based on refined plate theory. Acta Mechanica, 2016, 227, 721-742. | 1.1 | 34 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6528 | One-pot titration methodology for the characterization of surface acidic groups on functionalized carbon nanotubes. <i>Carbon</i> , 2016, 96, 729-741. | 5.4 | 17 |
| 6529 | Transforming waste into carbon-based nanomaterials. <i>Carbon</i> , 2016, 96, 105-115. | 5.4 | 176 |
| 6530 | Strain relaxation and resonance of carbon nanotube forests under electrostatic loading. <i>Carbon</i> , 2016, 96, 250-258. | 5.4 | 13 |
| 6531 | Chemical structures and physical properties of vanadium oxide films modified by single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1422-1428. | 1.3 | 16 |
| 6532 | How does ss-DNA recognize the chirality of carbon nanotubes?. <i>Journal of Computational Science</i> , 2016, 15, 60-64. | 1.5 | 3 |
| 6533 | SnO ₂ -decorated multiwalled carbon nanotubes and Vulcan carbon through a sonochemical approach for supercapacitor applications. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 205-212. | 3.8 | 39 |
| 6534 | Interface enhancement of carbon fiber reinforced methylphenylsilicone resin composites modified with silanized carbon nanotubes. <i>Materials and Design</i> , 2016, 89, 1343-1349. | 3.3 | 101 |
| 6535 | Effect of Carbon Nanotubes on Thermoelectric Properties in Zn _{0.98} Al _{0.02} O. <i>Journal of Electronic Materials</i> , 2016, 45, 1459-1463. | 1.0 | 14 |
| 6536 | When is 6 less than 5? Penta- to hexa-graphene transition. <i>Carbon</i> , 2016, 96, 421-428. | 5.4 | 69 |
| 6537 | Exploration of Epoxy Resins, Hardening Systems, and Epoxy/Carbon Nanotube Composite Designed for High Performance Materials: A Review. <i>Polymer-Plastics Technology and Engineering</i> , 2016, 55, 312-333. | 1.9 | 98 |
| 6538 | Prussian blue as a single precursor for synthesis of Fe/Fe ₃ C encapsulated N-doped graphitic nanostructures as bi-functional catalysts. <i>Green Chemistry</i> , 2016, 18, 427-432. | 4.6 | 152 |
| 6539 | 3D nitrogen-doped graphene aerogel: A low-cost, facile prepared direct electrode for H ₂ O ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 567-573. | 4.0 | 68 |
| 6540 | Nickel multiwalled carbon nanotube composite coating on aluminum alloy rotor for textile industries. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 319-327. | 0.7 | 7 |
| 6541 | Determination of mutagenic amines in water and food samples by high pressure liquid chromatography with amperometric detection using a multiwall carbon nanotubes-glassy carbon electrode. <i>Food Chemistry</i> , 2016, 192, 343-350. | 4.2 | 10 |
| 6542 | Real-time monitoring of carbon nanotube dispersion using dynamic light scattering and UV-vis spectroscopy. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 361-367. | 1.5 | 14 |
| 6543 | Electrochemistry and XPS of 2,7-dinitro-9-fluorenone immobilized on multi-walled carbon nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1131-1137. | 1.2 | 14 |
| 6544 | Architectures of nano-biointerfaces: relevance to future biosensing, environment and energy applications. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2017, 32, 3-16. | 0.7 | 0 |
| 6545 | MWCNT-reinforced polyarylene ether nitrile nanocomposites. <i>High Performance Polymers</i> , 2017, 29, 441-449. | 0.8 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6546 | Closed-form effective elastic constants of frame-like periodic cellular solids by a symbolic object-oriented finite element program. <i>International Journal of Mechanics and Materials in Design</i> , 2017, 13, 363-383. | 1.7 | 11 |
| 6547 | Insulin biosensor development: a case study. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2017, 32, 119-138. | 0.7 | 10 |
| 6548 | The influence of carbon nanotubes and shape memory alloy wires to controlled impact resistance of polymer composites. <i>Journal of Composite Materials</i> , 2017, 51, 273-285. | 1.2 | 8 |
| 6549 | Effect of functionalization of multi-walled carbon nanotube on mechanical and viscoelastic properties of polysulfide-modified epoxy nanocomposites. <i>High Performance Polymers</i> , 2017, 29, 151-160. | 0.8 | 11 |
| 6550 | Water-soluble fullerenes for medical applications. <i>Materials Science and Technology</i> , 2017, 33, 777-794. | 0.8 | 104 |
| 6551 | Structure and properties of polymer nanocomposite films with carbon nanotubes and graphene. <i>Polymer Composites</i> , 2017, 38, E490. | 2.3 | 11 |
| 6552 | Fabrication of robust multiwalled carbon nanotube buckypapers through crosslinking reaction of epoxy chains with its curing agent. <i>Polymer Composites</i> , 2017, 38, 2727-2733. | 2.3 | 3 |
| 6553 | Properties of polypropylene/multiwall carbon nanotube composite films prepared by microlayer extrusion. <i>Journal of Plastic Film and Sheeting</i> , 2017, 33, 191-206. | 1.3 | 4 |
| 6554 | Numerical and Experimental Investigation of the Piezoresistive Behavior of Hybrid Carbon Nanotube Sheet - Graphene Nanocomposites. , 2017, , . | | 2 |
| 6555 | Synthesis of porous carbon nanofiber with bamboo-like carbon nanofiber branches by one-step carbonization process. <i>Applied Surface Science</i> , 2017, 402, 456-462. | 3.1 | 16 |
| 6556 | Substrate induced changes in atomically thin 2-dimensional semiconductors: Fundamentals, engineering, and applications. <i>Applied Physics Reviews</i> , 2017, 4, 011301. | 5.5 | 97 |
| 6557 | The Inner Cavity of a Carbon Nanotube as a Chemical Reactor: Effect of Geometry on the Catalysis of a Menshutkin S _N ² Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2165-2172. | 1.5 | 10 |
| 6558 | Highly Sensitive Wearable Textile-Based Humidity Sensor Made of High-Strength, Single-Walled Carbon Nanotube/Poly(vinyl alcohol) Filaments. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4788-4797. | 4.0 | 201 |
| 6559 | Electrochemical detection of serotonin based on a poly(bromocresol green) film and Fe ₃ O ₄ nanoparticles in a chitosan matrix. <i>RSC Advances</i> , 2017, 7, 1847-1851. | 1.7 | 74 |
| 6560 | One-step synthesis of Co-TiC-carbon composite nanofibers at low temperature. <i>Ceramics International</i> , 2017, 43, 5828-5831. | 2.3 | 18 |
| 6561 | Nanofiltration applications of tough MWNT buckypaper membranes containing biopolymers. <i>Journal of Membrane Science</i> , 2017, 529, 23-34. | 4.1 | 23 |
| 6562 | Dielectric relaxation and ac conduction in ⁶⁰ Co-irradiated UHMWPE/MWCNTs nano composites: Impedance spectroscopy analysis. <i>Radiation Physics and Chemistry</i> , 2017, 134, 40-46. | 1.4 | 7 |
| 6563 | Interelectrode bridging of carbon nanotube fibrous assembly induced by gas discharge breakdown. <i>Applied Physics Letters</i> , 2017, 110, . | 1.5 | 6 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6564 | Nano-engineered joining employing surface modified graphite nanomaterials. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 48, 16-23. | 2.9 | 1 |
| 6565 | A sensitive electrochemical sensor for flavonoids based on a multi-walled carbon paste electrode modified by cetyltrimethyl ammonium bromide-carboxylic multi-walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 897-906. | 4.0 | 36 |
| 6566 | Single Nanoparticle Detection Using Optical Microcavities. <i>Advanced Materials</i> , 2017, 29, 1604920. | 11.1 | 257 |
| 6567 | Physiological and biochemical responses of two keystone polychaete species: <i>Diopatra neapolitana</i> and <i>Hediste diversicolor</i> to Multi-walled carbon nanotubes. <i>Environmental Research</i> , 2017, 154, 126-138. | 3.7 | 41 |
| 6568 | Hybrid nano-composites made of ss-DNA/wrapped carbon nanotubes and titania. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 12-17. | 2.5 | 3 |
| 6569 | Evaluation of thermo-mechanical properties of graphene/carbon-nanotubes modified asphalt with molecular simulation. <i>Molecular Simulation</i> , 2017, 43, 312-319. | 0.9 | 63 |
| 6570 | Experimental analysis of stabilizing effects of carbon nanotubes (CNTs) on thermal oxidation of poly(ethylene glycol)@CNT composites. <i>Chemical Physics Letters</i> , 2017, 670, 32-36. | 1.2 | 7 |
| 6572 | Experimental Aspect. , 2017, , 23-47. | | 0 |
| 6573 | Strain sensing behaviors of epoxy nanocomposites with carbon nanotubes under cyclic deformation. <i>Polymer</i> , 2017, 112, 1-9. | 1.8 | 94 |
| 6574 | Functionalization of multi-walled carbon nanotubes by radiation-induced graft polymerization in aqueous solution. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 250-255. | 1.0 | 4 |
| 6575 | Thermo-mechanical and anti-corrosive properties of MWCNT/epoxy nanocomposite fabricated by innovative dispersion technique. <i>Composites Part B: Engineering</i> , 2017, 113, 291-299. | 5.9 | 114 |
| 6576 | Fundamental Structural, Electronic, and Chemical Properties of Carbon Nanostructures: Graphene, Fullerenes, Carbon Nanotubes, and Their Derivatives. , 2017, , 1175-1258. | | 2 |
| 6577 | Enhanced field emission properties from surface-modified 2D Cd(OH) ₂ nanocoins. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1. | 1.1 | 5 |
| 6578 | Quantum Nuclear Motion of Helium and Molecular Nitrogen Clusters in Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3807-3821. | 1.5 | 25 |
| 6579 | Multifunctional, biocompatible and pH-responsive carbon nanotube- and graphene oxide/tectomer hybrid composites and coatings. <i>Nanoscale</i> , 2017, 9, 7791-7804. | 2.8 | 24 |
| 6580 | Mesomorphism in binary mixtures of 4-((hexylimino)methyl)benzoic acid and 4-alkoxybenzoic acids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 339-345. | 2.0 | 6 |
| 6581 | Advances in Production and Applications of Carbon Nanotubes. <i>Topics in Current Chemistry</i> , 2017, 375, 18. | 3.0 | 64 |
| 6582 | Microbial Transformation of Multiwalled Carbon Nanotubes by <i>Mycobacterium vanbaalenii</i> PYR-1. <i>Environmental Science & Technology</i> , 2017, 51, 2068-2076. | 4.6 | 34 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6583 | Thermodynamic Study of Methylene Blue Adsorption on Carbon Nanotubes Using Isothermal Titration Calorimetry: A Simple and Rigorous Approach. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 729-737. | 1.0 | 35 |
| 6584 | Pyrolysis-catalysis of waste plastic using a nickel-stainless-steel mesh catalyst for high-value carbon products. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2889-2897. | 1.2 | 27 |
| 6585 | Oligoaniline assisted dispersion of carbon nanotubes in epoxy matrix for achieving the nanocomposites with enhanced mechanical, thermal and tribological properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 446-454. | 2.0 | 10 |
| 6586 | Delamination Detection in Carbon Fiber Composites using Piezoresistive Nanocomposites. , 2017, , . | | 1 |
| 6587 | Molecular dynamics study on the thermal buckling of carbon nanotubes in the presence of pre-load. <i>Materials Research Express</i> , 2017, 4, 015011. | 0.8 | 14 |
| 6588 | Automatized Estimation of the Effective Thermal Conductivity of Carbon Fiber Reinforced Composite Materials. <i>Defect and Diffusion Forum</i> , 0, 370, 177-183. | 0.4 | 10 |
| 6589 | A Review of Thermal Transport in Low-Dimensional Materials Under External Perturbation: Effect of Strain, Substrate, and Clustering. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2017, 21, 201-236. | 1.4 | 38 |
| 6590 | Ionic Liquids-Based Iron Phosphide/Carbon Nanotubes Composites: High Active Electrocatalysts towards Hydrogen Evolution Reaction. <i>ChemistrySelect</i> , 2017, 2, 1019-1024. | 0.7 | 10 |
| 6591 | Unzipping of multi-wall carbon nanotubes with different diameter distributions: Effect on few-layer graphene oxide obtention. <i>Applied Surface Science</i> , 2017, 424, 101-110. | 3.1 | 20 |
| 6592 | In situ direct observation of toughening in isotropic nanocomposites of alumina ceramic and multiwall carbon nanotubes. <i>Acta Materialia</i> , 2017, 127, 203-210. | 3.8 | 37 |
| 6593 | A review on photoelectrochemical cathodic protection semiconductor thin films for metals. <i>Green Energy and Environment</i> , 2017, 2, 331-362. | 4.7 | 119 |
| 6594 | From single atoms to self-assembled quantum single-atomic nanowires: noble metal atoms on black phosphorene monolayers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7864-7870. | 1.3 | 1 |
| 6595 | Development of electrochemical biosensor for detection of pathogenic microorganism in Asian dust events. <i>Chemosphere</i> , 2017, 175, 269-274. | 4.2 | 35 |
| 6596 | Tuning Hydrogen and Carbon Nanotube Production from Phenol Steam Reforming on Ni/Fe-Based Nanocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2098-2108. | 3.2 | 19 |
| 6597 | Strain-capacitance relationship in polymer actuators based on single-walled carbon nanotubes and ionic liquid gels. <i>Faraday Discussions</i> , 2017, 199, 405-422. | 1.6 | 3 |
| 6598 | New insight on the interfacial interaction between multiwalled carbon nanotubes and elastomers. <i>Composites Science and Technology</i> , 2017, 142, 214-220. | 3.8 | 33 |
| 6600 | Ceramic nanocomposites reinforced with a high volume fraction of carbon nanotubes. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 47-50. | 0.4 | 3 |
| 6601 | Aqueous-Only, Green Route to Self-Healable, UV-Resistant, and Electrically Conductive Polyurethane/Graphene/Lignin Nanocomposite Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3148-3157. | 3.2 | 76 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6602 | Tunable electromagnetic interference shielding effectiveness via multilayer assembly of regenerated cellulose as a supporting substrate and carbon nanotubes/polymer as a functional layer. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3130-3138. | 2.7 | 137 |
| 6603 | Identification and visualization of the intellectual structure and the main research lines in nanoscience and nanotechnology at the worldwide level. <i>Journal of Nanoparticle Research</i> , 2017, 19, 62. | 0.8 | 32 |
| 6604 | Adsorption mechanism of an antimicrobial peptide on carbonaceous surfaces: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2017, 146, 074703. | 1.2 | 12 |
| 6605 | Schiff Base-Functionalized Multi Walled Carbon Nano Tubes to Immobilization of Palladium Nanoparticles as Heterogeneous and Recyclable Nanocatalyst for Suzuki Reaction in Aqueous Media Under Mild Conditions. <i>Catalysis Letters</i> , 2017, 147, 976-986. | 1.4 | 34 |
| 6606 | Periodicity of band gaps of chiral $\hat{\pm}$ -graphyne nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7919-7922. | 1.3 | 11 |
| 6607 | Promotion of Water Channels for Enhanced Ion Transport in 14 nm Diameter Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11009-11015. | 4.0 | 20 |
| 6608 | Conductive biomaterials for tissue engineering applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 12-26. | 2.9 | 98 |
| 6609 | Evacuated tube solar collector with multifunctional absorber layers. <i>Solar Energy</i> , 2017, 146, 342-350. | 2.9 | 57 |
| 6610 | Sphere-To-Tube Transition toward Nanotube Formation: A Universal Route by Inverse Plateau Rayleigh Instability. <i>ACS Nano</i> , 2017, 11, 2928-2933. | 7.3 | 11 |
| 6611 | Development of fluorescent methods for DNA methyltransferase assay. <i>Methods and Applications in Fluorescence</i> , 2017, 5, 012002. | 1.1 | 15 |
| 6612 | Self-healing Polymer Composites Based on Graphene and Carbon Nanotubes. <i>Springer Series on Polymer and Composite Materials</i> , 2017, , 119-152. | 0.5 | 4 |
| 6613 | Synergistic effect of graphene oxide and carbon nanotubes on sulfonated poly(arylene ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 8224-8232. | 3.8 | 41 |
| 6614 | Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. <i>Nano Energy</i> , 2017, 34, 515-523. | 8.2 | 56 |
| 6615 | Nonlocal postbuckling analysis of graphene sheets with initial imperfection based on first order shear deformation theory. <i>Results in Physics</i> , 2017, 7, 1299-1307. | 2.0 | 6 |
| 6616 | CNT Enabled Co-braided Smart Fabrics: A New Route for Non-invasive, Highly Sensitive & Large-area Monitoring of Composites. <i>Scientific Reports</i> , 2017, 7, 44056. | 1.6 | 28 |
| 6617 | Friction and wear behavior of alumina-based graphene and CNFs composites. <i>Journal of the European Ceramic Society</i> , 2017, 37, 3805-3812. | 2.8 | 31 |
| 6618 | Asymmetric Supercapacitor Electrodes and Devices. <i>Advanced Materials</i> , 2017, 29, 1605336. | 11.1 | 1,021 |
| 6619 | In-situ nitrogen doping in carbon nanotubes using a fluidized bed reactor and hydrogen storage behavior of the doped nanotubes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10047-10056. | 3.8 | 18 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6620 | Ab initio study of aspirin adsorption on single-walled carbon and carbon nitride nanotubes. Physical Chemistry Chemical Physics, 2017, 19, 8076-8081. | 1.3 | 21 |
| 6621 | Absorption behavior of poly(methyl methacrylate) multiwalled carbon nanotube composites: effects of UV irradiation. Physical Chemistry Chemical Physics, 2017, 19, 7359-7369. | 1.3 | 9 |
| 6622 | Mn nanoparticles decorated on the ionic liquid functionalized multiwalled carbon nanotubes as a supercapacitor electrode material. Chemical Engineering Journal, 2017, 316, 928-935. | 6.6 | 23 |
| 6623 | Carbon nanotube thin film strain sensor models assembled using nano- and micro-scale imaging. Computational Mechanics, 2017, 60, 39-49. | 2.2 | 11 |
| 6624 | Mechanics of Crystalline Nanowires: An Experimental Perspective. Applied Mechanics Reviews, 2017, 69, . | 4.5 | 43 |
| 6625 | Photoluminescent Properties of Composites Based on the Liquid Crystal 5CB with Carbon Nanotubes. Journal of Applied Spectroscopy, 2017, 83, 990-995. | 0.3 | 11 |
| 6626 | Evaluation of microstructure and mechanical performance of CNT-reinforced cementitious composites at elevated temperatures. Composites Part A: Applied Science and Manufacturing, 2017, 95, 286-293. | 3.8 | 53 |
| 6627 | Understanding the Dispersive Action of Nanocellulose for Carbon Nanomaterials. Nano Letters, 2017, 17, 1439-1447. | 4.5 | 219 |
| 6628 | Migration of a carbon adatom on a charged single-walled carbon nanotube. Carbon, 2017, 116, 174-180. | 5.4 | 11 |
| 6629 | Pure β -phase formation in polyvinylidene fluoride (PVDF)-carbon nanotube composites. Journal Physics D: Applied Physics, 2017, 50, 163002. | 1.3 | 145 |
| 6630 | Two-component spin-coated Ag/CNT composite films based on a silver heterogeneous nucleation mechanism adhesion-enhanced by mechanical interlocking and chemical grafting. Nanotechnology, 2017, 28, 105607. | 1.3 | 12 |
| 6631 | Data-driven understanding of collective carbon nanotube growth by <i>in situ</i> characterization and nanoscale metrology. Journal of Materials Research, 2017, 32, 153-165. | 1.2 | 13 |
| 6632 | Controlled Synthesis of Ultralong Carbon Nanotubes with Perfect Structures and Extraordinary Properties. Accounts of Chemical Research, 2017, 50, 179-189. | 7.6 | 83 |
| 6633 | Nanotechnologies for Environmental Remediation. , 2017, , . | | 17 |
| 6634 | Adsorption and Desorption Properties of Carbon Nanomaterials, the Potential for Water Treatments and Associated Risks. , 2017, , 137-182. | | 2 |
| 6635 | Nanoelectronics. , 2017, , 35-69. | | 0 |
| 6637 | Prediction of Single-Wall Boron Nanotube Structures and the Effects of Hydrogenation. Journal of Physical Chemistry C, 2017, 121, 5841-5847. | 1.5 | 9 |
| 6638 | Nonvolatile Resistance Effect Modulated by Pulse With Laser Observed in Nano-Carbon Film. IEEE Electron Device Letters, 2017, 38, 560-563. | 2.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6639 | Review "The Beautiful Molecule: 30 Years of C ₆₀ and Its Derivatives. ECS Journal of Solid State Science and Technology, 2017, 6, M3155-M3162. | 0.9 | 61 |
| 6640 | A self-assembled flavin protective coating enhances the oxidative thermal stability of multi-walled carbon nanotubes. Carbon, 2017, 117, 220-227. | 5.4 | 12 |
| 6641 | Nanocomposites of poly(vinylidene fluoride) - Controllable hydroxylated/carboxylated graphene with enhanced dielectric performance for large energy density capacitor. Carbon, 2017, 117, 301-312. | 5.4 | 89 |
| 6642 | Cellulose Nanofibers as Rheology Modifiers and Enhancers of Carbonization Efficiency in Polyacrylonitrile. ACS Sustainable Chemistry and Engineering, 2017, 5, 3296-3304. | 3.2 | 32 |
| 6643 | A Review Featuring Fabrication, Properties, and Application of Polymeric Mixed Matrix Membrane Reinforced with Different Fillers. Polymer-Plastics Technology and Engineering, 2017, 56, 2043-2064. | 1.9 | 13 |
| 6644 | Recent progress in superhydrophobic coatings used for steel protection: A review. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 378-390. | 2.3 | 127 |
| 6645 | Phenalenyl π -Dimer under the External Electric Field: Two-Electron/12-Center Bonding Breaking and Emergence of Electrostatic Interaction. Journal of Physical Chemistry C, 2017, 121, 3765-3770. | 1.5 | 12 |
| 6646 | Carbon Nanotubes Disrupt Iron Homeostasis and Induce Anemia of Inflammation through Inflammatory Pathway as a Secondary Effect Distant to Their Portal Entry. Small, 2017, 13, 1603830. | 5.2 | 23 |
| 6648 | Boosting Bifunctional Oxygen Electrolysis for N-Doped Carbon via Bimetal Addition. Small, 2017, 13, 1604103. | 5.2 | 118 |
| 6649 | Hierarchical Supramolecular Cross-Linking of Polymers for Biomimetic Fracture Energy Dissipating Sacrificial Bonds and Defect Tolerance under Mechanical Loading. ACS Macro Letters, 2017, 6, 210-214. | 2.3 | 27 |
| 6650 | Constructing nanoporous carbon nanotubes/Bi ₂ Te ₃ composite for synchronous regulation of the electrical and thermal performances. Journal of Applied Physics, 2017, 121, . | 1.1 | 14 |
| 6651 | Role of Defects as Exciton Quenching Sites in Carbon Nanotube Photovoltaics. Journal of Physical Chemistry C, 2017, 121, 8310-8318. | 1.5 | 24 |
| 6652 | Construction of photobiocathodes using multi-walled carbon nanotubes and photosystem I. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700017. | 0.8 | 13 |
| 6653 | Microstructures and electrical properties of composite films based on carbon nanotube and para-aramid containing cyano side group. Fibers and Polymers, 2017, 18, 342-348. | 1.1 | 0 |
| 6654 | Investigation of noble metal loading CoWZn electrode for HER. International Journal of Hydrogen Energy, 2017, 42, 23260-23267. | 3.8 | 15 |
| 6655 | Tunable organic PV parallel tandem with ionic gating. Journal of Renewable and Sustainable Energy, 2017, 9, . | 0.8 | 6 |
| 6656 | Nanomaterial-based electrochemical sensors for arsenic - A review. Biosensors and Bioelectronics, 2017, 95, 106-116. | 5.3 | 157 |
| 6657 | Functional hybrid nanostructure materials: Advanced strategies for sensing applications toward volatile organic compounds. Coordination Chemistry Reviews, 2017, 342, 80-105. | 9.5 | 69 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6658 | Fabrication and toughening behavior of carbon nanotube (CNT) scaffold reinforced SiBCN ceramic composites with high CNT loading. <i>Ceramics International</i> , 2017, 43, 9024-9031. | 2.3 | 22 |
| 6659 | Co-doping as a tool for tuning the optical properties of singlewalled carbon nanotubes: A first principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 91, 93-100. | 1.3 | 10 |
| 6660 | Nanostructured functional materials for advanced three-dimensional (3D) solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 167, 121-132. | 3.0 | 19 |
| 6661 | Surface functionalized carbon nanotube with polyvinylidene fluoride: Preparation, characterization, current-voltage and ferroelectric hysteresis behaviour of polymer nanocomposite films. <i>AIP Advances</i> , 2017, 7, . | 0.6 | 24 |
| 6662 | Emerging tellurium nanostructures: controllable synthesis and their applications. <i>Chemical Society Reviews</i> , 2017, 46, 2732-2753. | 18.7 | 186 |
| 6663 | Computational Insights into Materials and Interfaces for Capacitive Energy Storage. <i>Advanced Science</i> , 2017, 4, 1700059. | 5.6 | 176 |
| 6664 | Graphene nanoribbon winding around carbon nanotube. <i>Computational Materials Science</i> , 2017, 135, 99-108. | 1.4 | 29 |
| 6665 | Enhanced resistance of nanocellular silica to dynamic indentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 693, 121-128. | 2.6 | 0 |
| 6666 | Nonlinear responses and stability analysis of viscoelastic nanoplate resting on elastic matrix under 3:1 internal resonances. <i>International Journal of Mechanical Sciences</i> , 2017, 128-129, 94-104. | 3.6 | 20 |
| 6667 | Influence of interwall interaction in double-walled aluminogermanate nanotubes on mechanical properties. <i>Computational Materials Science</i> , 2017, 135, 54-63. | 1.4 | 4 |
| 6668 | The noble gases adsorption on boron-rich boron nitride nanotubes: A theoretical investigation. <i>Superlattices and Microstructures</i> , 2017, 107, 97-103. | 1.4 | 9 |
| 6669 | Wearable carbon nanotube-based fabric sensors for monitoring human physiological performance. <i>Smart Materials and Structures</i> , 2017, 26, 055018. | 1.8 | 57 |
| 6670 | Carbon Surface Modifications by Plasma for Catalyst Support and Electrode Materials Applications. <i>Topics in Catalysis</i> , 2017, 60, 823-830. | 1.3 | 16 |
| 6671 | Graphene nanoribbons (GNRs) by unzipping MWCNTs for the improvement of PMMA microcellular foams. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45182. | 1.3 | 4 |
| 6672 | Carbon Nanotube and Semiconductor Nanorods Hybrids: Preparation, Characterization, and Evaluation of Photocurrent Generation. <i>Langmuir</i> , 2017, 33, 5519-5526. | 1.6 | 5 |
| 6673 | Energy Transfer Kinetics in Photosynthesis as an Inspiration for Improving Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19030-19039. | 4.0 | 6 |
| 6674 | Wettability tailoring of nanotube carpets: morphology-chemistry synergy for hydrophobic-hydrophilic cycling. <i>RSC Advances</i> , 2017, 7, 25265-25275. | 1.7 | 28 |
| 6675 | Spark plasma sintering of graphitized multi-walled carbon nanotube reinforced Ti6Al4V. <i>Materials and Design</i> , 2017, 128, 119-129. | 3.3 | 55 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6676 | DNA-Wrapped Single-Walled Carbon Nanotube Assemblies. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 5302-5308. | 1.8 | 11 |
| 6677 | Magnetism of natural composite of halloysite clay nanotubes $Al_2Si_2O_5(OH)_4$ and amorphous hematite Fe_2O_3 . <i>Materials Characterization</i> , 2017, 129, 179-185. | 1.9 | 11 |
| 6678 | Recent advances in cathode materials for Li-S battery: structure and performance. <i>Rare Metals</i> , 2017, 36, 365-380. | 3.6 | 27 |
| 6679 | ZnPc-MWCNT/sulfonated poly (ether ether ketone) composites for high-k and electrical energy storage applications. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 720-726. | 1.8 | 3 |
| 6680 | Effects of heating time on the growth and behavior of amorphous carbon nanostructures from ferrocene. <i>Materials Research Express</i> , 2017, 4, 055601. | 0.8 | 1 |
| 6681 | Effects of Fe_2O_3 and ZnO nanoparticles on 17β -estradiol adsorption to carbon nanotubes. <i>Chemical Engineering Journal</i> , 2017, 326, 1134-1144. | 6.6 | 33 |
| 6682 | The morphological effect on electronic structure and electrical transport properties of one-dimensional carbon nanostructures. <i>RSC Advances</i> , 2017, 7, 21079-21084. | 1.7 | 2 |
| 6683 | Carbon nanotube capsules enhance the in vivo efficacy of cisplatin. <i>Acta Biomaterialia</i> , 2017, 58, 466-478. | 4.1 | 41 |
| 6684 | High-Power Graphene-Carbon Nanotube Hybrid Supercapacitors. <i>ChemNanoMat</i> , 2017, 3, 436-446. | 1.5 | 39 |
| 6685 | Influence of different functionalization on mechanical and interface behavior of MWCNTs/NBR sealing composites. <i>Materials Research Express</i> , 2017, 4, 045303. | 0.8 | 2 |
| 6686 | Fluorescence-Lifetime Imaging and Super-Resolution Microscopies Shed Light on the Directed and Self-Assembly of Functional Porphyrins onto Carbon Nanotubes and Flat Surfaces. <i>Chemistry - A European Journal</i> , 2017, 23, 9772-9789. | 1.7 | 16 |
| 6687 | Photoluminescence quenching, structures, and photovoltaic properties of ZnO nanostructures decorated plasma grown single walled carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1. | 0.8 | 1 |
| 6688 | Different ligand based monodispersed Pt nanoparticles decorated with rGO as highly active and reusable catalysts for the methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13061-13069. | 3.8 | 95 |
| 6689 | Comparative Study with a Unique Arrangement to Tap Piezoelectric Output to Realize a Self Poled PVDF Based Nanocomposite for Energy Harvesting Applications. <i>ChemistrySelect</i> , 2017, 2, 2774-2782. | 0.7 | 29 |
| 6690 | Electrocatalytic dechlorination of 2,3,5-trichlorophenol on palladium/carbon nanotubes-nafion film/titanium mesh electrode. <i>Environmental Science and Pollution Research</i> , 2017, 24, 14355-14364. | 2.7 | 14 |
| 6691 | The possibility of using C 20 fullerene and graphene as semiconductor segments for detection, and destruction of cyanogen-chloride chemical agent. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 75, 80-84. | 1.3 | 16 |
| 6692 | Perturbation of the pulmonary surfactant monolayer by single-walled carbon nanotubes: a molecular dynamics study. <i>Nanoscale</i> , 2017, 9, 10193-10204. | 2.8 | 41 |
| 6693 | Contrasting effects of engineered carbon nanotubes on plants: a review. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1421-1439. | 1.8 | 85 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6694 | Structural analysis and oxygen reduction reaction activity in bamboo-like nitrogen-doped carbon nanotubes containing localized nitrogen in nodal regions. <i>Carbon</i> , 2017, 123, 99-105. | 5.4 | 14 |
| 6695 | Dielectric relaxation of near-percolated carbon nanofiber polypropylene composites. <i>Physica B: Condensed Matter</i> , 2017, 516, 41-47. | 1.3 | 7 |
| 6696 | The effect of chemical functionalisation on nanoporous energy absorption system. <i>Molecular Simulation</i> , 2017, 43, 1442-1447. | 0.9 | 3 |
| 6697 | CuI heterogenized on thiosemicarbazide modified multi walled carbon nanotubes (thiosemicarbazide@MWCNTs@CuI): Novel heterogeneous and reusable nanocatalyst in the Ullmann coupling reactions. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3676. | 1.7 | 25 |
| 6698 | Synergistic effect of functional carbon nanotubes and graphene oxide on the anti-corrosion performance of epoxy coating. <i>Polymers for Advanced Technologies</i> , 2017, 28, 754-762. | 1.6 | 54 |
| 6699 | Electrospun ZIF-based hierarchical carbon fiber as an efficient electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1211-1220. | 5.2 | 161 |
| 6700 | Comparison of Hydrophilicity and Mechanical Properties of Nanocomposite Membranes with Cellulose Nanocrystals and Carbon Nanotubes. <i>Environmental Science & Technology</i> , 2017, 51, 253-262. | 4.6 | 99 |
| 6701 | Design and application of a composite electrode using molecular wire as the binder. <i>Microchemical Journal</i> , 2017, 131, 15-20. | 2.3 | 0 |
| 6702 | Uniform and perfectly linear current-voltage characteristics of nitrogen-doped armchair graphene nanoribbons for nanowires. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 44-48. | 1.3 | 13 |
| 6703 | Self-assembly Thin Films for Sensing. , 2017, , 141-164. | | 2 |
| 6704 | Welding of 3D-printed carbon nanotube-polymer composites by locally induced microwave heating. <i>Science Advances</i> , 2017, 3, e1700262. | 4.7 | 214 |
| 6705 | Electrochemical Determination of Bisphenol A at Multi-walled Carbon Nanotubes/Poly (Crystal) Tj ETQq1 1 0.784314.rgBT /Oyerlock 10 | 1.3 | 16 |
| 6706 | Biomimetic PEGylation of carbon nanotubes through surface-initiated RAFT polymerization. <i>Materials Science and Engineering C</i> , 2017, 80, 404-410. | 3.8 | 10 |
| 6707 | Electrical and morphological study of carbon nanotubes/polyaniline composite films: A model to explain different tunneling regimes induced by a vertical electric field. <i>Thin Solid Films</i> , 2017, 636, 314-324. | 0.8 | 11 |
| 6708 | Novel impacts of functionalized multi-walled carbon nanotubes in plants: promotion of nodulation and nitrogenase activity in the rhizobium-legume system. <i>Nanoscale</i> , 2017, 9, 9921-9937. | 2.8 | 49 |
| 6709 | Fabrication of single-walled carbon nanohorns incorporated a monolithic column for capillary electrochromatography. <i>Journal of Separation Science</i> , 2017, 40, 3343-3350. | 1.3 | 6 |
| 6710 | Enhanced activity and durability of the oxygen reduction catalysts supported on the surface expanded tubular-type carbon nanofiber. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 192-200. | 10.8 | 5 |
| 6711 | Comparison of nitrogen adsorption and transmission electron microscopy analyses for structural characterization of carbon nanotubes. <i>Applied Surface Science</i> , 2017, 419, 817-825. | 3.1 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6712 | Synergistic effect of glycerol and ionic strength on the rheological behavior of cellulose nanocrystals suspension system. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 1073-1082. | 3.6 | 8 |
| 6713 | Laminar composite structures for high power actuators. <i>Applied Physics Letters</i> , 2017, 110, . | 1.5 | 5 |
| 6714 | Nanohybrid Catalyst based on Carbon Nanotube. <i>Carbon Nanostructures</i> , 2017, , . | 0.1 | 13 |
| 6715 | Optical properties of conductive silver-nanowire films with different nanowire lengths. <i>Nano Research</i> , 2017, 10, 3706-3714. | 5.8 | 24 |
| 6716 | Synthesis of single-walled carbon nanotubes from atomic-layer-deposited Co ₃ O ₄ and Co ₃ O ₄ /Fe ₂ O ₃ catalyst films. <i>Carbon</i> , 2017, 121, 389-398. | 5.4 | 18 |
| 6717 | Gas phase infiltration of carbon nanotubes in Ni Nanofoam via liquid injection chemical vapor deposition. <i>Diamond and Related Materials</i> , 2017, 77, 92-96. | 1.8 | 0 |
| 6718 | Electrochemical sensor for dodecyl gallate determination based on electropolymerized molecularly imprinted polymer. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 180-186. | 4.0 | 30 |
| 6719 | Electrochemical investigation and determination of procaterol hydrochloride on poly(glutamic) carbon electrode. <i>Talanta</i> , 2017, 174, 436-443. | 2.9 | 14 |
| 6720 | Carbon nanofiber-based nanostructures for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13882-13906. | 5.2 | 134 |
| 6721 | Co-production of hydrogen and carbon nanotubes from catalytic pyrolysis of waste plastics on Ni-Fe bimetallic catalyst. <i>Energy Conversion and Management</i> , 2017, 148, 692-700. | 4.4 | 180 |
| 6722 | Vibration analysis of defective graphene sheets using nonlocal elasticity theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 93, 257-264. | 1.3 | 14 |
| 6723 | Graphitic nanocapsules: design, synthesis and bioanalytical applications. <i>Nanoscale</i> , 2017, 9, 10529-10543. | 2.8 | 10 |
| 6724 | Synthesis, characterization and photoluminescence properties of tetra(aminophenyl) porphyrin covalently linked to multi-walled carbon nanotubes. <i>Journal of Chemical Sciences</i> , 2017, 129, 699-706. | 0.7 | 19 |
| 6725 | Effects of mechanical deformation on electronic transport through multiwall carbon nanotubes. <i>International Journal of Solids and Structures</i> , 2017, 122-123, 33-41. | 1.3 | 3 |
| 6726 | Dynamic piezoresistive response of hybrid nanocomposites. <i>Proceedings of SPIE</i> , 2017, , . | 0.8 | 2 |
| 6727 | Enhancement of hydrogen sorption on metal(Ni, Rh, Pd) functionalized carbon nanotubes: a DFT study. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 422-429. | 1.3 | 7 |
| 6728 | Rapid curing and additive manufacturing of thermoset systems using scanning microwave heating of carbon nanotube/epoxy composites. <i>Carbon</i> , 2017, 120, 447-453. | 5.4 | 61 |
| 6729 | Statistical modelling and simulation of nanohybrid shish-kebab architecture of PE-b-PEG copolymers and carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13348-13360. | 1.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6730 | Laser-induced exothermic bonding of carbon fiber/Al composites and TiAl alloys. <i>Materials and Design</i> , 2017, 126, 197-206. | 3.3 | 14 |
| 6731 | Thermal transport barrier in carbon nanotube array nano-thermal interface materials. <i>Carbon</i> , 2017, 120, 128-136. | 5.4 | 57 |
| 6732 | General Oriented Formation of Carbon Nanotubes from Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8212-8221. | 6.6 | 777 |
| 6733 | Surface patterning of single-walled carbon nanotubes enhances their perturbation on a pulmonary surfactant monolayer: frustrated translocation and bilayer vesiculation. <i>RSC Advances</i> , 2017, 7, 20851-20864. | 1.7 | 10 |
| 6734 | Enhanced NADH Oxidation Using Polytyramine/Carbon Nanotube Modified Electrodes for Ethanol Biosensing. <i>Electroanalysis</i> , 2017, 29, 1985-1993. | 1.5 | 13 |
| 6735 | Poly ionic liquid-based nano composites for smart electro-mechanical devices. <i>Proceedings of SPIE</i> , 2017, , . | 0.8 | 0 |
| 6736 | Carbon-Nanotube-Templated, Sputter-Deposited, Flexible Superconducting NbN Nanowire Yarns. <i>Advanced Functional Materials</i> , 2017, 27, 1701108. | 7.8 | 12 |
| 6737 | Nanohybrid shish-kebab supramolecular structure of single-walled carbon nanotubes/ N , N -diethyl perylene tetracarboxylic diimide. <i>Composites Science and Technology</i> , 2017, 148, 43-48. | 3.8 | 6 |
| 6738 | Effect of co-doping on dielectric function spectra and static refractive indices of single-walled carbon nanotubes: A first principles study. <i>Canadian Journal of Physics</i> , 2017, 95, 1194-1199. | 0.4 | 4 |
| 6739 | CMOS micro-heater design for direct integration of carbon nanotubes. <i>Microelectronics Reliability</i> , 2017, 79, 517-525. | 0.9 | 10 |
| 6740 | Horizontally aligned carbon nanotube arrays: growth mechanism, controlled synthesis, characterization, properties and applications. <i>Chemical Society Reviews</i> , 2017, 46, 3661-3715. | 18.7 | 153 |
| 6741 | Bio-based carbonaceous composite materials from epoxidised linseed oil, bio-derived curing agent and starch with controllable functionality. <i>RSC Advances</i> , 2017, 7, 24282-24290. | 1.7 | 0 |
| 6742 | Quantum chemical molecular dynamics simulation of carbon nanotube-graphene fusion. <i>Molecular Simulation</i> , 2017, 43, 1269-1276. | 0.9 | 5 |
| 6743 | Nanostructured Materials for Next-Generation Energy Storage and Conversion. , 2017, , . | | 7 |
| 6744 | Carbon Nanotubes and Graphene for Microwave/RF Electronics Packaging. , 2017, , 147-167. | | 2 |
| 6745 | In situ synthesis of semiconducting single-walled carbon nanotubes by modified arc discharging method. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1. | 1.1 | 1 |
| 6746 | Fabrication of Solid-State Gas Sensors by Drawing: An Undergraduate and High School Introduction to Functional Nanomaterials and Chemical Detection. <i>Journal of Chemical Education</i> , 2017, 94, 1933-1938. | 1.1 | 9 |
| 6747 | Bound and unbound humic acids perform different roles in the aggregation and deposition of multi-walled carbon nanotubes. <i>Science of the Total Environment</i> , 2017, 586, 738-745. | 3.9 | 20 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6749 | High-modulus and strength carbon nanotube fibers using molecular cross-linking. <i>Carbon</i> , 2017, 118, 413-421. | 5.4 | 83 |
| 6750 | Excluded Volume Approach for Ultrathin Carbon Nanotube Network Stabilization: A Mesoscopic Distinct Element Method Study. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13611-13618. | 4.0 | 13 |
| 6751 | Fabrication of durable and flexible single-walled carbon nanotube transparent conductive films. <i>RSC Advances</i> , 2017, 7, 19267-19272. | 1.7 | 19 |
| 6752 | Nanoemitters and innate immunity: the role of surfactants and bio-coronas in myeloperoxidase-catalyzed oxidation of pristine single-walled carbon nanotubes. <i>Nanoscale</i> , 2017, 9, 5948-5956. | 2.8 | 9 |
| 6753 | Nanoscale mechanisms of CNT growth and etching in plasma environment. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 184001. | 1.3 | 14 |
| 6754 | Carbon black functionalized stretchable conductive fabrics for wearable heating applications. <i>RSC Advances</i> , 2017, 7, 19174-19180. | 1.7 | 68 |
| 6755 | Molecular dynamics simulation aiming at interfacial characteristics of polymer chains on nanotubes with different layers. <i>AIP Conference Proceedings</i> , 2017, , . | 0.3 | 0 |
| 6756 | Energy coupling across low-dimensional contact interfaces at the atomic scale. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 827-844. | 2.5 | 28 |
| 6757 | Temperature-dependent surface nanomechanical properties of a thermoplastic nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2017, 494, 204-214. | 5.0 | 15 |
| 6758 | High-Density Carbon Nanotube Wet-Laid Buckypapers with Enhanced Strength and Conductivity Using a High-Pressure Homogenization Process. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 438-443. | 1.0 | 3 |
| 6759 | Pyrene-functionalized PAEKs prepared from C-H borylation and Suzuki coupling reactions for the dispersion of single-walled carbon nanotubes. <i>Composites Science and Technology</i> , 2017, 143, 82-88. | 3.8 | 15 |
| 6760 | Vertically-Aligned Carbon Nanotube Arrays as Binder-Free Supports for Nickel Cobaltite based Faradaic Supercapacitor Electrodes. <i>Electrochimica Acta</i> , 2017, 236, 408-416. | 2.6 | 13 |
| 6761 | Functionalization of super-aligned carbon nanotube film using hydrogen peroxide solution and its application in copper electrodeposition. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 405-412. | 5.0 | 5 |
| 6762 | Titanium-Oxo Cluster Based Precise Assembly for Multidimensional Materials. <i>Chemistry of Materials</i> , 2017, 29, 2681-2684. | 3.2 | 50 |
| 6763 | Thermo-mechanical vibration of a single-layer graphene sheet and a single-walled carbon nanotube on a substrate. <i>Journal of Applied Physics</i> , 2017, 121, . | 1.1 | 7 |
| 6765 | Enhanced dielectric properties of polymer composite films induced by encapsulated MWCNTs with a one core-two shell structure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 948-956. | 2.4 | 11 |
| 6766 | Vinyl Ester (BisGMA)/SEBS/f-MWCNTs Based Nanocomposites: Preparation and Applications. <i>Advanced Structured Materials</i> , 2017, , 177-197. | 0.3 | 0 |
| 6767 | General Background and Introduction. <i>SpringerBriefs in Materials</i> , 2017, , 1-10. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6768 | Multiscale mechanics of the lateral pressure effect on enhancing the load transfer between polymer coated CNTs. <i>Nanoscale</i> , 2017, 9, 5565-5576. | 2.8 | 7 |
| 6769 | Electrical analysis of single-walled carbon nanotube as gigahertz on-chip interconnects. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2017, 18, 262-271. | 1.5 | 0 |
| 6770 | Designed formation of hollow particle-based nitrogen-doped carbon nanofibers for high-performance supercapacitors. <i>Energy and Environmental Science</i> , 2017, 10, 1777-1783. | 15.6 | 782 |
| 6771 | Finite Element Evaluation of Effective Thermal Conductivity of Short Carbon Nano Tubes: A Comparative Study. <i>Defect and Diffusion Forum</i> , 0, 372, 208-214. | 0.4 | 5 |
| 6772 | Preparation and properties of dual-matrix carbon nanotube-reinforced aluminum composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 99, 84-93. | 3.8 | 71 |
| 6773 | Recent advances in controlling the internal and external properties of self-assembling cyclic peptide nanotubes and dimers. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4490-4505. | 1.5 | 66 |
| 6774 | Fabrication of branched nanostructures for CNT@Ag nano-hybrids: application in CO ₂ gas detection. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4226-4235. | 2.7 | 20 |
| 6775 | Modification of multi-walled carbon nanotubes with 1,4-diaminobutane dihydrochloride through heating at reflux. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 348-354. | 1.0 | 3 |
| 6776 | Energy Harvesting: Breakthrough Technologies Through Polymer Composites. <i>Springer Series on Polymer and Composite Materials</i> , 2017, , 1-42. | 0.5 | 1 |
| 6777 | The risk assessment of potentially hazardous carbon nanomaterials for small scale operations. <i>Applied Materials Today</i> , 2017, 7, 104-111. | 2.3 | 6 |
| 6778 | Rigidity of lamellar nanosheets. <i>Soft Matter</i> , 2017, 13, 2492-2498. | 1.2 | 3 |
| 6779 | Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017, 11, 2313-2381. | 7.3 | 976 |
| 6780 | Molecular dynamics study of the interfacial thermal conductance of multi-walled carbon nanotubes and van der Waals force induced deformation. <i>Journal of Applied Physics</i> , 2017, 121, 054302. | 1.1 | 10 |
| 6781 | Rubber Based Bionanocomposites. <i>Advanced Structured Materials</i> , 2017, , . | 0.3 | 2 |
| 6782 | Charge-induced electrochemical actuation of armchair carbon nanotube bundles. <i>Carbon</i> , 2017, 118, 278-284. | 5.4 | 12 |
| 6783 | Carbon nanotube thin film strain sensors: comparison between experimental tests and numerical simulations. <i>Nanotechnology</i> , 2017, 28, 155502. | 1.3 | 22 |
| 6784 | Functionalized single-walled carbon nanotubes: cellular uptake, biodistribution and applications in drug delivery. <i>International Journal of Pharmaceutics</i> , 2017, 524, 41-54. | 2.6 | 113 |
| 6785 | Manufacture and application of lignin-based carbon fibers (LCFs) and lignin-based carbon nanofibers (LCNFs). <i>Green Chemistry</i> , 2017, 19, 1794-1827. | 4.6 | 216 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6786 | Self-Stiffening Behavior of Reinforced Carbon Nanotubes Spheres. <i>Advanced Engineering Materials</i> , 2017, 19, 1600756. | 1.6 | 8 |
| 6787 | Flexible Sensing Electronics for Wearable/Attachable Health Monitoring. <i>Small</i> , 2017, 13, 1602790. | 5.2 | 690 |
| 6788 | A truncated-cone carbon nanotube cold-cathode electron gun. <i>Carbon</i> , 2017, 120, 374-379. | 5.4 | 23 |
| 6789 | Electrochemical determination of an anti-hyperlipidemic drug pitavastatin at electrochemical sensor based on electrochemically pre-treated polymer film modified GCE. <i>Journal of Pharmaceutical Analysis</i> , 2017, 7, 258-264. | 2.4 | 20 |
| 6790 | Ultrashort Single-Walled Carbon Nanotubes Insert into a Pulmonary Surfactant Monolayer via Self-Rotation: Poration and Mechanical Inhibition. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2797-2807. | 1.2 | 15 |
| 6791 | Separation of metal ions via capillary electrophoresis using a pseudostationary phase microfunctionalized with carbon nanotubes. <i>Mikrochimica Acta</i> , 2017, 184, 1747-1754. | 2.5 | 12 |
| 6792 | Wide dynamic range enrichment method of semiconducting single-walled carbon nanotubes with weak field centrifugation. <i>Scientific Reports</i> , 2017, 7, 44812. | 1.6 | 3 |
| 6793 | Strings of Porous Carbon Polyhedrons as Self-Standing Cathode Host for High-Energy-Density Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2017, 129, 6272-6276. | 1.6 | 37 |
| 6794 | Strings of Porous Carbon Polyhedrons as Self-Standing Cathode Host for High-Energy-Density Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6176-6180. | 7.2 | 153 |
| 6795 | <i>Carbon Materials</i> . , 2017, , 429-462. | | 2 |
| 6796 | Separation and optical identification of semiconducting and metallic single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600659. | 0.7 | 18 |
| 6797 | Electron transport in HBr adsorbed boron doped carbon nanotube. <i>Chemical Physics Letters</i> , 2017, 667, 199-205. | 1.2 | 5 |
| 6798 | Hierarchical porous carbon with ordered straight micro-channels templated by continuous filament glass fiber arrays for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1516-1525. | 5.2 | 62 |
| 6799 | Efficient and Robust Reactions for Polyethylene Covalently Grafted Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600449. | 1.1 | 11 |
| 6800 | Large-area printed supercapacitor technology for low-cost domestic green energy storage. <i>Energy</i> , 2017, 118, 1313-1321. | 4.5 | 58 |
| 6801 | Conductive Polymer-Coated Carbon Nanotubes To Construct Stretchable and Transparent Electrochemical Sensors. <i>Analytical Chemistry</i> , 2017, 89, 2032-2038. | 3.2 | 84 |
| 6802 | MoS ₂ /Carbon Nanotube Core-Shell Nanocomposites for Enhanced Nonlinear Optical Performance. <i>Chemistry - A European Journal</i> , 2017, 23, 3321-3327. | 1.7 | 57 |
| 6803 | Recent advances in vegetable oil-based polymers and their composites. <i>Progress in Polymer Science</i> , 2017, 71, 91-143. | 11.8 | 497 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6804 | Towards highly stable aqueous dispersions of multi-walled carbon nanotubes: the effect of oxygen plasma functionalization. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 255-264. | 5.0 | 66 |
| 6805 | Electrochemical Investigation of Adsorption of Single-Wall Carbon Nanotubes at a Liquid/Liquid Interface. <i>ChemistryOpen</i> , 2017, 6, 57-63. | 0.9 | 6 |
| 6806 | Atomic layer deposition of Al ₂ O ₃ catalysts for narrow diameter distributed single-walled carbon nanotube arrays growth. <i>Carbon</i> , 2017, 114, 224-229. | 5.4 | 3 |
| 6807 | Nanoparticles for radiooncology: Mission, vision, challenges. <i>Biomaterials</i> , 2017, 120, 155-184. | 5.7 | 87 |
| 6808 | Inter-allotropic transformations in the heterogeneous carbon nanotube networks. <i>Nanoscale</i> , 2017, 9, 1014-1021. | 2.8 | 2 |
| 6809 | On-Surface Synthesis and Characterization of Honeycombene Oligophenylene Macrocycles. <i>ACS Nano</i> , 2017, 11, 134-143. | 7.3 | 39 |
| 6810 | Poly(3,4-ethylenedioxythiophene) doped with various carbon-based materials as counter electrodes for dye sensitized solar cells. <i>Materials and Design</i> , 2017, 136, 249-257. | 3.3 | 21 |
| 6811 | Conductive network formation and destruction in polypropylene/carbon nanotube composites via crystal control using supercritical carbon dioxide. <i>Polymer</i> , 2017, 129, 179-188. | 1.8 | 53 |
| 6812 | Applications of conducting polymer composites to electrochemical sensors: A review. <i>Applied Materials Today</i> , 2017, 9, 419-433. | 2.3 | 394 |
| 6813 | New Details to Relaxation Dynamics of Dielectric Composite Materials Comprising Longitudinally Opened Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22995-23001. | 1.5 | 9 |
| 6814 | Semi-conducting single-walled carbon nanotubes are detrimental when compared to metallic single-walled carbon nanotubes for electrochemical applications. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27320-27325. | 1.3 | 8 |
| 6815 | Electrical behaviour of carbon nanotubes under low-energy proton irradiation. <i>Journal of Nuclear Materials</i> , 2017, 495, 299-305. | 1.3 | 8 |
| 6816 | Mechanically Robust Magnetic Carbon Nanotube Papers Prepared with CoFe ₂ O ₄ Nanoparticles for Electromagnetic Interference Shielding and Magnetomechanical Actuation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40628-40637. | 4.0 | 41 |
| 6817 | Chromium carbide/Carbon Nanotube Hybrid Structure Assisted Copper Composites with Low Temperature Coefficient of Resistance. <i>Scientific Reports</i> , 2017, 7, 14943. | 1.6 | 13 |
| 6818 | Hydroxyapatite composites with multiwalled carbon nanotubes. <i>Adsorption Science and Technology</i> , 2017, 35, 534-544. | 1.5 | 10 |
| 6819 | Effect of high-intensity sonication on the dispersion of carbon-based nanofilaments in cementitious composites, and its impact on mechanical performance. <i>Materials and Design</i> , 2017, 136, 223-237. | 3.3 | 15 |
| 6820 | Tunnel-type $\hat{\Gamma}^2$ -FeOOH cathode material for high rate sodium storage via a new conversion reaction. <i>Nano Energy</i> , 2017, 41, 687-696. | 8.2 | 41 |
| 6821 | Synthesis and comparison of different spinel ferrites and their catalytic activity during chemical vapor deposition of polymorphic nanocarbons. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 441-451. | 2.7 | 17 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6822 | Nanofabrication of mechano-bactericidal surfaces. <i>Nanoscale</i> , 2017, 9, 16564-16585. | 2.8 | 91 |
| 6823 | Solar Thermal Collector With Multifunctional Absorber Layers. , 2017, , . | | 0 |
| 6824 | Hydrodynamic phonon drift and second sound in a (20,20) single-wall carbon nanotube. <i>Physical Review B</i> , 2017, 95, . | 1.1 | 47 |
| 6825 | Green Synthesized Gold Nanoparticles for Future Biomedical Applications. , 2017, , 359-393. | | 11 |
| 6826 | Fluidized bed chemical vapor deposition of copper nanoparticles on multi-walled carbon nanotubes. <i>Surface and Coatings Technology</i> , 2017, 331, 129-136. | 2.2 | 12 |
| 6827 | High Performance Fibers from Carbon Nanotubes: Synthesis, Characterization, and Applications in Compositesâ€”A Review. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12407-12437. | 1.8 | 74 |
| 6828 | A research of the influence of the content and purification of CNTs on the property of composites. <i>Integrated Ferroelectrics</i> , 2017, 180, 1-11. | 0.3 | 3 |
| 6829 | Catalyst-Free Vapor Phase Growth of Ultralong SnSe Single-Crystalline Nanowires. <i>Crystal Growth and Design</i> , 2017, 17, 6163-6168. | 1.4 | 13 |
| 6830 | A Density Functional Theory Study of New Boron Nanotubes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 1145-1150. | 0.7 | 1 |
| 6831 | Electrospun carbon nanofibers containing Co-TiC nanoparticles-like superficial protrusions as a catalyst for H ₂ gas production from ammonia borane complex. <i>Ceramics International</i> , 2017, 43, 15735-15742. | 2.3 | 22 |
| 6832 | Carbonaceous-TiO ₂ nanomaterials for photocatalytic degradation of pollutants: A review. <i>Ceramics International</i> , 2017, 43, 14552-14571. | 2.3 | 288 |
| 6833 | Effects of aligned magnetic field and CNTs in two different base fluids over a moving slip surface. <i>Journal of Molecular Liquids</i> , 2017, 243, 682-688. | 2.3 | 61 |
| 6834 | Electronic transport properties of single-wall boron nanotubes. <i>Chinese Physics B</i> , 2017, 26, 087310. | 0.7 | 4 |
| 6835 | Multifunctional Yolkâ€”Shell Nanostructure as a Superquencher for Fluorescent Analysis of Potassium Ion Using Guanine-Rich Oligonucleotides. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30406-30413. | 4.0 | 16 |
| 6836 | Special morphology and its role in mechanical enhancement of linear lowâ€”density polyethylene/multiwalled carbon nanotubes composites. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45525. | 1.3 | 5 |
| 6837 | Rhodium Nanoparticles Loaded on Carbonâ€”Wrapped Fe ₃ O ₄ Sphere: an Efficient, Stable and Magnetically Recoverable Catalyst for the Catalytic Transfer Hydrogenation of Nitroarenes in Water. <i>ChemistrySelect</i> , 2017, 2, 6762-6766. | 0.7 | 5 |
| 6838 | Waferâ€”Scale Fabrication of Suspended Singleâ€”Walled Carbon Nanotube Arrays by Silver Liquid Dynamics. <i>Small</i> , 2017, 13, 1701218. | 5.2 | 16 |
| 6839 | Investigation of microcombing parameters in enhancing the properties of carbon nanotube yarns. <i>Materials and Design</i> , 2017, 134, 181-187. | 3.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6840 | Low temperature growth of carbon nanotubes with aligned multiwalls by microwave plasma-CVD. AIP Conference Proceedings, 2017, , . | 0.3 | 5 |
| 6841 | Carbon Fibers and Their Thermal Transporting Properties. , 2017, , 135-184. | | 8 |
| 6842 | New insights into the spectral, thermal and morphological analysis of time dependent structural changes during open end functionalization of single walled carbon nanotubes. New Journal of Chemistry, 2017, 41, 12159-12171. | 1.4 | 12 |
| 6843 | Autonomous self-healing multiwalled carbon nanotube nanocomposites with piezoresistive effect. RSC Advances, 2017, 7, 20422-20429. | 1.7 | 22 |
| 6844 | Co-production of hydrogen and carbon nanotubes from the decomposition/reforming of biomass-derived organics over Ni/Al ₂ O ₃ catalyst: Performance of different compounds. Fuel, 2017, 210, 307-314. | 3.4 | 50 |
| 6845 | In-situ characterization of microstructural changes in a carbon nanotube sheet under sustained load. Materials and Design, 2017, 134, 494-501. | 3.3 | 3 |
| 6846 | Experimental and modeling analysis of mechanical-electrical behaviors of polypropylene composites filled with graphite and MWCNT fillers. Polymer Testing, 2017, 63, 467-474. | 2.3 | 113 |
| 6847 | Enhanced thermal conductivity and mechanical properties of polyurethane composites with the introduction of thermally annealed carbon nanotubes. Macromolecular Research, 2017, 25, 1015-1021. | 1.0 | 12 |
| 6848 | Plants and Carbon Nanotubes (CNTs) Interface: Present Status and Future Prospects. , 2017, , 317-340. | | 12 |
| 6849 | Ab initio investigation of structure, spectrum, aromaticity and electronic properties of C ₁₀ carbon cluster. Computational and Theoretical Chemistry, 2017, 1118, 94-106. | 1.1 | 8 |
| 6850 | Electron beam irradiation induced multi-walled carbon nanotubes fusion. , 2017, , . | | 0 |
| 6851 | Design and Performance Analysis of Depletion-Mode InSb Quantum-Well Field-Effect Transistor for Logic Applications. Journal of Molecular and Engineering Materials, 2017, 05, 1750006. | 0.9 | 1 |
| 6852 | A Superhydrophobic Smart Coating for Flexible and Wearable Sensing Electronics. Advanced Materials, 2017, 29, 1702517. | 11.1 | 348 |
| 6853 | Sodium Hypochlorite and Sodium Bromide Individualized and Stabilized Carbon Nanotubes in Water. Langmuir, 2017, 33, 10868-10876. | 1.6 | 5 |
| 6854 | Synthesis, characterization and adsorption properties of Fe ₃ O ₄ /MWCNT magnetic nanocomposites. Materials Today: Proceedings, 2017, 4, 6567-6575. | 0.9 | 22 |
| 6855 | Carbon nanotubes in microfluidic lab-on-a-chip technology: current trends and future perspectives. Microfluidics and Nanofluidics, 2017, 21, 1. | 1.0 | 36 |
| 6856 | Synergistically assembled MWCNT/graphene foam with highly efficient microwave absorption in both C and X bands. Carbon, 2017, 124, 506-514. | 5.4 | 297 |
| 6857 | Metal-free carbon as a catalyst for oxidative coupling: solvent-enhanced poly-coupling with regioselectivity. Green Chemistry, 2017, 19, 4533-4537. | 4.6 | 20 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 6858 | Spectroscopic investigation confirms retaining the pristine nature of single-walled carbon nanotubes on dissolution in aniline. <i>Frontiers of Materials Science</i> , 2017, 11, 276-283. | 1.1 | 0 |
| 6859 | Simulating Multiwalled Carbon Nanotube Transport in Surface Water Systems Using the Water Quality Analysis Simulation Program (WASP). <i>Environmental Science & Technology</i> , 2017, 51, 11174-11184. | 4.6 | 30 |
| 6860 | Bacteria as Bio-Template for 3D Carbon Nanotube Architectures. <i>Scientific Reports</i> , 2017, 7, 9855. | 1.6 | 21 |
| 6861 | Exploring the upper limit of single-walled carbon nanotube purity by multiple-cycle aqueous two-phase separation. <i>Nanoscale</i> , 2017, 9, 11640-11646. | 2.8 | 28 |
| 6862 | Engineering Molecular Recognition with Bio-mimetic Polymers on Single Walled Carbon Nanotubes. <i>Journal of Visualized Experiments</i> , 2017, , . | 0.2 | 9 |
| 6863 | Recent developments of post-modification of biochar for electrochemical energy storage. <i>Bioresource Technology</i> , 2017, 246, 224-233. | 4.8 | 160 |
| 6864 | Developmental toxicity of oxidized multi-walled carbon nanotubes on <i>Artemia salina</i> cysts and larvae: Uptake, accumulation, excretion and toxic responses. <i>Environmental Pollution</i> , 2017, 229, 679-687. | 3.7 | 18 |
| 6865 | Investigation of the dispersion behavior of fluorinated MWCNTs in various solvents. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21565-21574. | 1.3 | 17 |
| 6866 | Iron-Oxide-Filled Carbon Nanotubes. , 2017, , 293-313. | | 1 |
| 6867 | Cost-effective synthesis of bamboo-structure carbon nanotubes from coal for reversible lithium storage. <i>RSC Advances</i> , 2017, 7, 34770-34775. | 1.7 | 37 |
| 6868 | Superb electromagnetic wave-absorbing composites based on large-scale graphene and carbon nanotube films. <i>Scientific Reports</i> , 2017, 7, 2349. | 1.6 | 51 |
| 6869 | Dispersion of single-walled carbon nanotubes using nucleobase-containing poly(acrylamide) polymers. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2611-2617. | 2.5 | 7 |
| 6870 | Synthesis and characterization of iron-cobalt (FeCo) alloy nanoparticles supported on carbon. <i>Journal of Alloys and Compounds</i> , 2017, 725, 1210-1216. | 2.8 | 29 |
| 6871 | Three-dimensional processing maps and microstructural evolution of a CNT-reinforced Al-Cu-Mg nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 425-437. | 2.6 | 24 |
| 6872 | Crosslinked chitosan nanoparticle-anchored magnetic multi-wall carbon nanotubes: a bio-nanoreactor with extremely high activity toward click-multi-component reactions. <i>New Journal of Chemistry</i> , 2017, 41, 8469-8481. | 1.4 | 37 |
| 6873 | Fabrication of 3D Carbon Microelectromechanical Systems (C-MEMS). <i>Journal of Visualized Experiments</i> , 2017, , . | 0.2 | 5 |
| 6874 | Band-Gap Opening in Metallic Single-Walled Carbon Nanotubes by Encapsulation of an Organic Salt. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12240-12244. | 7.2 | 22 |
| 6875 | Durability performance of rubberized mortar and concrete with NaOH-Solution treated rubber particles. <i>Construction and Building Materials</i> , 2017, 153, 496-505. | 3.2 | 136 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6876 | Nanoparticle-Based Immunochemical Biosensors and Assays: Recent Advances and Challenges. <i>Chemical Reviews</i> , 2017, 117, 9973-10042. | 23.0 | 518 |
| 6877 | Molecular dynamics investigation of the physisorption and interfacial characteristics of NBR chains on carbon nanotubes with different characteristics. <i>AIP Advances</i> , 2017, 7, . | 0.6 | 2 |
| 6878 | Structural features of iron-containing particles inside carbon nanotubes. <i>Materials Research Express</i> , 2017, 4, 075053. | 0.8 | 0 |
| 6879 | Observation of magnetism in La _{0.7} Sr _{0.3} MnO ₃ "graphene nanoribbons complex: a probable magnetoelectronic material study. <i>Materials Research Express</i> , 2017, 4, 075050. | 0.8 | 3 |
| 6880 | Electrochemical Sensor for Square Wave Voltammetric Determination of Clozapine by Glassy Carbon Electrode Modified by WO ₃ Nanoparticles. <i>IEEE Sensors Journal</i> , 2017, 17, 6069-6076. | 2.4 | 10 |
| 6881 | Crystal Rainbows. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2017, , 25-72. | 0.4 | 1 |
| 6882 | Rainbows in Proton Channeling in Silicon Crystals. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2017, , 73-118. | 0.4 | 0 |
| 6883 | Rainbows with Protons and Carbon Nanotubes. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2017, , 119-152. | 0.4 | 0 |
| 6884 | Rainbows with Positrons and Carbon Nanotubes. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2017, , 153-178. | 0.4 | 0 |
| 6885 | Interface Optimization and Mechanical Properties of Cu-coated Carbon Fiber Cloth/Titanium Alloy Composite. <i>Rare Metal Materials and Engineering</i> , 2017, 46, 869-875. | 0.8 | 5 |
| 6886 | Synthesis of Ag/CNT composite films on photo-grafted polyimide substrate by two component spin-spray deposition. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 56, 355-363. | 2.9 | 10 |
| 6887 | Coating carbon nanotubes with humic acid using an eco-friendly mechanochemical method: Application for Cu(II) ions removal from water and aquatic ecotoxicity. <i>Science of the Total Environment</i> , 2017, 607-608, 1479-1486. | 3.9 | 27 |
| 6888 | Thermal and dielectric characterization of multi-walled carbon nanotubes~thermoplastic polyurethanes composites. <i>Polymer Science - Series A</i> , 2017, 59, 543-553. | 0.4 | 0 |
| 6889 | Carbon Nanotubes~Polyurethane Vitrimers Nanocomposites with the Ability of Surface Welding Controlled by Heat and Near-Infrared Light. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700265. | 1.1 | 26 |
| 6890 | Multi-walled Carbon Nanotubes Reduce Toxicity of Diphenhydramine to <i>Ceriodaphnia dubia</i> in Water and Sediment Exposures. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017, 99, 321-327. | 1.3 | 4 |
| 6891 | Effective thermal transport properties in multiphase biological systems containing carbon nanomaterials. <i>RSC Advances</i> , 2017, 7, 13615-13622. | 1.7 | 18 |
| 6892 | Adhesion of single- and multi-walled carbon nanotubes to silicon substrate: atomistic simulations and continuum analysis. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 395303. | 1.3 | 12 |
| 6893 | Palladium Stabilized by Amino-Vinyl Silica Functionalized Magnetic Carbon Nanotube: Application in Suzuki~Miyaura and Heck~Mizoroki Coupling Reactions. <i>Catalysis Letters</i> , 2017, 147, 2674-2687. | 1.4 | 30 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6894 | Extracting the inner wall from nested double-walled carbon nanotube by platinum nanowire: molecular dynamics simulations. <i>RSC Advances</i> , 2017, 7, 39480-39489. | 1.7 | 6 |
| 6895 | Electronic Muscles and Skins: A Review of Soft Sensors and Actuators. <i>Chemical Reviews</i> , 2017, 117, 11239-11268. | 23.0 | 418 |
| 6896 | Bandâ€‘Gap Opening in Metallic Singleâ€‘Walled Carbon Nanotubes by Encapsulation of an Organic Salt. <i>Angewandte Chemie</i> , 2017, 129, 12408-12412. | 1.6 | 0 |
| 6897 | Lubricating performance of carbon nanotubes in internal combustion engines â€‘ engine test results for CNT enriched oil. <i>International Journal of Automotive Technology</i> , 2017, 18, 1047-1059. | 0.7 | 23 |
| 6898 | Preparation and Application of the Composite from Alginate. , 2017, , 341-375. | | 1 |
| 6899 | CNT-decellularized cartilage hybrids for tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 065008. | 1.7 | 17 |
| 6900 | Positron emission tomography (PET) guided glioblastoma targeting by a fullerene-based nanoplatform with fast renal clearance. <i>Acta Biomaterialia</i> , 2017, 61, 193-203. | 4.1 | 23 |
| 6901 | Large-Scale Fabrication of Suspended, Aligned, and Strained Single-Walled Carbon Nanotube Networks. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28576-28580. | 1.5 | 3 |
| 6903 | Preparation and flash memory performance based on fluoreneâ€‘triphenylamine copolymer (PFâ€‘TPA)/MWCNTs. <i>RSC Advances</i> , 2017, 7, 54431-54440. | 1.7 | 13 |
| 6905 | Recent Developments in Single-Walled Carbon Nanotube Thin Films Fabricated by Dry Floating Catalyst Chemical Vapor Deposition. <i>Topics in Current Chemistry</i> , 2017, 375, 90. | 3.0 | 40 |
| 6906 | Assembly of carbon nanotubes into microparticles with tunable morphologies using droplets in a non-equilibrium state. <i>RSC Advances</i> , 2017, 7, 17773-17780. | 1.7 | 6 |
| 6907 | An X-ray spectroscopy study of CdS nanoparticles formed by the Langmuirâ€‘Blodgett technique on the surface of carbon nanotube arrays. <i>Journal of Structural Chemistry</i> , 2017, 58, 876-884. | 0.3 | 3 |
| 6908 | Natural Carbonized Sugar as a Low-Temperature Ammonia Sensor Material: Experimental, Theoretical, and Computational Studies. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43051-43060. | 4.0 | 32 |
| 6909 | Synthesis of Nitrogen Doped Single Walled Carbon Nanotubes With Caffeine. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700364. | 0.7 | 2 |
| 6910 | Single-Walled Carbon Nanotube Sensor Concepts. <i>Springer Handbooks</i> , 2017, , 431-456. | 0.3 | 1 |
| 6911 | Nanorobotics. <i>Springer Handbooks</i> , 2017, , 559-584. | 0.3 | 0 |
| 6912 | Printed Graphene-Based Strain Sensors for Structural Health Monitoring. , 2017, , . | | 3 |
| 6913 | Metal Oxideâ€‘Carbon Hybrid Materials for Application in Supercapacitors. , 2017, , 193-218. | | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6914 | Single-Walled Carbon Nanotubes Probed with Insulator-Based Dielectrophoresis. <i>Analytical Chemistry</i> , 2017, 89, 13235-13244. | 3.2 | 29 |
| 6915 | Metalâ€“Semiconductor Transition of Single-Wall Armchair Boron Nanotubes Induced by Atomic Depression. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26096-26101. | 1.5 | 13 |
| 6916 | Preparation of cellulose/multi-walled carbon nanotube composite membranes with enhanced conductive property regulated by ionic liquids. <i>Fibers and Polymers</i> , 2017, 18, 1780-1789. | 1.1 | 9 |
| 6917 | Alkaline-doped multiwall carbon nanotubes as efficient catalysts for the Knoevenagel condensation. <i>Molecular Catalysis</i> , 2017, 443, 101-109. | 1.0 | 14 |
| 6918 | Design of electroconductive MWCNT-Al ₂ O ₃ composite ceramics. <i>Materials Today: Proceedings</i> , 2017, 4, 11375-11380. | 0.9 | 1 |
| 6919 | Zinc oxide quantum dots decorated carbon nanotubes for improved opto-electro-mechanical response. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 351-359. | 2.0 | 7 |
| 6920 | Mechanical performance of novel cement-based composites prepared with nano-fibres, and hybrid nano- and micro-fibres. <i>Composite Structures</i> , 2017, 178, 145-156. | 3.1 | 51 |
| 6921 | Comparison of black carbon concentration and particle mass concentration with elemental carbon concentration for multi-walled carbon nanotube emission assessment purpose. <i>Carbon</i> , 2017, 122, 228-236. | 5.4 | 6 |
| 6922 | Synthesis of Carboxamideâ€“Functionalized Multiwall Carbon Nanotubes <i>via</i> Ugi Multicomponent Reaction: Waterâ€“Dispersible Peptidomimetic Nanohybrid as Controlled Drug Delivery Vehicle. <i>ChemistrySelect</i> , 2017, 2, 5218-5225. | 0.7 | 23 |
| 6923 | Carbon materials for enhancing charge transport in the advancements of perovskite solar cells. <i>Journal of Power Sources</i> , 2017, 361, 259-275. | 4.0 | 66 |
| 6924 | Effect of Nitrogen Doping on Glass Transition and Electrical Conductivity of [EMIM][PF ₆] Ionic Liquid Encapsulated in a Zigzag Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15493-15508. | 1.5 | 18 |
| 6925 | Analogue of electromagnetically-induced-transparency based on graphene nanotube waveguide. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 355101. | 1.3 | 7 |
| 6926 | Catalysis in Fuel Cells (PEMC, SOFC). <i>Green Energy and Technology</i> , 2017, , 37-58. | 0.4 | 0 |
| 6927 | Observation of partial relaxation mechanisms via anisotropic strain relief on epitaxial islands using semiconductor nanomembranes. <i>Nanotechnology</i> , 2017, 28, 305702. | 1.3 | 1 |
| 6928 | Gold Nanoparticle Decorated Multiwall Carbon Nanotubes/Ionic Liquid Composite Film on Glassy Carbon Electrode for Sensitive and Simultaneous Electrochemical Determination of Dihydroxybenzene Isomers. <i>IEEE Sensors Journal</i> , 2017, 17, 5030-5037. | 2.4 | 12 |
| 6929 | Axial dynamic buckling analysis of embedded single-walled carbon nanotube by complex structure-preserving method. <i>Applied Mathematical Modelling</i> , 2017, 52, 15-27. | 2.2 | 27 |
| 6930 | A nonlocal strain gradient hyperbolic shear deformable shell model for radial postbuckling analysis of functionally graded multilayer GPLRC nanoshells. <i>Composite Structures</i> , 2017, 178, 97-109. | 3.1 | 93 |
| 6931 | Bioreductive deposition of highly dispersed Ag nanoparticles on carbon nanotubes with enhanced catalytic degradation for 4-nitrophenol assisted by <i>Shewanella oneidensis</i> MR-1. <i>Environmental Science and Pollution Research</i> , 2017, 24, 3038-3044. | 2.7 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6932 | Effects of laser cutting on the structural and mechanical properties of carbon nanotube assemblages. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 223, 143-152. | 1.7 | 13 |
| 6933 | The development of anticancer ruthenium(II) complexes: from single molecule compounds to nanomaterials. <i>Chemical Society Reviews</i> , 2017, 46, 5771-5804. | 18.7 | 793 |
| 6934 | Can uranyl complexes encapsulate to carbon nanotubes? A periodic DFT study. <i>Journal of Chemical Sciences</i> , 2017, 129, 783-790. | 0.7 | 2 |
| 6935 | Synthesis and microwave absorption properties of sandwich-type CNTs/Fe ₃ O ₄ /RGO composite with Fe ₃ O ₄ as a bridge. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15043-15049. | 1.1 | 8 |
| 6936 | Ultrasonic treatment of endocrine disrupting compounds, pharmaceuticals, and personal care products in water: A review. <i>Chemical Engineering Journal</i> , 2017, 327, 629-647. | 6.6 | 123 |
| 6937 | Pyrene-tagged carbohydrate-based mixed P/S ligand: spacer effect on the Rh(I)-catalyzed hydrogenation of methyl \pm -acetamidocinnamate. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5772-5780. | 1.5 | 5 |
| 6938 | Effect of CNTs and Interfacial Defects on the Vibration of CNT-Based Hybrid Nanotubes. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750032. | 1.3 | 2 |
| 6940 | Flexible Printed Sensors for Ubiquitous Human Monitoring. <i>Smart Sensors, Measurement and Instrumentation</i> , 2017, , 135-157. | 0.4 | 2 |
| 6941 | Conducting Polymer Hybrids. <i>Springer Series on Polymer and Composite Materials</i> , 2017, , . | 0.5 | 18 |
| 6942 | Electrophoretic Analysis of Natural Antioxidants in Plant and Beverage Samples Using Dynamically Coated Capillaries with Chitosan and Multiwall Carbon Nanotubes. <i>Food Analytical Methods</i> , 2017, 10, 980-991. | 1.3 | 6 |
| 6943 | Interfacial charge carrier dynamics of cuprous oxide-reduced graphene oxide (Cu ₂ O-rGO) nanoheterostructures and their related visible-light-driven photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 21-32. | 10.8 | 181 |
| 6944 | Graphene-Carbon Nanotube Hybrids for Energy and Environmental Applications. <i>Springer Briefs in Molecular Science</i> , 2017, , . | 0.1 | 18 |
| 6945 | The peculiar behavior of functionalized carbon nanotubes in hydrocarbons and polymeric oxidation environments. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 988-1006. | 1.4 | 5 |
| 6946 | Controllable Synthesis of Carbon Nanotubes. , 2017, , 1-45. | | 2 |
| 6947 | Efficient surface modification of carbon nanotubes for fabricating high performance CNT based hybrid nanostructures. <i>Carbon</i> , 2017, 111, 402-410. | 5.4 | 50 |
| 6948 | Simple strategy for fabricating a Prussian blue/chitosan/carbon nanotube composite and its application for the sensitive determination of hydrogen peroxide. <i>Micro and Nano Letters</i> , 2017, 12, 23-26. | 0.6 | 4 |
| 6949 | Inkjet-printed Ag grid combined with Ag nanowires to form a transparent hybrid electrode for organic electronics. <i>Organic Electronics</i> , 2017, 41, 179-185. | 1.4 | 49 |
| 6950 | Recent Progress on Rubber Based Biocomposites: From Carbon Nanotubes to Ionic Liquids. <i>Green Energy and Technology</i> , 2017, , 91-123. | 0.4 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 6951 | Structures and Properties of Carbon Nanomaterials. Springer Briefs in Molecular Science, 2017, , 1-19. | 0.1 | 3 |
| 6952 | Enhanced performance of thermal-assisted electron field emission based on barium oxide nanowire. Applied Surface Science, 2017, 396, 1108-1112. | 3.1 | 14 |
| 6953 | Effect of bending on the molecular transport along carbon nanotubes. Physica Status Solidi (B): Basic Research, 2017, 254, 1600266. | 0.7 | 3 |
| 6954 | Carbon Nanotubes for Sensing Applications. , 2017, , 129-150. | | 12 |
| 6955 | Electromagnetic Interference Shielding of Polymer/Nanodiamond, Polymer/Carbon Nanotube, and Polymer/Nanodiamondâ€“Carbon Nanotube Nanofiller Composite: A Review. Polymer-Plastics Technology and Engineering, 2017, 56, 347-363. | 1.9 | 23 |
| 6956 | Fowler Nordheim theory of carbon nanotube based field emitters. Physica B: Condensed Matter, 2017, 505, 1-8. | 1.3 | 26 |
| 6957 | Growth control of carbon nanotubes using nanocomposite nickel/carbon thin films. Thin Solid Films, 2017, 630, 38-47. | 0.8 | 3 |
| 6958 | Structure of Nanocrystals, Nanoparticles, and Nanotubes. , 2017, , 581-652. | | 1 |
| 6959 | Conductive Polymer Composites Based on Carbon Nanomaterials. Springer Series on Polymer and Composite Materials, 2017, , 117-142. | 0.5 | 6 |
| 6960 | A Review of Supercapacitor Energy Storage Using Nanohybrid Conducting Polymers and Carbon Electrode Materials. Springer Series on Polymer and Composite Materials, 2017, , 165-192. | 0.5 | 30 |
| 6961 | Engineering nanocomposite membranes: Addressing current challenges and future opportunities. Desalination, 2017, 401, 1-15. | 4.0 | 91 |
| 6962 | Exploration of single wall carbon nanotubes for the peristaltic motion in a curved channel with variable viscosity. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 117-125. | 0.8 | 22 |
| 6963 | A new strategy for simple and quick estimation of redox active nickel impurity in pristine SWCNT as nickel hexacyanoferrate by electrochemical technique. Sensors and Actuators B: Chemical, 2017, 238, 1111-1119. | 4.0 | 11 |
| 6964 | Carbon nanotube membranes to predict skin permeability of compounds. Pharmaceutical Development and Technology, 2017, 22, 606-616. | 1.1 | 5 |
| 6965 | An integrated holistic model of a complex process. International Journal of Advanced Manufacturing Technology, 2017, 89, 1137-1147. | 1.5 | 1 |
| 6966 | Carbon Nanoforms for Photovoltaics: Myth or Reality?. Advanced Energy Materials, 2017, 7, 1601102. | 10.2 | 48 |
| 6967 | Copper sulfide nanoneedles on CNT backbone composite electrodes for high-performance supercapacitors and Li-S batteries. Journal of Solid State Electrochemistry, 2017, 21, 349-359. | 1.2 | 28 |
| 6968 | Improved ethanol sensing behaviour of cadmium sulphide nanoflakes: Beneficial effect of morphology. Sensors and Actuators B: Chemical, 2017, 242, 1155-1164. | 4.0 | 17 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 6969 | Two-dimensional (2D) fabrics and three-dimensional (3D) preforms for ballistic and stabbing protection: A review. <i>Textile Reseach Journal</i> , 2017, 87, 2275-2304. | 1.1 | 83 |
| 6970 | Carbon nanotube-based interconnections. <i>Journal of Materials Science</i> , 2017, 52, 643-662. | 1.7 | 10 |
| 6971 | Carbon nanotubes from renewable feedstocks: A move toward sustainable nanofabrication. <i>Journal of Applied Polymer Science</i> , 2017, 134, . | 1.3 | 47 |
| 6972 | Fabrication of an electrochemical sensor for determination of doxorubicin in human plasma and its interaction with DNA. <i>Journal of Pharmaceutical Analysis</i> , 2017, 7, 27-33. | 2.4 | 63 |
| 6973 | PEGylation of magnetic multi-walled carbon nanotubes for enhanced selectivity of dispersive solid phase extraction. <i>Materials Science and Engineering C</i> , 2017, 71, 186-194. | 3.8 | 8 |
| 6974 | Nanoscale topographical control of capillary assembly of nanoparticles. <i>Nature Nanotechnology</i> , 2017, 12, 73-80. | 15.6 | 266 |
| 6975 | Functionalization of multi-walled carbon nanotubes with pramipexole for immobilization of palladium nanoparticles and investigation of catalytic activity in the Sonogashira coupling reaction. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3600. | 1.7 | 25 |
| 6976 | In-situ polymerization and multifunctional properties of surface-modified multiwalled carbon nanotube-reinforced polyimide nanocomposites. <i>High Performance Polymers</i> , 2017, 29, 797-807. | 0.8 | 6 |
| 6977 | CTAB functionalized multiwalled carbon nanotube composite modified electrode for the determination of 6-mercaptopurine. <i>Sensing and Bio-Sensing Research</i> , 2017, 12, 1-7. | 2.2 | 20 |
| 6978 | Synergistic effects of 2D graphene oxide nanosheets and 1D carbon nanotubes in the constructed 3D carbon aerogel for high performance pollutant removal. <i>Chemical Engineering Journal</i> , 2017, 314, 336-346. | 6.6 | 93 |
| 6979 | Static refractive index engineering of a singlewalled carbon nanotube through co-doping: A theoretical study. <i>Optik</i> , 2017, 131, 267-272. | 1.4 | 9 |
| 6980 | Carbon nanotube assisted Lift off of GaN layers on sapphire. <i>Applied Surface Science</i> , 2017, 394, 598-603. | 3.1 | 9 |
| 6981 | Improving the properties of poly(arylene ether nitrile) composites reinforced by covalently modified multi-walled carbon nanotubes. <i>High Performance Polymers</i> , 2017, 29, 1058-1068. | 0.8 | 2 |
| 6982 | Carbon nanotube: A review on its mechanical properties and application in aerospace industry. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 270, 012027. | 0.3 | 7 |
| 6984 | High performance field emitters of carbon nanotubes synthesized by electric arc discharge. , 2017, , . | | 0 |
| 6985 | Polybenzoxazine/Carbon Nanotube Composites. , 2017, , 725-738. | | 6 |
| 6986 | Point-of-Care and Implantable Biosensors in Cancer Research and Diagnosis. , 2017, , 115-132. | | 3 |
| 6987 | Controllable deposition of titanium dioxides onto carbon nanotubes in aqueous solutions. <i>Integrated Ferroelectrics</i> , 2017, 183, 43-53. | 0.3 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 6988 | In-situ generation of spherical aggregates of Pd nanoparticles on the surface of poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 742 T | 0.4 | 1 |
| 6989 | Electrochemical Detection of Hydroxylamine via Au-Pt Alloy Nanoparticle-modified Single-walled Carbon Nanotube Electrodes. <i>Analytical Sciences</i> , 2017, 33, 993-998. | 0.8 | 12 |
| 6990 | Sensitive Photodetection Based on the Surface States of p-Type Silicon. <i>IEEE Electron Device Letters</i> , 2018, 39, 236-239. | 2.2 | 8 |
| 6991 | Research on the tip-carbon nanotube interaction model using molecular dynamics simulation. , 2017, , . | | 0 |
| 6992 | Structural and Morphological Investigation for Water-Processed Graphene Oxide/Single-Walled Carbon Nanotubes Hybrids. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 209, 012030. | 0.3 | 13 |
| 6993 | Analysis of propagation delay for bundled SWCNT and bundled MWCNT in global VLSI interconnects. , 2017, , . | | 1 |
| 6994 | Binding energy of CNT-GNR interface due to different orientation and equilibrium distance. , 2017, , . | | 0 |
| 6995 | The combined role of heterogeneous catalysis and ultrasonic waves on the facile synthesis of 2,3-dihydroquinazolin-4(1H)-ones. <i>Journal of Saudi Chemical Society</i> , 2017, 21, S415-S424. | 2.4 | 8 |
| 6996 | The Field-Emission Performance of Carbon-Nanotube Composite Graphene. , 2017, , . | | 0 |
| 6997 | Comparison of mechanical properties of multi-walled carbon nanotube and graphene nanosheet/polyethylene oxide composites plasticized with lithium triflate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 251, 012077. | 0.3 | 0 |
| 6998 | A Double In Vivo Biotinylation Technique to Assess Erythrocyte Turnover in Blood Circulation. , 0, , . | | 1 |
| 6999 | One-Step Self-Assembly Synthesis \pm -Fe ₂ O ₃ with Carbon-Coated Nanoparticles for Stabilized and Enhanced Supercapacitors Electrode. <i>Energies</i> , 2017, 10, 1296. | 1.6 | 34 |
| 7000 | Modified plastic optical fiber with CNT and graphene oxide nanostructured coatings for ethanol liquid sensing. <i>Optics Express</i> , 2017, 25, 5509. | 1.7 | 21 |
| 7001 | Characterization of metal, semiconductor, and metal-semiconductor core-shell nanostructures. , 2017, , 51-77. | | 5 |
| 7002 | Temperature- and pH-sensitive wearable materials for monitoring foot ulcers. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 949-954. | 3.3 | 53 |
| 7003 | Direct Synthesis of Carbon Nanotube Field Emitters on Metal Substrate for Open-Type X-ray Source in Medical Imaging. <i>Materials</i> , 2017, 10, 878. | 1.3 | 37 |
| 7004 | Metallurgical Challenges in Carbon Nanotube-Reinforced Metal Matrix Nanocomposites. <i>Metals</i> , 2017, 7, 384. | 1.0 | 55 |
| 7005 | Poly(lactic acid) Composites Containing Carbon-Based Nanomaterials: A Review. <i>Polymers</i> , 2017, 9, 269. | 2.0 | 109 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7006 | Carbon-Based Nanomaterials in Biomass-Based Fuel-Fed Fuel Cells. <i>Sensors</i> , 2017, 17, 2587. | 2.1 | 23 |
| 7007 | Micro- and nano-fillers used in the rubber industry. , 2017, , 41-80. | | 22 |
| 7008 | Prospects and State-of-the-Art of Carbon Nanotube Membranes in Desalination Processes. , 2017, , 305-339. | | 0 |
| 7009 | Influence of Temperature on Vibrational Frequency of Graphene Sheet Used as Nano-Scale Sensing. <i>Journal of Carbon Research</i> , 2017, 3, 4. | 1.4 | 6 |
| 7010 | Carbon Nanotube-Based Nanomechanical Sensor: Theoretical Analysis of Mechanical and Vibrational Properties. <i>Electronics (Switzerland)</i> , 2017, 6, 56. | 1.8 | 17 |
| 7011 | A Method for Determination of Metals in Hybrid Metal Oxide/Metal-Carbon Nanotubes Catalysts. <i>Journal of Chemistry</i> , 2017, 2017, 1-6. | 0.9 | 2 |
| 7012 | Electron Beam Irradiation Induced Multiwalled Carbon Nanotubes Fusion inside SEM. <i>Scanning</i> , 2017, 2017, 1-8. | 0.7 | 2 |
| 7013 | Characteristics of Carbon Nanotubes/Graphene Coatings on Stainless Steel Meshes Used as Electrodes for Air-Cathode Microbial Fuel Cells. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9. | 1.5 | 15 |
| 7014 | Production and Properties of Carbon Nanotube/Cellulose Composite Paper. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-11. | 1.5 | 24 |
| 7015 | Polymer Twin Screw Extrusion With Filler Powder Reinforcement. , 2017, , 691-705. | | 2 |
| 7016 | Evaluating Hydrogen Uptake for Two Types of Multi-Wall Carbon Nanotubes from Nitrogen Adsorption/Desorption Data. <i>Nano Hybrids and Composites</i> , 2017, 13, 341-347. | 0.8 | 2 |
| 7017 | Bipolar Electropolymerization for the Synthesis of Conducting Polymer Materials. <i>Kobunshi Ronbunshu</i> , 2017, 74, 460-472. | 0.2 | 0 |
| 7018 | Controlling conducting channels of single-walled carbon nanotube array with atomic force microscopy. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 759-764. | 1.6 | 2 |
| 7019 | Direct current induced multi-walled carbon nanotubes/graphene layer fusion. , 2017, , . | | 0 |
| 7020 | Q-switched double-clad Ytterbium-doped fiber laser using MoS ₂ flakes saturable absorber. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 210, 012054. | 0.3 | 0 |
| 7021 | Paper Based Flexible Carbon-FET Devices by Embedding Si Nanoparticles in Graphite Channel. , 2017, , . | | 0 |
| 7022 | Interfacial Mechanical Behaviors in Carbon Nanotube Assemblies. , 0, , . | | 4 |
| 7023 | Electrochemical behaviour of graphene and carbon nanotubes based hybrid polymer composites. , 2017, , 211-248. | | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7024 | Nonlocal Elasticity Theories. , 2017, , 301-334. | | 1 |
| 7025 | Localized growth of carbon nanotubes via lithographic fabrication of metallic deposits. Beilstein Journal of Nanotechnology, 2017, 8, 2592-2605. | 1.5 | 3 |
| 7026 | Dry adhesives from carbon nanofibers grown in an open ethanol flame. Beilstein Journal of Nanotechnology, 2017, 8, 2719-2728. | 1.5 | 4 |
| 7027 | Preparation of the Palladium/Polymeric Pyrrole-Multi-Walled Carbon Nanotubes Film/Titanium Electrode and Its Performance for the Dechlorination of 4-chlorophenol. International Journal of Electrochemical Science, 2017, 12, 5208-5219. | 0.5 | 15 |
| 7028 | Fabrication of Carbon Nanotube Polymer Actuator Using Nanofiber Sheet. Journal of Physics: Conference Series, 2017, 924, 012005. | 0.3 | 4 |
| 7029 | Conductive Polymer Composites Synthesized from Diacetylene-Functionalized Linseed Oil and MWCNT: Gamma Irradiation and Organic Vapor Sensing. Journal of Renewable Materials, 2017, 5, 132-144. | 1.1 | 1 |
| 7030 | Dendrimer Sensors. , 2017, , 237-259. | | 1 |
| 7031 | Studies on Metal Doped Polyaniline-Carbon Nanotubes Composites for High Performance Supercapacitor. Current Analytical Chemistry, 2017, 13, . | 0.6 | 20 |
| 7032 | Production of activated carbon by using pyrolysis process in an ammonia atmosphere. Journal of Physics: Conference Series, 2017, 817, 012006. | 0.3 | 7 |
| 7033 | A First Principle Study on the Adsorption of Benzoic Acid onto the (6, 6) and (5, 5) Armchair Single-Walled Carbon Nanotubes. Oriental Journal of Chemistry, 2017, 33, 1127-1132. | 0.1 | 5 |
| 7034 | THE ROLE OF CARBON NANOTUBES IN NANOBIO-MEDICINES. International Journal of Pharmacy and Pharmaceutical Sciences, 2017, 9, 235. | 0.3 | 2 |
| 7035 | Experimental Analysis and Power Law Model of Multiwall Carbon Nanotubes Yield on Fe-Co-Ni Ternary Metal Catalyst. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 7036 | Mechanics of More Complicated Structures. , 2017, , 177-210. | | 1 |
| 7037 | Effect of carbon nanotubes on the electromagnetic shielding properties of SiCf/SiC composites. Journal of Alloys and Compounds, 2018, 745, 90-99. | 2.8 | 34 |
| 7038 | Advances in Nanowire Transistor-Based Biosensors. Small Methods, 2018, 2, 1700263. | 4.6 | 49 |
| 7039 | Negative ion laser desorption/ionization time-of-flight mass spectrometric analysis of small molecules by using nanostructured substrate as matrices. Mass Spectrometry Reviews, 2018, 37, 681-696. | 2.8 | 60 |
| 7040 | Merger of Energetic Affinity and Optimal Geometry Provides New Class of Boron Nitride Based Sorbents with Unprecedented Hydrogen Storage Capacity. Small, 2018, 14, 1702863. | 5.2 | 15 |
| 7041 | CNT Applications in Drug and Biomolecule Delivery. , 2018, , 61-64. | | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7042 | Synthesis and Chemical Modification of Graphene. , 2018, , 107-119. | | 0 |
| 7043 | Graphene Applications in Sensors. , 2018, , 125-132. | | 0 |
| 7045 | Medical and Pharmaceutical Applications of Graphene. , 2018, , 149-150. | | 2 |
| 7046 | Graphene Applications in Specialized Materials. , 2018, , 151-154. | | 0 |
| 7047 | Miscellaneous Applications of Graphene. , 2018, , 155-155. | | 0 |
| 7048 | Basic Electrochromics of CPs. , 2018, , 251-282. | | 0 |
| 7049 | Batteries and Energy Devices. , 2018, , 575-600. | | 0 |
| 7050 | Brief, General Overview of Applications. , 2018, , 43-44. | | 0 |
| 7051 | CNT Applications in Batteries and Energy Devices. , 2018, , 49-52. | | 1 |
| 7052 | Two-dimensional transition metal dichalcogenide hybrid materials for energy applications. Nano Today, 2018, 19, 16-40. | 6.2 | 142 |
| 7053 | Electrical Resistance of Carbon Nanotube Yarns Under Compressive Transverse Pressure. IEEE Electron Device Letters, 2018, 39, 584-587. | 2.2 | 14 |
| 7054 | Resilient, mesoporous carbon nanotube-based strips as adsorbents of dilute organics in water. Carbon, 2018, 132, 329-334. | 5.4 | 21 |
| 7055 | Tip-enhanced Raman spectroscopy studies of nanodiamonds and carbon onions. Carbon, 2018, 132, 495-502. | 5.4 | 37 |
| 7056 | Mechanical behavior of carbon nanotube yarns with stochastic microstructure obtained by stretching buckypaper. Composites Science and Technology, 2018, 166, 54-65. | 3.8 | 8 |
| 7057 | Nanocarbon-Based Materials for Flexible All-Solid-State Supercapacitors. Advanced Materials, 2018, 30, e1705489. | 11.1 | 330 |
| 7058 | Understanding the Selection Mechanism of the Polymer Wrapping Technique toward Semiconducting Carbon Nanotubes. Small Methods, 2018, 2, 1700335. | 4.6 | 17 |
| 7059 | Predictions of the electro-mechanical response of conductive CNT-polymer composites. Journal of the Mechanics and Physics of Solids, 2018, 114, 84-96. | 2.3 | 54 |
| 7060 | A p-type multi-wall carbon nanotube/Te nanorod composite with enhanced thermoelectric performance. RSC Advances, 2018, 8, 8739-8746. | 1.7 | 24 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7061 | Facile covalent functionalization of carbon nanotubes via Diels-Alder reaction in deep eutectic solvents. <i>Applied Surface Science</i> , 2018, 450, 122-129. | 3.1 | 18 |
| 7063 | Direct Graphene Transfer and Its Application to Transfer Printing Using Mechanically Controlled, Large Area Graphene/Copper Freestanding Layer. <i>Advanced Functional Materials</i> , 2018, 28, 1707102. | 7.8 | 40 |
| 7064 | Quantification of pressure-induced β -crystals in isotactic polypropylene: The influence of shear and carbon nanotubes. <i>Polymer Crystallization</i> , 2018, 1, e10002. | 0.5 | 6 |
| 7065 | Metal nanofibrils embedded in long free-standing carbon nanotube fibers with a high critical current density. <i>NPG Asia Materials</i> , 2018, 10, 146-155. | 3.8 | 23 |
| 7066 | Negative thermal expansion in molecular materials. <i>Chemical Communications</i> , 2018, 54, 5164-5176. | 2.2 | 104 |
| 7067 | Role of Multiwalled Carbon Nanotubes as Shear Reinforcing Nanopins in Quasi-Brittle Matrices. <i>ACS Applied Nano Materials</i> , 2018, 1, 1731-1740. | 2.4 | 27 |
| 7068 | Machine learning electron density in sulfur crosslinked carbon nanotubes. <i>Composites Science and Technology</i> , 2018, 166, 3-9. | 3.8 | 35 |
| 7069 | Covalent functionalization of multi-walled carbon nanotubes with imidazolium-based poly(ionic) Tj ETQq1 1 0.784314 rgBT /Overlock 337-343. | 2.9 | 22 |
| 7070 | Confined Assembly of Hollow Carbon Spheres in Carbonaceous Nanotube: A Spheres-in-Tube Carbon Nanostructure with Hierarchical Porosity for High-Performance Supercapacitor. <i>Small</i> , 2018, 14, e1704015. | 5.2 | 64 |
| 7071 | 2D-2D Nanocomposite of MoS ₂ -Graphitic Carbon Nitride as Multifunctional Catalyst for Sustainable Synthesis of C ₃ -Functionalized Indoles. <i>ChemCatChem</i> , 2018, 10, 3121-3132. | 1.8 | 33 |
| 7072 | Adsorption behaviour of SF ₆ decomposed species onto Pd ₄ -decorated single-walled CNT: a DFT study. <i>Molecular Physics</i> , 2018, 116, 1749-1755. | 0.8 | 31 |
| 7073 | Polyethylene glycol functionalized carbon nanotubes/gelatin-chitosan nanocomposite: An approach for significant drug release. <i>Bioactive Materials</i> , 2018, 3, 236-244. | 8.6 | 63 |
| 7074 | Propagation of three-dimensional bipolar ultrashort electromagnetic pulses in an inhomogeneous array of carbon nanotubes. <i>Physical Review A</i> , 2018, 97, . | 1.0 | 11 |
| 7075 | High-performing multi-walled carbon nanotubes/silica nanocomposites for elastomer application. <i>Composites Science and Technology</i> , 2018, 162, 23-32. | 3.8 | 45 |
| 7076 | Study on the detection behavior of defect-rich single-walled carbon nanotubes toward perchlorate. <i>Functional Materials Letters</i> , 2018, 11, 1850032. | 0.7 | 0 |
| 7077 | Fabrication of carbon nanotube on nickel-chromium alloy wire for high-current field emission. <i>Applied Surface Science</i> , 2018, 450, 38-45. | 3.1 | 11 |
| 7078 | The electron properties of infinite length single-walled silicon nanotubes are studied by density functional theory. <i>Superlattices and Microstructures</i> , 2018, 123, 20-29. | 1.4 | 8 |
| 7079 | The electron properties of infinite length single-walled silicon nanotubes are studied by density functional theory. <i>Superlattices and Microstructures</i> , 2018, 123, 88-93. | 1.4 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7080 | Nanodiamond applications in skin preparations. <i>Drug Discovery Today</i> , 2018, 23, 1152-1158. | 3.2 | 28 |
| 7081 | Computer-aided design of three terminal (3T-) zig-zag SWCNT junctions and nanotube architectures. <i>Composites Science and Technology</i> , 2018, 166, 36-45. | 3.8 | 2 |
| 7082 | Facile and fast polyaniline-directed synthesis of monolithic carbon cryogels from glucose. <i>Microporous and Mesoporous Materials</i> , 2018, 265, 26-34. | 2.2 | 14 |
| 7084 | The Toxicology of Engineered Nanomaterials in Asthma. <i>Current Environmental Health Reports</i> , 2018, 5, 100-109. | 3.2 | 23 |
| 7085 | Studies on biodegradable polyurethane-SWCNTs nanocomposite films by covalent approach: Physicochemical, electric and mechanical properties. <i>Applied Surface Science</i> , 2018, 449, 745-754. | 3.1 | 19 |
| 7086 | Patterns of Carbon Nanotubes by Flow-Directed Deposition on Substrates with Architected Topographies. <i>Nano Letters</i> , 2018, 18, 1660-1667. | 4.5 | 6 |
| 7087 | Preparation and electrocatalytic properties of gold nanoparticles loaded carbon nanotubes. <i>Chinese Chemical Letters</i> , 2018, 29, 1633-1636. | 4.8 | 5 |
| 7089 | Enhanced tensile strength and initial modulus of poly(vinyl alcohol)/graphene oxide composite fibers via blending poly(vinyl alcohol) with poly(vinyl alcohol)-grafted graphene oxide. <i>Journal of Polymer Research</i> , 2018, 25, 1. | 1.2 | 27 |
| 7090 | Topology and doping effects in three-dimensional nanoporous graphene. <i>Carbon</i> , 2018, 131, 258-265. | 5.4 | 41 |
| 7091 | An intrinsic energy conversion mechanism via telescopic extension and retraction of concentric carbon nanotubes. <i>Nanoscale</i> , 2018, 10, 4897-4903. | 2.8 | 10 |
| 7092 | Functionalized Graphdiyne Nanowires: On-Surface Synthesis and Assessment of Band Structure, Flexibility, and Information Storage Potential. <i>Small</i> , 2018, 14, e1704321. | 5.2 | 38 |
| 7093 | Room temperature amine sensors enabled by sidewall functionalization of single-walled carbon nanotubes. <i>RSC Advances</i> , 2018, 8, 5578-5585. | 1.7 | 30 |
| 7094 | Observation of carbon nanotube filament bridging induced by gas discharge breakdown between electrodes. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 01AF09. | 0.8 | 5 |
| 7095 | Mechanisms and applications of carbon nanotubes in terahertz devices: A review. <i>Carbon</i> , 2018, 132, 42-58. | 5.4 | 88 |
| 7096 | Effect of Temperature on Creep Behavior in Carbon Nanotube-Reinforced Epoxy Bonded Interface – An Atomistic Investigation. <i>MRS Advances</i> , 2018, 3, 439-444. | 0.5 | 2 |
| 7097 | One-dimensional nanomaterials for energy storage. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 113002. | 1.3 | 48 |
| 7098 | Wet Powder Metallurgy Process for Dispersing Carbon Nanotubes and Fabricating Magnesium Composite. <i>Key Engineering Materials</i> , 0, 759, 86-91. | 0.4 | 2 |
| 7099 | Octadecylamine-Functionalized Single-Walled Carbon Nanotubes for Facilitating the Formation of a Monolithic Perovskite Layer and Stable Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1705545. | 7.8 | 73 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 7100 | Effects of fullerene coalescence on the thermal conductivity of carbon nanopeapods. <i>Molecular Physics</i> , 2018, 116, 1297-1305. | 0.8 | 8 |
| 7101 | Pull-in-free design of electrically actuated carbon nanotube-based NEMS actuator assuming non-parallel electrodes arrangement. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1. | 0.8 | 7 |
| 7102 | Quantification of carbon nanotubes in polymer composites. <i>Analytical Methods</i> , 2018, 10, 1032-1037. | 1.3 | 3 |
| 7103 | Orientation Control of Molecularly Functionalized Surfaces Applied to the Simultaneous Alignment and Sorting of Carbon Nanotubes. <i>Angewandte Chemie</i> , 2018, 130, 2423-2427. | 1.6 | 11 |
| 7104 | The Effects of Zn Doping on the Interaction of a Single Walled Carbon Nanotube with Penicillamine Drug: A DFT Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 954-961. | 1.9 | 5 |
| 7105 | Covalent immobilization of phytase on the multi-walled carbon nanotubes via diimide-activated amidation: structural and stability study. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 763-772. | 1.9 | 19 |
| 7106 | Effect of carbon nano tube working electrode thickness on charge transport kinetics and photo-electrochemical characteristics of dye-sensitized solar cells. <i>Materials Research Express</i> , 2018, 5, 025513. | 0.8 | 1 |
| 7107 | In situ TEM synthesis of carbon nanotube Y-junctions by electromigration induced soldering. <i>Carbon</i> , 2018, 132, 165-171. | 5.4 | 15 |
| 7108 | A biomimetic spherical cactus superhydrophobic coating with durable and multiple anti-corrosion effects. <i>Chemical Engineering Journal</i> , 2018, 338, 670-679. | 6.6 | 98 |
| 7109 | A Thermally Insulating Textile Inspired by Polar Bear Hair. <i>Advanced Materials</i> , 2018, 30, e1706807. | 11.1 | 346 |
| 7110 | Specific Oxygenated Groups Enriched Graphene Quantum Dots as Highly Efficient Enzyme Mimics. <i>Small</i> , 2018, 14, e1703710. | 5.2 | 92 |
| 7111 | Assessment of Simple Models for Molecular Simulation of Ethylene Carbonate and Propylene Carbonate as Solvents for Electrolyte Solutions. <i>Topics in Current Chemistry</i> , 2018, 376, 7. | 3.0 | 15 |
| 7112 | A convenient method of attaching fluorescent dyes on single-walled carbon nanotubes pre-wrapped with DNA molecules. <i>Analytical Biochemistry</i> , 2018, 547, 1-6. | 1.1 | 4 |
| 7113 | Current oscillations in Schottky-barrier CNTFET: towards resonant tunneling device operation. <i>Semiconductor Science and Technology</i> , 2018, 33, 035012. | 1.0 | 5 |
| 7115 | Electrical current nanogeneration driven by spontaneous nanofluidic oscillations. <i>Nanoscale</i> , 2018, 10, 3144-3147. | 2.8 | 4 |
| 7116 | Origin and Control of Polyacrylonitrile Alignments on Carbon Nanotubes and Graphene Nanoribbons. <i>Advanced Functional Materials</i> , 2018, 28, 1706970. | 7.8 | 18 |
| 7117 | Structure and Properties of Graphene. , 2018, , 1-12. | | 41 |
| 7118 | Nanodrugs based on peptide-modulated self-assembly: Design, delivery and tumor therapy. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 35, 17-25. | 3.4 | 55 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7119 | Tuning the Viscoelastic-Gel Transition of Single-Wall Carbon Nanotubes Embedded in pH-Responsive Polyelectrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 348-359. | 1.2 | 1 |
| 7120 | Graphene oxide as a sustainable metal and solvent free catalyst for dehydration of fructose to 5-HMF: A new and green protocol. <i>Catalysis Communications</i> , 2018, 106, 64-67. | 1.6 | 36 |
| 7121 | High-voltage operation of binder-free CNT supercapacitors using ionic liquid electrolytes. <i>Journal of Materials Research</i> , 2018, 33, 1179-1188. | 1.2 | 21 |
| 7122 | Fracture Behavior of Nanoscale Notched Silicon Beams Investigated by the Theory of Critical Distances. <i>Advanced Theory and Simulations</i> , 2018, 1, 1700006. | 1.3 | 22 |
| 7123 | High dispersions of carbon nanotubes on cotton-cellulose benzoate fibers with enhanced electrochemical generation of reactive oxygen species in water. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1027-1032. | 3.3 | 14 |
| 7124 | Highly washable e-textile prepared by ultrasonic nanosoldering of carbon nanotubes onto polymer fibers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 883-889. | 2.7 | 53 |
| 7125 | Thermal buckling of double-layered graphene system in humid environment. <i>Materials Research Express</i> , 2018, 5, 015028. | 0.8 | 16 |
| 7126 | Synthesis, characterization and assessment of hydrophilic oxidized carbon nanodiscs in bio-related applications. <i>RSC Advances</i> , 2018, 8, 122-131. | 1.7 | 5 |
| 7127 | CuCl heterogenized on metformine-modified multi walled carbon nanotubes as a recyclable nanocatalyst for Ullmann-type C–O and C–N coupling reactions. <i>New Journal of Chemistry</i> , 2018, 42, 2782-2789. | 1.4 | 41 |
| 7128 | Controlled Pore Sizes in Monolayer C ₂ N Act as Ultrasensitive Probes for Detection of Gaseous Pollutants (HF, HCN, and H ₂ S). <i>Journal of Physical Chemistry C</i> , 2018, 122, 2248-2258. | 1.5 | 53 |
| 7129 | Metal-organic-framework derived carbon polyhedron and carbon nanotube hybrids as electrode for electrochemical supercapacitor and capacitive deionization. <i>Electrochimica Acta</i> , 2018, 263, 85-93. | 2.6 | 121 |
| 7130 | Atmospheric-pressure-plasma-jet processed carbon nanotube (CNT)-reduced graphene oxide (rGO) nanocomposites for gel-electrolyte supercapacitors. <i>RSC Advances</i> , 2018, 8, 2851-2857. | 1.7 | 41 |
| 7131 | Comparison of 3D and 2D Monte Carlo Models for Piezoresistive Behavior of Hybrid Nanocomposites. , 2018, , . | | 2 |
| 7132 | An ultrasensitive electrochemical sensor for direct determination of anticancer drug dacarbazine based on multiwall carbon nanotube-modified carbon paste electrode and application in pharmaceutical sample. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 931-941. | 1.2 | 10 |
| 7133 | Vacancy and curvature effects on the phonon properties of single wall carbon nanotube. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 02CB08. | 0.8 | 9 |
| 7134 | Engineered Transport in Microporous Materials and Membranes for Clean Energy Technologies. <i>Advanced Materials</i> , 2018, 30, 1704953. | 11.1 | 85 |
| 7135 | Synthesis and characterization of highly luminescent N-doped carbon quantum dots for metal ion sensing. <i>Integrated Ferroelectrics</i> , 2018, 186, 32-39. | 0.3 | 29 |
| 7136 | Quantification of DNA/SWCNT Solvation Differences by Aqueous Two-Phase Separation. <i>Langmuir</i> , 2018, 34, 1834-1843. | 1.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 7137 | Nanoparticles considered as mixtures for toxicological research. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2018, 36, 1-20. | 2.9 | 17 |
| 7138 | Orientation Control of Molecularly Functionalized Surfaces Applied to the Simultaneous Alignment and Sorting of Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2399-2403. | 7.2 | 18 |
| 7139 | Easy Synthesis of Ordered Mesoporous Carbon@Carbon Nanotube Nanocomposite as a Promising Support for CO ₂ Photoreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2529-2534. | 3.2 | 31 |
| 7140 | Laser-induced breakdown spectroscopy: an advanced method for analysis of nanocarbon materials chemical composition. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 240-250. | 1.6 | 12 |
| 7141 | Fabrication of polyacrylamide@carbon nanotubes by One-Step Radiation-Induced Graft Polymerization. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 12-15. | 1.0 | 3 |
| 7142 | Graphene-Like 2D Porous Carbon Nanosheets Derived from Cornstark Pith for Energy Storage Materials. <i>Journal of Electronic Materials</i> , 2018, 47, 337-346. | 1.0 | 34 |
| 7143 | A Silicene Nanotube Field Effect Transistor (SiNTFET) with an Electrically Induced Gap and High Value on/off. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, M1-M5. | 0.9 | 11 |
| 7144 | Effect of single-walled carbon nanotubes on cytochrome P450 activity in human liver microsomes <i>in vitro</i> . <i>Biopharmaceutics and Drug Disposition</i> , 2018, 39, 275-279. | 1.1 | 1 |
| 7145 | Carbon nanotubes-modified graphitic carbon nitride photocatalysts with synergistic effect of nickel(II) sulfide and molybdenum(II) disulfide co-catalysts for more efficient H ₂ evolution. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 374-383. | 5.0 | 31 |
| 7146 | Voltage-Controlled Spray Deposition of Multiwalled Carbon Nanotubes on Semiconducting and Insulating Substrates. <i>Journal of Electronic Materials</i> , 2018, 47, 4604-4609. | 1.0 | 6 |
| 7147 | Fabrication and characterization of hyperbranched polyglycerol modified carbon nanotubes through the host-guest interactions. <i>Materials Science and Engineering C</i> , 2018, 91, 458-465. | 3.8 | 10 |
| 7148 | Influence of surface-functionalized multi-walled carbon nanotubes on CdS nanohybrids for effective photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 294-303. | 10.8 | 78 |
| 7149 | Silver nanoparticles decorated graphene nanoribbon modified pyrolytic graphite sensor for determination of histamine. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 383-391. | 4.0 | 52 |
| 7150 | Interfacial control and carrier tuning of carbon nanotube/polyaniline composites for high thermoelectric performance. <i>Carbon</i> , 2018, 136, 292-298. | 5.4 | 82 |
| 7151 | Smart electrochemical sensing platform for the simultaneous determination of psychotic disorder drugs isopropamide iodide and trifluoperazine hydrochloride. <i>New Journal of Chemistry</i> , 2018, 42, 9911-9919. | 1.4 | 31 |
| 7152 | Self-assembly of single-wall carbon nanotubes during the cooling process of hot carbon gas. <i>Journal of Molecular Modeling</i> , 2018, 24, 115. | 0.8 | 0 |
| 7153 | Solvothermal synthesis and electrochemical properties of Na ₂ CoSiO ₄ and Na ₂ CoSiO ₄ /carbon nanotube cathode materials for sodium-ion batteries. <i>Electrochimica Acta</i> , 2018, 276, 102-110. | 2.6 | 26 |
| 7154 | Study of local currents in low dimension materials using complex injecting potentials. <i>Journal of Applied Physics</i> , 2018, 123, 165102. | 1.1 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7155 | Voltammetric determination of meclizine HCL and its application in pharmaceuticals and biological fluid using CNTS/ZnO nano-carbon modified electrode. Journal of the Iranian Chemical Society, 2018, 15, 1881-1888. | 1.2 | 4 |
| 7156 | Novel soluble carbazole-based poly(aryl ethers): Preparation, properties, and application for dispersing multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2018, 135, 46250. | 1.3 | 2 |
| 7157 | Covalent functionalization of SWCNT with combretastatin A4 for cancer therapy. Nanotechnology, 2018, 29, 245101. | 1.3 | 19 |
| 7158 | Functionalized MWCNTs modified flame retardant PLA nanocomposites and cold rolling process for improving mechanical properties. Composites Science and Technology, 2018, 161, 39-49. | 3.8 | 69 |
| 7159 | Magnetic carbon nanotubes for self-regulating temperature hyperthermia. RSC Advances, 2018, 8, 11997-12003. | 1.7 | 24 |
| 7160 | Self-template synthesis of nickel silicate and nickel silicate/nickel composite nanotubes and their applications in wastewater treatment. Journal of Colloid and Interface Science, 2018, 522, 191-199. | 5.0 | 35 |
| 7161 | Heteroatom doped photoluminescent carbon dots for sensitive detection of acetone in human fluids. Sensors and Actuators B: Chemical, 2018, 266, 583-593. | 4.0 | 99 |
| 7162 | Large positive magnetoresistance in semiconducting single-walled carbon nanotubes at room temperature. RSC Advances, 2018, 8, 10179-10184. | 1.7 | 2 |
| 7163 | Theoretical studies and molecular dynamics simulations on ion transport properties in nanochannels and nanopores. Chinese Physics B, 2018, 27, 024702. | 0.7 | 1 |
| 7164 | Simultaneously improving the fire safety and mechanical properties of epoxy resin with Fe-CNTs via large-scale preparation. Journal of Materials Chemistry A, 2018, 6, 6376-6386. | 5.2 | 183 |
| 7165 | Carbon nanotube@manganese oxide nanosheet core-shell structure encapsulated within reduced graphene oxide film for flexible all-solid-state asymmetric supercapacitors. Carbon, 2018, 132, 776-784. | 5.4 | 66 |
| 7166 | Highly Dispersible Buckled Nanospring Carbon Nanotubes for Polymer Nano Composites. Scientific Reports, 2018, 8, 4851. | 1.6 | 18 |
| 7167 | Effects of Chemical Functionalization of MWCNTs on the Structural and Physical Properties of Elastomeric Copolyetherester-based Composite Fibers. Fibers and Polymers, 2018, 19, 561-570. | 1.1 | 5 |
| 7168 | Rapid quantitative mapping of multi-walled carbon nanotube concentration in nanocomposites. Composites Science and Technology, 2018, 160, 161-168. | 3.8 | 5 |
| 7169 | Nonlinear free vibration analysis of defective FG nanobeams embedded in elastic medium. Composite Structures, 2018, 202, 675-685. | 3.1 | 16 |
| 7170 | Effects of POSS functionalization of carbon nanotubes on microstructure and thermomechanical behavior of carbon nanotube/polymer nanocomposites. Journal of Materials Science, 2018, 53, 8963-8977. | 1.7 | 19 |
| 7171 | Pressure-induced crystallization of low density polyethylene on carbon nanotubes and carbon nanofibers. Polymer Composites, 2018, 39, 192-200. | 2.3 | 6 |
| 7172 | A theoretical study on the stability of CNT encased cyclic peptide beyond hydrogen bond cut-off. Journal of Biomolecular Structure and Dynamics, 2018, 36, 1108-1117. | 2.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 7173 | Nanocomposite scaffolds for myogenesis revisited: Functionalization with carbon nanomaterials and spectroscopic analysis. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 129-156. | 3.4 | 4 |
| 7174 | The technique of electrospinning for manufacturing core-shell nanofibers. <i>Materials and Manufacturing Processes</i> , 2018, 33, 202-219. | 2.7 | 28 |
| 7175 | Polyanilineâ€“Carbon Nanotube Composites: Preparation Methods, Properties, and Applications. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 70-97. | 1.9 | 69 |
| 7176 | Uncertainty propagation in vibrational characteristics of functionally graded carbon nanotube-reinforced composite shell panels. <i>International Journal of Mechanical Sciences</i> , 2018, 149, 549-558. | 3.6 | 33 |
| 7177 | The stability and dispersion of carbon nanotube-polymer solutions: A molecular dynamics study. <i>Journal of Industrial Textiles</i> , 2018, 47, 1568-1583. | 1.1 | 8 |
| 7178 | Electrochemical carbon based nanosensors: A promising tool in pharmaceutical and biomedical analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 147, 439-457. | 1.4 | 101 |
| 7179 | Nanotechnology and Nanomaterials for Improving Neural Interfaces. <i>Advanced Functional Materials</i> , 2018, 28, 1700905. | 7.8 | 56 |
| 7180 | Strategies for improving the lithium-storage performance of 2D nanomaterials. <i>National Science Review</i> , 2018, 5, 389-416. | 4.6 | 108 |
| 7181 | Toxic effects of multi-walled carbon nanotubes on bivalves: Comparison between functionalized and nonfunctionalized nanoparticles. <i>Science of the Total Environment</i> , 2018, 622-623, 1532-1542. | 3.9 | 57 |
| 7182 | Terahertz spectroscopy of charge transport in films of pristine and doped single-wall carbon nanotubes. <i>Carbon</i> , 2018, 126, 544-551. | 5.4 | 31 |
| 7185 | Progress in electrospun polymeric nanofibrous membranes for water treatment: Fabrication, modification and applications. <i>Progress in Polymer Science</i> , 2018, 77, 69-94. | 11.8 | 582 |
| 7186 | Simple and direct synthesis of ZnO decorated multi-walled carbon nanotube for supercapacitor electrodes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 23-27. | 2.3 | 25 |
| 7187 | Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. <i>Energy Storage Materials</i> , 2018, 11, 205-259. | 9.5 | 221 |
| 7188 | Carbon Nanotubes: Synthesis, Characterization, and Applications. , 2018, , 3-35. | | 8 |
| 7189 | Comparison of the effect of carbon, halloysite and titania nanotubes on the mechanical and thermal properties of LDPE based nanocomposite films. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 428-435. | 1.7 | 23 |
| 7190 | Synthesis, analysis and electrical properties of silicon doped BN nanowires. <i>Journal of Alloys and Compounds</i> , 2018, 731, 84-89. | 2.8 | 6 |
| 7191 | Enhanced thermal and mechanical properties of polyvinylidene fluoride composites with magnetic oriented carbon nanotube. <i>Carbon</i> , 2018, 126, 197-207. | 5.4 | 65 |
| 7192 | Laser-induced graphene fibers. <i>Carbon</i> , 2018, 126, 472-479. | 5.4 | 287 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7193 | Electric birefringence of carbon nanotubes: Single- vs double-walled. Carbon, 2018, 126, 77-84. | 5.4 | 13 |
| 7194 | Extreme condition nanocarbon formation under air and argon atmospheres during detonation of composition B-3. Carbon, 2018, 126, 289-298. | 5.4 | 20 |
| 7195 | Template-free synthesis of multifunctional carbonaceous microcone forests. Applied Surface Science, 2018, 428, 66-72. | 3.1 | 1 |
| 7196 | Room temperature monitoring of hydrogen peroxide vapor using platinum nanoparticles-decorated single-walled carbon nanotube networks. Sensors and Actuators B: Chemical, 2018, 256, 744-750. | 4.0 | 32 |
| 7197 | Designer carbon nanotubes for contaminant removal in water and wastewater: A critical review. Science of the Total Environment, 2018, 612, 561-581. | 3.9 | 237 |
| 7198 | Linear vibrations of triple-walled carbon nanotubes. Mathematics and Mechanics of Solids, 2018, 23, 1456-1481. | 1.5 | 23 |
| 7199 | Biofuel Cells. , 2018, , 161-190. | | 1 |
| 7200 | Scalable synthesis of sub-100 nm hollow carbon nanospheres for energy storage applications. Nano Research, 2018, 11, 1822-1833. | 5.8 | 29 |
| 7201 | Direct imaging and determination of the crystal structure of six-layered graphdiyne. Nano Research, 2018, 11, 1714-1721. | 5.8 | 100 |
| 7202 | Low percolation threshold and enhanced electrical and dielectric properties of graphite powder/poly (vinyl alcohol) composites. Polymer Composites, 2018, 39, 4400-4407. | 2.3 | 13 |
| 7203 | Advances in oxidation and ablation resistance of high and ultra-high temperature ceramics modified or coated carbon/carbon composites. Journal of the European Ceramic Society, 2018, 38, 1-28. | 2.8 | 283 |
| 7204 | Impact-resistant fabrics (ballistic/stabbing/slashing/spike). , 2018, , 377-434. | | 5 |
| 7205 | MWCNT/TiO ₂ hybrid nano filler toward high-performance epoxy composite. Ultrasonics Sonochemistry, 2018, 41, 37-46. | 3.8 | 68 |
| 7206 | Intercalation of rigid molecules between carbon nanotubes for adsorption enhancement of typical pharmaceuticals. Chemical Engineering Journal, 2018, 332, 102-108. | 6.6 | 34 |
| 7207 | Diameter controlled growth of SWCNTs using Ru as catalyst precursors coupled with atomic hydrogen treatment. Chemical Engineering Journal, 2018, 332, 92-101. | 6.6 | 11 |
| 7208 | Influence of the Growth Temperature on the Defective Structure of the Multi-walled Carbon Nanotubes. Physica Status Solidi (B): Basic Research, 2018, 255, 1700255. | 0.7 | 12 |
| 7209 | Tubular TiO ₂ Nanostructures: Toward Safer Microsupercapacitors. Advanced Materials Technologies, 2018, 3, 1700194. | 3.0 | 9 |
| 7210 | Self-Assembled Hybrid Materials Based on Organic Nanocrystals and Carbon Nanotubes. Advanced Materials, 2018, 30, 1705027. | 11.1 | 22 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7211 | A nanohybrid probe based on double recognition of an aptamer MIP grafted onto a MWCNTs-Chit nanocomposite for sensing hepatitis C virus core antigen. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 1066-1071. | 4.0 | 74 |
| 7212 | Continuously prepared highly conductive and stretchable SWNT/MWNT synergistically composited electrospun thermoplastic polyurethane yarns for wearable sensing. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2258-2269. | 2.7 | 376 |
| 7213 | Electrochemical performance of all solid-state fluoride-ion batteries based on thin-film electrolyte using alternative conductive additives and anodes. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 997-1006. | 1.2 | 33 |
| 7214 | Carbon nanotubes as nanovectors for intracellular delivery of laronidase in Mucopolysaccharidosis type I. <i>Nanoscale</i> , 2018, 10, 657-665. | 2.8 | 13 |
| 7215 | Ag-Doped PEDOT:PSS/CNT composites for thin-film all-solid-state supercapacitors with a stretchability of 480%. <i>Journal of Materials Chemistry A</i> , 2018, 6, 941-947. | 5.2 | 107 |
| 7216 | Progress of Nanostructured Electrode Materials for Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700110. | 2.7 | 87 |
| 7217 | REVITALIZED INTEREST IN VANADIUM PENTOXIDE AS CATHODE MATERIAL FOR ALKALI-ION BATTERIES. , 2018, , 453-580. | | 0 |
| 7218 | Conductive Tough Hydrogel for Bioapplications. <i>Macromolecular Bioscience</i> , 2018, 18, 1700270. | 2.1 | 52 |
| 7219 | Enhanced Thermal Conductivity of Graphene Nanoplatelet-Polymer Nanocomposites Fabricated via Supercritical Fluid-Assisted in Situ Exfoliation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1225-1236. | 4.0 | 114 |
| 7220 | Exploiting Anti-T-shaped Graphene Architecture to Form Low Tortuosity, Sieve-like Interfaces for High-Performance Anodes for Li-Based Cells. <i>ACS Central Science</i> , 2018, 4, 81-88. | 5.3 | 35 |
| 7221 | Anchoring effect of Ni ²⁺ in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. <i>Carbon</i> , 2018, 128, 249-256. | 5.4 | 28 |
| 7222 | Selective Transport through Membranes with Charged Nanochannels Formed by Scalable Self-Assembly of Random Copolymer Micelles. <i>ACS Nano</i> , 2018, 12, 95-108. | 7.3 | 64 |
| 7223 | Flexible robust binder-free carbon nanotube membranes for solid state and microcapacitor application. <i>Nanotechnology</i> , 2018, 29, 035605. | 1.3 | 4 |
| 7224 | Evaluation of 1st and 2nd generation of poly(amidoamine) dendrimer functionalized carbon nanotubes for the efficient removal of neptunium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 315, 331-340. | 0.7 | 19 |
| 7225 | The interface strength and delamination of fiber-reinforced composites using a continuum modeling approach. <i>Composites Part B: Engineering</i> , 2018, 137, 225-234. | 5.9 | 22 |
| 7226 | Carbon nanotubes: A potential material for energy conversion and storage. <i>Progress in Energy and Combustion Science</i> , 2018, 64, 219-253. | 15.8 | 184 |
| 7227 | Fast switching electrochromic nanocomposite based on Poly(pyridinium salt) and multiwalled carbon nanotubes. <i>Electrochimica Acta</i> , 2018, 260, 139-149. | 2.6 | 13 |
| 7228 | Synthesis, Characterization and Applications of Magnetic Iron Oxide Nanostructures. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 43-61. | 1.7 | 34 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7229 | Effective dispersion of multi-walled carbon nanotubes in aqueous solution using an ionic-gemini dispersant. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 750-757. | 5.0 | 40 |
| 7230 | Improving the electrical and microwave absorbing properties of Si ₃ N ₄ ceramics with carbon nanotube fibers. <i>Ceramics International</i> , 2018, 44, 2727-2731. | 2.3 | 11 |
| 7231 | Synthesis of high growth rate SWCNTs and their magnetite cobalt sulfide nanohybrid as super-adsorbent for mercury removal. <i>Chemical Engineering Research and Design</i> , 2018, 129, 132-149. | 2.7 | 75 |
| 7232 | Highly conductive and anticorrosion Ag/CNTs/NDs hybrid films on molecular-grafted PET substrate for flexible electrodes. <i>Applied Surface Science</i> , 2018, 427, 282-292. | 3.1 | 17 |
| 7233 | Framing the Cattaneo-Christov Heat Flux Phenomena on CNT- Based Maxwell Nanofluid Along Stretching Sheet with Multiple Slips. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 1177-1188. | 1.7 | 24 |
| 7234 | Production of Water Dispersible Carbon Nanotubes and Nanotube/Cellulose Composite. , 2018, , . | | 0 |
| 7235 | Status and Development of Transfer Printing in Textiles- A Review. <i>AATCC Journal of Research</i> , 2018, 5, 1-18. | 0.3 | 6 |
| 7237 | A Molecular Study on Drug Delivery System Based on Carbon Nanotube Compared to Silicon Carbide Nanotube for Encapsulation of Platinum-Based Anticancer Drug. <i>Advanced Pharmaceutical Bulletin</i> , 2018, 8, 163-167. | 0.6 | 26 |
| 7238 | Carbon Nanotubes and CoFe ₂ O ₄ Nanoparticles Composite for Nanomagnetic Sensors. , 2018, , . | | 0 |
| 7239 | Characterization of Multiwall Carbon Nanotube Thin Films Electrodeposited on Indium Tin Oxide Substrates. , 2018, , . | | 1 |
| 7240 | Scalable Production of Graphene/Semiconducting Single-Wall Carbon Nanotube Film Schottky Broadband Photodiode Array with Enhanced Photoresponse. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2369. | 1.3 | 3 |
| 7241 | Physical/Chemical Reactions in Landfills. , 2018, , 117-138. | | 0 |
| 7242 | Simulation of the Raman spectroscopy of multi-layered carbon nanomaterials. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28001-28010. | 1.3 | 8 |
| 7243 | Classical Density Functional Theory Insights for Supercapacitors. , 2018, , . | | 3 |
| 7244 | A high precision length-based carbon nanotube ladder. <i>RSC Advances</i> , 2018, 8, 36049-36055. | 1.7 | 5 |
| 7245 | Charged Carbon Nanotubes. , 0, , . | | 0 |
| 7246 | The Use of Multi-Walled Carbon Nanotubes and Titanium Oxide Nano Particles in the Construction of Calcium Ionophore IV Based Calcium-Selective Electrodes. <i>International Journal of Electrochemical Science</i> , 2018, , 9452-9465. | 0.5 | 3 |
| 7247 | Studies of Nanocomposites of Carbon Nanotubes and a Negative Dielectric Anisotropy Liquid Crystal. , 2018, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7249 | Plant Nanobionics and Its Applications for Developing Plants with Improved Photosynthetic Capacity. , O, , . | | 11 |
| 7250 | Dispersion of Escherichia coli Contaminated Water Using Multiwall carbon nanotube. , 2018, , . | | 0 |
| 7251 | Fabrication and characterization of thermally conductive PMMA/MWCNT nanocomposites. Materials Today: Proceedings, 2018, 5, 28328-28336. | 0.9 | 10 |
| 7252 | Manufacturing and mechanical characterization of multiwalled carbon nanotubes/quartz nanocomposite. Journal of the Ceramic Society of Japan, 2018, 126, 984-991. | 0.5 | 2 |
| 7253 | Direct Synthesis of Carbon Nanotubes in CMOS-Layout of Micro-heaters. , 2018, , . | | 2 |
| 7256 | Advanced Nanomaterials Synthesis from Pyrolysis and Hydrothermal Carbonization: A Review. Current Organic Chemistry, 2018, 22, 446-461. | 0.9 | 22 |
| 7257 | Enhancement of wound healing by single-wall/multi-wall carbon nanotubes complexed with chitosan. International Journal of Nanomedicine, 2018, Volume 13, 7195-7206. | 3.3 | 47 |
| 7258 | Functional materials, device architecture, and flexibility of perovskite solar cell. Emergent Materials, 2018, 1, 133-154. | 3.2 | 128 |
| 7259 | Evaluation of Carbon Nanotubes and Quartz Sand for the Removal of Formaldehydeâ€“(2,4-Dinitrophenylhydrazine) from Aqueous Solutions. Industrial & Engineering Chemistry Research, 2018, 57, 17003-17012. | 1.8 | 12 |
| 7260 | Fabrication and Strength Behavior of MWCNT-Reinforced 5083 Aluminum Alloy Composite via Friction Stir Processing. Materials Transactions, 2018, 59, 1798-1804. | 0.4 | 7 |
| 7261 | Electric-field-induced formation of carbon nanotube filaments. , 2018, , . | | 0 |
| 7262 | Study on the properties of multi-walled carbon nanotubes reinforced poly (vinyl alcohol) composites. Journal of Polymer Research, 2018, 25, 1. | 1.2 | 29 |
| 7264 | Structural Engineering of Nanoparticle Catalysts for Electrochemical Oxidation of Formic Acid. , 2018, , 863-880. | | 1 |
| 7265 | Implantable Neural Probes for Brain-Machine Interfaces ? Current Developments and Future Prospects. Experimental Neurobiology, 2018, 27, 453-471. | 0.7 | 45 |
| 7266 | Carbon nanotubes functionalized with maleic anhydride chelated silver nanoparticles as conductive additives for polyanion-based lithium-ion batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 238-239, 42-49. | 1.7 | 8 |
| 7267 | Fabrication of Self-Entangled 3D Carbon Nanotube Networks from Metalâ€“Organic Frameworks for Li-Ion Batteries. ACS Applied Nano Materials, 2018, 1, 7075-7082. | 2.4 | 10 |
| 7270 | Computer Simulation of Asphaltenes. Petroleum Chemistry, 2018, 58, 983-1004. | 0.4 | 18 |
| 7271 | Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. ACS Nano, 2018, 12, 11756-11784. | 7.3 | 388 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 7272 | Self-Powered Wearable Pressure Sensors with Enhanced Piezoelectric Properties of Aligned P(VDF-TrFE)/MWCNT Composites for Monitoring Human Physiological and Muscle Motion Signs. <i>Nanomaterials</i> , 2018, 8, 1021. | 1.9 | 56 |
| 7273 | Piezoelectric and Dielectric Characterization of MWCNT-Based Nanocomposite Flexible Films. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-15. | 1.5 | 9 |
| 7274 | Effect of Different Electrolytes on the Supercapacitor Behavior of Single and Multilayered Electrode Materials Based on Multiwalled Carbon Nanotube/Polyaniline Composite. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800213. | 1.1 | 6 |
| 7275 | The role of surfactants in wastewater treatment: Impact, removal and future techniques: A critical review. <i>Water Research</i> , 2018, 147, 60-72. | 5.3 | 190 |
| 7276 | The Porous Carbon Nanotube-Cellulose Papers as Current Collector and Electrode for Lithium Ion Battery and Supercapacitor Applications. , 2018, , . | | 0 |
| 7277 | Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2018, 402, 281-295. | 4.0 | 160 |
| 7278 | Free-standing Electrodes Derived from Metal-Organic Frameworks/ Nanofibers Hybrids for Membrane Capacitive Deionization. <i>Advanced Materials Technologies</i> , 2018, 3, 1800135. | 3.0 | 41 |
| 7279 | Modified Electrodes for Selective Voltammetric Detection of Biomolecules. <i>Electroanalysis</i> , 2018, 30, 2551-2574. | 1.5 | 16 |
| 7280 | High Electromagnetic Interference Shielding Effectiveness of Carbon Nanotube-Cellulose Composite Films with Layered Structures. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800377. | 1.7 | 34 |
| 7281 | Advanced Nanocarbon Materials for Future Energy Applications. , 2018, , 305-325. | | 7 |
| 7282 | Gold biotechnology: Development and advancements. <i>AIP Conference Proceedings</i> , 2018, , . | 0.3 | 1 |
| 7283 | The Reduction Temperature Effect of Fe-Co/MgO Catalyst on Characteristics of Multi-Walled Carbon Nanotubes. <i>Catalysts</i> , 2018, 8, 361. | 1.6 | 4 |
| 7284 | Nitrogen doped carbon nanocage modulated turn-on fluorescent probes for ATP detection <i>in vitro</i> and imaging in living cells. <i>Analytical Methods</i> , 2018, 10, 4765-4775. | 1.3 | 4 |
| 7286 | Debundling, Dispersion, and Stability of Multiwalled Carbon Nanotubes Driven by Molecularly Designed Electron Acceptors. <i>Langmuir</i> , 2018, 34, 12137-12144. | 1.6 | 7 |
| 7288 | Direct Electricity Generation Mediated by Molecular Interactions with Low Dimensional Carbon Materials—A Mechanistic Perspective. <i>Advanced Energy Materials</i> , 2018, 8, 1802212. | 10.2 | 47 |
| 7289 | Effect of carbon nano-tubes and dispersions of SiC and Al ₂ O ₃ on the mechanical and physical properties of copper-nickel alloy. <i>Heliyon</i> , 2018, 4, e00876. | 1.4 | 8 |
| 7290 | Threshold Rigidity Values for the Asbestos-like Pathogenicity of High-Aspect-Ratio Carbon Nanotubes in a Mouse Pleural Inflammation Model. <i>ACS Nano</i> , 2018, 12, 10867-10879. | 7.3 | 20 |
| 7291 | Ultralarge Modulation of Fluorescence by Neuromodulators in Carbon Nanotubes Functionalized with Self-Assembled Oligonucleotide Rings. <i>Nano Letters</i> , 2018, 18, 6995-7003. | 4.5 | 70 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7292 | An Immunologically Modified Nanosystem Based on Noncovalent Binding Between Single-Walled Carbon Nanotubes and Glycated Chitosan. <i>Technology in Cancer Research and Treatment</i> , 2018, 17, 153303381880231. | 0.8 | 3 |
| 7293 | Effect of constructive rehybridization on transverse conductivity of aligned single-walled carbon nanotube films. <i>Materials Today</i> , 2018, 21, 937-943. | 8.3 | 10 |
| 7294 | Design and Simulation Study of a CNT-Based Multisource Cubical CT System for Dynamic Objects. <i>Scanning</i> , 2018, 2018, 1-15. | 0.7 | 4 |
| 7295 | Surface modification of Sb-SnO ₂ /potassium titanate composite and their performance for acrylic coatings. <i>Journal of Polymer Engineering</i> , 2018, 38, 849-856. | 0.6 | 0 |
| 7296 | Effect of Drying Methods of Alumina Powder and Graphene Oxide Mixture on the Mechanical and Electrical Properties of Sintered Composites Fabricated by Spark Plasma Sintering. <i>Inorganic Materials: Applied Research</i> , 2018, 9, 930-936. | 0.1 | 3 |
| 7297 | Restructured Fe~Mn Alloys Encapsulated by N-doped Carbon Nanotube Catalysts Derived from Bimetallic MOF for Enhanced Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2018, 10, 5475-5486. | 1.8 | 39 |
| 7298 | Synthesis of Carbon Nanotubes on a Shungite Substrate and Their Use for Lithium-Sulfur Batteries. <i>Journal of Engineering Physics and Thermophysics</i> , 2018, 91, 1295-1301. | 0.2 | 7 |
| 7299 | The Yin and Yang of carbon nanomaterials in atherosclerosis. <i>Biotechnology Advances</i> , 2018, 36, 2232-2247. | 6.0 | 43 |
| 7300 | Piezoelectric Response of Porous Nanotubes Derived from Hexagonal Boron Nitride under Strain Influence. <i>ACS Omega</i> , 2018, 3, 13413-13421. | 1.6 | 10 |
| 7301 | Effect of degree correlation on the thermal transport in complex networks. <i>Nonlinear Dynamics</i> , 2018, 94, 3067-3075. | 2.7 | 5 |
| 7302 | Carbon Nanomaterials Based Smart Fabrics with Selectable Characteristics for In-Line Monitoring of High-Performance Composites. <i>Materials</i> , 2018, 11, 1677. | 1.3 | 13 |
| 7304 | In Situ TEM: Theory and Applications. <i>Springer Tracts in Modern Physics</i> , 2018, , 381-477. | 0.1 | 1 |
| 7305 | Advances in bionanocomposites for biomedical applications. , 2018, , 379-399. | | 3 |
| 7306 | A Theoretical Model of Laser Heating Carbon Nanotubes. <i>Nanomaterials</i> , 2018, 8, 580. | 1.9 | 14 |
| 7307 | Impact of channel length, gate insulator thickness, gate insulator material, and temperature on the performance of nanoscale FETs. <i>Journal of Computational Electronics</i> , 2018, 17, 1521-1527. | 1.3 | 20 |
| 7308 | Preparation of thiolated calix[8]arene/AuNPs/MWCNTs modified glassy carbon electrode and its electrocatalytic oxidation toward paracetamol. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 289-296. | 4.0 | 54 |
| 7309 | Electronic properties of armchair graphene nanoribbons under uniaxial strain and electric field. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850263. | 1.0 | 1 |
| 7310 | Introduction to Nanomaterials and Polymer Nanocomposite Processing. <i>Springer Series in Materials Science</i> , 2018, , 1-14. | 0.4 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 7311 | Direct Chirality Recognition of Single-Walled Crystalline and Single-Walled Transition Metal Oxide Nanotubes on Carbon Nanotube Templates. <i>Advanced Materials</i> , 2018, 30, e1803368. | 11.1 | 14 |
| 7312 | Effect of alignment and packing density on the stress relaxation process of carbon nanotube fibers spun from floating catalyst chemical vapor deposition method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 570-578. | 2.3 | 25 |
| 7313 | A carbon nanotube integrated microfluidic device for blood plasma extraction. <i>Scientific Reports</i> , 2018, 8, 13623. | 1.6 | 12 |
| 7314 | Flexible Asymmetric Supercapacitors with Ultrahigh Energy Density through Synergistic Design of Electrodes. <i>Advanced Science</i> , 2018, 5, 1800784. | 5.6 | 40 |
| 7315 | MWCNT/CdSe quantum dot modified glassy carbon electrode for the determination of clopidogrel bisulfate in tablet dosage form and serum samples. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 51-57. | 1.9 | 13 |
| 7316 | Synergistic reinforcing and toughening of polydicyclopentadiene nanocomposites with low loadings vinyl-functionalized multi-walled carbon nanotubes. <i>Polymer</i> , 2018, 153, 287-294. | 1.8 | 13 |
| 7317 | Quantification of Carbon Nanotube Liquid Crystal Morphology via Neutron Scattering. <i>Macromolecules</i> , 2018, 51, 6892-6900. | 2.2 | 9 |
| 7318 | Modulation of thermal conductivity in single-walled carbon nanotubes by fullerene encapsulation: enhancement or reduction?. <i>Nanoscale</i> , 2018, 10, 18249-18256. | 2.8 | 9 |
| 7319 | Performance of Carbon Nano-Scale Allotropes in Detecting Midazolam and Paracetamol in Undiluted Human Serum. <i>IEEE Sensors Journal</i> , 2018, 18, 5073-5081. | 2.4 | 13 |
| 7320 | Comparative Study of Li ₄ Ti ₅ O ₁₂ Composites Prepared with Pristine, Oxidized, and Surfactant-Treated Multiwalled Carbon Nanotubes for High-Power Hybrid Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 2357-2366. | 1.7 | 15 |
| 7321 | Structure-property relationships of coronene in external electric field. <i>Organic Electronics</i> , 2018, 59, 196-201. | 1.4 | 4 |
| 7322 | Dielectric properties of irradiated polymer/multiwalled carbon nanotube and its amino functionalized form. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46647. | 1.3 | 37 |
| 7323 | Nanotechnology Prospects and Constraints in Agriculture. <i>Environmental Chemistry for A Sustainable World</i> , 2018, , 159-186. | 0.3 | 5 |
| 7324 | Crystalline multiwall carbon nanotubes and their application as a field emission electron source. <i>Nanotechnology</i> , 2018, 29, 345601. | 1.3 | 6 |
| 7325 | Exploring the Confinement Effect of Carbon Nanotubes on the Electrochemical Properties of Prussian Blue Nanoparticles. <i>Langmuir</i> , 2018, 34, 6983-6990. | 1.6 | 14 |
| 7326 | Review on flexible photonics/electronics integrated devices and fabrication strategy. <i>Science China Information Sciences</i> , 2018, 61, 1. | 2.7 | 72 |
| 7327 | Electrical conductivity and Vickers hardness enhancement by pristine and functionalized MWCNTs incorporation in polycaprolactam matrix. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15776-15783. | 1.1 | 4 |
| 7328 | A novel approach to align carbon nanotubes via water-assisted shear stretching. <i>Composites Science and Technology</i> , 2018, 164, 1-7. | 3.8 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7329 | Mechanism of axial strain effects on friction in carbon nanotube rotating bearings. <i>Nanotechnology</i> , 2018, 29, 325703. | 1.3 | 7 |
| 7330 | Progress in polyketone materials: blends and composites. <i>Polymer International</i> , 2018, 67, 1478-1487. | 1.6 | 26 |
| 7331 | Non-intertwined graphitic domains leads to super strong and tough continuous 1D nanostructures. <i>Carbon</i> , 2018, 137, 242-251. | 5.4 | 22 |
| 7332 | Prodegradant effect of titanium dioxide nanoparticulates on polypropylene/polyhydroxybutyrate blends. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46636. | 1.3 | 6 |
| 7333 | Antimicrobial properties of lignin-decorated thin multi-walled carbon nanotubes in poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 582 | 2.6 | 49 |
| 7334 | Effect of different catalyst preparation methods on the synthesis of carbon nanotubes with the flame pyrolysis method. <i>AIP Advances</i> , 2018, 8, . | 0.6 | 13 |
| 7335 | High Aspect Ratio Nanostructures Kill Bacteria <i>via</i> Storage and Release of Mechanical Energy. <i>ACS Nano</i> , 2018, 12, 6657-6667. | 7.3 | 120 |
| 7336 | CCSDT(Q)/CBS thermochemistry for the D5h ⁻ â†’â€”D10h isomerization in the C10 carbon cluster: Getting the right answer for the right reason. <i>Chemical Physics Letters</i> , 2018, 706, 19-23. | 1.2 | 4 |
| 7337 | Nanoscaffolds in promoting regeneration of the peripheral nervous system. <i>Nanomedicine</i> , 2018, 13, 1067-1085. | 1.7 | 30 |
| 7338 | Electrical conduction mechanisms in graphene nanoplatelet/yttria tetragonal zirconia composites. <i>Ceramics International</i> , 2018, 44, 14610-14616. | 2.3 | 22 |
| 7339 | Non-isothermal crystallization kinetics of Poly(Butylene succinate) (PBS) nanocomposites with different modified carbon nanotubes. <i>Polymer</i> , 2018, 146, 361-377. | 1.8 | 37 |
| 7340 | Carbon Nanotube Film Gate in Vacuum Electronic Devices. <i>Nano Letters</i> , 2018, 18, 4691-4696. | 4.5 | 8 |
| 7341 | The Effect of Multi Wall Carbon Nanotubes on Some Physical Properties of Epoxy Matrix. <i>Journal of Physics: Conference Series</i> , 2018, 1003, 012102. | 0.3 | 4 |
| 7342 | Interplay Between Engineered Nanomaterials (ENMs) and Edible Plants: A Current Perspective. , 2018, , 63-102. | | 12 |
| 7343 | Improving the thermal stability of carbon nanotubes and their field emission characteristics by adding boron and phosphorus compounds. <i>Carbon</i> , 2018, 139, 404-414. | 5.4 | 14 |
| 7344 | Manganese phytate dotted polyaniline shell enwrapped carbon nanotube: Towards the reinforcements in fire safety and mechanical property of polymer. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 345-356. | 5.0 | 58 |
| 7345 | Electrical and Electromagnetic Properties of CNT/Polymer Composites. , 2018, , 233-258. | | 4 |
| 7346 | Preparation of Cu2O/CNTs composite and its application as sensing platform for detecting nitrite in water environment. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 128, 189-196. | 2.5 | 25 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7347 | Mechanical and thermal behavior dependence on graphite and oxidized graphite content in polyester composites. <i>Polymer</i> , 2018, 153, 9-16. | 1.8 | 31 |
| 7348 | A high precision method for length-based separation of carbon nanotubes using bio-conjugation, SDS-PAGE and silver staining. <i>PLoS ONE</i> , 2018, 13, e0197972. | 1.1 | 16 |
| 7349 | Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for High Performance Humidity Sensing. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11218-11222. | 7.2 | 33 |
| 7350 | Progress in polymer-derived functional silicon-based ceramic composites for biomedical and engineering applications. <i>Materials Research Express</i> , 2018, 5, 062003. | 0.8 | 27 |
| 7351 | Carbon and Metal Oxides Based Nanomaterials for Flexible High Performance Asymmetric Supercapacitors. <i>Springer Theses</i> , 2018, , . | 0.0 | 5 |
| 7352 | Carbon-Based Nanomaterials for Electrochemical DNA Sensing. , 2018, , 113-150. | | 4 |
| 7353 | Facile synthesis and microwave absorption investigation of activated carbon@Fe ₃ O ₄ composites in the low frequency band. <i>RSC Advances</i> , 2018, 8, 23048-23057. | 1.7 | 23 |
| 7354 | 6.11 Conductive Nanocomposites for Multifunctional Sensing Applications. , 2018, , 315-351. | | 4 |
| 7355 | Evaluation of new cholinium-amino acids based room temperature ionic liquids (RTILs) as immobilization matrix for electrochemical biosensor development: Proof-of-concept with <i>Trametes Versicolor</i> laccase. <i>Microchemical Journal</i> , 2018, 141, 346-352. | 2.3 | 20 |
| 7356 | Ultralight, highly flexible and conductive carbon foams for high performance electromagnetic shielding application. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13643-13652. | 1.1 | 24 |
| 7357 | Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for High Performance Humidity Sensing. <i>Angewandte Chemie</i> , 2018, 130, 11388-11392. | 1.6 | 0 |
| 7358 | Optical Ultrasound Generation and Detection for Intravascular Imaging: A Review. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-14. | 1.1 | 21 |
| 7359 | Nanoadsorbents-based polymer nanocomposite for environmental remediation. , 2018, , 243-260. | | 6 |
| 7360 | Improving the mechanical properties of Fe ₃ O ₄ /carbon nanotube reinforced nanocomposites by a low-magnetic-field induced alignment. <i>Journal of Polymer Engineering</i> , 2018, 38, 731-738. | 0.6 | 8 |
| 7361 | Synthesis of Carbon Nanomaterials from Rice Husk via Microwave Oven. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-5. | 1.5 | 35 |
| 7362 | Scanning Techniques for Nanobioconjugates of Carbon Nanotubes. <i>Scanning</i> , 2018, 2018, 1-19. | 0.7 | 7 |
| 7363 | Effects of single-walled carbon nanotubes on growth and physiological characteristics of <i>Microcystis aeruginosa</i> . <i>Journal of Central South University</i> , 2018, 25, 1628-1641. | 1.2 | 6 |
| 7364 | Carbon nanotube-based nanocomposites for wind turbine applications. , 2018, , 635-661. | | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7365 | Carbon Nanotube Tube Filled Polymer Nanocomposites and Their Applications in Tissue Engineering. , 2018, , 391-414. | | 8 |
| 7366 | Innovative evolution of buckling structures for flexible electronics. Composite Structures, 2018, 204, 487-499. | 3.1 | 15 |
| 7367 | Understanding the influence of in-plane gate electrode design on electrolyte gated transistor. Microelectronic Engineering, 2018, 199, 87-91. | 1.1 | 13 |
| 7368 | Controlling the nonlinear absorption characteristics of TiO ₂ /carbon nanocomposites on films. Optics and Laser Technology, 2018, 108, 510-514. | 2.2 | 13 |
| 7369 | Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. Nano Letters, 2018, 18, 5514-5521. | 4.5 | 153 |
| 7370 | Experimental Study on Force Sensitivity of the Conductivity of Carbon Nanotubes-Modified Epoxy Resins. Materials, 2018, 11, 1174. | 1.3 | 4 |
| 7371 | Preparation of palladized carbon nanotubes encapsulated iron composites: highly efficient dechlorination for trichloroethylene and low corrosion of nanoiron. Royal Society Open Science, 2018, 5, 172242. | 1.1 | 6 |
| 7372 | Ultrastretchable Fiber Sensor with High Sensitivity in Whole Workable Range for Wearable Electronics and Implantable Medicine. Advanced Science, 2018, 5, 1800558. | 5.6 | 119 |
| 7373 | Mechanical behaviors of T-carbon: A molecular dynamics study. Carbon, 2018, 138, 357-362. | 5.4 | 27 |
| 7374 | High Strength Conductive Polyamide 6 Nanocomposites Reinforced by Prebuilt Three-Dimensional Carbon Nanotube Networks. ACS Applied Materials & Interfaces, 2018, 10, 28103-28111. | 4.0 | 26 |
| 7375 | Engineered Nanomaterial in Electronics and Electrical Industries. , 2018, , 324-364. | | 13 |
| 7376 | Preparation of self-healing, recyclable epoxy resins and low-electrical resistance composites based on double-disulfide bond exchange. Composites Science and Technology, 2018, 167, 79-85. | 3.8 | 146 |
| 7377 | Hybrid spray-coating, laser-scribing and ink-dispensing of graphene sensors/arrays with tunable piezoresistivity for in situ monitoring of composites. Carbon, 2018, 139, 437-444. | 5.4 | 37 |
| 7378 | Channelling and induced defects at ion-bombarded aligned multiwall carbon nanotubes. Carbon, 2018, 139, 768-775. | 5.4 | 24 |
| 7379 | Halloysite nanotubes in analytical sciences and in drug delivery: A review. Mikrochimica Acta, 2018, 185, 389. | 2.5 | 95 |
| 7380 | Eco-polymer and Carbon Nanotube Composite: Safe Technology. , 2018, , 1-16. | | 0 |
| 7381 | Multifunctional hybrid nanoparticles for theranostics * *All authors have contributed equally to this work.. , 2018, , 177-244. | | 2 |
| 7382 | The Activation of Methane on Ru, Rh, and Pd Decorated Carbon Nanotube and Boron Nitride Nanotube: A DFT Study. Catalysts, 2018, 8, 190. | 1.6 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7383 | Necklace-like Molecularly Imprinted Nanohybrids Based on Polymeric Nanoparticles Decorated Multiwalled Carbon Nanotubes for Highly Sensitive and Selective Melamine Detection. ACS Applied Materials & Interfaces, 2018, 10, 24850-24859. | 4.0 | 44 |
| 7385 | Physical properties of polyvinylidene fluoride/multi-walled carbon nanotube nanocomposites with special reference to electromagnetic interference shielding effectiveness. Advances in Polymer Technology, 2018, 37, 3287-3296. | 0.8 | 25 |
| 7386 | Comparative analysis of memristor models and memories design. Journal of Semiconductors, 2018, 39, 074006. | 2.0 | 26 |
| 7387 | Review of nanomaterials-assisted ion exchange membranes for electromembrane desalination. Npj Clean Water, 2018, 1, . | 3.1 | 79 |
| 7388 | Bioactive poly(etheretherketone) composite containing calcium polyphosphate and multi-walled carbon nanotubes for bone repair: Mechanical property and in vitro biocompatibility. Journal of Bioactive and Compatible Polymers, 2018, 33, 543-557. | 0.8 | 8 |
| 7389 | Improvement in Electrode Performance of Novel SWCNT Loaded Three-Dimensional Porous RVC Composite Electrodes by Electrochemical Deposition Method. Nanomaterials, 2018, 8, 19. | 1.9 | 19 |
| 7390 | Epoxidation of Carbon Nanocapsules: Decoration of Single-Walled Carbon Nanotubes Filled with Metal Halides. Nanomaterials, 2018, 8, 137. | 1.9 | 8 |
| 7391 | Comparative Study of the ORR Activity and Stability of Pt and PtM (M = Ni, Co, Cr, Pd) Supported on Polyaniline/Carbon Nanotubes in a PEM Fuel Cell. Nanomaterials, 2018, 8, 299. | 1.9 | 42 |
| 7392 | Suspended Carbon Nanotubes for Humidity Sensing. Sensors, 2018, 18, 1655. | 2.1 | 32 |
| 7393 | Field Emission from Carbon Nanostructures. Applied Sciences (Switzerland), 2018, 8, 526. | 1.3 | 125 |
| 7394 | Potential Applications and Avenues of Nanotechnology in Sustainable Agriculture. , 2018, , 473-500. | | 17 |
| 7395 | 19-Fold thermal conductivity increase of carbon nanotube bundles toward high-end thermal design applications. Carbon, 2018, 139, 445-458. | 5.4 | 30 |
| 7396 | High adsorption performance of β -cyclodextrin-functionalized multi-walled carbon nanotubes for the removal of organic dyes from water and industrial wastewater. Journal of Environmental Chemical Engineering, 2018, 6, 4634-4643. | 3.3 | 83 |
| 7397 | Preparation of the CNTs/AG/ITO electrode with high electro-catalytic activity for 2-chlorophenol degradation and the potential risks from intermediates. Journal of Hazardous Materials, 2018, 359, 148-156. | 6.5 | 29 |
| 7398 | First principles study of electronic structure and carrier mobility in β -armchair antimony nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2978-2983. | 0.9 | 4 |
| 7399 | Lithography-free control of the position of single-walled carbon nanotubes on a substrate by focused ion beam induced deposition of catalyst and chemical vapor deposition. Applied Physics Express, 2018, 11, 085101. | 1.1 | 1 |
| 7400 | Gelation-Assisted Layer-by-Layer Deposition of High Performance Nanocomposites. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1383-1398. | 1.4 | 6 |
| 7401 | Temperature Dependence of G^{*} Mode in Raman Spectra of Metallic Single-Walled Carbon Nanotubes. Journal of Nanomaterials, 2018, 2018, 1-6. | 1.5 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7402 | Synthesis mechanism of carbon nanotube fibers using reactor design principles. <i>Chemical Engineering Science</i> , 2018, 192, 655-664. | 1.9 | 14 |
| 7403 | Conductive and durable CNT-cotton ring spun yarns. <i>Cellulose</i> , 2018, 25, 4239-4249. | 2.4 | 28 |
| 7404 | Preparation and Properties of Aqueous SCNTs Dispersion based on A UV-curable Polymeric Dispersant. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 485-491. | 0.4 | 1 |
| 7405 | Novel ZnO-Ag/MWCNT nanocomposite for the photocatalytic degradation of phenol. <i>Materials Science in Semiconductor Processing</i> , 2018, 83, 175-185. | 1.9 | 73 |
| 7406 | Engineering graphene and TMDs based van der Waals heterostructures for photovoltaic and photoelectrochemical solar energy conversion. <i>Chemical Society Reviews</i> , 2018, 47, 4981-5037. | 18.7 | 344 |
| 7407 | Advanced Hierarchical Vesicular Carbon Co-doped with S, P, N for High-rate Sodium Storage. <i>Advanced Science</i> , 2018, 5, 1800241. | 5.6 | 225 |
| 7408 | Benchmark study of ionization potentials and electron affinities of armchair single-walled carbon nanotubes using density functional theory. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 215501. | 0.7 | 10 |
| 7409 | Effects of the filler size on the electrical percolation threshold of carbon black-carbon nanotube-polymer composites. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46517. | 1.3 | 20 |
| 7410 | Nitrogen-doped biomass-based hierarchical porous carbon with large mesoporous volume for application in energy storage. <i>Chemical Engineering Journal</i> , 2018, 348, 850-859. | 6.6 | 107 |
| 7411 | Polytriphenylamine Derivative and Carbon Nanotubes as Cathode Materials for High-Performance Polymer-Based Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20057-20063. | 1.5 | 14 |
| 7412 | <i>Plasma Nanoscience and Nanotechnology</i> , 2018, , 365-453. | | 0 |
| 7413 | Creep study on alumina and alumina/SWCNT nanocomposites. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5497-5502. | 2.8 | 14 |
| 7414 | Controlling fracture cascades through twisting and quenching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8665-8670. | 3.3 | 16 |
| 7415 | Metal ion effect on the supramolecular structures of metalloporphyrins on single-walled carbon nanotube surface. <i>Applied Surface Science</i> , 2018, 462, 904-912. | 3.1 | 19 |
| 7416 | A flexible carbon/sulfur-cellulose core-shell structure for advanced lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018, 15, 388-395. | 9.5 | 38 |
| 7417 | Design and mechanical characterization of a novel carbon-based hybrid foam: A molecular dynamics study. <i>Computational Materials Science</i> , 2018, 154, 122-131. | 1.4 | 13 |
| 7418 | Synthesis of Amorphous Carbon Film in Ethanol Inverse Diffusion Flames. <i>Nanomaterials</i> , 2018, 8, 656. | 1.9 | 4 |
| 7419 | Influence of hybrid graphene oxide-carbon nanotube as a nano-filler on the interfacial interaction in nylon composites prepared by in situ interfacial polymerization. <i>Carbon</i> , 2018, 140, 324-337. | 5.4 | 36 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7420 | Binder-Free Co ₄ N Nanoarray on Carbon Cloth as Flexible High-Performance Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 4432-4439. | 2.5 | 13 |
| 7421 | Ab initio investigation of structure, stability, thermal behavior and infrared spectra of (BN) ₄ cluster. <i>Computational and Theoretical Chemistry</i> , 2018, 1141, 1-6. | 1.1 | 5 |
| 7422 | On the torsional vibrations of restrained nanotubes embedded in an elastic medium. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1. | 0.8 | 30 |
| 7423 | 2.17 Carbon Fiber Reinforced Plastics " Properties. , 2018, , 342-359. | | 6 |
| 7424 | Size effect for achieving high mechanical performance body-centered cubic metals and alloys. <i>Science China Materials</i> , 2018, 61, 1495-1516. | 3.5 | 14 |
| 7425 | Some activities of PorphyChem illustrated by the applications of porphyrinoids in PDT, PIT and PDI. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1675-1690. | 1.6 | 56 |
| 7426 | Transition metals adsorption and conductivity modification in carbon nanotubes: analytical modeling and DFT study. <i>Adsorption</i> , 2018, 24, 575-583. | 1.4 | 7 |
| 7427 | Fabrication of polyketone-grafted multi-walled carbon nanotubes using Grignard reagent and their composites with polyketone. <i>Composites Science and Technology</i> , 2018, 167, 199-205. | 3.8 | 10 |
| 7428 | Hydroxide Ions Stabilize Open Carbon Nanotubes in Degassed Water. <i>ACS Nano</i> , 2018, 12, 8606-8615. | 7.3 | 7 |
| 7429 | Metallic \rightarrow Semiconducting transitions in HX(X=F, Br, Cl) adsorbed (5,5) and (7,7) carbon nanotubes: DFT study. <i>AIP Conference Proceedings</i> , 2018, , . | 0.3 | 0 |
| 7430 | Bio-Based Transparent Conductive Film Consisting of Polyethylene Furanoate and Silver Nanowires for Flexible Optoelectronic Devices. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800271. | 2.0 | 34 |
| 7431 | Evolution of electro-chemical and electro-optical properties of nematic liquid crystal doped with graphene oxide. <i>Journal of Molecular Liquids</i> , 2018, 265, 398-407. | 2.3 | 28 |
| 7432 | Fully Printed and Flexible Carbon Nanotube Transistors for Pressure Sensing in Automobile Tires. <i>IEEE Sensors Journal</i> , 2018, 18, 7875-7880. | 2.4 | 61 |
| 7433 | Carbon nanotube-reinforced smart composites for sensing freezing temperature and deicing by self-heating. <i>Nanomaterials and Nanotechnology</i> , 2018, 8, 184798041877647. | 1.2 | 42 |
| 7434 | Postbuckling analysis of functionally graded nanoplates based on nonlocal theory and isogeometric analysis. <i>Composite Structures</i> , 2018, 201, 13-20. | 3.1 | 18 |
| 7435 | The influence of salinity on the effects of Multi-walled carbon nanotubes on polychaetes. <i>Scientific Reports</i> , 2018, 8, 8571. | 1.6 | 12 |
| 7436 | Interfacially enhancement of PBO/epoxy composites by grafting MWCNTs onto PBO surface through melamine as molecular bridge. <i>Materials Research Express</i> , 2018, 5, 065006. | 0.8 | 9 |
| 7437 | Synthesis, electrochemistry and electrocatalytic activity of cobalt phthalocyanine complexes " Effects of substituents for oxygen reduction reaction. <i>Polyhedron</i> , 2018, 152, 114-124. | 1.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7438 | Generation of Pd@Ni@CNTs from Polyethylene Wastes and Their Application in the Electrochemical Hydrogen Evolution Reaction. <i>ChemistrySelect</i> , 2018, 3, 5321-5325. | 0.7 | 13 |
| 7439 | 6.7 Electrospun Polymer Nanofibers and Their Composites. , 2018, , 162-200. | | 12 |
| 7440 | 2.10 Semiconductors. , 2018, , 266-302. | | 0 |
| 7441 | Carbon-Based Nanocomposite Proton Exchange Membranes for Fuel Cells. , 2018, , 437-461. | | 5 |
| 7442 | Continuously fabricated transparent conductive polycarbonate/carbon nanotube nanocomposite films for switchable thermochromic applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8360-8371. | 2.7 | 79 |
| 7443 | Nanodiamond decorated graphene oxide and the reinforcement to epoxy. <i>Composites Science and Technology</i> , 2018, 165, 9-17. | 3.8 | 26 |
| 7444 | Dandelion-Like Microspherical MCM-22 Zeolite Using BP 2000 as a Hard Template. <i>ACS Omega</i> , 2018, 3, 6217-6223. | 1.6 | 13 |
| 7445 | Piezoresistivity of conductive polymer nanocomposites: Experiment and modeling. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 1085-1098. | 1.6 | 18 |
| 7446 | Carbon-Based Polymer Nanocomposites for Sensing Applications. , 2018, , 331-360. | | 2 |
| 7447 | Nanomaterials history, classification, unique properties, production and market. , 2018, , 341-384. | | 68 |
| 7448 | Mesoscopic friction and network morphology control the mechanics and processing of carbon nanotube yarns. <i>Carbon</i> , 2018, 139, 94-104. | 5.4 | 17 |
| 7449 | An Electrochemical Comparison of Single-Walled and Multi-Walled Carbon Nanotubes Utilizing Paeonol as the Model Drug. <i>ChemistrySelect</i> , 2018, 3, 6406-6413. | 0.7 | 4 |
| 7450 | Wave Propagation in Fluid-Filled Single-Walled Carbon Nanotube Based on the Nonlocal Strain Gradient Theory. <i>Acta Mechanica Solida Sinica</i> , 2018, 31, 484-492. | 1.0 | 29 |
| 7451 | An order reduction method for single-walled carbon nanotubes with multi-vacancy defects. <i>Carbon</i> , 2018, 138, 81-89. | 5.4 | 7 |
| 7452 | Flexible NO ₂ gas sensor based on single-walled carbon nanotubes on polytetrafluoroethylene substrates. <i>Flexible and Printed Electronics</i> , 2018, 3, 035001. | 1.5 | 44 |
| 7453 | Smart dispersion: Validation of OCT and impedance spectroscopy as solutions for in-situ dispersion analysis of CNP/EP-composites. <i>Materialia</i> , 2018, 1, 185-197. | 1.3 | 9 |
| 7454 | Thermomechanical behaviour of zirconia-multiwalled carbon nanotube-reinforced polypropylene hybrid composites. <i>Polymer Bulletin</i> , 2019, 76, 511-521. | 1.7 | 5 |
| 7455 | Hierarchical Carbon Nanotube@SiO ₂ -TiO ₂ Reinforced Polyurethane Composites: Thermal, Mechanical and Abrasion Resistance Properties. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 295-304. | 0.6 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7456 | Numerical simulation of unsteady MHD natural convection of CNT-water nanofluid in square cavity heated sinusoidally from below. <i>Particulate Science and Technology</i> , 2019, 37, 851-870. | 1.1 | 6 |
| 7457 | Structural Characterization and Identification of Graphdiyne and Graphdiyne-Based Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2717-2729. | 4.0 | 62 |
| 7458 | Crack growth analysis of carbon nanotube reinforced polymer nanocomposite using extended finite element method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 1750-1770. | 1.1 | 16 |
| 7459 | The geometrical advantages of helical carbon nanotubes for high-performance multifunctional polymeric nanocomposites. <i>Composites Part B: Engineering</i> , 2019, 156, 28-42. | 5.9 | 32 |
| 7460 | Free vibration of nonlocal Timoshenko beams made of functionally graded materials by Symplectic method. <i>Composites Part B: Engineering</i> , 2019, 156, 174-184. | 5.9 | 56 |
| 7461 | Nanocarbons in Li-Ion Batteries. <i>Nanostructure Science and Technology</i> , 2019, , 419-453. | 0.1 | 0 |
| 7462 | Functionalization of Carbon Nanostructures. , 2019, , 123-144. | | 25 |
| 7463 | Hierarchical nanoporous activated carbon as potential electrode materials for high performance electrochemical supercapacitor. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 236-244. | 2.2 | 70 |
| 7464 | Synergetic effect of triglycine sulfate and graphite nanoplatelets on dielectric and piezoelectric properties of epoxy resin composites. <i>Polymer Composites</i> , 2019, 40, E1181. | 2.3 | 4 |
| 7465 | Enhancing the Thermal Stability of Carbon Nanomaterials with DNA. <i>Scientific Reports</i> , 2019, 9, 11926. | 1.6 | 16 |
| 7466 | Journey of Electroactive β -Polymorph of Poly(vinylidene fluoride) from Crystal Growth to Design to Applications. <i>Crystal Growth and Design</i> , 2019, 19, 5441-5456. | 1.4 | 42 |
| 7467 | Carbon Nanotube Coated Conductors. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1797-1806. | 2.0 | 6 |
| 7468 | Biomass-derived phosphorus-doped carbon materials as efficient metal-free catalysts for selective aerobic oxidation of alcohols. <i>Green Chemistry</i> , 2019, 21, 5274-5283. | 4.6 | 65 |
| 7469 | Entropy analysis of Hall current and thermal radiation influenced by cilia with single- and multi-walled carbon nanotubes. <i>Bulletin of Materials Science</i> , 2019, 42, 1. | 0.8 | 17 |
| 7470 | Carbonized Polymer Dots: A Brand New Perspective to Recognize Luminescent Carbon-Based Nanomaterials. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5182-5188. | 2.1 | 197 |
| 7471 | Investigation of thermal characteristics of carbon nanotubes: Measurement and dependence. <i>Journal of Molecular Liquids</i> , 2019, 294, 111564. | 2.3 | 18 |
| 7472 | Effect of multi-walled carbon nanotubes on thermal stability of polyurethane nanocomposites. <i>Materials Research Express</i> , 2019, 6, 105336. | 0.8 | 15 |
| 7473 | Homogeneous dispersion of multiwalled carbon nanotubes via in situ bubble stretching and synergistic cyclic volume stretching for conductive LDPE/MWCNTs nanocomposites. <i>Polymer Engineering and Science</i> , 2019, 59, 2072-2081. | 1.5 | 6 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7474 | Fabrication and evaluation of multi-walled carbon nanotube polymer actuator using the electrospinning method. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SDDF10. | 0.8 | 0 |
| 7475 | Inhalation exposure to multi-walled carbon nanotubes alters the pulmonary allergic response of mice to house dust mite allergen. <i>Inhalation Toxicology</i> , 2019, 31, 192-202. | 0.8 | 14 |
| 7476 | A Molecular Dynamics Simulation of the Tensile Behavior of Y-Branched-CNT/SiC Nanocomposite. <i>Key Engineering Materials</i> , 0, 804, 7-10. | 0.4 | 2 |
| 7477 | Light Bullets in a Periodically Inhomogeneous Medium of Oriented Carbon Nanotubes in an Optical Cavity. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2019, 126, 394-399. | 0.2 | 3 |
| 7478 | The mobility of PEG chains versus micellar stability towards the formation of PEbâ€Pbâ€PEG nanohybrid shishâ€kebab on carbon nanotubes. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1796-1806. | 1.6 | 3 |
| 7479 | Bioactive Natural Products for the Management of Cancer: from Bench to Bedside. , 2019, , . | | 4 |
| 7480 | Nanoparticleâ€Plant Interactions: Twoâ€Way Traffic. <i>Small</i> , 2019, 15, e1901794. | 5.2 | 132 |
| 7481 | Freestanding laser induced graphene paper based liquid sensors. <i>Carbon</i> , 2019, 153, 472-480. | 5.4 | 37 |
| 7482 | Buckling and frequency analysis of the nonlocal strainâ€stress gradient shell reinforced with graphene nanoplatelets. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 2627-2640. | 1.5 | 66 |
| 7483 | Molecular Dynamics Simulation of Paracetamol Drug Adsorption on Boron Nitride Nanotube: Effects of Temperature, Nanotube Length, Diameter, and Chirality. <i>ChemistrySelect</i> , 2019, 4, 7866-7873. | 0.7 | 11 |
| 7484 | Thermodynamic and kinetic studies sorption of 5-fluorouracil onto single walled carbon nanotubes modified by chitosan. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1115-1123. | 1.2 | 15 |
| 7485 | Frequency analysis of carbon and silicon nanosheet with surface effects. <i>Applied Mathematical Modelling</i> , 2019, 76, 741-758. | 2.2 | 5 |
| 7486 | Fine tuning of optoelectronic properties of single-walled carbon nanotubes from conductors to semiconductors. <i>Carbon</i> , 2019, 153, 337-346. | 5.4 | 10 |
| 7487 | Creep performance of CNT-based nanocomposites: A parametric study. <i>Carbon</i> , 2019, 153, 745-756. | 5.4 | 48 |
| 7488 | Facile synthesis of carbon nanobranches towards cobalt ion sensing and high-performance micro-supercapacitors. <i>Nanoscale Advances</i> , 2019, 1, 3614-3620. | 2.2 | 5 |
| 7489 | Drug Resistance in Cancer and Role of Nanomedicine-Based Natural Products. , 2019, , 177-218. | | 0 |
| 7490 | Carbon nanotubes: synthesis, properties and engineering applications. <i>Carbon Letters</i> , 2019, 29, 419-447. | 3.3 | 220 |
| 7491 | Polarization Effects of Transversal and Longitudinal Optical Phonons in Bundles of Multiwall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20013-20019. | 1.5 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 7492 | Thick Electrode Batteries: Principles, Opportunities, and Challenges. <i>Advanced Energy Materials</i> , 2019, 9, 1901457. | 10.2 | 407 |
| 7493 | Effects of polymer-filler interactions on controlling the conductive network formation in polyamide 6/multi-Walled carbon nanotube composites. <i>Polymer</i> , 2019, 178, 121684. | 1.8 | 40 |
| 7494 | Carbon Nanotube and Cellulose Nanocrystal Hybrid Films. <i>Molecules</i> , 2019, 24, 2662. | 1.7 | 14 |
| 7495 | Formation Features of Hybrid Nanocomposites Based on Polydiphenylamine-2-Carboxylic Acid and Single-Walled Carbon Nanotubes. <i>Polymers</i> , 2019, 11, 1181. | 2.0 | 11 |
| 7496 | Construction of Electrospun Organic/Inorganic Hybrid Nanofibers for Drug Delivery and Tissue Engineering Applications. <i>Advanced Fiber Materials</i> , 2019, 1, 32-45. | 7.9 | 77 |
| 7497 | Vibration analysis of a high-speed rotating GPLRC nanostructure coupled with a piezoelectric actuator. <i>European Physical Journal Plus</i> , 2019, 134, 1. | 1.2 | 93 |
| 7498 | Rapidly self-heating shape memory polyurethane nanocomposite with boron-doped single-walled carbon nanotubes using near-infrared laser. <i>Composites Part B: Engineering</i> , 2019, 175, 107065. | 5.9 | 25 |
| 7499 | Separation of water-alcohol mixtures using carbon nanotubes under an electric field. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15431-15438. | 1.3 | 4 |
| 7500 | Investigation of Magnetic Properties of Fe^{3+} -Fe ₂ O ₃ NP-Decorated Carbon Nanostructured Mats. <i>Jom</i> , 2019, 71, 3142-3150. | 0.9 | 3 |
| 7501 | DFT analysis of pristine and functionalized zigzag CNT: A case of H ₂ S sensing. <i>Chemical Physics Letters</i> , 2019, 731, 136575. | 1.2 | 37 |
| 7502 | Recent advances in confining metal-based nanoparticles into carbon nanotubes for electrochemical energy conversion and storage devices. <i>Energy and Environmental Science</i> , 2019, 12, 2924-2956. | 15.6 | 176 |
| 7503 | Electrically conducting diamond films grown on platinum foil for neural stimulation. <i>Journal of Neural Engineering</i> , 2019, 16, 066002. | 1.8 | 13 |
| 7504 | Probing Ca ²⁺ -induced conformational change of calmodulin with gold nanoparticle-decorated single-walled carbon nanotube field-effect transistors. <i>Nanoscale</i> , 2019, 11, 13397-13406. | 2.8 | 16 |
| 7505 | Electrochemical detection of DNA mismatches using a branch-shaped hierarchical SWNT-DNA nano-hybrid bioelectrode. <i>Materials Science and Engineering C</i> , 2019, 104, 109886. | 3.8 | 10 |
| 7506 | Post-Growth Planarization of Vertically Aligned Carbon Nanotube Forests for Electron-Emission Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 4594-4604. | 2.4 | 4 |
| 7507 | Layered composites composed of multi-walled carbon nanotubes/manganese dioxide/carbon fiber cloth for microwave absorption in the X-band. <i>RSC Advances</i> , 2019, 9, 19217-19225. | 1.7 | 25 |
| 7508 | Carbon Nanostructures for Actuators: An Overview of Recent Developments. <i>Actuators</i> , 2019, 8, 46. | 1.2 | 13 |
| 7509 | Thermal and electrical anisotropy of polymer matrix composite materials reinforced with graphene nanoplatelets and aluminum-based particles. <i>Diamond and Related Materials</i> , 2019, 100, 107571. | 1.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7510 | Design and Fabrication of CMOS Microstructures to Locally Synthesize Carbon Nanotubes for Gas Sensing. <i>Sensors</i> , 2019, 19, 4340. | 2.1 | 6 |
| 7511 | <p>Grafting of multiwalled carbon nanotubes with pyrazole derivatives: characterization, antimicrobial activity and molecular docking study<p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 6645-6659. | 3.3 | 38 |
| 7512 | Nitrogenated holey graphene (C2N) surface as highly selective electrochemical sensor for ammonia. <i>Journal of Molecular Liquids</i> , 2019, 296, 111929. | 2.3 | 69 |
| 7513 | Quantifying the effects of hyperthermal atomic oxygen and thermal fatigue environments on carbon nanotube sheets for space-based applications. <i>Results in Materials</i> , 2019, 3, 100034. | 0.9 | 1 |
| 7514 | Flexible and wearable healthcare sensors for visual reality health-monitoring. <i>Virtual Reality & Intelligent Hardware</i> , 2019, 1, 411-427. | 1.8 | 42 |
| 7515 | Predicting the effective thermal conductivity of composites from cross sections images using deep learning methods. <i>Composites Science and Technology</i> , 2019, 184, 107861. | 3.8 | 90 |
| 7516 | Developed greener method based on MW implementation in manufacturing CNFs. <i>International Journal of Nanomanufacturing</i> , 2019, 15, 269. | 0.3 | 78 |
| 7517 | A Lactate/Oxygen Biofuel Cell: The Coupled Lactate Oxidase Anode and PGM-Free FeÑC Cathode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42744-42750. | 4.0 | 10 |
| 7518 | The electrochemical decoration of multi-walled carbon nanotubes with nickel oxide coating. <i>Journal of Physics: Conference Series</i> , 2019, 1324, 012041. | 0.3 | 0 |
| 7520 | Structural properties of protective diamond-like-carbon thin films grown on multilayer graphene. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 505703. | 0.7 | 6 |
| 7522 | Radio Frequency Heating of Laser-Induced Graphene on Polymer Surfaces for Rapid Welding. <i>ACS Applied Nano Materials</i> , 2019, 2, 7032-7042. | 2.4 | 28 |
| 7524 | An investigation of microstructural, magnetic and microwave absorption properties of multi-walled carbon nanotubes/Ni0.5Zn0.5Fe2O4. <i>Scientific Reports</i> , 2019, 9, 15523. | 1.6 | 29 |
| 7525 | Investigation of stability and dynamic behavior of a carbon nanotube/epoxy composite strain sensor. , 2019, , . | | 1 |
| 7526 | Intelligently Actuating Liquid Crystal Elastomer&Carbon Nanotube Composites. <i>Advanced Functional Materials</i> , 2019, 29, 1905063. | 7.8 | 135 |
| 7527 | Spatiotemporal characteristics of neural activity in tibial nerves with carbon nanotube yarn electrodes. <i>Journal of Neuroscience Methods</i> , 2019, 328, 108450. | 1.3 | 11 |
| 7528 | Vinyl pyridinium polymeric ionic liquid functionalized carbon nanotube composites as adsorbent for chromium(VI) in aqueous solution. <i>Journal of Molecular Liquids</i> , 2019, 296, 111778. | 2.3 | 24 |
| 7529 | Homogeneous&heterogeneous chemical action and non&Fourier flux theory effects in a flow with carbon nanotubes. <i>Heat Transfer - Asian Research</i> , 2019, 48, 4240-4261. | 2.8 | 2 |
| 7530 | ZnO/functionalized MWCNT and Ag/functionalized MWCNT modified carbon paste electrodes for the determination of dopamine, paracetamol and folic acid. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 96-105. | 1.9 | 66 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7531 | Acid modified multiwalled carbon nanotubes condition by reflux. <i>Materials Research Express</i> , 2019, 6, 115003. | 0.8 | 6 |
| 7532 | Survivability of carbon nanotubes in space. <i>Acta Astronautica</i> , 2019, 165, 129-138. | 1.7 | 10 |
| 7533 | Asymmetric gating for reducing leakage current in carbon nanotube field-effect transistors. <i>Applied Physics Letters</i> , 2019, 115, . | 1.5 | 19 |
| 7534 | Insight Into Ballisticity of Room-Temperature Carrier Transport in Carbon Nanotube Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 3535-3540. | 1.6 | 26 |
| 7535 | BN-Doped Graphene and Single-Walled Carbon Nanotubes for the Catalysis of SN2 Reactions: Insights from Density Functional Theory Modeling. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8188-8199. | 1.1 | 8 |
| 7536 | Quantum transport properties of monolayer graphene with antidot lattice. <i>Journal of Applied Physics</i> , 2019, 126, . | 1.1 | 4 |
| 7537 | Fabrication of Fluorescent One-dimensional-nanocomposites through One-pot Self-assembling Polymerization on Nano-helical Silica. <i>Chemistry Letters</i> , 2019, 48, 1088-1091. | 0.7 | 4 |
| 7538 | Morphologies and properties of epoxy/multi-walled carbon nanotube nanocomposite foams prepared through the free-foaming and limited-foaming process. <i>Composites Science and Technology</i> , 2019, 182, 107776. | 3.8 | 20 |
| 7539 | Carbon Nanotube Assembly and Integration for Applications. <i>Nanoscale Research Letters</i> , 2019, 14, 220. | 3.1 | 199 |
| 7540 | Critical conditions at low pressure to improve the quality of directly spinnable CNTs. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 779-787. | 1.0 | 0 |
| 7541 | Multi-walled carbon nanotubes upregulate mitochondrial gene expression and trigger mitochondrial dysfunction in primary human bronchial epithelial cells. <i>Nanotoxicology</i> , 2019, 13, 1344-1361. | 1.6 | 17 |
| 7542 | Engineered nanomaterials: From their properties and applications, to their toxicity towards marine bivalves in a changing environment. <i>Environmental Research</i> , 2019, 178, 108683. | 3.7 | 56 |
| 7543 | Mass production of nitrogen and oxygen codoped carbon nanotubes by a delicately-designed Pechini method for supercapacitors and electrocatalysis. <i>Nanoscale</i> , 2019, 11, 17425-17435. | 2.8 | 15 |
| 7544 | Investigation of Electrochemical Oxidation Mechanism, Thermodynamic Parameters and Sensor Design for Analgesic and Relaxant Drug: Phenyramidol in Aqueous Medium by NH ₂ MWCNT. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1209-B1216. | 1.3 | 5 |
| 7545 | Design of nanoelectromechanical sensor for gas and liquid detection. <i>Micro and Nano Letters</i> , 2019, 14, 634-637. | 0.6 | 1 |
| 7546 | Protein nanofibrils: Preparation, properties, and possible applications in industrial nanomaterials. , 2019, , 29-63. | | 19 |
| 7547 | Energy loss of H ⁺ and H ₂ ⁺ beams in carbon nanotubes: a joint experimental and simulation study. <i>European Physical Journal D</i> , 2019, 73, 1. | 0.6 | 1 |
| 7548 | Peroxydisulfate activation by positively polarized carbocatalyst for enhanced removal of aqueous organic pollutants. <i>Water Research</i> , 2019, 166, 115043. | 5.3 | 137 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7549 | Carbon-Based Nanomaterials in Sensors for Food Safety. <i>Nanomaterials</i> , 2019, 9, 1330. | 1.9 | 59 |
| 7550 | Controlling the carbon nanotube type with processing parameters synthesized by floating catalyst chemical vapour deposition. <i>Materials Today: Proceedings</i> , 2019, 18, 1039-1043. | 0.9 | 3 |
| 7551 | Characterization of simulated low earth orbit space environment effects on acid-spun carbon nanotube yarns. <i>Materials and Design</i> , 2019, 184, 108178. | 3.3 | 4 |
| 7552 | Ecofriendly high-performance ionic soft actuators based on graphene-mediated cellulose acetate. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127127. | 4.0 | 37 |
| 7553 | Layer-by-layer assembly of polyelectrolytes-wrapped multi-walled carbon nanotubes on long period fiber grating sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127120. | 4.0 | 17 |
| 7554 | Graphdiyne applied for electrochemical energy storage. <i>Dalton Transactions</i> , 2019, 48, 14566-14574. | 1.6 | 20 |
| 7555 | A chemodosimeter-modified carbon nanotube-field effect transistor: toward a highly selective and sensitive electrical sensing platform. <i>RSC Advances</i> , 2019, 9, 28414-28420. | 1.7 | 8 |
| 7556 | <p>Pyridine azo disperse dye derivatives and their selenium nanoparticles (SeNPs): synthesis, fastness properties, and antimicrobial evaluations</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 7903-7918. | 3.3 | 14 |
| 7557 | Stretching-induced Alignment of Carbon Nanotubes and Associated Mechanical and Electrical Properties of Elastomeric Polyester-based Composite Fibers. <i>Fibers and Polymers</i> , 2019, 20, 1608-1615. | 1.1 | 5 |
| 7558 | Effect of the Functionalization of Nitrogen-Doped Carbon Nanotubes on Electrical Conductivity. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 1952-1956. | 0.1 | 16 |
| 7559 | Residual Gas Adsorption and Desorption in the Field Emission of Titanium-Coated Carbon Nanotubes. <i>Materials</i> , 2019, 12, 2937. | 1.3 | 6 |
| 7560 | Framing the Activation Energy and Binary Chemical Reaction on CNTs with Cattaneo-Christov Heat Diffusion on Maxwell Nanofluid in the Presence of Nonlinear Thermal Radiation. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 10313-10325. | 1.7 | 34 |
| 7561 | Heat Exchange Structures Based on Copper/CNT Composite. <i>Key Engineering Materials</i> , 0, 809, 106-114. | 0.4 | 2 |
| 7562 | Relationship between the structure and thermal properties of polypropylene/graphene nanoplatelets composites for different platelet-sizes. <i>Composites Science and Technology</i> , 2019, 183, 107826. | 3.8 | 26 |
| 7563 | Ultrafast Oattering Vertically Aligned Carbon Nanotube Forest on Al Foil and Si Substrate Using Chemical Vapor Deposition (CVD). <i>Nanomaterials</i> , 2019, 9, 1332. | 1.9 | 3 |
| 7564 | CNT-Modified MIL-88(NH ₂)-Fe for Enhancing DNA-Regulated Peroxidase-Like Activity. <i>Journal of Analysis and Testing</i> , 2019, 3, 238-245. | 2.5 | 7 |
| 7565 | Uniform Dispersion and Exfoliation of Multi-Walled Carbon Nanotubes in CNT-MgB ₂ Superconductor Composites Using Surfactants. <i>Materials</i> , 2019, 12, 3044. | 1.3 | 7 |
| 7566 | Biodegradation of Carbon Nanotubes by Macrophages. <i>Frontiers in Materials</i> , 2019, 6, . | 1.2 | 50 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7567 | Effect of water content on the piezoresistive property of smart cement-based materials with carbon nanotube/nanocarbon black composite filler. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 119, 8-20. | 3.8 | 82 |
| 7568 | Nitrogen-doped braided-looking mesoporous carbonaceous nanotubes as an advanced oxygen reduction electrocatalyst. <i>Materials Today Energy</i> , 2019, 12, 62-69. | 2.5 | 8 |
| 7569 | Nanoarchitectonics through supramolecular gelation: formation and switching of diverse nanostructures. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 11-28. | 1.7 | 45 |
| 7570 | Mapping the dynamics of methanol and xenon co-adsorption in SWNTs by <i>in situ</i> continuous-flow hyperpolarized ^{129}Xe NMR. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3287-3293. | 1.3 | 4 |
| 7571 | A holey graphene film as a high performance planar field emitter. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1131-1137. | 2.7 | 5 |
| 7572 | Copper hydride clusters in energy storage and conversion. <i>Dalton Transactions</i> , 2019, 48, 3531-3538. | 1.6 | 82 |
| 7573 | High Performance of Carbon Nanotube Refrigerators. <i>Annalen Der Physik</i> , 2019, 531, 1800502. | 0.9 | 12 |
| 7574 | In-line monitoring of carbon nanoparticle epoxy dispersion processes. <i>Production Engineering</i> , 2019, 13, 373-390. | 1.1 | 4 |
| 7575 | Recent developments in carbon nanomaterial-enabled electrochemical sensors for nitrite detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 113, 1-12. | 5.8 | 158 |
| 7576 | Facile Single-Step Fabrication of Robust Superhydrophobic Carbon Nanotube Films on Different Porous Supports. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2976-2982. | 1.8 | 8 |
| 7577 | Influence of Stainless-Steel Catalyst Substrate Type and Pretreatment on Growing Carbon Nanotubes from Waste Postconsumer Plastics. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3009-3023. | 1.8 | 33 |
| 7578 | Coaxial Electrospinning. , 2019, , 125-200. | | 7 |
| 7579 | Development of highly sensitive electrochemical immunosensor based on single-walled carbon nanotube modified screen-printed carbon electrode. <i>Materials Chemistry and Physics</i> , 2019, 227, 123-129. | 2.0 | 32 |
| 7580 | Preparation and characterisation of cMWCNTs-mSA/mCS bipolar membrane for electrochemical synthesis. <i>International Journal of Nanomanufacturing</i> , 2019, 15, 58. | 0.3 | 0 |
| 7581 | Concave Hosts for Curved Carbon Nanomaterials. <i>Chemistry - A European Journal</i> , 2019, 25, 6673-6692. | 1.7 | 35 |
| 7582 | Biocompatibility Characteristics of Titanium Coated with Multi Walled Carbon Nanotubes/Hydroxyapatite Nanocomposites. <i>Materials</i> , 2019, 12, 224. | 1.3 | 19 |
| 7583 | Effect of Porosity on free and forced vibration characteristics of the GPL reinforcement composite nanostructures. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2608-2626. | 1.4 | 96 |
| 7584 | Nanoscale origins of super-capacitance phenomena. <i>Journal of Power Sources</i> , 2019, 414, 420-434. | 4.0 | 48 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7585 | AgNPs@CNTs/Ag hybrid films on thiolated PET substrate for flexible electronics. <i>Chemical Engineering Journal</i> , 2019, 368, 223-234. | 6.6 | 31 |
| 7586 | Performance Assessment of a New Radiation Dosimeter Based on Carbon Nanotube Field-Effect Transistor: A Quantum Simulation Study. <i>IEEE Sensors Journal</i> , 2019, 19, 3314-3321. | 2.4 | 31 |
| 7587 | Interfacial failure boosts mechanical energy dissipation in carbon nanotube films under ballistic impact. <i>Carbon</i> , 2019, 146, 139-146. | 5.4 | 26 |
| 7588 | Supercritical Fluids as Reaction Media for Scalable Production of Carbon Nanomaterials. <i>ACS Applied Nano Materials</i> , 2019, 2, 1009-1017. | 2.4 | 4 |
| 7589 | Effects of Carbon Nanotube and Carbon Sphere Templates in TiO ₂ Composites for Photocatalytic Hydrogen Production. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2770-2783. | 1.8 | 30 |
| 7590 | Application of machine learning to predict the multiaxial strain-sensing response of CNT-polymer composites. <i>Carbon</i> , 2019, 146, 265-275. | 5.4 | 66 |
| 7591 | Recent advances of nanocarbon-inorganic hybrids in photocatalysis. , 2019, , 521-588. | | 5 |
| 7592 | Learning to predict single-wall carbon nanotube-recognition DNA sequences. <i>Npj Computational Materials</i> , 2019, 5, . | 3.5 | 31 |
| 7593 | Recent Advances in the Processing and Properties of Alumina@CNT/SiC Nanocomposites. <i>Nanomaterials</i> , 2019, 9, 86. | 1.9 | 25 |
| 7594 | A novel copper(II) phthalocyanine-modified multiwalled carbon nanotube-based electrode for sensitive electrochemical detection of bisphenol A. <i>New Journal of Chemistry</i> , 2019, 43, 85-92. | 1.4 | 69 |
| 7595 | Fe ₂ P ₄ O ₁₂ @carbon composite as a highly stable electrode material for electrochemical capacitors. <i>New Journal of Chemistry</i> , 2019, 43, 399-406. | 1.4 | 16 |
| 7596 | Function-driven engineering of 1D carbon nanotubes and 0D carbon dots: mechanism, properties and applications. <i>Nanoscale</i> , 2019, 11, 1475-1504. | 2.8 | 134 |
| 7597 | Extremely high tensile strength and superior thermal conductivity of an sp ³ -hybridized superhard C ₂₄ fullerene crystal. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3426-3431. | 5.2 | 8 |
| 7598 | Chemical tailoring of one-dimensional polypyrrene nanocapsules at a molecular level: towards ideal sulfur hosts for high-performance Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2009-2014. | 5.2 | 10 |
| 7599 | Reconfigurable solid-state electrolytes for high performance flexible supercapacitor. <i>Journal of Power Sources</i> , 2019, 432, 16-23. | 4.0 | 22 |
| 7600 | Noncovalent Functionalization of Carbon Substrates with Hydrogels Improves Structural Analysis of Vitrified Proteins by Electron Cryo-Microscopy. <i>ACS Nano</i> , 2019, 13, 7185-7190. | 7.3 | 8 |
| 7601 | Molecularly Imprinted Polymer-Based Nanosensors for Pharmaceutical Analysis. , 2019, , 231-271. | | 3 |
| 7602 | Carbon-Support-Based Heterogeneous Nanocatalysts: Synthesis and Applications in Organic Reactions. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 1263-1305. | 1.3 | 59 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7603 | Selective synthesis of metallic and semi-conducting single-walled carbon nanotube by floating catalyst chemical vapour deposition. <i>Diamond and Related Materials</i> , 2019, 97, 107432. | 1.8 | 12 |
| 7604 | Diameter-Dependent Degradation of 11 Types of Carbon Nanotubes: Safety Implications. <i>ACS Applied Nano Materials</i> , 2019, 2, 4293-4301. | 2.4 | 26 |
| 7605 | Carbon nanotube-based lateral flow immunoassay for ultrasensitive detection of proteins: application to the determination of IgG. <i>Mikrochimica Acta</i> , 2019, 186, 436. | 2.5 | 26 |
| 7606 | An <i>in Vivo</i> Nanosensor Measures Compartmental Doxorubicin Exposure. <i>Nano Letters</i> , 2019, 19, 4343-4354. | 4.5 | 30 |
| 7607 | Synthesis and Antibacterial Activities of Novel Hg(II) and Zn(II) Complexes of Bis(Thiosemicarbazone) Acenaphthenequinone Loaded to MWCNTs. <i>Journal of Structural Chemistry</i> , 2019, 60, 845-853. | 0.3 | 9 |
| 7608 | Thermomechanical behavior and thermal stability of polyurethane rigid nanocomposite foams containing binary nanoparticle mixtures. <i>Polymer Testing</i> , 2019, 77, 105930. | 2.3 | 27 |
| 7609 | Palm Spathe Derived N-Doped Carbon Nanosheets as a High Performance Electrode for Li-Ion Batteries and Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , . | 3.2 | 19 |
| 7610 | The electrochemical crystallization of the copper (II) oxide on multi-walled carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2019, 1172, 012050. | 0.3 | 1 |
| 7611 | High-Performance Solution-Processed Double-Walled Carbon Nanotube Transparent Electrode for Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901204. | 10.2 | 101 |
| 7612 | Elucidating the Growth of Metal-Organic Nanotubes Combining Isoreticular Synthesis with Liquid-Cell Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 10177-10182. | 6.6 | 42 |
| 7613 | Application of a simple and highly efficient nanoparticle surface modification method to single-walled carbon nanotubes and formation of an interfacial organized film. <i>Thin Solid Films</i> , 2019, 685, 168-179. | 0.8 | 18 |
| 7614 | High-throughput screening of printed carbon nanotube circuits using radio frequency heating. <i>Carbon</i> , 2019, 152, 444-450. | 5.4 | 13 |
| 7615 | Electrically Conductive Coatings for Fiber-Based E-Textiles. <i>Fibers</i> , 2019, 7, 51. | 1.8 | 69 |
| 7616 | Nitrogen-doped carbon nanotubes self-catalytically grown on desert sands towards water purification. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1. | 0.8 | 4 |
| 7617 | Advanced Carbon Materials for Electrochemical Energy Storage. , 2019, , 385-418. | | 2 |
| 7618 | Petrographic controls of coal from Ib valley Basin for carbon nano-products formation. <i>International Journal of Coal Geology</i> , 2019, 211, 103211. | 1.9 | 6 |
| 7619 | Influence of Different Nanocellulose Additives on Processing and Performance of PAN-Based Carbon Fibers. <i>ACS Omega</i> , 2019, 4, 9720-9730. | 1.6 | 17 |
| 7620 | Recent Developments in Single-Walled Carbon Nanotube Thin Films Fabricated by Dry Floating Catalyst Chemical Vapor Deposition. <i>Topics in Current Chemistry Collections</i> , 2019, , 99-128. | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7621 | Long-term impacts of carboxyl functionalized multi-walled carbon nanotubes on the performance, microbial enzymatic activity and microbial community of sequencing batch reactor. <i>Bioresource Technology</i> , 2019, 286, 121382. | 4.8 | 5 |
| 7622 | Sessile droplets containing carbon nanotubes: a study of evaporation dynamics and CNT alignment for printed electronics. <i>Nanoscale</i> , 2019, 11, 10603-10614. | 2.8 | 45 |
| 7623 | Influence of carbon nanotubes and dispersions of SiC on the physical and mechanical properties of pure copper and copper-nickel alloy. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019, 50, 588-598. | 0.5 | 3 |
| 7624 | Improvement of the thermal/electrical conductivity of PA6/PVDF blends via selective MWCNTs-NH ₂ distribution at the interface. <i>Materials and Design</i> , 2019, 177, 107835. | 3.3 | 36 |
| 7625 | Exploration of interactions of "blood-nano interface"™ of carbon-based nanomaterials for biomedical applications. <i>Journal of Materials Research</i> , 2019, 34, 1950-1964. | 1.2 | 3 |
| 7626 | Phononic pathways towards rational design of nanowire heat conduction. <i>Nanotechnology</i> , 2019, 30, 372002. | 1.3 | 14 |
| 7627 | Modification of electron structure on the semiconducting single-walled carbon nanotubes for effectively electrosensing guanine and adenine. <i>Analytica Chimica Acta</i> , 2019, 1079, 86-93. | 2.6 | 14 |
| 7628 | Laser Irradiation-Hindered Growth of Small-Diameter Single-Walled Carbon Nanotubes by Chemical Vapor Deposition. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-7. | 1.5 | 0 |
| 7629 | Recent Advances in Carbonaceous Photocatalysts with Enhanced Photocatalytic Performances: A Mini Review. <i>Materials</i> , 2019, 12, 1916. | 1.3 | 93 |
| 7630 | Dynamic structure-properties characterization and manipulation in advanced nanodevices. <i>Materials Today Nano</i> , 2019, 7, 100042. | 2.3 | 17 |
| 7631 | Fabrication of Various Carbon Nanotube/Nickel Nanocomposite Powders by Polyol Process. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6387-6392. | 0.9 | 0 |
| 7632 | Origin of Performance Enhancement in TiO ₂ -Carbon Nanotube Composite Perovskite Solar Cells. <i>Small Methods</i> , 2019, 3, 1900164. | 4.6 | 45 |
| 7633 | Maintenance property of layered regularity in multi-particle layers of fluorinated phosphonate-modified nanodiamond under the heating. <i>Journal of Fluorine Chemistry</i> , 2019, 222-223, 15-23. | 0.9 | 5 |
| 7634 | Mechanistic study on direct synthesis of carbon nanotubes from cellulose by means of microwave pyrolysis. <i>Energy Conversion and Management</i> , 2019, 192, 88-99. | 4.4 | 47 |
| 7635 | Rational design and facile synthesis of binary metal sulfides VS ₂ -SnS ₂ hybrid with functionalized multiwalled carbon nanotube for the selective detection of neurotransmitter dopamine. <i>Analytica Chimica Acta</i> , 2019, 1071, 98-108. | 2.6 | 51 |
| 7636 | A polarization based study of gold nanoparticles entrapped in single-wall carbon nanotube doped nanoscaffold. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 570, 444-448. | 2.3 | 1 |
| 7637 | Energy dissipation characteristics of covalently-bonded stochastic carbon nanotube networks under compressive loading. <i>Composites Part B: Engineering</i> , 2019, 172, 195-205. | 5.9 | 2 |
| 7638 | Mechanical and electrical properties of MCMB/Chopped carbon fiber composite with different bead size. <i>Scientific Reports</i> , 2019, 9, 7065. | 1.6 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7639 | Transparent Conducting Electrodes for Quantum Dots Light Emitting Diodes. <i>Israel Journal of Chemistry</i> , 2019, 59, 729-746. | 1.0 | 8 |
| 7640 | Single-Walled Carbon Nanotubes. <i>Topics in Current Chemistry Collections</i> , 2019, , . | 0.2 | 20 |
| 7641 | Synthesis of diamond nanostructures from carbon nanotube and formation of diamond-CNT hybrid structures. <i>Carbon</i> , 2019, 150, 388-395. | 5.4 | 40 |
| 7642 | Facile and cost-effective strategy for fabrication of polyamide 6 wrapped multi-walled carbon nanotube via anionic melt polymerization of μ -caprolactam. <i>Chemical Engineering Journal</i> , 2019, 373, 251-258. | 6.6 | 21 |
| 7643 | Review on heavy metal adsorption processes by carbon nanotubes. <i>Journal of Cleaner Production</i> , 2019, 230, 783-793. | 4.6 | 312 |
| 7644 | Lateral and Vertical Flow Assays for Point-of-Care Diagnostics. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900244. | 3.9 | 115 |
| 7645 | The potential of natural rubber (NR) in controlling morphology in two-matrix epoxy/NR/graphene nano-platelets (GNP) systems. <i>Polymer Testing</i> , 2019, 77, 105905. | 2.3 | 14 |
| 7646 | Analysis of SC5C7p,q and NPHXp,q Nanotubes via Topological Indices. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-10. | 1.5 | 4 |
| 7647 | Carbon Nanotube Energy Applications. , 2019, , 695-728. | | 4 |
| 7648 | Hand-Fabricated CNT/AgNPs Electrodes using Wax-on-Plastic Platforms for Electro-Immunosensing Application. <i>Scientific Reports</i> , 2019, 9, 6131. | 1.6 | 13 |
| 7649 | A simple method for characterizing mechanical property of nanowire arrays in atmospheric environment. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9938-9944. | 1.1 | 0 |
| 7650 | Carbon Nanotube-Reinforced Poly(4-vinylaniline)/Polyaniline Bilayer-Grafted Bacterial Cellulose for Bioelectronic Applications. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2160-2172. | 2.6 | 19 |
| 7651 | Palladium Nanoparticles Supported on Graphene Oxide as Catalysts for the Synthesis of Diarylketones. <i>Catalysts</i> , 2019, 9, 319. | 1.6 | 15 |
| 7652 | Enhancement on the characteristics of supercapacitors using surface modification of sprayed-carbon nanotube thin film electrodes with oxygen plasma treatment. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 056502. | 0.8 | 6 |
| 7653 | Porous Alkaline-Earth Doped Multiwall Carbon Nanotubes with Base Catalytic Properties. <i>Catalysis Letters</i> , 2019, 149, 2279-2290. | 1.4 | 3 |
| 7654 | Experimental Observation of van Hove Singularities in Quasi-1D MoO_2 Nanotubes. <i>Advanced Electronic Materials</i> , 2019, 5, 1900005. | 2.6 | 1 |
| 7655 | Synthesis, characterization and vapor sensing properties of a novel P(St-co-AN)/MWCNTs-VTES nanocomposite thin film as a gas sensor. <i>European Polymer Journal</i> , 2019, 116, 508-514. | 2.6 | 2 |
| 7656 | Li-Functionalized Carbon Nanotubes for Hydrogen Storage: Importance of Size Effects. <i>ACS Applied Nano Materials</i> , 2019, 2, 3021-3030. | 2.4 | 33 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7657 | <p>>Time-dependent degradation of carbon nanotubes correlates with decreased reactive oxygen species generation in macrophages</p>>. International Journal of Nanomedicine, 2019, Volume 14, 2797-2807. | 3.3 | 37 |
| 7658 | Immobilization of Cu(II) on MWCNTs@L-His as a new high efficient reusable catalyst for the synthesis of pyrido[2,3-d:5,6-dâ€²]dipyrimidine derivatives. Journal of Organometallic Chemistry, 2019, 893, 1-10. | 0.8 | 13 |
| 7659 | Modeling study of knowledge diffusion in scientific collaboration networks based on differential dynamics: A case study in graphene field. Physica A: Statistical Mechanics and Its Applications, 2019, 524, 375-391. | 1.2 | 16 |
| 7660 | Carbon nanotube micro-contactors on ohmic substrates for on-chip microelectromechanical probing applications at wafer level. Carbon, 2019, 150, 117-127. | 5.4 | 5 |
| 7661 | Growth of ultrathin SnO2 on carbon nanotubes by atomic layer deposition and their application in lithium ion battery anodes. Applied Surface Science, 2019, 484, 600-609. | 3.1 | 47 |
| 7662 | Effect of Multi-walled Carbon Nanotubes on the Toxicity of Triphenyltin to the Marine Copepod Tigriopus japonicus. Bulletin of Environmental Contamination and Toxicology, 2019, 102, 789-794. | 1.3 | 7 |
| 7663 | Interaction between functionalized multiwalled carbon nanotubes and MS2 bacteriophages in water. Science of the Total Environment, 2019, 670, 1140-1145. | 3.9 | 12 |
| 7664 | Flexural characterization of carbon nanotube (CNT) yarn neural electrodes. Materials Research Express, 2019, 6, 045402. | 0.8 | 9 |
| 7665 | Elongation and resistance change of carbon nanotube filaments formed by gas discharge breakdown. Japanese Journal of Applied Physics, 2019, 58, SAAE05. | 0.8 | 3 |
| 7666 | CNT flexible membranes for energy storage and conversion systems. MRS Communications, 2019, 9, 670-674. | 0.8 | 3 |
| 7667 | Nanoparticle-mediated targeted drug delivery for breast cancer treatment. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1871, 419-433. | 3.3 | 151 |
| 7668 | A conducting neural interface of polyurethane/silk-functionalized multiwall carbon nanotubes with enhanced mechanical strength for neuroregeneration. Materials Science and Engineering C, 2019, 102, 511-523. | 3.8 | 66 |
| 7669 | Recent advances in nanomaterial-enabled acoustic devices for audible sound generation and detection. Nanoscale, 2019, 11, 5839-5860. | 2.8 | 38 |
| 7670 | Highly Efficient Hydrogen Evolution System of Melamine/BH3 without Using Any Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 7987-7996. | 3.2 | 3 |
| 7671 | Structure and performance of Si3N4/SiC/CNT composite fibres. Ceramics International, 2019, 45, 12677-12681. | 2.3 | 5 |
| 7672 | Enantiomeric Recognition and Separation by Chiral Nanoparticles. Molecules, 2019, 24, 1007. | 1.7 | 72 |
| 7674 | Carbon nanomaterials enabled fiber sensors: A structure-oriented strategy for highly sensitive and versatile in situ monitoring of composite curing process. Composites Part B: Engineering, 2019, 166, 645-652. | 5.9 | 36 |
| 7675 | The choice of noble electrolyte for symmetric polyurethane-graphene composite supercapacitors. International Journal of Hydrogen Energy, 2019, 44, 11240-11246. | 3.8 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7676 | Fracture Toughnesses and Crack Growth Angles of Single-Layer Graphyne Sheets. <i>Acta Mechanica Solida Sinica</i> , 2019, 32, 339-355. | 1.0 | 6 |
| 7677 | Stretchable and electrically conductive polyurethane- silver/graphene composite fibers prepared by wet-spinning process. <i>Composites Part B: Engineering</i> , 2019, 167, 573-581. | 5.9 | 84 |
| 7678 | Facile preparation of magnetic composites based on carbon nanotubes: Utilization for removal of environmental pollutants. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 8-15. | 5.0 | 29 |
| 7679 | Films of filled single-wall carbon nanotubes as a new material for high-performance air-sustainable transparent conductive electrodes operating in a wide spectral range. <i>Nanoscale</i> , 2019, 11, 6755-6765. | 2.8 | 17 |
| 7681 | Nanocrystalline tin oxide electrodeposited on carbon nanotube for high performance electrochemical capacitive energy storage. <i>Materials Research Express</i> , 2019, 6, 065022. | 0.8 | 0 |
| 7682 | Validation of alkaline oxidation as a pre-treatment method for elemental quantification in single-walled carbon nanotubes. <i>Analytical Methods</i> , 2019, 11, 1884-1890. | 1.3 | 8 |
| 7683 | Nanofabrication by thermal plasma jets: From nanoparticles to low-dimensional nanomaterials. <i>Journal of Applied Physics</i> , 2019, 125, . | 1.1 | 55 |
| 7684 | Predictions of the electrical conductivity of composites of polymers and carbon nanotubes by an artificial neural network. <i>Scripta Materialia</i> , 2019, 166, 117-121. | 2.6 | 37 |
| 7685 | Finite element buckling analysis of double-layered graphene nanoribbons. <i>Materials Research Express</i> , 2019, 6, 055023. | 0.8 | 7 |
| 7686 | M-Polynomials and Degree-Based Topological Indices of VC5C7[p,q] and HC5C7[p,q] Nanotubes. <i>IEEE Access</i> , 2019, 7, 41125-41132. | 2.6 | 22 |
| 7687 | Wafer-scale on-chip synthesis and field emission properties of vertically aligned boron nitride based nanofiber arrays. <i>Applied Physics Letters</i> , 2019, 114, 093101. | 1.5 | 2 |
| 7688 | NH ₂ Functionalized Multi Walled Carbon Nanotubes Decorated with ZnO Nanoparticles and Graphene Quantum Dots for Sensitive Assay of Pimozide. <i>Electroanalysis</i> , 2019, 31, 1083-1094. | 1.5 | 16 |
| 7689 | Comparison Between Functionalized Graphene and Carbon Nanotubes. , 2019, , 177-204. | | 17 |
| 7690 | Study on the behaviors of multi-walled carbon nanotubes modified by gemini sulfonate dispersant and their reinforced magnesium matrix composite. <i>Materials Chemistry and Physics</i> , 2019, 229, 279-285. | 2.0 | 7 |
| 7691 | Thermal and electrical properties of the epoxy nanocomposites reinforced with purified carbon nanotubes. <i>Materials Letters</i> , 2019, 246, 20-23. | 1.3 | 33 |
| 7692 | An investigation into the role of substrates in the physical and electrochemical properties of carbon nanotubes prepared by chemical vapor deposition. <i>Physica B: Condensed Matter</i> , 2019, 562, 42-54. | 1.3 | 7 |
| 7693 | Electrical characterization of ZnO-coated nanospring ensemble by impedance spectroscopy: probing the effect of thermal annealing. <i>Nanotechnology</i> , 2019, 30, 234006. | 1.3 | 10 |
| 7694 | Nanoenabled Bioseparations: Current Developments and Future Prospects. <i>BioMed Research International</i> , 2019, 2019, 1-15. | 0.9 | 21 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7695 | Immobilization of palladium nanoparticles on thiol-functionalized multi-walled carbon nanotubes with enhanced photocatalytic activity for the degradation of alizarin red. <i>Polyhedron</i> , 2019, 165, 9-16. | 1.0 | 6 |
| 7696 | Understanding the influence of carbon nanomaterials on microbial communities. <i>Environment International</i> , 2019, 126, 690-698. | 4.8 | 94 |
| 7697 | Probing the chemical interaction between different carbon allotropes oxides and titanium dioxide nanoparticles by Raman spectroscopy. <i>Chemical Physics Letters</i> , 2019, 723, 96-101. | 1.2 | 5 |
| 7698 | A glassy carbon electrode modified with molecularly imprinted poly(aniline boronic acid) coated onto carbon nanotubes for potentiometric sensing of sialic acid. <i>Mikrochimica Acta</i> , 2019, 186, 270. | 2.5 | 16 |
| 7699 | Structure of inorganic nanocrystals confined within carbon nanotubes. <i>Inorganica Chimica Acta</i> , 2019, 492, 66-75. | 1.2 | 16 |
| 7700 | Fabrication of mullite ceramic-supported carbon nanotube composite membranes with enhanced performance in direct separation of high-temperature emulsified oil droplets. <i>Journal of Membrane Science</i> , 2019, 582, 140-150. | 4.1 | 48 |
| 7701 | Multi-responsive and multi-motion bimorph actuator based on super-aligned carbon nanotube sheets. <i>Carbon</i> , 2019, 148, 487-495. | 5.4 | 48 |
| 7702 | Quantum conductance investigation on carbon nanotube-based antibiotic sensor. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1641-1650. | 1.2 | 13 |
| 7703 | Role of poly(ethylene glycol) grafted silica nanoparticle shape in toughened PLA-matrix nanocomposites. <i>Composites Part B: Engineering</i> , 2019, 168, 398-405. | 5.9 | 35 |
| 7704 | High-Efficiency Particulate Air Filters Based on Carbon Nanotubes. , 2019, , 643-666. | | 6 |
| 7705 | Carbon nanotubes and its gas-sensing applications: A review. <i>Sensors and Actuators A: Physical</i> , 2019, 291, 107-143. | 2.0 | 190 |
| 7706 | Aggregate-driven reconfigurations of carbon nanotubes in thin networks under strain: in-situ characterization. <i>Scientific Reports</i> , 2019, 9, 5513. | 1.6 | 3 |
| 7707 | Effects of interfacial structure of Pd-Pt nanoparticles on hydrogen solubility. <i>Journal of Alloys and Compounds</i> , 2019, 791, 1263-1269. | 2.8 | 10 |
| 7708 | Numerical evaluation of the effect of mesopore microstructure for carbon electrode in flow battery. <i>Journal of Power Sources</i> , 2019, 424, 27-34. | 4.0 | 16 |
| 7709 | Nematic Liquid Crystal Composite Materials for DC and RF Switching. <i>Technologies</i> , 2019, 7, 32. | 3.0 | 16 |
| 7710 | Biomass based bio-electro fuel cells based on carbon electrodes: an alternative source of renewable energy. <i>SN Applied Sciences</i> , 2019, 1, 1. | 1.5 | 14 |
| 7711 | Fe ₃ O ₄ -decorated MWCNTs as an efficient and sustainable heterogeneous nanocatalyst for the synthesis of polyfunctionalised pyridines in water. <i>Materials Technology</i> , 2019, 34, 558-569. | 1.5 | 12 |
| 7712 | Carbon fibers having a nano-arched structure on Co-supersaturated Cu foils. <i>Carbon</i> , 2019, 147, 154-156. | 5.4 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7713 | Highly conductive ultra-sensitive SWCNT-coated glass fiber reinforcements for laminate composites structural health monitoring. <i>Composites Part B: Engineering</i> , 2019, 169, 37-44. | 5.9 | 43 |
| 7714 | Determination of molybdenum target parameters for transmission X-ray tube: A Geant4 simulation study. <i>Pramana - Journal of Physics</i> , 2019, 92, 1. | 0.9 | 4 |
| 7715 | Crystallization kinetics of high-density and low-density polyethylene on carbon nanotubes. <i>Polymer Crystallization</i> , 2019, 2, e10062. | 0.5 | 8 |
| 7716 | Nanomodified asphalt mixture with enhanced performance. , 2019, , 187-201. | | 1 |
| 7717 | Enhanced desalination performance of poly (vinyl alcohol)/carbon nanotube composite pervaporation membranes via interfacial engineering. <i>Journal of Membrane Science</i> , 2019, 579, 40-51. | 4.1 | 85 |
| 7718 | A Simple Method for Removal of Carbon Nanotubes from Wastewater Using Hypochlorite. <i>Scientific Reports</i> , 2019, 9, 1284. | 1.6 | 24 |
| 7719 | Aligned CNT Forests on Stainless Steel Mesh for Flexible Supercapacitor Electrode with High Capacitance and Power Density. <i>ACS Applied Nano Materials</i> , 2019, 2, 1484-1495. | 2.4 | 44 |
| 7720 | Effect of multi-walled carbon nanotubes on dielectric and electro-optic properties of a high tilt antiferroelectric liquid crystal. <i>Phase Transitions</i> , 2019, 92, 302-315. | 0.6 | 11 |
| 7721 | Capacitive Deionization (CDI): An Alternative Cost-Efficient Desalination Technique. , 2019, , 165-202. | | 17 |
| 7722 | Fabrication of Self-Healable Magnetic Nanocomposites via Diels-Alder Click Chemistry. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 506. | 1.3 | 11 |
| 7723 | Design and Analysis of Low-Power Adiabatic Logic Circuits by Using CNTFET Technology. <i>Circuits, Systems, and Signal Processing</i> , 2019, 38, 4338-4356. | 1.2 | 9 |
| 7724 | Nanocarbon composites for detection of volatile organic compounds. , 2019, , 401-419. | | 2 |
| 7725 | Etching effects of hydrogen plasma treatment on diamond surfaces. <i>Surface and Coatings Technology</i> , 2019, 363, 12-17. | 2.2 | 7 |
| 7726 | Carbon Nanomaterials in Renewable Energy Production and Storage Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 51-104. | 0.3 | 14 |
| 7727 | Advanced electrically conductive adhesives for high complexity PCB assembly. <i>AIP Conference Proceedings</i> , 2019, , . | 0.3 | 4 |
| 7728 | Polyglycerol-grafted multi-walled carbon nanotubes were prepared by one-pot method and reacted with folic acid to enhanced stability in a physiological medium. <i>Composite Interfaces</i> , 2019, 26, 989-1000. | 1.3 | 4 |
| 7729 | Recent advances in the synthesis and applications of anisotropic carbon and silica-based nanoparticles. <i>Nano Research</i> , 2019, 12, 1267-1278. | 5.8 | 30 |
| 7730 | Effect of Carbon-Based Nanomaterials on Rhizosphere and Plant Functioning. , 2019, , 553-575. | | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7731 | Preparation of metallic single-wall carbon nanotubes. Carbon, 2019, 147, 187-198. | 5.4 | 22 |
| 7732 | Two-phonon Raman scattering in graphene. AIP Conference Proceedings, 2019, , . | 0.3 | 0 |
| 7733 | DNA-Powered Stimuli-Responsive Single-Walled Carbon Nanotube Junctions. Chemistry of Materials, 2019, 31, 1537-1542. | 3.2 | 15 |
| 7734 | Synthesis of Nitrogen and Sulfur Co-Doped Sisal Fiber Carbon and Its Electrochemical Performance in Lithium-Ion Battery. International Journal of Electrochemical Science, 2019, 14, 102-113. | 0.5 | 10 |
| 7735 | Progress in rapid optical assays for heavy metal ions based on the use of nanoparticles and receptor molecules. Mikrochimica Acta, 2019, 186, 172. | 2.5 | 55 |
| 7736 | Nanocarbon and its composites for water purification. , 2019, , 711-731. | | 11 |
| 7737 | Optimisation of carbon nanotubes for advanced diagnosis and biomedical application. International Journal of Nanoparticles, 2019, 11, 217. | 0.1 | 2 |
| 7738 | Introductory Chapter: Carbon Nanotubes. , 0, , . | | 1 |
| 7739 | Selective Processes during Formation of Porous Carbon Nanosystems. , 2019, , . | | 0 |
| 7740 | Conductivity of a carbon nanotubes-epoxy resin nanocomposite. IOP Conference Series: Materials Science and Engineering, 2019, 693, 012013. | 0.3 | 1 |
| 7741 | A Review of Three Major Factors Controlling Carbon Nanotubes Synthesis from the Floating Catalyst Chemical Vapor Deposition. Nano LIFE, 2019, 09, 1930002. | 0.6 | 22 |
| 7743 | Quantum Rainbows in Positron Transmission through Carbon Nanotubes. Atoms, 2019, 7, 16. | 0.7 | 9 |
| 7744 | Enhancing the Viscoelastic Performance of Carbon Fiber Composites by Incorporating CNTs and ZnO Nanofillers. Applied Sciences (Switzerland), 2019, 9, 2281. | 1.3 | 8 |
| 7745 | Study on microwave attenuation mechanism model of Fe ₃ O ₄ /MWCNTs nanocomposites. Materials Research Express, 2019, 6, 125617. | 0.8 | 5 |
| 7746 | Production and characterisation of activated carbon and carbon nanotubes from potato peel waste and their application in heavy metal removal.. Environmental Science and Pollution Research, 2019, 26, 37228-37241. | 2.7 | 90 |
| 7747 | Zagreb Connection Number Index of Nanotubes and Regular Hexagonal Lattice. Open Chemistry, 2019, 17, 75-80. | 1.0 | 25 |
| 7748 | Electrochemistry of Controlled Diameter Carbon Nanotube Fibers at the Cross Section and Sidewall. ACS Applied Energy Materials, 2019, 2, 8757-8766. | 2.5 | 8 |
| 7749 | Carbon Nanotubes Having Haeckelite Defects as Potential Drug Carriers. Molecular Dynamics Simulation. Molecules, 2019, 24, 4281. | 1.7 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7750 | Atomistic Simulation of a New Label-Free DNA Nanosensor Based on Ballistic Carbon Nanotube Field-Effect Transistor. , 2019, , . | | 2 |
| 7751 | Effect of ZnO Nanoparticles Coating Layers on Top of ZnO Nanowires for Morphological, Optical, and Photovoltaic Properties of Dye-Sensitized Solar Cells. Micromachines, 2019, 10, 819. | 1.4 | 11 |
| 7752 | Atomic Layer Deposition of Inorganic Films for the Synthesis of Vertically Aligned Carbon Nanotube Arrays and Their Hybrids. Coatings, 2019, 9, 806. | 1.2 | 4 |
| 7753 | Aligned High Density Semi-Conductive Ultra-Small Single-Walled Carbon Nanotubes. ChemistrySelect, 2019, 4, 12676-12679. | 0.7 | 0 |
| 7754 | Stabilization of ultrashort pulses by external pumping in an array of carbon nanotubes subject to piezoelectric effects. Journal of Applied Physics, 2019, 126, . | 1.1 | 10 |
| 7755 | Advances in Ablative Composites of Carbon Based Materials: A Review. Industrial & Engineering Chemistry Research, 2019, 58, 22663-22701. | 1.8 | 70 |
| 7756 | Communication-”Electrochemical Impedance Signature of a Non-Planar, Interdigitated, Flow-Through, Porous, Carbon-Based Microelectrode. Journal of the Electrochemical Society, 2019, 166, B1669-B1672. | 1.3 | 11 |
| 7757 | 3D/1D heterostructure of flower-like MoS ₂ nanospheres anchored on carbon nanotubes for enhanced friction and wear properties as oil additives. Materials Research Express, 2019, 6, 1250f9. | 0.8 | 7 |
| 7758 | Optical absorption and energy loss spectroscopy of single-walled carbon nanotubes. Physical Review B, 2019, 100, . | 1.1 | 7 |
| 7759 | Fluorescent Single-Walled Carbon Nanotubes for Protein Detection. Sensors, 2019, 19, 5403. | 2.1 | 64 |
| 7760 | Growth kinetics of single-walled carbon nanotubes with a (2 <i>n</i> , <i>n</i>) chirality selection. Science Advances, 2019, 5, eaav9668. | 4.7 | 42 |
| 7761 | Fiber all-optical light control with low-dimensional materials (LDMs): thermo-optic effect and saturable absorption. Nanoscale Advances, 2019, 1, 4190-4206. | 2.2 | 5 |
| 7762 | Impact of Molecular Dynamics Simulations on Research and Development of Semiconductor Materials. MRS Advances, 2019, 4, 3381-3398. | 0.5 | 3 |
| 7763 | Investigation of the surface properties of different highly aligned N-MWCNT carpets. Carbon, 2019, 141, 99-106. | 5.4 | 3 |
| 7764 | Thermal chemical vapor deposition and luminescence property of graphitic carbon nitride film for carbon-based semiconductor systems. Japanese Journal of Applied Physics, 2019, 58, 010907. | 0.8 | 19 |
| 7765 | Cyclodextrin-modified polycarboxylate superplasticizers as dispersant agents for multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2019, 136, 47311. | 1.3 | 8 |
| 7766 | Aerosolization and characterization of carbon nanotube and nanofiber materials: Relationship between aerosol properties and bulk density. Journal of Aerosol Science, 2019, 127, 38-48. | 1.8 | 5 |
| 7767 | Swallow-Inspired Strategy towards Ultralight Functional Multiwall-Carbon-Nanotube-Based Aerogels for Supercapacitors. ChemElectroChem, 2019, 6, 1661-1667. | 1.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7768 | Proteins and peptides voltammetry: Trends, potential, and limitations. <i>Current Opinion in Electrochemistry</i> , 2019, 14, 44-52. | 2.5 | 4 |
| 7769 | Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1185-1191. | 4.0 | 31 |
| 7770 | Versatile reorganization of metal-polyphenol coordination on CNTs for dispersion, assembly, and transformation. <i>Carbon</i> , 2019, 144, 402-409. | 5.4 | 10 |
| 7771 | Nanoindentation of thin graphdiyne films: Experiments and molecular dynamics simulation. <i>Carbon</i> , 2019, 144, 72-80. | 5.4 | 28 |
| 7772 | Molecular dynamics simulation of the adsorption of alkali metal cations on carbon nanotubes surfaces. <i>Computational Condensed Matter</i> , 2019, 18, e00357. | 0.9 | 2 |
| 7773 | Background, fundamental understanding and progress in electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 667-692. | 1.2 | 62 |
| 7774 | Tunable Energy Barrier for Intercalation of a Carbon Nanotube into Graphene Nanosheets: A Molecular Dynamics Study of a Hybrid Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1974-1986. | 1.5 | 6 |
| 7775 | A material experiment for small satellites to characterise the behaviour of carbon nanotubes in space " development and ground validation. <i>Advances in Space Research</i> , 2019, 63, 2312-2321. | 1.2 | 4 |
| 7776 | Hydrophilic and hydrophobic pores in reduced graphene oxide aerogel. <i>Journal of Porous Materials</i> , 2019, 26, 1111-1119. | 1.3 | 16 |
| 7777 | Optimization of Carbon Nanotubes as Conductive Additives for High-Energy-Density Electrodes for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1800845. | 1.8 | 25 |
| 7778 | Preparation of porous graphene/carbon nanotube composite and adsorption mechanism of methylene blue. <i>SN Applied Sciences</i> , 2019, 1, 1. | 1.5 | 22 |
| 7779 | Assignment of the Absolute-Handedness Chirality of Single-Walled Carbon Nanotubes Using Organic Molecule Supramolecular Structures. <i>Chemistry - A European Journal</i> , 2019, 25, 1941-1948. | 1.7 | 13 |
| 7780 | Eco-friendly synthesis and characterizations of single-wall carbon nanotubes/Ag nanoparticle hybrids for environmental decontamination. <i>Materials Research Express</i> , 2019, 6, 035002. | 0.8 | 4 |
| 7781 | Failure modes and mechanisms for rechargeable Lithium-based batteries: a state-of-the-art review. <i>Acta Mechanica</i> , 2019, 230, 701-727. | 1.1 | 53 |
| 7782 | Nano-dispersion of fluorinated phosphonate-modified nanodiamond in crystalline fluoropolymer matrix to achieve a transparent polymer/nanofiller hybrid. <i>Polymer Composites</i> , 2019, 40, E842. | 2.3 | 14 |
| 7783 | Studies on effect of ethyl 4-amino cinnamate functionalized multiwall carbon nanotubes (f-MWCNTs) on properties of millable polyurethane rubber (MPU) nanocomposites. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1141-1156. | 0.6 | 0 |
| 7784 | Polypropylene/carbon nanotube magnetic composites obtained using carbon nanotubes from sawdust. <i>Polymers for Advanced Technologies</i> , 2019, 30, 457-464. | 1.6 | 7 |
| 7785 | Epoxy functionalized multi-walled carbon nanotubes/polyvinylidene fluoride nanocomposites: Microstructure, morphology, thermal, piezoelectricity and conductivity investigations. <i>Polymer Composites</i> , 2019, 40, E776. | 2.3 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7786 | Synthesis, Characterization, and Applications of Carbon Nanotubes. , 2019, , 1-45. | | 20 |
| 7787 | Wet Functionalization of Carbon Nanotubes and Its Applications in Rubber Composites. , 2019, , 77-108. | | 4 |
| 7788 | Thickness Effect on Field-Emission Properties of Carbon Nanotube Composite Cathode. IEEE Transactions on Electron Devices, 2019, 66, 716-721. | 1.6 | 15 |
| 7789 | Noncovalent functionalization of carbon nanotubes via co-deposition of tannic acid and polyethyleneimine for reinforcement and conductivity improvement in epoxy composite. Composites Science and Technology, 2019, 170, 25-33. | 3.8 | 51 |
| 7790 | Biodistribution and Cellular Interaction of Hybrid Nanostructures. , 2019, , 63-86. | | 4 |
| 7791 | Fabrication of multi-walled carbon-nanotube-grafted polyvinyl-chloride composites with high solar-thermal-conversion performance. Composites Science and Technology, 2019, 170, 77-84. | 3.8 | 11 |
| 7792 | A size-dependent exact theory for thermal buckling, free and forced vibration analysis of temperature dependent FG multilayer GPLRC composite nanostructures resting on elastic foundation. International Journal of Mechanics and Materials in Design, 2019, 15, 569-583. | 1.7 | 93 |
| 7793 | Graphene Adsorption and Separation Functional Materials. Chemical Engineering and Technology, 2019, 42, 266-286. | 0.9 | 10 |
| 7794 | Supercapacitor Energy Storage Device Using Biowastes: A Sustainable Approach to Green Energy. Sustainability, 2019, 11, 414. | 1.6 | 163 |
| 7795 | Nanotechnology: Applications in Energy, Drug and Food. , 2019, , . | | 8 |
| 7796 | Nanomaterials: Electromagnetic Wave Energy Loss. , 2019, , 73-97. | | 3 |
| 7797 | Hybrid nanocomposite based on poly-3-amine-7-methylamine-2-methylphenazine and single-walled carbon nanotubes. Polymer Bulletin, 2019, 76, 5285-5300. | 1.7 | 4 |
| 7798 | Straightening single-walled carbon nanotubes by helically wrapped poly(9,9-dioctylfluorene) chains. Applied Surface Science, 2019, 471, 205-212. | 3.1 | 0 |
| 7799 | Optical, electrochemical and catalytic methods for in-vitro diagnosis using carbonaceous nanoparticles: a review. Mikrochimica Acta, 2019, 186, 50. | 2.5 | 28 |
| 7800 | Multispecies plasma fluid simulation for carbon arc discharge. Journal Physics D: Applied Physics, 2019, 52, 105204. | 1.3 | 20 |
| 7801 | On-Chip Thermionic Electron Emitter Arrays Based on Horizontally Aligned Single-Walled Carbon Nanotubes. IEEE Transactions on Electron Devices, 2019, 66, 1069-1074. | 1.6 | 10 |
| 7802 | Therapeutic applications of selenium nanoparticles. Biomedicine and Pharmacotherapy, 2019, 111, 802-812. | 2.5 | 477 |
| 7803 | An Overview of the Recent Progress in the Synthesis and Applications of Carbon Nanotubes. Journal of Carbon Research, 2019, 5, 3. | 1.4 | 128 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7804 | X-ray absorption anomaly of well-characterized multiwall carbon nanotubes. <i>Carbon</i> , 2019, 145, 209-217. | 5.4 | 6 |
| 7805 | Research progress on CNTs/CNFs-modified cement-based composites – A review. <i>Construction and Building Materials</i> , 2019, 202, 290-307. | 3.2 | 154 |
| 7806 | Optimization of Carbon Nanotube Dispersions in Water Using Response Surface Methodology. <i>ACS Omega</i> , 2019, 4, 849-859. | 1.6 | 21 |
| 7807 | Photoinduced heat conversion enhancement of metallic glass nanowire arrays. <i>Journal of Applied Physics</i> , 2019, 125, . | 1.1 | 10 |
| 7809 | Pro- and anti-oxidant properties of near-infrared (NIR) light responsive carbon nanoparticles. <i>Free Radical Biology and Medicine</i> , 2019, 134, 165-176. | 1.3 | 18 |
| 7810 | Hydrogen storage of dual-Ti-doped single-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2960-2975. | 3.8 | 64 |
| 7811 | Enhancing field electron emission behavior and mechanical properties of hydrogenated amorphous carbon films by incorporating vertically aligned carbon nanowires via facile reactive magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2019, 784, 463-470. | 2.8 | 5 |
| 7812 | Electrochemical detection and quantification of Reactive Red 195 dyes on graphene modified glassy carbon electrode. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2019, 37, 42-54. | 2.9 | 6 |
| 7813 | Carbon Nanotubes and Graphene Oxide Applications in Optochemical Sensors. , 2019, , 223-246. | | 1 |
| 7814 | Fundamentals of Nanomaterials and Polymer Nanocomposites. , 2019, , 1-45. | | 47 |
| 7815 | Conducting Nanomaterial Sensor Using Natural Receptors. <i>Chemical Reviews</i> , 2019, 119, 36-93. | 23.0 | 159 |
| 7816 | Quantifying the effects of ultraviolet type C radiation on the mechanical and electrical properties of carbon nanotube sheet for space-based applications. <i>Materials Today Communications</i> , 2019, 18, 7-13. | 0.9 | 9 |
| 7817 | Carbon Nanotubes and Their Polymer Nanocomposites. , 2019, , 145-175. | | 15 |
| 7818 | High temperature quasistatic and dynamic mechanical behavior of interconnected 3D carbon nanotube structures. <i>Carbon</i> , 2019, 142, 291-299. | 5.4 | 7 |
| 7819 | Electrical Conductivity of Polymer–Carbon Composites: Effects of Different Factors. <i>Springer Series on Polymer and Composite Materials</i> , 2019, , 159-210. | 0.5 | 5 |
| 7820 | Remarkably anisotropic conductive MWCNTs/polypropylene nanocomposites with alternating microlayers. <i>Chemical Engineering Journal</i> , 2019, 358, 924-935. | 6.6 | 70 |
| 7822 | Application of Polymer-Based Composites. , 2019, , 255-274. | | 3 |
| 7823 | Strain engineering for thermal conductivity of diamond nanothread forests. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 085301. | 1.3 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 7824 | On modeling of wave propagation in a thermally affected GNP-reinforced imperfect nanocomposite shell. <i>Engineering With Computers</i> , 2019, 35, 1375-1389. | 3.5 | 107 |
| 7825 | Atomic Properties and Electronic Structure. <i>Interface Science and Technology</i> , 2019, , 23-66. | 1.6 | 3 |
| 7826 | High Performance Antistatic HDPE Composites with Bridging Effect of Hybrid Carbon Black and Multi-Walled Carbon Nanotubes Fillers. <i>Advanced Engineering Materials</i> , 2019, 21, 1800609. | 1.6 | 9 |
| 7827 | High capacity natural fiber coated conductive and electroactive composite papers electrode for energy storage applications. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47282. | 1.3 | 10 |
| 7828 | Carbon Nanotubes as Biological Transporters and Tissue-Engineering Scaffolds. , 2019, , 135-156. | | 4 |
| 7829 | Lateral heterojunction of h^{\pm} -graphyne and h^{\pm} -graphyne like BN: electronic structure and optical properties. <i>Materials Research Express</i> , 2019, 6, 016309. | 0.8 | 1 |
| 7830 | Effectively improving the performance of MWNT/PEEK composite by choosing PAK-Cz as the solubilizer. <i>High Performance Polymers</i> , 2019, 31, 875-884. | 0.8 | 4 |
| 7831 | Carbon Nanotubes: Electronic Structure and Spectroscopy. , 2019, , 205-218. | | 5 |
| 7832 | Microstructural Characterization of Carbon Nanotubes (CNTs)-Reinforced Nickel Matrix Nanocomposites. <i>Microscopy and Microanalysis</i> , 2019, 25, 180-186. | 0.2 | 9 |
| 7833 | Polymer Composites Containing Functionalized Nanoparticles and the Environment. , 2019, , 437-466. | | 2 |
| 7834 | Nanoenvelopes: Wrapping a Single-Walled Carbon Nanotube with Graphene using an Atomic Force Microscope. <i>Advanced Materials</i> , 2019, 31, 1804918. | 11.1 | 6 |
| 7835 | Carbon Nanotubes as a Resourceful Product Derived from Waste Plastic—A Review. , 2019, , 915-934. | | 6 |
| 7836 | Removal of ultrafine particles by porous nanomaterials with varied morphologies. <i>Powder Technology</i> , 2019, 342, 380-387. | 2.1 | 4 |
| 7837 | In-situ synthesis of flexible hybrid composite films for improved thermoelectric performance. <i>Chemical Engineering Journal</i> , 2019, 357, 547-558. | 6.6 | 30 |
| 7838 | Fe, Al, N, S co-doping as a tool for regulating the optical properties of (8, 0) single-walled carbon nanotubes: a first principle study. <i>Materials Research Express</i> , 2019, 6, 015011. | 0.8 | 1 |
| 7839 | Preparation and application of a novel Raney nickel catalyst for fix-bed reactions. <i>Catalysis Communications</i> , 2019, 118, 60-64. | 1.6 | 4 |
| 7840 | Covalent functionalization of MWCNT with PHBV chains: Evaluation of the functionalization and production of nanocomposites. <i>Polymer Composites</i> , 2019, 40, 288-295. | 2.3 | 17 |
| 7841 | Asymptotic derivation of nonlocal beam models from two-dimensional nonlocal elasticity. <i>Mathematics and Mechanics of Solids</i> , 2019, 24, 2425-2443. | 1.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7842 | FTIR study on early-age hydration of carbon nanotubes-modified cement-based materials. <i>Advances in Cement Research</i> , 2019, 31, 353-361. | 0.7 | 37 |
| 7843 | Improved piezoresistivity and damage detection application of hybrid carbon nanotube sheet-graphite platelet nanocomposites. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 1333-1341. | 1.5 | 15 |
| 7844 | Preparation, properties and <i>in vitro</i> cellular response of multi-walled carbon nanotubes/bioactive glass/poly(etheretherketone) biocomposite for bone tissue engineering. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019, 68, 433-441. | 1.8 | 20 |
| 7845 | Review of the Electronic, Optical, and Magnetic Properties of Graphdiyne: From Theories to Experiments. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2707-2716. | 4.0 | 56 |
| 7846 | Generally cylindrical orthotropic constitutive modeling of matrix-filled carbon nanotubes: Transverse mechanical properties and responses. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 2330-2363. | 2.0 | 4 |
| 7847 | Assessing the interactions between micropollutants and nanoparticles in engineered and natural aquatic environments. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 135-215. | 6.6 | 36 |
| 7848 | Sensitive and selective molecularly imprinted electrochemical sensor based on multi-walled carbon nanotubes for doxycycline hyclate determination. <i>Chinese Chemical Letters</i> , 2020, 31, 185-188. | 4.8 | 39 |
| 7849 | The performance of green carbon as a backbone for hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10516-10522. | 3.8 | 11 |
| 7850 | Polymer composite for antistatic application in aerospace. <i>Defence Technology</i> , 2020, 16, 107-118. | 2.1 | 159 |
| 7851 | Fabrication and study of supercapacitor electrodes based on oxygen plasma functionalized carbon nanotube fibers. <i>Journal of Energy Chemistry</i> , 2020, 40, 120-131. | 7.1 | 90 |
| 7852 | Facile fabrication of glycosylated and PEGylated carbon nanotubes through the combination of mussel inspired chemistry and surface-initiated ATRP. <i>Materials Science and Engineering C</i> , 2020, 106, 110157. | 3.8 | 19 |
| 7853 | Ultrasound-assisted synthesis of 3D flower-like zinc oxide decorated fMWCNTs for sensitive detection of toxic environmental pollutant 4-nitrophenol. <i>Ultrasonics Sonochemistry</i> , 2020, 60, 104798. | 3.8 | 41 |
| 7854 | Effects of high-temperature thermal annealing on properties of aligned multi-walled carbon nanotube sheets and their composites. <i>Composite Interfaces</i> , 2020, 27, 569-586. | 1.3 | 8 |
| 7855 | Core-Double Shell Nano-hybrids Designed by Multi-walled Carbon Nanotubes, Polyaniline and Polythiophenes in PBDT-DTNT:PC61BM Solar Cells. <i>Journal of Electronic Materials</i> , 2020, 49, 435-443. | 1.0 | 3 |
| 7856 | P-n junction based Ag ₂ O@Ag@Coated functionalized carbon nanotubes and their efficient visible-light photocatalytic reduction performances. <i>Microporous and Mesoporous Materials</i> , 2020, 292, 109734. | 2.2 | 9 |
| 7857 | Lightweight Epoxy-Based Composites for EMI Shielding Applications. <i>Journal of Electronic Materials</i> , 2020, 49, 1702-1720. | 1.0 | 27 |
| 7858 | Carbon nanomaterials integrated molecularly imprinted polymers for biological sample analysis: A critical review. <i>Materials Chemistry and Physics</i> , 2020, 239, 121966. | 2.0 | 71 |
| 7859 | Carbon Nanotube Yarn for Fiber-Shaped Electrical Sensors, Actuators, and Energy Storage for Smart Systems. <i>Advanced Materials</i> , 2020, 32, e1902670. | 11.1 | 165 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7860 | Recent progress in the synthesis of graphene/CNT composites and the energy-related applications. <i>Journal of Materials Science and Technology</i> , 2020, 55, 16-34. | 5.6 | 71 |
| 7861 | Smart Materials by Nanoscale Magnetic Assembly. <i>Advanced Functional Materials</i> , 2020, 30, 1903467. | 7.8 | 88 |
| 7862 | Biomimetic nanoparticle technology for cardiovascular disease detection and treatment. <i>Nanoscale Horizons</i> , 2020, 5, 25-42. | 4.1 | 80 |
| 7863 | Carbon nanotube: Controlled synthesis determines its future. <i>Science China Materials</i> , 2020, 63, 16-34. | 3.5 | 16 |
| 7864 | Advanced carbon nanostructures for future high performance sodium metal anodes. <i>Energy Storage Materials</i> , 2020, 25, 811-826. | 9.5 | 114 |
| 7865 | A series of novel high-temperature-resistant multiwall carbon nanotubes dispersants: Polyphenylene sulfones with pyrene groups in main chain. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48379. | 1.3 | 1 |
| 7866 | Theoretical investigation of negatively curved 6.82D carbon based on density functional theory. <i>Computational Materials Science</i> , 2020, 171, 109211. | 1.4 | 4 |
| 7867 | A review on application of carbon nanostructures as nanofiller in corrosion-resistant organic coatings. <i>Journal of Coatings Technology Research</i> , 2020, 17, 19-55. | 1.2 | 44 |
| 7868 | Fabrication of 3D hierarchical porous VO ₂ (B)/CNT/rGO ternary nanocomposite with sandwich-like structure as enhanced electrodes for high-performance supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124222. | 2.3 | 17 |
| 7869 | Strong, lightweight, and highly conductive CNT/Au/Cu wires from sputtering and electroplating methods. <i>Journal of Materials Science and Technology</i> , 2020, 40, 99-106. | 5.6 | 30 |
| 7870 | Performance characteristics of technical textiles: Part I: E-textiles. , 2020, , 347-364. | | 1 |
| 7871 | Study of film thickness effect on carbon nanotube based field emission devices. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152648. | 2.8 | 29 |
| 7872 | Carbon nanotubes-based polymer nanocomposites: Bio-mimic preparation and methylene blue adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103525. | 3.3 | 10 |
| 7873 | The rejection of mono- and di-valent ions from aquatic environment by MWNT/chitosan buckypaper composite membranes: Influences of chitosan concentrations. <i>Separation and Purification Technology</i> , 2020, 234, 116088. | 3.9 | 24 |
| 7874 | MWCNT-riboflavin nanocomposite for collagen crosslinking: A green approach. <i>Materials Chemistry and Physics</i> , 2020, 241, 122361. | 2.0 | 4 |
| 7875 | Sustainability and environmental ethics for the application of engineered nanoparticles. <i>Environmental Science and Policy</i> , 2020, 103, 85-98. | 2.4 | 44 |
| 7876 | Improving field emission properties of vertically aligned carbon nanotube arrays through a structure modification. <i>Journal of Materials Science</i> , 2020, 55, 2101-2117. | 1.7 | 18 |
| 7877 | Recent Advances in Multifunctional Graphitic Nanocapsules for Raman Detection, Imaging, and Therapy. <i>Small Methods</i> , 2020, 4, 1900440. | 4.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7878 | In-situ embedding MOFs-derived copper sulfide polyhedrons in carbon nanotube networks for hybrid supercapacitor with superior energy density. <i>Electrochimica Acta</i> , 2020, 329, 135130. | 2.6 | 112 |
| 7879 | Functionalized nanomaterials for sample preparation methods. , 2020, , 375-413. | | 33 |
| 7880 | Single-walled carbon nanotube absolute-handedness chirality assignment confirmation using metalized porphyrin's supramolecular structures via STM imaging technique. <i>Chirality</i> , 2020, 32, 345-352. | 1.3 | 9 |
| 7881 | Coaxial electrospun free-standing and mechanically stable hierarchical porous carbon nanofiber membranes for flexible supercapacitors. <i>Carbon</i> , 2020, 160, 80-87. | 5.4 | 75 |
| 7882 | Characterization, thermal and electrical properties of aminated PVC / oxidized MWCNT composites doped with nanographite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3887-3895. | 2.0 | 22 |
| 7883 | High-Performance, Wearable Thermoelectric Generator Based on a Highly Aligned Carbon Nanotube Sheet. <i>ACS Applied Energy Materials</i> , 2020, 3, 1199-1206. | 2.5 | 43 |
| 7884 | Progress in supercapacitors: roles of two dimensional nanotubular materials. <i>Nanoscale Advances</i> , 2020, 2, 70-108. | 2.2 | 164 |
| 7885 | Preparation of Iron and Nitrogen Codoped Carbon Nanotubes from Waste Plastics Pyrolysis for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2020, 13, 938-944. | 3.6 | 49 |
| 7886 | Enhancement of heat transfer in peristaltic flow in a permeable channel under induced magnetic field using different CNTs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1277-1291. | 2.0 | 73 |
| 7887 | Double-walled carbon nanotube deformation by interacting with a nickel surface: A DFT study. <i>Computational Materials Science</i> , 2020, 174, 109457. | 1.4 | 2 |
| 7888 | The Effect of the Polyaromatic Hydrocarbon in the Formation of Fullerenes. <i>Angewandte Chemie</i> , 2020, 132, 3970-3975. | 1.6 | 1 |
| 7889 | The Effect of the Polyaromatic Hydrocarbon in the Formation of Fullerenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3942-3947. | 7.2 | 5 |
| 7890 | The synthesis of carbon-based nanomaterials by pulsed laser ablation in water. <i>Materials Research Express</i> , 2020, 7, 015002. | 0.8 | 37 |
| 7891 | Fibroid-functionalized magnetic carbon nanotube as a green support for anchoring silver nanoparticles as a biocatalyst for A³ coupling reaction. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5395. | 1.7 | 15 |
| 7892 | Adhesion of Single-Walled Carbon Nanotube Thin Films with Different Materials. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 504-509. | 2.1 | 8 |
| 7893 | A nanocomposite consisting of etched multiwalled carbon nanotubes, amino-modified metal-organic framework UiO-66 and polyaniline for preconcentration of polycyclic aromatic hydrocarbons prior to their determination by HPLC. <i>Mikrochimica Acta</i> , 2020, 187, 78. | 2.5 | 15 |
| 7894 | A Novel Micro-Multifocus X-Ray Source Based on Electron Beam Scanning for Multi-View Stationary Micro Computed Tomography. <i>IEEE Electron Device Letters</i> , 2020, 41, 167-170. | 2.2 | 4 |
| 7895 | Constructing uniform Fe ₃ O ₄ @C/MnO ₂ microspheres with yolk-shell interior toward enhancement in microwave absorption. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152795. | 2.8 | 72 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7896 | Interphase structures and properties of carbon nanotube-reinforced polymer nanocomposite fibers. , 2020, , 71-102. | | 2 |
| 7897 | Natureâ€œInspired selfâ€œcleaning surfaces: Mechanisms, modelling, and manufacturing. Chemical Engineering Research and Design, 2020, 155, 48-65. | 2.7 | 79 |
| 7898 | Effect of temperature on multiple competitive processes for co-production of carbon nanotubes and hydrogen during catalytic reforming of toluene. Fuel, 2020, 264, 116749. | 3.4 | 22 |
| 7899 | Molecular dynamics simulations of surfactant adsorption on carbon nanotubes intended for biomedical applications. Adsorption, 2020, 26, 141-149. | 1.4 | 3 |
| 7900 | Electrical conductivity of CNT/polymer composites: 3D printing, measurements and modeling. Composites Part B: Engineering, 2020, 183, 107600. | 5.9 | 151 |
| 7901 | Holey reduced graphene oxide/carbon nanotube/LiMn0.7Fe0.3PO4 composite cathode for high-performance lithium batteries. Journal of Power Sources, 2020, 449, 227553. | 4.0 | 23 |
| 7902 | Microwave Absorption of Organic Metal Halide Nanotubes. Advanced Materials Interfaces, 2020, 7, 1901270. | 1.9 | 32 |
| 7904 | Microplasmas for Advanced Materials and Devices. Advanced Materials, 2020, 32, e1905508. | 11.1 | 130 |
| 7905 | Highâ€œPerformance Onâ€œChip Thermionic Electron Microâ€œEmitter Arrays Based on Superâ€œAligned Carbon Nanotube Films. Advanced Functional Materials, 2020, 30, 1907814. | 7.8 | 8 |
| 7906 | Layered double hydroxide nanocomposites based on carbon nanoforms. , 2020, , 411-460. | | 5 |
| 7907 | Marangoni Driven Boundary Layer Flow of Carbon Nanotubes Toward a Riga Plate. Frontiers in Physics, 2020, 7, . | 1.0 | 30 |
| 7908 | Carbon Nanotubeâ€œReinforced Aluminum Matrix Composites. Advanced Engineering Materials, 2020, 22, 1901176. | 1.6 | 55 |
| 7909 | Porous Strained Pt Nanostructured Thinâ€œFilm Electrocatalysts via Dealloying for PEM Fuel Cells. Advanced Materials Interfaces, 2020, 7, 1901326. | 1.9 | 19 |
| 7910 | Carbon nanotube yarn-based actuators. , 2020, , 271-291. | | 4 |
| 7911 | TiN Paper for Ultrafast-Charging Supercapacitors. Nano-Micro Letters, 2020, 12, 3. | 14.4 | 44 |
| 7912 | Fivefold enhancement of yield and toughness of copper nanowires via coating carbon nanotubes. Nanotechnology, 2020, 31, 115703. | 1.3 | 4 |
| 7913 | Theoretical investigation of dielectrophoretic effect for carbon nanotubes in optoelectronic tweezers. Transactions of the Institute of Measurement and Control, 2020, 42, 795-804. | 1.1 | 1 |
| 7914 | Effect of host fluid and hydrophilicity of multi-walled carbon nanotubes on stability and CO2 absorption of amine-based and water-based nanofluids. Journal of Environmental Chemical Engineering, 2020, 8, 103580. | 3.3 | 27 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 7915 | Porphyrin nanofiber/single-walled carbon nanotube nanocomposite-based sensors for monitoring hydrogen peroxide vapor. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127518. | 4.0 | 23 |
| 7916 | Stability of iron-containing nanoparticles for selectively growing single-walled carbon nanotubes. <i>Carbon</i> , 2020, 158, 795-801. | 5.4 | 9 |
| 7917 | pH-responsive chimeric liposomes: From nanotechnology to biological assessment. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118849. | 2.6 | 8 |
| 7918 | Chemically interconnected ternary AgNP/polypyrrole/functionalized buckypaper composites as high-energy-density supercapacitor electrodes. <i>Chemical Physics Letters</i> , 2020, 739, 136957. | 1.2 | 11 |
| 7919 | Ī-Conjugated polyimide-based organic cathodes with extremely-long cycling life for rechargeable magnesium batteries. <i>Energy Storage Materials</i> , 2020, 26, 494-502. | 9.5 | 82 |
| 7920 | Customizing the Polarity of Single-Walled Carbon-Nanotube Field-Effect Transistors Using Solution-Based Additives. <i>Advanced Electronic Materials</i> , 2020, 6, 1900789. | 2.6 | 11 |
| 7921 | Magnetic nanocatalysts derived from carbon nanotubes functionalized with imidazole: towards pesticide degradation. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118496. | 10.8 | 17 |
| 7922 | Enhanced electrical and electromagnetic interference shielding properties of uniformly dispersed carbon nanotubes filled composite films via solvent-free process using ring-opening polymerization of cyclic butylene terephthalate. <i>Polymer</i> , 2020, 186, 122030. | 1.8 | 22 |
| 7923 | Bioelectrocatalysis at carbon nanotubes. <i>Methods in Enzymology</i> , 2020, 630, 215-247. | 0.4 | 13 |
| 7924 | Electronic and transport properties of (6,2) carbon and silicon nanotubes: A first-principles calculation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 117, 113855. | 1.3 | 10 |
| 7925 | Performance of CNTs/GQD-Based Flexible Strain Sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1013-1019. | 0.9 | 6 |
| 7926 | Few biomedical applications of carbon nanotubes. <i>Methods in Enzymology</i> , 2020, 630, 347-363. | 0.4 | 14 |
| 7927 | Reliability-based robust design optimization of polymer nanocomposites to enhance percolated electrical conductivity considering correlated input variables using multivariate distributions. <i>Polymer</i> , 2020, 186, 122060. | 1.8 | 10 |
| 7928 | Theoretical studies on electronic properties of a new carbon allotrope with paring of pentagonal and heptagonal rings. <i>European Physical Journal Plus</i> , 2020, 135, 1. | 1.2 | 3 |
| 7929 | Polarization Parameters and Scaling Matter—How Processing Environment and Shape Factor Influence Electroactive Nanocomposite Characteristics. <i>Journal of Composites Science</i> , 2020, 4, 141. | 1.4 | 0 |
| 7930 | Graphdiyne Saturable Absorber for Passively Q-Switched Ho ³⁺ -Doped Laser. <i>Nanomaterials</i> , 2020, 10, 1848. | 1.9 | 14 |
| 7931 | Development and Application of Resistance Strain Force Sensors. <i>Sensors</i> , 2020, 20, 5826. | 2.1 | 62 |
| 7932 | Laser pyrolysis synthesis of zinc-containing nanomaterials using low-cost ultrasonic spray delivery of precursors. <i>Powder Technology</i> , 2020, 376, 104-112. | 2.1 | 11 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7933 | Edge-dependent ballistic transport through copper-decorated carbon-nanotube-graphene covalent junction with low Schottky barrier. <i>Journal of Applied Physics</i> , 2020, 128, 064302. | 1.1 | 3 |
| 7934 | Improved performance of nanoscale junctionless carbon nanotube tunneling FETs using dual-material source gate design: A quantum simulation study. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 127, 153491. | 1.7 | 21 |
| 7935 | Facile β -ray irradiation synthesis of Pt/GA nanocomposite for catalytic reduction of 4-nitrophenol. <i>Green Energy and Environment</i> , 2021, 6, 734-742. | 4.7 | 15 |
| 7936 | Radio-frequency transparent carbon nanotube electrothermal film for radome de-icing application. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10854-10862. | 2.6 | 11 |
| 7937 | Simultaneous Detection of Paracetamol, Ascorbic Acid, and Caffeine Using a Bismuth-Silver Nanosensor. <i>Electroanalysis</i> , 2020, 32, 3098-3107. | 1.5 | 4 |
| 7938 | Solution Processable High Performance Multiwall Carbon Nanotube-Si Heterojunctions. <i>Advanced Electronic Materials</i> , 2020, 6, 2000617. | 2.6 | 3 |
| 7939 | A key progress in introducing single walled carbon nanotubes to photovoltaic devices. <i>Applied Nanoscience (Switzerland)</i> , 2020, , 1. | 1.6 | 6 |
| 7940 | Fabrication of functionally graded hydroxyapatite and structurally graded porous hydroxyapatite by using multi-walled carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 139, 106138. | 3.8 | 11 |
| 7941 | A review on fabrication, characterization and implementation of wearable strain sensors. <i>Sensors and Actuators A: Physical</i> , 2020, 315, 112355. | 2.0 | 79 |
| 7942 | Development and characterization of Cu/MWCNT composite prepared by electrodeposition technique. <i>AIP Conference Proceedings</i> , 2020, , . | 0.3 | 1 |
| 7943 | A Novel Stationary CT Scheme Based on High-Density X-Ray Sources Device. <i>IEEE Access</i> , 2020, 8, 112910-112921. | 2.6 | 7 |
| 7944 | A microcantilever of self-suspended carbon nanotube forest for material characterization and sensing applications. <i>Applied Physics Letters</i> , 2020, 117, 013101. | 1.5 | 4 |
| 7945 | Effects of surface-extended inorganic particles on phase transitions and luminescence properties of 5CB liquid crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 696, 55-64. | 0.4 | 2 |
| 7946 | A theoretical study of the structural and electronic properties of poly(9-vinylcarbazole) interacting with small-diameter single-walled carbon nanotubes. <i>International Journal of Computational Materials Science and Engineering</i> , 2020, 09, 2050009. | 0.5 | 0 |
| 7947 | A singularity free approach for Kirchhoff rods having uniformly distributed electrostatic charge. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 367, 113133. | 3.4 | 3 |
| 7948 | A self-converted strategy toward multifunctional composites with laser-induced graphitic structures. <i>Composites Science and Technology</i> , 2020, 199, 108334. | 3.8 | 12 |
| 7949 | Surface Treatment of Carbon Nanotubes Using Modified Tapioca Starch for Improved Force Detection Consistency in Smart Cementitious Materials. <i>Sensors</i> , 2020, 20, 3985. | 2.1 | 4 |
| 7950 | Carbon nanotube-based sensors and their application. , 2020, , 265-291. | | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7951 | Resistance change characteristics of spray-deposited carbon nanotube thin film with bending deformation. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SGGH07. | 0.8 | 3 |
| 7952 | Structural and morphological studies of conducting polymer nanocomposites. <i>AIP Conference Proceedings</i> , 2020, , . | 0.3 | 2 |
| 7953 | Nanocarbon for drug delivery. , 2020, , 205-232. | | 0 |
| 7954 | Structural, electronic, and electrical behaviour of MWCNTs: TiO ₂ (:SiO ₂) nanocomposites. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020, 245, 147002. | 0.8 | 1 |
| 7955 | Metal-Free Carbon-Based Supercapacitorsâ€”A Comprehensive Review. <i>Electrochem</i> , 2020, 1, 410-438. | 1.7 | 18 |
| 7956 | Oxygen Defect Engineering toward the Length-Selective Tailoring of Carbon Nanotubes via a Two-Step Electrochemical Strategy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27097-27106. | 1.5 | 10 |
| 7957 | Recent Advances in Synthesis of Metalâ€”Carbon Nanocomposites and Their Application in Catalytic Hydrogenation Reactions. <i>ACS Symposium Series</i> , 2020, , 403-458. | 0.5 | 1 |
| 7958 | Evolution characteristics of different types of coke deposition during catalytic removal of biomass tar. <i>Journal of the Energy Institute</i> , 2020, 93, 2497-2504. | 2.7 | 33 |
| 7959 | Precise Identification of the Active Phase of Cobalt Catalyst for Carbon Nanotube Growth by <i>In Situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2020, 14, 16823-16831. | 7.3 | 51 |
| 7960 | Multi-Walled Carbon Nanotubes Can Promote <i>Brassica napus</i> L. and <i>Arabidopsis thaliana</i> L. Root Hair Development through Nitric Oxide and Ethylene Pathways. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9109. | 1.8 | 5 |
| 7961 | Smart properties of carbon nanotube-epoxy composites. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020, 234, 1409-1416. | 0.7 | 2 |
| 7962 | Ultrafast Exciton Selfâ€”Trapping and Delocalization in Cycloparaphenylenes: The Role of Excitedâ€”State Symmetry in Electronâ€”Vibrational Coupling. <i>Angewandte Chemie</i> , 2020, 132, 17137-17144. | 1.6 | 4 |
| 7963 | Anticancer DOX delivery system based on CNTs: Functionalization, targeting and novel technologies. <i>Journal of Controlled Release</i> , 2020, 327, 198-224. | 4.8 | 50 |
| 7964 | A rationalized and innovative perspective of nanotechnology and nanobiotechnology in chronic wound management. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 60, 101930. | 1.4 | 14 |
| 7965 | Carbon Nanotube Reinforced Strong Carbon Matrix Composites. <i>ACS Nano</i> , 2020, 14, 9282-9319. | 7.3 | 89 |
| 7966 | Photoinduced electron transfer from carbon nanotubes to fullerenes: C ₆₀ versus C ₇₀ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19542-19548. | 1.3 | 15 |
| 7967 | Influence of molecular mass of PEG on rheological behaviour of MWCNT-based nanofluids for thermal energy storage. <i>Journal of Molecular Liquids</i> , 2020, 318, 113965. | 2.3 | 15 |
| 7968 | Detection of chirality of single-walled carbon nanotubes on hexagonal boron nitride. <i>Applied Physics Letters</i> , 2020, 117, . | 1.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 7969 | Effects of Water and Different Solutes on Carbon Nanotube Low Voltage Field Effect Transistors. <i>Small</i> , 2020, 16, e2002875. | 5.2 | 4 |
| 7970 | Highly electrically conductive carbon nanostructured mats fabricated out of aligned CNTs-based flakes. <i>Diamond and Related Materials</i> , 2020, 106, 107849. | 1.8 | 3 |
| 7971 | Hybrid Electromagnetic Nanomaterials Based on Polydiphenylamine-2-carboxylic Acid. <i>Polymers</i> , 2020, 12, 1568. | 2.0 | 4 |
| 7972 | Critical Review: digital resolution biomolecular sensing for diagnostics and life science research. <i>Lab on A Chip</i> , 2020, 20, 2816-2840. | 3.1 | 35 |
| 7973 | Femtosecond pulsed laser-induced interconnection of single-walled carbon nanotubes. <i>Ferroelectrics</i> , 2020, 563, 21-30. | 0.3 | 3 |
| 7974 | The Indirect Tribological Role of Carbon Nanotubes Stimulating Zinc Dithiophosphate Anti-Wear Film Formation. <i>Nanomaterials</i> , 2020, 10, 1330. | 1.9 | 8 |
| 7975 | Electronic transport through CNT-fluorographene-Au junction: First-principles study. <i>Europhysics Letters</i> , 2020, 131, 17001. | 0.7 | 7 |
| 7976 | Improved hydrogen adsorption of ZnO doped multi-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 34949-34955. | 3.8 | 27 |
| 7977 | Role of constituents for the chirality isolation of single-walled carbon nanotubes by the reversible phase transition of a thermoresponsive polymer. <i>RSC Advances</i> , 2020, 10, 24570-24576. | 1.7 | 3 |
| 7978 | Effect of addition of hydroxyapatite as secondary filler in CNT-reinforced polypropylene hybrid composites. <i>Polymers and Polymer Composites</i> , 2021, 29, 888-896. | 1.0 | 3 |
| 7979 | An In Vitro Lung System to Assess the Proinflammatory Hazard of Carbon Nanotube Aerosols. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5335. | 1.8 | 34 |
| 7980 | Strong reinforcement effects of nanodiamond on mechanical and thermal properties of polyamide 66. <i>Composites Science and Technology</i> , 2020, 199, 108356. | 3.8 | 24 |
| 7981 | Synthesis of multiwall carbon nanotubes in presence of magnetic field using underwater arc discharge system. <i>Materials Today: Proceedings</i> , 2020, 30, 225-228. | 0.9 | 1 |
| 7982 | A novel low cost nonenzymatic hydrogen peroxide sensor based on CoFe ₂ O ₄ /CNTs nanocomposite modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2020, 876, 114504. | 1.9 | 17 |
| 7983 | Gas sensors based on mass-sensitive transducers. Part 2: Improving the sensors towards practical application. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6707-6776. | 1.9 | 5 |
| 7984 | Ultrahigh-Sensitivity Molecular Sensing with Carbon Nanotube Terahertz Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40629-40634. | 4.0 | 55 |
| 7985 | A High Energy Density 2D Microsupercapacitor Based on an Interconnected Network of a Horizontally Aligned Carbon Nanotube Sheet. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50011-50023. | 4.0 | 9 |
| 7986 | Enhanced light transmission of carbon nanotube film by ultrathin oxide coatings. <i>AIP Advances</i> , 2020, 10, 075304. | 0.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 7987 | Sonochemically synthesized Na ₂ Ti ₆ O ₁₃ nanorod: an efficient electrode material for Na-ion battery. Bulletin of Materials Science, 2020, 43, 1. | 0.8 | 1 |
| 7988 | A Nanofibrillated Cellulose-Based Electrothermal Aerogel Constructed with Carbon Nanotubes and Graphene. Molecules, 2020, 25, 3836. | 1.7 | 4 |
| 7989 | Efficiency Improvement of a Capacitive Deionization (CDI) System by Modifying 3D SWCNT/RVC Electrodes Using Microwave-Irradiated Graphene Oxide (mwGO) for Effective Desalination. Journal of Nanomaterials, 2020, 2020, 1-14. | 1.5 | 7 |
| 7990 | Use of Field Assisted Sintering for Innovation in Nuclear Ceramics Manufacturing. , 2020, , 811-839. | | 6 |
| 7991 | Shape morphing smart 3D actuator materials for micro soft robot. Materials Today, 2020, 41, 243-269. | 8.3 | 130 |
| 7992 | Super-durable ultralong carbon nanotubes. Science, 2020, 369, 1104-1106. | 6.0 | 92 |
| 7993 | Evaluation of the Antifungal Activity of Gold-Chitosan and Carbon Nanoparticles on Fusarium oxysporum. Agronomy, 2020, 10, 1143. | 1.3 | 29 |
| 7994 | ReaxFF Reactive Force Field Study of Polymerization of a Polymer Matrix in a Carbon Nanotube-Composite System. Journal of Physical Chemistry C, 2020, 124, 20488-20497. | 1.5 | 31 |
| 7995 | The C ₂ N surface as a highly selective sensor for the detection of nitrogen iodide from a mixture of NX ₃ (X = Cl, Br, I) explosives. RSC Advances, 2020, 10, 31997-32010. | 1.7 | 35 |
| 7996 | Dynamics and Mechanism of Carbon Filament Formation during Methane Reforming on Supported Nickel Clusters. Journal of Physical Chemistry C, 2020, 124, 20143-20160. | 1.5 | 8 |
| 7997 | Study of torsional strain effect on dynamic behavior of carbon nanotube thermal actuator. Journal of Molecular Modeling, 2020, 26, 247. | 0.8 | 0 |
| 7998 | Nanomaterials in Dentistry: State of the Art and Future Challenges. Nanomaterials, 2020, 10, 1770. | 1.9 | 26 |
| 7999 | Defect structure evolution of polyacrylonitrile and single wall carbon nanotube nanocomposites: a molecular dynamics simulation approach. Scientific Reports, 2020, 10, 11816. | 1.6 | 7 |
| 8000 | Antimicrobial activity of functionalised carbon nanotubes against pathogenic microorganisms. IET Nanobiotechnology, 2020, 14, 457-464. | 1.9 | 17 |
| 8001 | Carbon Nanomaterials: A New Sustainable Solution to Reduce the Emerging Environmental Pollution of Turbomachinery Noise and Vibration. Frontiers in Chemistry, 2020, 8, 683. | 1.8 | 13 |
| 8002 | Recent Advances in Semiconducting Monoelemental Selenium Nanostructures for Device Applications. Advanced Functional Materials, 2020, 30, 2003301. | 7.8 | 93 |
| 8003 | Wave propagation analysis of thermoelastic functionally graded nanotube conveying nanoflow. JVC/Journal of Vibration and Control, 2022, 28, 339-350. | 1.5 | 2 |
| 8004 | Carbon Allotropes as ITO Electrode Replacement Materials in Liquid Crystal Devices. Journal of Carbon Research, 2020, 6, 80. | 1.4 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8005 | Ultra-stretchable supercapacitors based on biaxially pre-strained super-aligned carbon nanotube films. <i>Nanoscale</i> , 2020, 12, 24259-24265. | 2.8 | 9 |
| 8006 | Size-dependent mechanics of viscoelastic carbon nanotubes: Modeling, theoretical and numerical analysis. <i>Results in Physics</i> , 2020, 19, 103383. | 2.0 | 7 |
| 8007 | Highly Aligned Carbon Nanowire Array by E-Field Directed Assembly of PAN-Containing Block Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58113-58121. | 4.0 | 6 |
| 8008 | Effect of Morphology and Structure of MWCNTs on Metal Matrix Nanocomposites. <i>Materials</i> , 2020, 13, 5557. | 1.3 | 13 |
| 8009 | The role of surface chemistry of modified MWCNT on the development and characteristics of Pt supported catalysts. <i>Nano Structures Nano Objects</i> , 2020, 24, 100566. | 1.9 | 7 |
| 8010 | Studies on anomalous dispersion behavior of PANI/CNT composites for enhanced shielding effectiveness in various microwave bands. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1. | 1.1 | 13 |
| 8011 | Low-cost voltammetric sensor based on an anionic surfactant modified carbon nanocomposite material for the rapid determination of curcumin in natural food supplement. <i>Instrumentation Science and Technology</i> , 2020, 48, 561-582. | 0.9 | 37 |
| 8012 | Simulations of Benzene and Hydrogen-Sulfide Gas Detector Based on Single-Walled Carbon Nanotube over Intrinsic 4H-SiC Substrate. <i>Micromachines</i> , 2020, 11, 453. | 1.4 | 5 |
| 8013 | Nano-quantitative ion character activity relationships of adsorption of rare earth ions on multi-walled carbon nanotubes. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, , 1-11. | 1.8 | 1 |
| 8014 | Carbon microfiber converted from the poly(butylene terephthalate)/lignin blending fiber. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 823-827. | 1.0 | 2 |
| 8015 | Influence of spent gases recirculation on carbon nanomaterial yield obtained from the products of methane air conversion. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5027-5036. | 1.6 | 0 |
| 8016 | Simulation of self-heating process on the nanoscale: a multiscale approach for molecular models of nanocomposite materials. <i>Nanoscale Advances</i> , 2020, 2, 3164-3180. | 2.2 | 15 |
| 8017 | Reactive Multidentate Block Copolymer Stabilization to Carbon Nanotubes for Thermoreversible Cross-Linked Network Gels. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2319-2326. | 2.0 | 5 |
| 8018 | Recent Developments in the Flame-Retardant System of Epoxy Resin. <i>Materials</i> , 2020, 13, 2145. | 1.3 | 117 |
| 8019 | Large cyclic deformability of microcellular TPU/MWCNT composite film with conductive stability, and electromagnetic interference shielding and self-cleaning performance. <i>Composites Science and Technology</i> , 2020, 197, 108247. | 3.8 | 26 |
| 8020 | Ionic liquid assisted fabrication of cellulose based conductive films for Li-ion battery. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49430. | 1.3 | 13 |
| 8021 | Fabrication Techniques for Carbon Nanotubes Based ECG Electrodes: A Review. <i>IETE Journal of Research</i> , 0, , 1-20. | 1.8 | 7 |
| 8022 | Long-term in vivo biocompatibility of single-walled carbon nanotubes. <i>PLoS ONE</i> , 2020, 15, e0226791. | 1.1 | 52 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 8023 | Strategies to Improve Nanofibrous Scaffolds for Vascular Tissue Engineering. <i>Nanomaterials</i> , 2020, 10, 887. | 1.9 | 30 |
| 8024 | Effect of purification methods on the cross-sectional field emission properties of carbon nanotube and graphene composite films. <i>Diamond and Related Materials</i> , 2020, 106, 107848. | 1.8 | 5 |
| 8025 | A review on Fe O ₂ -based materials for advanced lithium-ion batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109884. | 8.2 | 36 |
| 8026 | Temperature-Dependent Electrical Transport Properties of Single-Walled Carbon Nanotube Thin Films Prepared by Electrohydrodynamic Atomization Technique. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000029. | 0.8 | 1 |
| 8027 | Structural and Electronic properties of PVK/C60 Nanoheterostructure interfaces- A DFT Approach. <i>Surfaces and Interfaces</i> , 2020, 20, 100556. | 1.5 | 2 |
| 8028 | Clearance of single-wall carbon nanotubes from the mouse lung: a quantitative evaluation. <i>Nanoscale Advances</i> , 2020, 2, 1551-1559. | 2.2 | 7 |
| 8029 | Enhanced Thermoelectric Performance in Black Phosphorus Nanotubes by Band Modulation through Tailoring Nanotube Chirality. <i>Small</i> , 2020, 16, e2001820. | 5.2 | 13 |
| 8030 | Two-Dimensional Black Phosphorus: An Emerging Anode Material for Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2020, 12, 120. | 14.4 | 68 |
| 8031 | Nanomaterial-based immunosensors for ultrasensitive detection of pesticides/herbicides: Current status and perspectives. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112382. | 5.3 | 81 |
| 8032 | Influence of GO-Al ₂ O ₃ hybrid material on the tribological behavior of chemically bonded ceramic coating. <i>Ceramics International</i> , 2020, 46, 23027-23034. | 2.3 | 7 |
| 8033 | Partially unzipping carbon nanotubes: A route to synchronously improve fracture strength and toughness of nanocomposites inspired by pinning effect of screw. <i>Materials Today Communications</i> , 2020, 25, 101355. | 0.9 | 3 |
| 8034 | Conductive and flexible PEDOT-decorated paper as high performance electrode fabricated by vapor phase polymerization for supercapacitor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125173. | 2.3 | 11 |
| 8035 | Molecular Insights into the Ligand-Based Six-Proton- and Six-Electron-Transfer Processes Between Tris(ortho-Phenylenediamines) and Tris(ortho-Benzoquinodiiimines). <i>Chemistry - A European Journal</i> , 2020, 26, 9609-9619. | 1.7 | 6 |
| 8036 | Carbon nanotube dielectrophoresis: Theory and applications. <i>Electrophoresis</i> , 2020, 41, 1893-1914. | 1.3 | 16 |
| 8037 | Mechanical and thermal properties of multiwalled carbon-nanotube-reinforced Al ₂ O ₃ nanocomposites. <i>Ceramics International</i> , 2020, 46, 17449-17460. | 2.3 | 22 |
| 8038 | Surface modification of multiwall carbon nanotubes by electrochemical anodic oxidation. <i>New Carbon Materials</i> , 2020, 35, 155-164. | 2.9 | 12 |
| 8039 | Equilibrium and Transport Distributions of a DNA Dodecamer in Hydrophilic Nanopores. <i>Materials Today: Proceedings</i> , 2020, 20, 249-264. | 0.9 | 0 |
| 8040 | Diminution of Weight and Heat Accumulation in Transfemoral Socket Using PE/MWCNT Composite. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-12. | 0.8 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8041 | The Influence of Carbon Nanotube's Conductivity and Diameter on Its Thermionic Electron Emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000069. | 0.8 | 1 |
| 8042 | A novel path towards synthesis of nitrogen-rich porous carbon nanofibers for high performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 399, 125788. | 6.6 | 63 |
| 8043 | Transparent heater with meshed amorphous oxide/metal/amorphous oxide for electric vehicle applications. <i>Scientific Reports</i> , 2020, 10, 9697. | 1.6 | 10 |
| 8044 | Thermo-Electro-Mechanical Size-Dependent Buckling Response for Functionally Graded Graphene Platelet Reinforced Piezoelectric Cylindrical Nanoshells. <i>International Journal of Structural Stability and Dynamics</i> , 2020, 20, 2050100. | 1.5 | 22 |
| 8045 | Ultrafast Exciton Self-Trapping and Delocalization in Cycloparaphenylenes: The Role of Excited-State Symmetry in Electron-Vibrational Coupling. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16989-16996. | 7.2 | 7 |
| 8046 | Three-Dimensional (3D) Conductive Network of CNT-Modified Short Jute Fiber-Reinforced Natural Rubber: Hierarchical CNT-Enabled Thermoelectric and Electrically Conductive Composite Interfaces. <i>Materials</i> , 2020, 13, 2668. | 1.3 | 13 |
| 8047 | Optical Phonon Scattering Dominated Transport in Individual Suspended Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000103. | 0.7 | 1 |
| 8048 | Sustainable Reuse of Char Waste for Oil Spill Recovery Foams. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1. | 1.1 | 8 |
| 8049 | Future needs and trends: influence of polymers on the environment. , 2020, , 593-634. | | 3 |
| 8050 | Comparative study of robotic artificial actuators and biological muscle. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402093340. | 0.8 | 41 |
| 8052 | Using ONIOM calculations to investigate the abilities of simple and nitrogen, boron, sulfur-doped carbon nanotubes in sensing of carbon monoxide. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26214. | 1.0 | 1 |
| 8053 | Multiscale topology optimization for non-uniform microstructures with hybrid cellular automata. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 757-770. | 1.7 | 28 |
| 8054 | Silsesquioxane-Polythiophene Hybrid Copolymer as an Efficient Modifier for Single-Walled Carbon Nanotubes. <i>International Journal of Polymer Science</i> , 2020, 2020, 1-10. | 1.2 | 0 |
| 8055 | Three-dimensional, millimeter-scale semiconducting SWCNT aerogels for highly sensitive ozone detection. <i>Journal of Hazardous Materials</i> , 2020, 394, 122516. | 6.5 | 4 |
| 8056 | Mechanical properties and applications. , 2020, , 373-414. | | 0 |
| 8057 | Carbon nanotube - A review on Synthesis, Properties and plethora of applications in the field of biomedical science. <i>Sensors International</i> , 2020, 1, 100003. | 4.9 | 294 |
| 8058 | Understanding of Competitive Hydrogen Bond Behavior of Imidazolium-Based Ionic Liquid Mixture around Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6634-6645. | 1.5 | 17 |
| 8059 | Numerical simulation and optimization of metallic network for highly efficient transparent conductive films. <i>Journal of Applied Physics</i> , 2020, 127, . | 1.1 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8060 | A Universal Method to Weld Individual One-Dimensional Nanostructures with a Tungsten Needle Based on Synergy of the Electron Beam and Electrical Current. <i>Nanomaterials</i> , 2020, 10, 469. | 1.9 | 3 |
| 8061 | Autonomous high resolution inspection of kiss-bonds skins of carbon nanotube reinforced nanocomposites using novel dynamic line-scan thermography approach. <i>Composites Science and Technology</i> , 2020, 192, 108111. | 3.8 | 15 |
| 8062 | Specific Response of the Atomic and Electronic Structure of $Ta_{2</sub>Pd_{3</sub>Se_{8</sub>}$ and $Ta_{2</sub>Pt_{3</sub>Se_{8</sub>}$ Nanoribbons to the Uniaxial Strain. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7539-7543. | 1.5 | 17 |
| 8063 | Expanding the horizons of covalent organic frameworks to electrochemical sensors; A case study of CTF-FUM. <i>Microporous and Mesoporous Materials</i> , 2020, 300, 110146. | 2.2 | 30 |
| 8064 | Polymer grafted carbon nanotubesâ€”Synthesis, properties, and applications: A review. <i>Nano Structures Nano Objects</i> , 2020, 22, 100429. | 1.9 | 125 |
| 8065 | Side-Polished Optical Fiber Structure for Sodium Nitrate Sensor. <i>IEEE Sensors Journal</i> , 2020, 20, 5929-5934. | 2.4 | 3 |
| 8066 | Metastable Group IV Allotropes and Solid Solutions: Nanoparticles and Nanowires. <i>Chemistry of Materials</i> , 2020, 32, 2703-2741. | 3.2 | 26 |
| 8067 | Atomic-scale identification of influencing factors of sodium dendrite growth on different current collectors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10199-10205. | 5.2 | 20 |
| 8068 | Radiative MHD Nanofluid Flow over a Moving Thin Needle with Entropy Generation in a Porous Medium with Dust Particles and Hall Current. <i>Entropy</i> , 2020, 22, 354. | 1.1 | 34 |
| 8069 | MHD flow past a nonlinear stretching/shrinking sheet in carbon nanotubes: Stability analysis. <i>Chinese Journal of Physics</i> , 2020, 65, 436-446. | 2.0 | 40 |
| 8070 | A review on graphene-based materials for removal of toxic pollutants from wastewater. <i>Soft Materials</i> , 2020, 18, 297-322. | 0.8 | 22 |
| 8071 | Stimuliâ€”Responsive MXeneâ€”Based Actuators. <i>Advanced Functional Materials</i> , 2020, 30, 1909504. | 7.8 | 126 |
| 8072 | A theory of contact resistance under AC conditions. <i>Journal of Applied Physics</i> , 2020, 127, . | 1.1 | 2 |
| 8073 | A Low-Voltage, Premodulation Terahertz Oscillator Based on a Carbon Nanotube Cold Cathode. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 1266-1269. | 1.6 | 8 |
| 8074 | Electronâ€”phonon scattering and excitonic effects in T-carbon. <i>RSC Advances</i> , 2020, 10, 24515-24520. | 1.7 | 3 |
| 8075 | Developed carbon nanotubes/gutta percha nanocomposite films with high stretchability and photo-thermal conversion efficiency. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8884-8895. | 2.6 | 15 |
| 8076 | Central nervous system responses to biomaterials. , 2020, , 507-554. | | 2 |
| 8077 | Phosphorous-Doped Graphitic Material as a Solid Acid Catalyst for Microwave-Assisted Synthesis of Î²-Ketoenamines and Baeyerâ€”Villiger Oxidation. <i>ACS Omega</i> , 2020, 5, 15962-15972. | 1.6 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8078 | Nanomedicine and Onco-Immunotherapy: From the Bench to Bedside to Biomarkers. <i>Nanomaterials</i> , 2020, 10, 1274. | 1.9 | 26 |
| 8079 | Polymethyl Methacrylate-Based Bone Cements Containing Carbon Nanotubes and Graphene Oxide: An Overview of Physical, Mechanical, and Biological Properties. <i>Polymers</i> , 2020, 12, 1469. | 2.0 | 52 |
| 8080 | Track-Etched Nanopore/Membrane: From Fundamental to Applications. <i>Small Methods</i> , 2020, 4, 2000366. | 4.6 | 123 |
| 8081 | Theoretical modeling and experimental verification of percolation threshold with MWCNTs™ rotation and translation around a growing bubble in conductive polymer composite foams. <i>Composites Science and Technology</i> , 2020, 199, 108345. | 3.8 | 38 |
| 8082 | Silicon Nitride-Based Composites with the Addition of CNTs™ A Review of Recent Progress, Challenges, and Future Prospects. <i>Materials</i> , 2020, 13, 2799. | 1.3 | 6 |
| 8083 | Reaction between Energy Particle Ion Beam with Carbon Nanotube. , 2020, , . | | 0 |
| 8084 | Holey nitrogen-doped multiwalled carbon nanotubes from extended air oxidation at low-temperature. <i>Applied Surface Science</i> , 2020, 524, 146546. | 3.1 | 6 |
| 8085 | Nanoporous Versus Nanoparticulate Carbon-Based Materials for Capacitive Charge Storage. <i>Energy and Environmental Materials</i> , 2020, 3, 247-264. | 7.3 | 36 |
| 8086 | Synthesis of Three-Dimensional Nanocarbon Hybrids by Chemical Vapor Deposition. , 0, , . | | 0 |
| 8087 | Tensile performance and failure modes of continuous carbon nanotube yarns for composite applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139824. | 2.6 | 4 |
| 8089 | Electronic Properties of Transition Metal-Benzene Sandwich Clusters. , 2020, , 313-349. | | 1 |
| 8090 | Synergistic effect of Gr and CNTs on preparing ultrathin Cu-(CNTs+Gr) composite foil via electrodeposition. <i>Composites Part B: Engineering</i> , 2020, 187, 107841. | 5.9 | 31 |
| 8091 | Chemical vapor deposition of 3D graphene/carbon nanotubes networks for hybrid supercapacitors. <i>Sensors and Actuators A: Physical</i> , 2020, 304, 111886. | 2.0 | 29 |
| 8092 | Exponential and harmonic forced torsional vibration of single-walled carbon nanotube in an elastic medium. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 1928-1942. | 1.1 | 12 |
| 8093 | Core-shell structured graphene aerogels with multifunctional mechanical, thermal and electromechanical properties. <i>Carbon</i> , 2020, 162, 365-374. | 5.4 | 23 |
| 8094 | Enhancement of mechanical properties of glass fiber reinforced vinyl ester composites by embedding multi-walled carbon nanotubes through solution processing technique. <i>Materials Today: Proceedings</i> , 2020, 27, 1045-1050. | 0.9 | 10 |
| 8095 | Recovery of electro-mechanical properties inside self-healing composites through microencapsulation of carbon nanotubes. <i>Scientific Reports</i> , 2020, 10, 2973. | 1.6 | 22 |
| 8096 | Anisotropic protein diffusion on nanosurface. <i>Nanoscale</i> , 2020, 12, 5209-5216. | 2.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8097 | Photoelectrical properties of solar sensitive CuO doped carbon photodiodes. Journal of Molecular Structure, 2020, 1208, 127872. | 1.8 | 18 |
| 8098 | Revisiting the Oxidation of Graphite: Reaction Mechanism, Chemical Stability, and Structure Self-Regulation. ACS Omega, 2020, 5, 3397-3404. | 1.6 | 42 |
| 8099 | Quantitative Flow Cytometric Evaluation of Oxidative Stress and Mitochondrial Impairment in RAW 264.7 Macrophages after Exposure to Pristine, Acid Functionalized, or Annealed Carbon Nanotubes. Nanomaterials, 2020, 10, 319. | 1.9 | 8 |
| 8100 | Acid-functionalized single-walled carbon nanotubes alter epithelial tight junctions and enhance paracellular permeability. Journal of Biosciences, 2020, 45, 1. | 0.5 | 13 |
| 8101 | 1D@0D hybrid dimensional heterojunction-based photonics logical gate and isolator. Applied Materials Today, 2020, 19, 100589. | 2.3 | 19 |
| 8102 | Liquid-Crystal Phase Optimization Using the Alignment Relay Technique for the Deposition of Single-Walled Carbon Nanotubes. ACS Applied Nano Materials, 2020, 3, 2118-2122. | 2.4 | 8 |
| 8103 | Effect of functionalized carbon nanotubes on the mechanical properties of epoxy-based composites. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 582-588. | 1.0 | 8 |
| 8104 | A comprehensive review on emerging artificial neuromorphic devices. Applied Physics Reviews, 2020, 7, . | 5.5 | 417 |
| 8105 | Cardanol-derived cationic surfactants enabling the superior antibacterial activity of single-walled carbon nanotubes. Nanotechnology, 2020, 31, 265603. | 1.3 | 6 |
| 8107 | Weak Intermolecular Interactions for Strengthening Organic Batteries. Energy and Environmental Materials, 2020, 3, 441-452. | 7.3 | 77 |
| 8108 | Binding Capacity and Selectivity of Functionalized and Un-functionalized Carbon Nanotubes for Development of Copper-Detecting Printable Sensor. Bulletin of Environmental Contamination and Toxicology, 2020, 104, 455-463. | 1.3 | 1 |
| 8109 | Aquatic nanotoxicology: impact of carbon nanomaterials on algal flora. Energy, Ecology and Environment, 2020, 5, 240-252. | 1.9 | 22 |
| 8110 | Thermoplastic polymer composites for EMI shielding applications. , 2020, , 73-99. | | 10 |
| 8111 | Sensors for structural health monitoring. , 2020, , 227-248. | | 2 |
| 8112 | Physical, mechanical and biological performance of PHB-Chitosan/MWCNTs nanocomposite coating deposited on bioglass based scaffold: Potential application in bone tissue engineering. International Journal of Biological Macromolecules, 2020, 152, 645-662. | 3.6 | 56 |
| 8113 | Identification of sulfur gases by an B40 fullerene: A computational study. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 120, 114038. | 1.3 | 6 |
| 8114 | Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. ACS Nano, 2020, 14, 3969-3979. | 7.3 | 30 |
| 8115 | Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. ACS Catalysis, 2020, 10, 3516-3525. | 5.5 | 178 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8117 | Cellulose nanofiber/elastomer composites with high tensile strength, modulus, toughness, and thermal stability prepared by high-shear kneading. <i>Composites Science and Technology</i> , 2020, 188, 108005. | 3.8 | 50 |
| 8118 | Self-Assembly Prepared Millimeter Length Ferromagnetic Carbon Nanotubes with Spin Nontrivial Electronic Transport Properties. <i>ACS Applied Electronic Materials</i> , 2020, 2, 491-498. | 2.0 | 5 |
| 8119 | Nanomaterials for Angiogenesis in Skin Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 203-216. | 2.5 | 53 |
| 8120 | Materials, systems, and devices for wearable bioelectronics. , 2020, , 1-48. | | 0 |
| 8121 | Bone Tissue Engineering via Carbon-Based Nanomaterials. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901495. | 3.9 | 111 |
| 8122 | Vapor Phase Polymerized PEDOT/Cellulose Paper Composite for Flexible Solid-State Supercapacitor. <i>ACS Applied Energy Materials</i> , 2020, 3, 1559-1568. | 2.5 | 64 |
| 8123 | On the electrical conductivity of composites with a polymeric matrix and a non-uniform concentration of carbon nanotubes. <i>Composites Science and Technology</i> , 2020, 188, 108003. | 3.8 | 20 |
| 8124 | Quantifying the electrical behavior of carbon nanotube sheet enhanced with acid functionalization and polymer intercalation. <i>Results in Materials</i> , 2020, 5, 100059. | 0.9 | 3 |
| 8125 | Carbon nanomaterials (CNTs) phytotoxicity: Quo vadis?. , 2020, , 557-581. | | 3 |
| 8126 | Use of functionalized carbon nanotubes for the development of robust nanobiocatalysts. <i>Methods in Enzymology</i> , 2020, 630, 263-301. | 0.4 | 17 |
| 8127 | Modulational instability of gap solitons in single-walled carbon nanotube lattices. <i>Wave Motion</i> , 2020, 94, 102511. | 1.0 | 3 |
| 8128 | Oxygen Reduction Reaction Electrocatalysts for Microbial Fuel Cells. <i>ACS Symposium Series</i> , 2020, , 73-96. | 0.5 | 1 |
| 8129 | Torsional dynamic response of viscoelastic SWCNT subjected to linear and harmonic torques with general boundary conditions via Eringen's nonlocal differential model. <i>European Physical Journal Plus</i> , 2020, 135, 1. | 1.2 | 17 |
| 8130 | Polyol Process Coupled to Cold Plasma as a New and Efficient Nanohydride Processing Method: Nano-Ni ₂ H as a Case Study. <i>Nanomaterials</i> , 2020, 10, 136. | 1.9 | 4 |
| 8131 | An Autonomous Soft Actuator with Light-Driven Self-Sustained Wavelike Oscillation for Phototactic Self-Locomotion and Power Generation. <i>Advanced Functional Materials</i> , 2020, 30, 1908842. | 7.8 | 100 |
| 8132 | Yarns of carbon nanotubes and reduced graphene oxides. <i>Carbon</i> , 2020, 165, 358-377. | 5.4 | 10 |
| 8133 | Methane Adsorption Properties of Mn-Modified Graphene: A First-Principles Study. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000035. | 1.3 | 12 |
| 8134 | Theoretical study of the reduction in sensitivity of copper azide following encapsulation in carbon nanotubes. <i>Journal of Molecular Modeling</i> , 2020, 26, 90. | 0.8 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 8135 | Thermoelectric thiophene dendrimers with large Seebeck coefficients. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 809-814. | 1.7 | 6 |
| 8136 | Topological-based comparison and computer-based analysis of TUC ₄ [m/i], [n/i], TUZC ₆ [m/i], [n/i], and TUAC ₆ [m/i], [n/i] nanotubes. <i>Mathematical Methods in the Applied Sciences</i> , 0, , . | 1.2 | 0 |
| 8137 | Effect of carbon nanotube alignment on nanocomposite sensing performance. <i>Materials Research Express</i> , 2020, 7, 046406. | 0.8 | 5 |
| 8138 | Electrochemiluminescence revealing that HNO ₃ -oxidized single-walled carbon nanotubes are essentially tubular graphene quantum dot-nanoassemblies. <i>Applied Surface Science</i> , 2020, 525, 146432. | 3.1 | 10 |
| 8139 | Electrical conductivity of spark plasma sintered Al ₂ O ₃ -SiC and Al ₂ O ₃ -carbon nanotube nanocomposites. <i>Ceramics International</i> , 2020, 46, 16008-16019. | 2.3 | 25 |
| 8140 | Development of the PANI/MWCNT Nanocomposite-Based Fluorescent Sensor for Selective Detection of Aqueous Ammonia. <i>ACS Omega</i> , 2020, 5, 8414-8422. | 1.6 | 30 |
| 8141 | Influence of uniaxial orientation of fluorinated polymer/phosphonate-modified needle-like nanofiller composite by drawing. <i>Polymer Composites</i> , 2020, 41, 3062-3073. | 2.3 | 7 |
| 8142 | Glowing photoluminescence in carbon-based nanodots: current state and future perspectives. <i>Journal of Materials Science</i> , 2020, 55, 8769-8792. | 1.7 | 22 |
| 8143 | Carbon nanotubes drug delivery system for cancer treatment. , 2020, , 313-332. | | 11 |
| 8144 | Mechanism of K-catalyzed transformation of solid carbon structure into carbon nanotubes in coal. <i>Fuel Processing Technology</i> , 2020, 204, 106409. | 3.7 | 8 |
| 8145 | Development of potassium permanganate (KMnO ₄) doped Poly methyl methacrylate (PMMA) composite using layered structure for electromagnetic shielding purpose. <i>Materials Today: Proceedings</i> , 2020, 30, 11-16. | 0.9 | 10 |
| 8146 | Reversible changes in the electronic structure of carbon nanotube-hybrids upon NO ₂ exposure under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9753-9759. | 5.2 | 4 |
| 8147 | Design and characterization of an enclosed coaxial carbon nanotube speaker. <i>Journal of the Acoustical Society of America</i> , 2020, 147, EL333-EL338. | 0.5 | 1 |
| 8148 | Carbon Nanomaterials Based Saturable Absorbers for Ultrafast Passive Mode-Locking of Fiber Lasers. <i>Current Nanoscience</i> , 2020, 16, 441-457. | 0.7 | 17 |
| 8149 | Triple-Negative Breast Cancer: A Review of Conventional and Advanced Therapeutic Strategies. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2078. | 1.2 | 163 |
| 8150 | Applications of Nanotechnology in Sensor-Based Detection of Foodborne Pathogens. <i>Sensors</i> , 2020, 20, 1966. | 2.1 | 78 |
| 8151 | Nanoporous carbon for electrochemical capacitive energy storage. <i>Chemical Society Reviews</i> , 2020, 49, 3005-3039. | 18.7 | 391 |
| 8152 | Fabrication of organo-modified carbon nanotube with excellent heat resistance and preparation of its polymer-based nanocomposite by simple melt compounding. <i>Polymer Bulletin</i> , 2021, 78, 1585-1607. | 1.7 | 12 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8153 | Development of a gaseous and solid-state hybrid system for stationary hydrogen energy storage. <i>Green Energy and Environment</i> , 2021, 6, 528-537. | 4.7 | 35 |
| 8154 | Multiwall carbon nanotube-nematic liquid crystal composite system: preparation and characterization. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 707-714. | 1.3 | 11 |
| 8155 | Chemistry and Specialty Industrial Applications of Lignocellulosic Biomass. <i>Waste and Biomass Valorization</i> , 2021, 12, 2145-2169. | 1.8 | 166 |
| 8156 | Aluminum hydride for solid-state hydrogen storage: Structure, synthesis, thermodynamics, kinetics, and regeneration. <i>Journal of Energy Chemistry</i> , 2021, 52, 428-440. | 7.1 | 57 |
| 8157 | Two-Step Divergent Synthesis of Monodisperse and Ultra-Long Bottlebrush Polymers from an Easily Purifiable ROMP Monomer. <i>Angewandte Chemie</i> , 2021, 133, 1552-1558. | 1.6 | 1 |
| 8158 | Enhancement of field emission performance of graphene nanowalls: the role of compound-cathode architecture and anode proximity effect. <i>Carbon Trends</i> , 2021, 2, 100008. | 1.4 | 7 |
| 8159 | Carbon nanotube composite reinforcements. , 2021, , 35-54. | | 0 |
| 8160 | High dielectric constant epoxy nanocomposites containing ZnO quantum dots decorated carbon nanotube. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49778. | 1.3 | 6 |
| 8161 | Influence of carbon nanotubes on heat transfer in MHD nanofluid flow over a stretchable rotating disk: A numerical study. <i>Heat Transfer</i> , 2021, 50, 619-637. | 1.7 | 21 |
| 8162 | Nonlocal Timoshenko representation and analysis of multi-layered functionally graded nanobeams. <i>Microsystem Technologies</i> , 2021, 27, 893-911. | 1.2 | 13 |
| 8163 | Study of induced structural, optical and electrochemical properties of Poly(3-hexylthiophene) (P3HT), [6,6]-phenyl-C61-butyric-acid-methyl-ester (PCBM) and their blend as an effect of graphene doping. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109644. | 1.9 | 10 |
| 8164 | Mechanical and thermal properties and crystallization behavior of PA66 composites reinforced with MWCNTs-coated milled glass fiber. <i>High Performance Polymers</i> , 2021, 33, 89-104. | 0.8 | 10 |
| 8165 | Low power, high-performance reversible logic enabled CNTFET SRAM cell with improved stability. <i>Materials Today: Proceedings</i> , 2021, 42, 1617-1623. | 0.9 | 8 |
| 8166 | Eco-friendly synthesis and characterisations of single-wall carbon nanotubes/Ag nanoparticle heterostructures. <i>Materials Research Innovations</i> , 2021, 25, 76-82. | 1.0 | 3 |
| 8167 | Theoretically investigating the physical properties of fcc-C32 and mediating its electronic band structure. <i>Materials Chemistry and Physics</i> , 2021, 258, 123853. | 2.0 | 3 |
| 8168 | Uncertainty quantification of percolating electrical conductance for wavy carbon nanotube-filled polymer nanocomposites using Bayesian inference. <i>Carbon</i> , 2021, 172, 308-323. | 5.4 | 16 |
| 8169 | Synergistic optimization of thermoelectric performance in cementitious composites by lithium carbonate and carbon nanotubes. <i>International Journal of Energy Research</i> , 2021, 45, 2460-2473. | 2.2 | 9 |
| 8170 | Multifunctional and stimuli-responsive nanocarriers for targeted therapeutic delivery. <i>Expert Opinion on Drug Delivery</i> , 2021, 18, 205-227. | 2.4 | 72 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8171 | Dynamic stiffness of nonlocal damped nano-beams on elastic foundation. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104144. | 2.1 | 23 |
| 8172 | A review: novel nanohybrids of epoxy/polyamide with carbon nanotube/nano-diamond. <i>Polymer-Plastics Technology and Materials</i> , 2021, 60, 579-600. | 0.6 | 5 |
| 8173 | Two-Step Divergent Synthesis of Monodisperse and Ultra-Long Bottlebrush Polymers from an Easily Purifiable ROMP Monomer. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1528-1534. | 7.2 | 17 |
| 8174 | A simple in-situ flame synthesis of nanocomposite (MWCNTs-Fe ₂ O ₃) for electrochemical sensing of proguanil in pharmaceutical formulation. <i>Diamond and Related Materials</i> , 2021, 111, 108178. | 1.8 | 15 |
| 8175 | Deep-injection floating-catalyst chemical vapor deposition to continuously synthesize carbon nanotubes with high aspect ratio and high crystallinity. <i>Carbon</i> , 2021, 173, 901-909. | 5.4 | 52 |
| 8176 | A review on the recent advances in the production of carbon nanotubes and carbon nanofibers via microwave-assisted pyrolysis of biomass. <i>Fuel Processing Technology</i> , 2021, 214, 106686. | 3.7 | 71 |
| 8177 | Cobalt oxide supported multi wall carbon nanotube catalysts for hydrogen production via sodium borohydride hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6404-6418. | 3.8 | 39 |
| 8178 | Emerging carbon nanostructures in electrochemical processes. , 2021, , 353-388. | | 3 |
| 8179 | Preparation of in-situ grown carbon nanotubes via dithiocarbamate in composites with excellent microstructure and mechanical performance. <i>Composites Science and Technology</i> , 2021, 203, 108569. | 3.8 | 2 |
| 8180 | Investigation of the Pristine and Functionalized Carbon Nanotubes as a Delivery System for the Anticancer Drug Dacarbazine: Drug Encapsulation. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 2005-2016. | 1.6 | 25 |
| 8181 | Electrically conductive cotton fabric coatings developed by silica sol-gel precursors doped with surfactant-aided dispersion of vertically aligned carbon nanotubes fillers in organic solvent-free aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 120-134. | 5.0 | 24 |
| 8182 | Nanoinfiltration behavior of carbon nanotube based nanocomposites with enhanced mechanical and electrical properties. <i>Journal of Materials Science and Technology</i> , 2021, 71, 23-30. | 5.6 | 15 |
| 8183 | Emerging Mono-Elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2007584. | 7.8 | 102 |
| 8184 | The co-effect of ampicillin and multi-walled carbon nanotubes on activated sludge in sequencing batch reactors: microbial status, microbial community structure and ARGs propagation. <i>Environmental Science: Nano</i> , 2021, 8, 204-216. | 2.2 | 6 |
| 8185 | Flexible Transparent Supercapacitors: Materials and Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2009136. | 7.8 | 141 |
| 8186 | Review and perspective of materials for flexible solar cells. <i>Materials Reports Energy</i> , 2021, 1, 100001. | 1.7 | 54 |
| 8187 | Design of hollow carbon-based materials derived from metal-organic frameworks for electrocatalysis and electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3880-3917. | 5.2 | 117 |
| 8188 | Prospective applications of nanometer-scale pore size biomimetic and bioinspired membranes. <i>Journal of Membrane Science</i> , 2021, 620, 118968. | 4.1 | 40 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 8189 | Ultra-sensitive stripping SWV for determination of ertapenem via ZnONPs/MWCNT/CP sensor: Greenness assessment. <i>Microchemical Journal</i> , 2021, 162, 105752. | 2.3 | 8 |
| 8190 | Inorganic-polymer composite coatings for biomedical devices. <i>Smart Materials in Medicine</i> , 2021, 2, 1-14. | 3.7 | 32 |
| 8191 | Performance improvement of cement paste loaded with MWCNTâ€“magnetite nanocomposite. <i>Advances in Cement Research</i> , 2021, 33, 357-366. | 0.7 | 2 |
| 8192 | Synthesis of multiwalled carbon nanotubes from polyethylene waste to enhance the rheological behavior of lubricating grease. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 46-57. | 1.0 | 9 |
| 8193 | Cellulose/carbon Composites and their Applications in Water Treatment â€“ a Review. <i>Chemical Engineering Journal</i> , 2021, 405, 126980. | 6.6 | 108 |
| 8194 | The effect of 3-(triethoxy silyl) propyl amine concentration on surface modification of multiwall carbon nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 74-82. | 1.0 | 11 |
| 8195 | Adsorptive Removal of Nerve Agent Gases by Carbon Nanotubes: A Density Functional Theory Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021, 235, 345-357. | 1.4 | 1 |
| 8196 | Effect of porosity on buckling and vibrational characteristics of the imperfect GPLRC composite nanoshell. <i>Mechanics Based Design of Structures and Machines</i> , 2021, 49, 811-840. | 3.4 | 65 |
| 8197 | A review featuring the fundamentals and advancements of polymer/CNT nanocomposite application in aerospace industry. <i>Polymer Bulletin</i> , 2021, 78, 539-557. | 1.7 | 52 |
| 8198 | Impact of nanotechnology on sustainable textile material and its application. , 2021, , 165-172. | | 3 |
| 8199 | Graphene and Carbon Nanotube-Based Hybrid Nanocomposites: Preparation to Applications. <i>Composites Science and Technology</i> , 2021, , 71-112. | 0.4 | 1 |
| 8200 | 3D printing of nanomaterials using inkjet printing. , 2021, , 155-192. | | 2 |
| 8201 | Recent progress of CNTs reinforcement with metal matrix composites using friction stir processing. <i>Materials Today: Proceedings</i> , 2021, 44, 1731-1738. | 0.9 | 10 |
| 8202 | Scanning Tunneling Microscopy (STM) Imaging of Carbon Nanotropes: C60, CNT and Graphene. <i>Advances in Sustainability Science and Technology</i> , 2021, , 47-75. | 0.4 | 1 |
| 8203 | Natural Materialsâ€™ Interesting Candidates for Carbon Nanomaterials. <i>Physchem</i> , 2021, 1, 4-25. | 0.5 | 2 |
| 8204 | Manufacturing Techniques for Carbon Nanotubes, Gold Nanoparticles, and Silver Nanoparticles. , 2021, , 397-420. | | 1 |
| 8205 | Artificial channels for confined mass transport at the sub-nanometre scale. <i>Nature Reviews Materials</i> , 2021, 6, 294-312. | 23.3 | 263 |
| 8207 | Advances in Carbon-Based Nanocomposites for Deep Adsorptive Desulfurization. , 2021, , 1809-1831. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8208 | Photoswitchable Molecular Glue for Carbon Nanotubes Reversibly Controls Electronic Mobility with Light. ACS Applied Electronic Materials, 2021, 3, 309-315. | 2.0 | 8 |
| 8209 | Functionalized Carbon Nanotubes-Based Electrospun Nano-Fiber Composite and Its Applications for Environmental Remediation. Springer Series on Polymer and Composite Materials, 2021, , 353-376. | 0.5 | 0 |
| 8210 | Optical visualization and imaging of nanomaterials. Nanoscale Advances, 2021, 3, 889-903. | 2.2 | 5 |
| 8211 | Effect of matrix viscoelasticity on piezoresistivity of carbon nanotube polymer composites. , 2021, , . | | 0 |
| 8212 | Novel nanoparticle-based treatment approaches. , 2021, , 281-343. | | 0 |
| 8214 | Recent Advancement in Nanostructured-Based Electrochemical Genosensors for Pathogen Detection. , 2021, , 339-358. | | 1 |
| 8215 | Functional nanocomposites and their potential applications: A review. Journal of Polymer Research, 2021, 28, 1. | 1.2 | 77 |
| 8216 | Self-assembling Properties. , 2021, , 307-333. | | 1 |
| 8217 | Carbon nano-onions: Synthesis, characterization, and application. , 2021, , 159-207. | | 6 |
| 8218 | Giant Switching Effect and Spintronic Transport Properties in Cyclo[18]carbon-Based Molecular Devices. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000582. | 1.2 | 12 |
| 8219 | Diagnostic and Therapeutic Nanomedicine. Advances in Experimental Medicine and Biology, 2021, 1310, 401-447. | 0.8 | 7 |
| 8220 | Advancement in Carbon Nanotubes: Processing Techniques, Purification and Industrial Applications. , 2021, , 309-337. | | 0 |
| 8221 | Aerospace and vehicle industry. , 2021, , 399-417. | | 3 |
| 8222 | Palladium nanoparticles on amino-modified silica-catalyzed C-C bond formation with carbonyl insertion. Journal of the Iranian Chemical Society, 2021, 18, 1891-1903. | 1.2 | 1 |
| 8223 | Glycerol in energy transportation: a state-of-the-art review. Green Chemistry, 2021, 23, 7865-7889. | 4.6 | 29 |
| 8224 | Studies on mechanical and thermal performance of carbon nanotubes/polypropylene nanocomposites. Materials Today: Proceedings, 2021, 46, 7182-7186. | 0.9 | 13 |
| 8225 | Bioremediation: Going the "Nano"Way. Microorganisms for Sustainability, 2021, , 243-257. | 0.4 | 0 |
| 8226 | Advances in electromagnetic shielding properties of composite foams. Journal of Materials Chemistry A, 2021, 9, 8896-8949. | 5.2 | 184 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8228 | Preparation methods of hydrogen storage materials and nanomaterials. , 2021, , 1-16. | | 0 |
| 8229 | Carbonaceous nanocomposites for supercapattery. , 2021, , 93-110. | | 1 |
| 8230 | Structural Analysis and Thermal Properties of Graphene and Biocomposite Potential Application in Various Sensors. , 2021, , 407-427. | | 2 |
| 8231 | The Effect of Multiwalled Carbon Nanotubes on the Thermal Conductivity and Cellular Size of Polyurethane Foam. Advances in Polymer Technology, 2021, 2021, 1-8. | 0.8 | 8 |
| 8232 | Materials selection for ballistics. , 2021, , 55-76. | | 0 |
| 8233 | Functionalized nanomaterials (FNMS) in terrestrial environments: a critical review from bioavailability perspective. , 2021, , 199-218. | | 0 |
| 8234 | Effects of Carbon Nanotube Filler on Mechanical and Electrical Properties of Fused Filament Fabricated Polyetherketoneketone. , 2021, , . | | 2 |
| 8235 | Recycling the Plastic Wastes to Carbon Nanotubes. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 701-727. | 1.4 | 36 |
| 8236 | Carbon Nanomaterials for Biomedical Application. Advances in Experimental Medicine and Biology, 2021, 1309, 257-276. | 0.8 | 4 |
| 8237 | CNTFET Based 4-Trit Hybrid Ternary Adder-Subtractor for low Power & High-Speed Applications. Silicon, 2022, 14, 689-702. | 1.8 | 8 |
| 8238 | Investigation of the main strengthening mechanism of carbon nanotube reinforced aluminum composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140780. | 2.6 | 21 |
| 8239 | Bandgap-Coupled Template Autocatalysis toward the Growth of High-Purity sp ² Nanocarbons. Advanced Science, 2021, 8, 2003078. | 5.6 | 8 |
| 8240 | Foldable Perovskite Solar Cells Using Carbon Nanotube-Embedded Ultrathin Polyimide Conductor. Advanced Science, 2021, 8, 2004092. | 5.6 | 60 |
| 8241 | Storage and separation of methane and carbon dioxide using platinum- decorated activated carbons treated with ammonia. Materials Research Express, 2021, 8, 025503. | 0.8 | 7 |
| 8242 | Iron Oxide Nanoparticles: Multiwall Carbon Nanotube Composite Materials for Batch or Chromatographic Biomolecule Separation. Nanoscale Research Letters, 2021, 16, 30. | 3.1 | 3 |
| 8243 | A scalable synthesis of carbon nanotube ink for Pad-dry-deposition method for solar cell application. Journal of Materials Science: Materials in Electronics, 2021, 32, 6123-6132. | 1.1 | 1 |
| 8244 | Modulating the Biomechanical Properties of Engineered Connective Tissues by Chitosan-Coated Multiwall Carbon Nanotubes. International Journal of Nanomedicine, 2021, Volume 16, 989-1000. | 3.3 | 4 |
| 8246 | CNTFET Based Ternary 1-Trit & 2-Trit Comparators for Low Power High-Performance Applications. Transactions on Electrical and Electronic Materials, 0, , 1. | 1.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8247 | All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of $\text{Ti}_3\text{C}_2\text{MXene}$ Contacts. <i>ACS Nano</i> , 2021, 15, 5221-5229. | 7.3 | 30 |
| 8248 | Interplay between Electrostatic Properties of Molecular Adducts and Their Positions at Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4785-4793. | 1.5 | 10 |
| 8249 | External light control of three-dimensional ultrashort far-infrared pulses in an inhomogeneous array of carbon nanotubes. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 5 |
| 8250 | A Review on Polymer Nanocomposites and Their Effective Applications in Membranes and Adsorbents for Water Treatment and Gas Separation. <i>Membranes</i> , 2021, 11, 139. | 1.4 | 89 |
| 8252 | Regulating heat conduction of complex networks by distributed nodes masses. <i>Scientific Reports</i> , 2021, 11, 5501. | 1.6 | 3 |
| 8253 | Parametric study of laser-induced graphene conductive traces and their application as flexible heaters. <i>International Journal of Energy Research</i> , 2021, 45, 13712-13725. | 2.2 | 12 |
| 8254 | Vapor Phase Modification for Selective Enrichment of Grafted Styrene/Acrylonitrile onto Carbon Nanotubes Via ATRP. <i>Processes</i> , 2021, 9, 459. | 1.3 | 4 |
| 8255 | A Hierarchically Porous ZIF@LDH Core-Shell Structure for High-Performance Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2021, 16, 845-849. | 1.7 | 17 |
| 8256 | The Effect of Ion Irradiation Fluence on the Structure of Multiwall Carbon Nanotubes with Different Diameters. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo) Tj ETQq0 0 0 rgBT /Overtlock 100f 50 417</i> | | |
| 8257 | Preparation of halloysite nanotubes-encapsulated magnetic microspheres for elemental mercury removal from coal-fired flue gas. <i>Journal of Hazardous Materials</i> , 2021, 406, 124683. | 6.5 | 28 |
| 8258 | Combinations of V_2C and Ti_3C_2 MXenes for Boosting the Hydrogen Storage Performances of MgH_2 . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13235-13247. | 4.0 | 111 |
| 8259 | Synthesis of Pt-MWCNT Nano Composite in Trioctylmethyl Ammonium Hydrogen Phthalate (TOMAHP) Ionic Liquid Using Ultrasonic Cavitation. <i>Current Mechanics and Advanced Materials</i> , 2021, 1, 50-57. | 0.1 | 0 |
| 8260 | The rate-dependent mechanical behavior of CNT-reinforced aluminum matrix composites under tensile loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 808, 140893. | 2.6 | 27 |
| 8261 | Combined effects of carbon nanotubes and cadmium on the photosynthetic capacity and antioxidant response of wheat seedlings. <i>Environmental Science and Pollution Research</i> , 2021, 28, 34344-34354. | 2.7 | 3 |
| 8262 | Gelatin-Based Nanocomposites: A Review. <i>Polymer Reviews</i> , 2021, 61, 765-813. | 5.3 | 24 |
| 8263 | Buckling of boron nanotubes under axial compression: Insights from molecular mechanics and continuum mechanics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 127, 114520. | 1.3 | 3 |
| 8264 | Microstructural and mechanical studies of multi-walled CNTs/Mg composite fabricated through FSP. <i>Journal of Composite Materials</i> , 2021, 55, 3023-3033. | 1.2 | 8 |
| 8265 | Ultrasensitive and selective molecularly imprinted electrochemical oxaliplatin sensor based on a novel nitrogen-doped carbon nanotubes/Ag@cu MOF as a signal enhancer and reporter nanohybrid. <i>Mikrochimica Acta</i> , 2021, 188, 124. | 2.5 | 36 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8266 | Shape-Programmable Interfacial Solar Evaporator with Salt-Precipitation Monitoring Function. <i>ACS Nano</i> , 2021, 15, 5752-5761. | 7.3 | 53 |
| 8267 | Recent advances in functional fiber electronics. <i>SusMat</i> , 2021, 1, 105-126. | 7.8 | 77 |
| 8268 | Fabrication of Carbon Nanofibers Decorated with Various Kinds of Metal Oxides for Battery Applications. <i>Energies</i> , 2021, 14, 1353. | 1.6 | 10 |
| 8269 | Characteristics of Carbon Nanotubes Synthesized from Methane and Acetylene in the Presence of a FeCl ₃ Catalyst. <i>Technical Physics</i> , 2021, 66, 445-452. | 0.2 | 1 |
| 8270 | Designing of Nanomaterials-Based Enzymatic Biosensors: Synthesis, Properties, and Applications. <i>Electrochem</i> , 2021, 2, 149-184. | 1.7 | 48 |
| 8271 | Synergistic Effect of N-Doped sp ² Carbon and Porous Structure in Graphene Gels toward Selective Oxidation of C-H Bond. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13087-13096. | 4.0 | 22 |
| 8272 | Multifunctional Additives for High-Energy-Density Lithium-Ion Batteries: Improved Conductive Additive/Binder Networks and Enhanced Electrochemical Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19970-19982. | 4.0 | 10 |
| 8273 | Self-healing superhydrophobic conductive coatings for self-cleaning and humidity-insensitive hydrogen sensors. <i>Chemical Engineering Journal</i> , 2021, 410, 128353. | 6.6 | 31 |
| 8274 | Nanofluidic Membranes to Address the Challenges of Salinity Gradient Power Harvesting. <i>ACS Nano</i> , 2021, 15, 5838-5860. | 7.3 | 97 |
| 8275 | Reduction of external pressure on all-solid-state battery using SnO ₂ -embedded porous carbon by CNT assistance. <i>Nano Select</i> , 2021, 2, 2121-2125. | 1.9 | 3 |
| 8276 | Calibrate Silicon Nanowires Field Effect Transistor Sensor with its Photoresponse. , 2021, , . | | 2 |
| 8277 | Parts per trillion detection of heavy metals in as-is tap water using carbon nanotube microelectrodes. <i>Analytica Chimica Acta</i> , 2021, 1155, 338353. | 2.6 | 30 |
| 8278 | Length-dependent carbon nanotube film structures and mechanical properties. <i>Nanotechnology</i> , 2021, 32, 265702. | 1.3 | 9 |
| 8280 | Laser-assisted decoration of carbon nanotubes with palladium nanoparticles for application in electrochemical methanol oxidation. <i>Bulletin of Materials Science</i> , 2021, 44, 1. | 0.8 | 4 |
| 8281 | Preparation of new conductive organic coating for the fiber reinforced polymer composite oil pipe. <i>Surface and Coatings Technology</i> , 2021, 412, 127017. | 2.2 | 11 |
| 8282 | Texture and surface sites of treated and as-prepared SWNT using experimental and simulation methods. <i>Adsorption</i> , 2021, 27, 909-923. | 1.4 | 0 |
| 8283 | The role of low carbon and high carbon materials in carbon neutrality science and carbon economics. <i>Current Opinion in Environmental Sustainability</i> , 2021, 49, 164-189. | 3.1 | 49 |
| 8284 | Effects of Non-covalent Functionalization and Initial Mixing Methods on SWNT/PP and SWNT/EVOH Composites. <i>ACS Omega</i> , 2021, 6, 10618-10628. | 1.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 8285 | Recent development and future prospects of TiO_2 photocatalysis. Journal of the Chinese Chemical Society, 2021, 68, 738-769. | 0.8 | 107 |
| 8286 | Microfluidics for flexible electronics. Materials Today, 2021, 44, 105-135. | 8.3 | 65 |
| 8287 | Largely improved thermal conductivity of HDPE composites by building a 3D hybrid fillers network. Composites Science and Technology, 2021, 206, 108666. | 3.8 | 89 |
| 8288 | Melt rheological behaviour of high-density polyethylene/montmorillonite nanocomposites. Polymers and Polymer Composites, 2021, 29, S511-S520. | 1.0 | 4 |
| 8289 | MWCNT-based surfaces with tunable wettability obtained by He ⁺ ion irradiation. Surfaces and Interfaces, 2021, 23, 100955. | 1.5 | 8 |
| 8290 | A carbon-based nanocarrier for efficient gene delivery. Therapeutic Delivery, 2021, 12, 311-323. | 1.2 | 4 |
| 8291 | Study of bamboo-type carbon nanotubes with magnetic iron carbide nanoparticles fabricated by a modified CVD method. Journal of Nanoparticle Research, 2021, 23, 1. | 0.8 | 3 |
| 8292 | CNT-sandwiched copper composites as super thermal conductors for heat management. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114557. | 1.3 | 11 |
| 8293 | Mesoporous and crystalline carbide-derived carbons: Towards a general correlation on synthesis temperature and precursor structure influence. Carbon, 2021, 175, 215-222. | 5.4 | 8 |
| 8294 | Advances in Carbon Nanostructures and Nanocellulose as Additives for Efficient Drilling Fluids: Trends and Future Perspective—A Review. Energy & Fuels, 2021, 35, 7319-7339. | 2.5 | 28 |
| 8295 | Synthesis of silver nanoparticles supported on multiwalled carbon nanotubes via a surfactant-assisted microwave method and their antimicrobial assessment in solution. Chemical Papers, 2021, 75, 4687-4695. | 1.0 | 4 |
| 8296 | Comparative study of multiwall carbon nanotube nanocomposites by Raman, SEM, and XPS measurement techniques. Composites Science and Technology, 2021, 208, 108753. | 3.8 | 47 |
| 8297 | Nanomaterials based biofuel cells: A review. International Journal of Hydrogen Energy, 2021, 46, 19085-19105. | 3.8 | 30 |
| 8298 | Pore Structure Regulation and Electrochemical Performance Characterization of Activated Carbon for Supercapacitors. Frontiers in Energy Research, 2021, 9, . | 1.2 | 1 |
| 8299 | Carbon material-based anodes in the microbial fuel cells. , 2021, 3, 449-472. | | 64 |
| 8300 | Engineering of Microcage Carbon Nanotube Architectures with Decoupled Multimodal Porosity and Amplified Catalytic Performance. Advanced Materials, 2021, 33, e2008307. | 11.1 | 9 |
| 8301 | Natural rubber nanocomposites: effect of carbon black/multi-walled carbon nanotubes hybrid fillers on the mechanical properties and thermal conductivity. Polymer-Plastics Technology and Materials, 0, 1-11. | 0.6 | 1 |
| 8302 | Structural exploration and properties of (BN) ₆ cluster via ab initio in combination with particle swarm optimization method. Theoretical Chemistry Accounts, 2021, 140, 1. | 0.5 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8303 | Structural, photovoltaic and optoelectronic properties of graphene-amorphous carbon nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16927-16936. | 1.1 | 11 |
| 8304 | Effects of Functionalization in Different Conditions and Ball Milling on the Dispersion and Thermal and Electrical Conductivity of MWCNTs in Aqueous Solution. <i>Nanomaterials</i> , 2021, 11, 1323. | 1.9 | 21 |
| 8305 | How Do Defects in Carbon Nanostructures Regulate the Photoinduced Electron Transfer Processes? The Case of Phenine Nanotubes. <i>ChemPhysChem</i> , 2021, 22, 1178-1186. | 1.0 | 7 |
| 8306 | Thermal and dielectric properties of carbon nanotubes/graphite/polyester ternary composites. <i>Journal of Composite Materials</i> , 2021, 55, 3741-3750. | 1.2 | 9 |
| 8307 | Adsorption properties of acetone, acetoacetic acid and beta-hydroxybutyric acid on armchair (8, 8) gallium nitride nanotube: A Density Functional Theory approach. <i>Results in Surfaces and Interfaces</i> , 2021, 3, 100012. | 1.0 | 2 |
| 8308 | Comparative assessments of the biodistribution and toxicity of oxidized single-walled carbon nanotubes dispersed with two different reagents after intravenous injection. <i>Nanotoxicology</i> , 2021, 15, 798-811. | 1.6 | 6 |
| 8309 | Advances of microwave plasma-enhanced chemical vapor deposition in fabrication of carbon nanotubes: a review. <i>Journal of Materials Science</i> , 2021, 56, 12559-12583. | 1.7 | 15 |
| 8310 | van der Waals corrected density functionals for cylindrical surfaces: Ammonia and nitrogen dioxide adsorbed on a single-walled carbon nanotube. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 2 |
| 8311 | Applying nonlocal strain gradient theory to size-dependent analysis of functionally graded carbon nanotube-reinforced composite nanoplates. <i>Applied Mathematical Modelling</i> , 2021, 93, 775-791. | 2.2 | 35 |
| 8312 | Two-dimensional vanadium carbide for simultaneously tailoring the hydrogen sorption thermodynamics and kinetics of magnesium hydride. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1051-1065. | 5.5 | 55 |
| 8314 | A facile route to prepare high-performance dielectric nanocomposites of poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 347 Td (m 209, 108792. | 3.8 | 8 |
| 8315 | Environmental Toxicology Assays Using Organ-on-Chip. <i>Annual Review of Analytical Chemistry</i> , 2021, 14, 155-183. | 2.8 | 13 |
| 8316 | Wide-Field Super-Resolved Raman Imaging of Carbon Materials. <i>ACS Photonics</i> , 2021, 8, 1801-1809. | 3.2 | 18 |
| 8317 | Improvements in thermal and mechanical properties of composites based on epoxy-carbon nanomaterials - A brief landscape. <i>Polymer Testing</i> , 2021, 98, 107180. | 2.3 | 29 |
| 8318 | Direct growth of vertically well-aligned carbon nanotube arrays on atomic layer deposition of ZnO films. <i>Chemical Physics Letters</i> , 2021, 773, 138602. | 1.2 | 7 |
| 8319 | Growth mechanism and kinetics of vertically aligned carbon nanotube arrays. <i>EcoMat</i> , 2021, 3, e12118. | 6.8 | 18 |
| 8320 | Plethora of Carbon Nanotubes Applications in Various Fields - A State-of-the-Art-Review. <i>Smart Science</i> , 2022, 10, 1-24. | 1.9 | 58 |
| 8321 | A review on carbon nanotube: An overview of synthesis, properties, functionalization, characterization, and the application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 268, 115095. | 1.7 | 260 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8322 | Entrance resistance of water transport into carbon nanotubes: Insights from molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2021, 331, 115739. | 2.3 | 15 |
| 8323 | Functionalization as a way to enhance dispersion of carbon nanotubes in matrices: a review. <i>Materials Today Chemistry</i> , 2021, 20, 100477. | 1.7 | 51 |
| 8324 | Local-Field-Dependent Nonlinear Optical Absorption of Black Phosphorus Nanoflakes Hybridized by Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15448-15457. | 1.5 | 10 |
| 8325 | An ultrahigh power Li-O ₂ battery. <i>Materials Today Communications</i> , 2021, 27, 102412. | 0.9 | 1 |
| 8326 | Recent Advances in Graphene Electronic Skin and its Future Prospects. <i>ChemNanoMat</i> , 2021, 7, 982-997. | 1.5 | 13 |
| 8327 | Sol-gel synthesized carbon nanoparticles as supercapacitor electrodes with ultralong cycling stability. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 1045-1052. | 1.0 | 21 |
| 8328 | Unzipping Carbon Nanotube Bundles through NH ₄ ⁺ Stacking for Enhanced Electrical and Thermal Transport. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28583-28592. | 4.0 | 6 |
| 8329 | A review on synthesis and applications of nano metal Oxide/porous carbon composite. <i>Materials Today: Proceedings</i> , 2022, 55, 212-219. | 0.9 | 19 |
| 8330 | Simple, cost-efficient and high throughput method for separating single-wall carbon nanotubes with modified cotton. <i>Carbon</i> , 2021, 178, 157-163. | 5.4 | 11 |
| 8331 | Activity Maintenance Characteristics and Protease Adsorption on Langmuir Monolayer of Organo-Modified Single-Walled Carbon Nanotubes. <i>ChemistrySelect</i> , 2021, 6, 5329-5337. | 0.7 | 3 |
| 8332 | Synthesis and Purification of Carbon Nanotubes. , 0, , . | | 0 |
| 8333 | Possible Detection of Nerve-Agent Contaminants by Boron Nitride Nanosheets in Presence and Absence of Static Electric Field: a Computational Study. <i>Brazilian Journal of Physics</i> , 2021, 51, 1255. | 0.7 | 0 |
| 8334 | Acoustics at the nanoscale (nanoacoustics): A comprehensive literature review. Part I: Materials, devices and selected applications. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 112719. | 2.0 | 10 |
| 8335 | Face index of nanotubes and regular hexagonal lattices. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26761. | 1.0 | 3 |
| 8336 | Accelerating anaerobic digestion for methane production: Potential role of direct interspecies electron transfer. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111069. | 8.2 | 86 |
| 8337 | Evaluation of Titanate Nanotubes (TiNTs) as a Modifier for the Determination of Lead (II) by Differential Pulse Adsorptive Stripping Voltammetry (DPAdSV). <i>Analytical Letters</i> , 2022, 55, 146-158. | 1.0 | 2 |
| 8338 | Novel collagen/GO-MWNT hybrid fibers with improved strength and toughness by dry-jet wet spinning. <i>Composite Interfaces</i> , 2022, 29, 413-429. | 1.3 | 8 |
| 8339 | Effect of sintering temperature on the physiochemical properties, microstructure, and compressive strength of a bioceramic root canal sealer reinforced with multi-walled carbon nanotubes and titanium carbide. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104524. | 1.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8340 | Preparation and Characterization of Functional Multi-Walled Carbon Nanotubes (MWCNTs) through Acidification and Radiation Induced Graft Polymerization. <i>High Energy Chemistry</i> , 2021, 55, 300-305. | 0.2 | 3 |
| 8341 | The nucleation, radial growth, and bonding of TiO ₂ deposited via atomic layer deposition on single-walled carbon nanotubes. <i>Applied Surface Science</i> , 2021, 555, 149662. | 3.1 | 3 |
| 8342 | Mechanical properties of single-walled penta-graphene-based nanotubes: A DFT and Classical molecular dynamics study. <i>Chemical Physics</i> , 2021, 547, 111187. | 0.9 | 6 |
| 8343 | Nanocomposites-Turned-Nanoalloys Polypropylene/Multiwalled Carbon Nanotubes- <i>graft</i> -Polystyrene: Synthesis and Polymer Nanoreinforcement. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10167-10179. | 1.8 | 7 |
| 8344 | Comprehensive review on carbon nanotubes embedded in different metal and polymer matrix: fabrications and applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 837-864. | 6.8 | 31 |
| 8345 | Fully organic polyaniline nanotubes as electrode material for durable supercapacitor. <i>Journal of Energy Storage</i> , 2021, 39, 102662. | 3.9 | 18 |
| 8346 | Medium-term response of the natural grassland soil biota to multiwalled carbon nanotube contamination. <i>Science of the Total Environment</i> , 2021, 779, 146392. | 3.9 | 1 |
| 8347 | High-strength carbon nanotube/epoxy resin composite film from a controllable cross-linking reaction. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 146, 106409. | 3.8 | 22 |
| 8348 | Controlled Fabrication of Quality ZnO NWs/CNTs and ZnO NWs/Gr Heterostructures via Direct Two-Step CVD Method. <i>Nanomaterials</i> , 2021, 11, 1836. | 1.9 | 10 |
| 8349 | Selective volatile organic compound gas sensor based on carbon nanotubes functionalized with ZnO nanoparticles. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021, 39, . | 0.6 | 4 |
| 8350 | Effect of Grinding and the Mill Type on Magnetic Properties of Carboxylated Multiwall Carbon Nanotubes. <i>Materials</i> , 2021, 14, 4057. | 1.3 | 2 |
| 8351 | Study on the nonlinear vibration of embedded carbon nanotube via the Hamiltonian-based method. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2022, 41, 112-117. | 1.3 | 13 |
| 8352 | Continuous Long-Term Exposure to Low Concentrations of MWCNTs Induces an Epithelial-Mesenchymal Transition in BEAS-2B Cells. <i>Nanomaterials</i> , 2021, 11, 1742. | 1.9 | 5 |
| 8353 | Sub-µm calcium carbonate isolated carbon nanotubes/polyethylene composites with controllable electrical conductivity. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51412. | 1.3 | 1 |
| 8354 | Adsorption immobilization of biomolecules from subphase on Langmuir monolayers of organo-modified single-walled carbon nanotube. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 621, 126559. | 2.3 | 11 |
| 8355 | High strength Al alloy development for laser powder bed fusion. <i>Journal of Micromechanics and Molecular Physics</i> , 2021, 06, . | 0.7 | 10 |
| 8357 | DFT Study of Chemical Adsorption of NO ₂ ; Gas on Graphene Nano Material. <i>Materials Science Forum</i> , 0, 1039, 391-397. | 0.3 | 4 |
| 8358 | Optical properties for flexible and transparent silver nanowires electrodes with different diameters. <i>Optical Materials</i> , 2021, 117, 111123. | 1.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8359 | Mechanical properties of multiwalled-carbon-nanotubes reinforced poly(methyl methacrylate): Effect of UV-irradiation. <i>Materials Chemistry and Physics</i> , 2021, 266, 124528. | 2.0 | 2 |
| 8360 | Present status of electric-double-layer thin-film transistors and their applications. <i>Flexible and Printed Electronics</i> , 2021, 6, 043001. | 1.5 | 9 |
| 8361 | The Impacts of Polyisoprene Physical Interactions on Sorting of Single-Wall Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2100327. | 2.0 | 3 |
| 8362 | Theoretical Understanding of Structure-Property Relationships in Luminescence of Carbon Dots. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7671-7687. | 2.1 | 111 |
| 8363 | An Eco-Friendly Solid-State Electrode Modified With ZnO Nanoparticles Decorated With MWCNT as an Electrochemical Sensor for the Determination of Avanafil in Pure Form, Dosage Form and Human Plasma. <i>Journal of the Electrochemical Society</i> , 2021, 168, 087510. | 1.3 | 7 |
| 8364 | Dynamic Behavior of Rotation Transmission Nano-System in Helium Environment: A Molecular Dynamics Study. <i>Molecules</i> , 2021, 26, 5199. | 1.7 | 0 |
| 8365 | An Insight into Processing and Properties of Smart Carbon Nanotubes Reinforced Nanocomposites. <i>Smart Science</i> , 2022, 10, 40-55. | 1.9 | 19 |
| 8366 | Low-Power Ternary Multiplication Using Approximate Computing. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021, 68, 2947-2951. | 2.2 | 10 |
| 8367 | Mannose-rich Oligosaccharides-functionalized selenium nanoparticles mediates Macrophage reprogramming and inflammation resolution in ulcerative colitis. <i>Chemical Engineering Journal</i> , 2022, 435, 131715. | 6.6 | 20 |
| 8368 | Recent progress on carbon based desalination membranes and carbon nanomaterial incorporated non-polyamide desalination membranes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105762. | 3.3 | 13 |
| 8369 | Polymer-functionalization of carbon nanotube by in situ conventional and controlled radical polymerizations. <i>Advances in Colloid and Interface Science</i> , 2021, 294, 102471. | 7.0 | 23 |
| 8370 | Facile synthesis and applications of carbon nanotubes in heavy-metal remediation and biomedical fields: A comprehensive review. <i>Journal of Molecular Structure</i> , 2021, 1238, 130462. | 1.8 | 72 |
| 8371 | First-principles study on the methane adsorption properties by Ti-modified graphyne. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26811. | 1.0 | 8 |
| 8372 | Enhancing Iridium Nanoparticles' Oxygen Evolution Reaction Activity and Stability by Adjusting the Coverage of Titanium Oxynitride Flakes on Reduced Graphene Oxide Nanoribbons' Support. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100900. | 1.9 | 10 |
| 8373 | Cellulose-Nanofiber-Reinforced Rubber Composites with Resorcinol Resin Prepared by Elastic Kneading. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100483. | 1.7 | 5 |
| 8374 | The development of carbon dots: From the perspective of materials chemistry. <i>Materials Today</i> , 2021, 51, 188-207. | 8.3 | 213 |
| 8375 | Carbon-based neural electrodes: promises and challenges. <i>Journal of Neural Engineering</i> , 2021, 18, 041007. | 1.8 | 29 |
| 8376 | Mapping the Progress in Flexible Electrodes for Wearable Electronic Textiles: Materials, Durability, and Applications. <i>Advanced Electronic Materials</i> , 2022, 8, 2100578. | 2.6 | 40 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8377 | Innovative Biochar-Based Composite Fibres from Recycled Material. <i>Materials</i> , 2021, 14, 5304. | 1.3 | 8 |
| 8378 | Study on the aqueous dispersibility of multi-walled carbon nanotubes bearing modified corn starch. <i>Chemical Papers</i> , 2022, 76, 691-700. | 1.0 | 0 |
| 8379 | Fibers of Thermoplastic Copolyamides with Carbon Nanotubes for Electromagnetic Shielding Applications. <i>Materials</i> , 2021, 14, 5699. | 1.3 | 4 |
| 8380 | 3D Interconnected Conductive Graphite Nanoplatelet Welded Carbon Nanotube Networks for Stretchable Conductors. <i>Advanced Functional Materials</i> , 2021, 31, 2107082. | 7.8 | 41 |
| 8381 | Application of Non-Viral Vectors in Drug Delivery and Gene Therapy. <i>Polymers</i> , 2021, 13, 3307. | 2.0 | 17 |
| 8382 | Applications of carbon nanomaterials in perovskite solar cells for solar energy conversion. <i>Nano Materials Science</i> , 2021, 3, 276-290. | 3.9 | 35 |
| 8383 | Investigation for conductance behavior of single walled carbon nanotubes decorated with UNCD and graphitic spherules using STM/STS. <i>Applied Surface Science Advances</i> , 2021, 5, 100107. | 2.9 | 0 |
| 8384 | Structure Stability, Flame Retardancy, and Antimicrobial Properties of Polyurethane Composite Nanofibers Containing Tannic Acid and Boron-Doped Carbon Nanotubes. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100455. | 1.7 | 3 |
| 8385 | Tunable anisotropic thermal transport in super-aligned carbon nanotube films. <i>Materials Today Physics</i> , 2021, 20, 100447. | 2.9 | 4 |
| 8386 | Recent advances in the development of nanomedicines for the treatment of ischemic stroke. <i>Bioactive Materials</i> , 2021, 6, 2854-2869. | 8.6 | 41 |
| 8387 | A Review on Fracture Analysis of CNT/Graphene Reinforced Composites for Structural Applications. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 545-582. | 6.0 | 7 |
| 8388 | Effects of Hafnium Oxide on Short Channel Effects and DC Analysis for Double Gate Junctionless Transistors. <i>Transactions on Electrical and Electronic Materials</i> , 2022, 23, 430-440. | 1.0 | 5 |
| 8389 | Effects of polylactide-functionalized multi-walled carbon nanotubes on the crystallization behavior and thermal stability of poly (L-lactic acid). <i>Journal of Applied Polymer Science</i> , 0, , 51676. | 1.3 | 5 |
| 8390 | Preparation of a Novel CO ₂ -Responsive Polymer/Multiwall Carbon Nanotube Composite. <i>Processes</i> , 2021, 9, 1638. | 1.3 | 0 |
| 8391 | Field emission property of multi-cathode electron sources with vertically aligned CNT arrays. <i>Japanese Journal of Applied Physics</i> , 0, , . | 0.8 | 0 |
| 8392 | Three-dimensional graphene-carbon nanotube reinforced ceramics and computer simulation. <i>Ceramics International</i> , 2021, 47, 33941-33955. | 2.3 | 5 |
| 8393 | A review on novel activation strategy on carbonaceous materials with special morphology/texture for electrochemical storage. <i>Journal of Energy Chemistry</i> , 2021, 60, 572-590. | 7.1 | 49 |
| 8394 | Magnetic and thermodynamic properties of monolayer graphdiyne-like. <i>Computational Materials Science</i> , 2021, 197, 110594. | 1.4 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 8395 | Interfacial shear strength of carbon nanotube reinforced polymer composites: A review. <i>Materials Today: Proceedings</i> , 2022, 50, 1774-1780. | 0.9 | 4 |
| 8396 | Vacuum-Free Fabrication of Transparent Electrodes for Soft Electronics. , 0, , . | | 0 |
| 8397 | Development of Al 6061 MWCNT MMC processed by Multi-Directional Forging. <i>Materials Today: Proceedings</i> , 2022, 54, 196-198. | 0.9 | 1 |
| 8398 | Advanced materials for personal thermal and moisture management of health care workers wearing PPE. <i>Materials Science and Engineering Reports</i> , 2021, 146, 100639. | 14.8 | 32 |
| 8399 | Multifunctional properties of Cr-substituted ferromagnetic Nd ₂ Fe ₁₇ . <i>Intermetallics</i> , 2021, 137, 107297. | 1.8 | 1 |
| 8400 | Formation of nanomaterial internal cavity based on process similar to bread-baking. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122391. | 1.4 | 0 |
| 8401 | Two new 3D tubular polyoxoniobates frameworks based on {SiNb ₁₈ O ₅₄ } clusters with proton conduction properties. <i>Inorganic Chemistry Communication</i> , 2021, 132, 108813. | 1.8 | 2 |
| 8402 | Highly-energy efficient oxidation of MWCNT with nanosecond pulsed dielectric barrier discharge plasma. <i>Applied Surface Science</i> , 2021, 563, 150139. | 3.1 | 10 |
| 8403 | Recent advances of 3D compressible carbon assemblies: A review of synthesis, properties and applications in energy and environment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106269. | 3.3 | 5 |
| 8404 | Computational investigation of lithium intercalation in single-walled zigzag blue phosphorene nanotubes. <i>Chemical Physics</i> , 2021, 550, 111297. | 0.9 | 3 |
| 8405 | Recent advances of nanofluids in micro/nano scale energy transportation. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111346. | 8.2 | 29 |
| 8406 | Band alignment in carbon-based one-dimensional van der Waals heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114929. | 1.3 | 2 |
| 8407 | Induced magnetization in armchair and Zig-zag CNTs on adsorbing transition metals. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 538, 168287. | 1.0 | 1 |
| 8408 | Scalable electric heating paper based on CNT/Aramid fiber with superior mechanical and electric heating properties. <i>Composites Part B: Engineering</i> , 2021, 224, 109242. | 5.9 | 25 |
| 8409 | Surface engineered nanocarriers for the management of breast cancer. <i>Materials Science and Engineering C</i> , 2021, 130, 112441. | 3.8 | 30 |
| 8410 | Nanomedicine: a socio-technical system. <i>Technological Forecasting and Social Change</i> , 2021, 173, 121066. | 6.2 | 3 |
| 8411 | Shell-core MnO ₂ /Carbon@Carbon nanotubes synthesized by a facile one-pot method for peroxymonosulfate oxidation of tetracycline. <i>Separation and Purification Technology</i> , 2021, 278, 119558. | 3.9 | 20 |
| 8412 | Vanadium telluride nanoparticles on MWCNTs prepared by successive ionic layer adsorption and reaction for solid-state supercapacitor. <i>Chemical Engineering Journal</i> , 2022, 429, 132505. | 6.6 | 62 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8413 | Properties of silicon-carbon (CNTs/graphene) hybrid nanoparticles. , 2022, , 45-64. | | 0 |
| 8414 | Lung cancer: Improving efficacy and reducing side effects. , 2021, , 351-371. | | 0 |
| 8415 | Graphite Nanoplatelet-carbon Nanotube Hybrids for Electrical Conducting Polymer Composites. Inorganic Materials Series, 2021, , 129-203. | 0.5 | 0 |
| 8416 | Electrical conductivity under shear flow of molten polyethylene filled with carbon nanotubes: Experimental and modeling. Polymer Engineering and Science, 2021, 61, 1129-1138. | 1.5 | 3 |
| 8417 | Carbon Nanotube Alignment Techniques and Their Sensing Applications. Advances in Sustainability Science and Technology, 2021, , 307-348. | 0.4 | 0 |
| 8418 | Edge State Induced Spintronic Properties of Graphene Nanoribbons: A Theoretical Perspective. Advances in Sustainability Science and Technology, 2021, , 165-198. | 0.4 | 0 |
| 8419 | Nanomaterials and nanotechnology for high-performance rechargeable battery. , 2021, , 343-363. | | 4 |
| 8420 | Highly fluorescent nitrogen-doped graphene quantum dots (N-GQDs) as an efficient nanoprobe for imaging of microbial cells. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 588-595. | 1.0 | 14 |
| 8421 | Nanostructures: categories, formation procedures, and synthesis. , 2021, , 105-145. | | 0 |
| 8422 | Revisiting anodic alumina templates: from fabrication to applications. Nanoscale, 2021, 13, 2227-2265. | 2.8 | 153 |
| 8423 | CH ₄ activation and C-C coupling on the Ti ₂ C(100) surface in the presence of intrinsic C-vacancies: is excess good?. Journal of Materials Chemistry A, 2021, 9, 23703-23713. | 5.2 | 2 |
| 8424 | Nanocomposites of polymer matrices: Nanoscale processing. , 2021, , 383-406. | | 2 |
| 8425 | Application of fluorescence technique for understanding film formation from polymer latexes and composites. , 2021, , 263-357. | | 0 |
| 8426 | Application of carbon nanotubes-based coating in the field of art conservation: the IMAT project and the development of new mild heat transfer technology. , 2021, , 81-133. | | 0 |
| 8427 | Mechanical Properties of Graphene-carbon Nanotube Reinforced Hybrid Polymer Nanocomposites. , 2021, , 278-316. | | 2 |
| 8428 | Impact of Nanomaterials Stress on Plants. , 2021, , 499-526. | | 1 |
| 8431 | Synthesis of carbon nanomaterials by chemical vapor deposition method using green chemistry principles. , 2021, , 273-314. | | 5 |
| 8432 | Controlled synthesis of hierarchical porous carbons with different morphologies and their application for potassium and lithium ion batteries. New Journal of Chemistry, 2021, 45, 9882-9891. | 1.4 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8433 | Characteristics of carbon nanotubes and their nanocomposites. , 2021, , 99-118. | | 0 |
| 8434 | Unusual interlayer coupling in layered Cu-based ternary chalcogenides CuMCh ₂ (M = Sb,) Tj ETQq1 1 0.784314,fgBT /Over | 2.8 | 1 |
| 8435 | Synthesis, property, and application of carbon nanotube fiber. Journal of the Korean Ceramic Society, 2021, 58, 148-159. | 1.1 | 20 |
| 8436 | Hybrid nanocomposites based on cellulose nanocrystals/nanofibrils and carbon nanotubes: From preparation to applications. , 2021, , 65-98. | | 5 |
| 8437 | Heteroatoms in graphdiyne for catalytic and energy-related applications. Journal of Materials Chemistry A, 2021, 9, 19298-19316. | 5.2 | 26 |
| 8438 | MXene derivatives: synthesis and applications in energy convention and storage. RSC Advances, 2021, 11, 16065-16082. | 1.7 | 25 |
| 8439 | Recycling of Plastics into Advance Carbon Nanomaterials and Their Application in Energy Storage System. Composites Science and Technology, 2021, , 259-281. | 0.4 | 1 |
| 8446 | Recent Advances in Design of Flexible Electrodes for Miniaturized Supercapacitors. Small Methods, 2020, 4, 1900824. | 4.6 | 56 |
| 8447 | Biomedical Applications of Organic-Inorganic Hybrid Nanoparticles. , 2009, , 707-768. | | 8 |
| 8448 | Engineered Nanopores. , 2008, , 233-250. | | 2 |
| 8449 | Transparent Conducting Films by Using Carbon Nanotubes. , 2008, , 15-28. | | 3 |
| 8450 | Carbon Nanotubes: From Fundamental Nanoscale Objects Towards Functional Nanocomposites and Applications. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 101-119. | 0.2 | 9 |
| 8451 | Atomic-Scale Simulations of the Mechanical Behavior of Carbon Nanotube Systems. Challenges and Advances in Computational Chemistry and Physics, 2010, , 255-295. | 0.6 | 2 |
| 8452 | Leveraging Emerging Technology Through Architectural Exploration for the Routing Fabric of Future FPGAs. , 2011, , 189-213. | | 5 |
| 8453 | Nickel and Ruthenium Nanoparticles as Catalysts for Growth of Carbon Nanotubes and Nanohorns. Nanostructure Science and Technology, 2004, , 159-182. | 0.1 | 2 |
| 8454 | Dielectric Elastomers for Actuators and Artificial Muscles. , 2012, , 1-56. | | 32 |
| 8455 | Phonons in Bulk and Low-Dimensional Systems. Topics in Applied Physics, 2014, , 41-79. | 0.4 | 2 |
| 8456 | Active Polymers: An Overview. , 2007, , 1-36. | | 17 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8457 | Carbon Nanotube Four-Terminal Devices for Pressure Sensing Applications. Smart Innovation, Systems and Technologies, 2019, , 199-207. | 0.5 | 1 |
| 8458 | Characteristics of Carbon Nanotubes. Springer Series in Materials Science, 2020, , 179-214. | 0.4 | 20 |
| 8459 | Characteristics of Carbon Nanofibers. Springer Series in Materials Science, 2020, , 215-245. | 0.4 | 27 |
| 8460 | Liquid Crystalline Polymer Composites for Optoelectronics. , 2015, , 315-338. | | 1 |
| 8461 | Nanotubes/Polymethyl Methacrylate Composite Resins as Denture Base Materials. Springer Series in Biomaterials Science and Engineering, 2016, , 227-240. | 0.7 | 2 |
| 8462 | Nanomaterials for Water Remediation: Synthesis, Application and Environmental Fate. , 2017, , 25-60. | | 7 |
| 8463 | Carbon Nanotube Purification. Carbon Nanostructures, 2017, , 55-73. | 0.1 | 2 |
| 8464 | Congo Red Interactions with Single-Walled Carbon Nanotubes. , 2018, , 121-132. | | 2 |
| 8465 | CNT Applications in Microelectronics, "Nanoelectronics" and "Nanobioelectronics", 2018, , 65-72. | | 1 |
| 8466 | CNT Applications in Displays and Transparent, Conductive Films/Substrates. , 2018, , 73-75. | | 1 |
| 8467 | Graphene Applications in Electronics, Electrical Conductors, and Related Uses. , 2018, , 141-146. | | 4 |
| 8468 | Characterization Methods. , 2018, , 403-488. | | 2 |
| 8469 | Microwave- and Conductivity-Based Technologies. , 2018, , 655-669. | | 3 |
| 8470 | CNT Applications in Sensors and Actuators. , 2018, , 53-60. | | 3 |
| 8471 | Nanotechnology Applications in Food: A Scientometric Overview. , 2019, , 683-711. | | 2 |
| 8472 | Carbon Nanotubes Films for Sensing Applications: From Piezoresistive Sensor to Gas Sensing. Springer Proceedings in Physics, 2006, , 191-194. | 0.1 | 1 |
| 8473 | Photoluminescent Carbon Nanomaterials: Properties and Potential Applications. , 2009, , 128-153. | | 2 |
| 8474 | Single-Walled Carbon Nanotube Sensor Concepts. , 2010, , 403-425. | | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8475 | Nanomaterials in Civil Engineering. , 2013, , 1039-1062. | | 2 |
| 8476 | Microscopic Analysis of Mechanical Properties of Aligned Carbon Nanotube/Epoxy Composite. Springer Proceedings in Physics, 2013, , 347-365. | 0.1 | 2 |
| 8477 | Application of Carbon Nanotubes for Resolving Issues and Challenges on Electrochemical Capacitors. , 2015, , 415-445. | | 2 |
| 8478 | Hydrogen Storage in Metal-Organic Frameworks. , 2017, , 143-170. | | 9 |
| 8479 | Molecular Simulation of Adsorption of Gases on Nanotubes. , 2010, , 41-67. | | 7 |
| 8480 | Physical Properties of Thin Molecular Organized Films. , 2004, , 217-230. | | 1 |
| 8481 | Electromagnetic Interference (EMI) Shielding Effectiveness (SE) of Polymer-Carbon Composites. Springer Series on Polymer and Composite Materials, 2019, , 339-368. | 0.5 | 10 |
| 8482 | Background: Carbon Nanotubes for Targeted Drug Delivery. SpringerBriefs in Applied Sciences and Technology, 2019, , 1-9. | 0.2 | 4 |
| 8483 | Introduction to Transparent Conductors. Springer Theses, 2020, , 1-8. | 0.0 | 1 |
| 8485 | Carbon Nanotube-Based Antimicrobial and Antifouling Surfaces. Materials Horizons, 2020, , 65-93. | 0.3 | 4 |
| 8486 | Sonication-assisted dispersion of carbon nanotubes in aqueous solutions of the anionic surfactant SDBS: The role of sonication energy. , 2013, 58, 2082. | | 1 |
| 8487 | Theory, preparation, properties and catalysis application in 2D graphynes-based materials. Frontiers of Physics, 2021, 16, 1. | 2.4 | 15 |
| 8488 | Potential application of nano graphene oxide for saving energy in water thermal desalination system part I. SN Applied Sciences, 2020, 2, 1. | 1.5 | 3 |
| 8490 | Introduction to advanced nanocomposites in civil, structural, and construction engineering. , 2016, , 1-5. | | 1 |
| 8491 | Amperometric glucose biosensor based on adsorption of glucose oxidase at platinum nanoparticle-modified carbon nanotube electrode. Analytical Biochemistry, 2004, 331, 89-97. | 1.1 | 147 |
| 8492 | Promoting effects of Fe-Ni alloy on co-production of H ₂ and carbon nanotubes during steam reforming of biomass tar over Ni-Fe/Al ₂ O ₃ . Fuel, 2020, 276, 118116. | 3.4 | 48 |
| 8493 | Opposite effects of self-growth amorphous carbon and carbon nanotubes on the reforming of toluene with Ni/Al ₂ O ₃ for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 14439-14448. | 3.8 | 58 |
| 8494 | Underwater, Multifunctional Superhydrophobic Sensor for Human Motion Detection. ACS Applied Materials & Interfaces, 2021, 13, 4740-4749. | 4.0 | 63 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8495 | Immobilization of Gold Nanoparticles on Poly(4-vinylpyridine)-Grafted Carbon Nanotubes as Heterogeneous Catalysts for Hydrogenation of 4-Nitrophenol. ACS Applied Nano Materials, 2020, 3, 12169-12177. | 2.4 | 21 |
| 8496 | Engineering hybrid nanotube wires for high-power biofuel cellspace. Nature Communications, 2010, 1, 1-7. | 5.8 | 1,864 |
| 8497 | Engineering hybrid nanotube wires for high-power biofuel cells. Nature Communications, 2010, 1, 1-7. | 5.8 | 6 |
| 8498 | CHAPTER 4. Design and Physicochemical Characterization of Novel Organic-Inorganic Hybrids from Natural Aluminosilicate Nanotubes. RSC Smart Materials, 2016, , 131-156. | 0.1 | 5 |
| 8499 | Carbon-based Nanomaterials in Analytical Chemistry. RSC Detection Science, 2018, , 1-36. | 0.0 | 10 |
| 8500 | Improved porosity and ionic sorption capacity of carbon particles prepared by spray pyrolysis from an aqueous sucrose/NaHCO ₃ /TEOS solution. RSC Advances, 2017, 7, 21314-21322. | 1.7 | 9 |
| 8501 | Nanomaterial-based biosensors for DNA methyltransferase assay. Journal of Materials Chemistry B, 2020, 8, 3488-3501. | 2.9 | 21 |
| 8502 | Recent developments in pre-treatment and analytical techniques for synthetic polymers by MALDI-TOF mass spectrometry. Analytical Methods, 2020, 12, 5767-5800. | 1.3 | 12 |
| 8503 | LCAO-TDDFT-k-ï‰ : spectroscopy in the optical limit. Journal of Physics Condensed Matter, 2020, 32, 415901. | 0.7 | 3 |
| 8504 | From simple molecules to nanotubes. Reliable predictions of ionization potentials from the ï™MP2-SCS methods. New Journal of Physics, 2020, 22, 083084. | 1.2 | 4 |
| 8505 | Enhanced flame retardant efficiency of in-situ polymerizing barium phenolic resin modified with carbon nanotubes. Materials Research Express, 2020, 7, 085602. | 0.8 | 3 |
| 8506 | Toward the Emergence of Nanoneurosurgery: Part ï™Progress in Nanoscience, Nanotechnology, and the Comprehension of Events in the Mesoscale Realm. Neurosurgery, 2005, 57, 606-634. | 0.6 | 24 |
| 8508 | Nanocrystalline nickel-graphene nanoplatelets composite: Superior mechanical properties and mechanics of properties enhancement at the atomistic level. Physical Review Materials, 2017, 1, . | 0.9 | 15 |
| 8509 | A Logic Synthesis Methodology for Low-Power Ternary Logic Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3138-3151. | 3.5 | 68 |
| 8510 | Nanocomposite Catalyst Derived from Ultrafine Platinum Nanoparticles and Carbon Nanotubes for Hydrogen Generation. ECS Journal of Solid State Science and Technology, 2020, 9, 101008. | 0.9 | 14 |
| 8511 | Synthesis, Characterization, and Evaluation of Evaporated Casting MWCNT/Chitosan Composite Membranes for Water Desalination. Journal of Chemistry, 2020, 2020, 1-9. | 0.9 | 12 |
| 8512 | Synthesis of Carbon Nanoparticles from Kerosene and their Characterization by SEM, EDX, XRD and FTIR. American Journal of Nanoscience and Nanotechnology, 2013, 1, 52. | 0.5 | 30 |
| 8513 | Dielectric Properties of Composite LaMnO ₃ Nanofiber by Electrospinning Technique. American Journal of Nanoscience and Nanotechnology, 2013, 1, 65. | 0.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8514 | Teaching a Multidisciplinary Nanotechnology Laboratory Course to Undergraduate Students. <i>Journal of Nano Education (Print)</i> , 2013, 5, 17-26. | 0.3 | 2 |
| 8515 | Transmission Light Microscopy of Carbon Nanotubes-Epoxy Nanocomposites Involving Different Dispersion Methods. <i>Advanced Composites Letters</i> , 2006, 15, 096369350601500. | 1.3 | 25 |
| 8516 | A Novel Mechanism Underlying Multi-walled Carbon Nanotube-Triggered Tomato Lateral Root Formation: the Involvement of Nitric Oxide. <i>Nanoscale Research Letters</i> , 2020, 15, 49. | 3.1 | 16 |
| 8517 | <i>Materials Science at the Nanoscale.</i> , 2006, , . | | 2 |
| 8518 | <i>Nanotubes in Multifunctional Polymer Nanocomposites.</i> , 2006, , . | | 3 |
| 8520 | <i>Chemistry of Carbon Nanotubes.</i> , 2006, , . | | 3 |
| 8521 | <i>Rubber Nanocomposites Based on Miscellaneous Nanofillers.</i> , 2008, , . | | 1 |
| 8523 | <i>Chemistry of Carbon Nanotubes. Advanced Materials and Technologies</i> , 2006, , 77-147. | 0.4 | 1 |
| 8525 | <i>Chemistry of Carbon Nanotubes. Advanced Materials and Technologies</i> , 2006, , 37-108. | 0.4 | 2 |
| 8526 | <i>Shape-Memory Polymer Composites.</i> , 2010, , 203-232. | | 5 |
| 8527 | <i>Recent Progress on the Synthesis and Applications of Carbon Nanotubes.</i> , 2012, , . | | 2 |
| 8529 | <i>Future Scope and Directions of Nanotechnology in Creating Next-Generation Supercapacitors.</i> , 2014, , 153-190. | | 1 |
| 8530 | <i>Present Status of Hard-Yet-Tough Ceramic Coatings. Advances in Materials Science and Engineering</i> , 2015, , 1-46. | 0.4 | 1 |
| 8531 | Preliminary Investigations into the Purification and Functionalization of Multiwall Carbon Nanotubes. <i>Acta Physica Polonica A</i> , 2010, 118, 515-518. | 0.2 | 19 |
| 8532 | Vibrational Analysis of Initially Stressed Carbon Nanotubes. <i>Acta Physica Polonica A</i> , 2011, 119, 778-782. | 0.2 | 6 |
| 8533 | Mechanical Properties of Single-walled Carbon Nanotubes Simulated with AIREBO Force-Field. <i>Computational Methods in Science and Technology</i> , 2012, 18, 67-77. | 0.3 | 8 |
| 8534 | Bending, buckling and vibration analyses of nonhomogeneous nanotubes using GDQ and nonlocal elasticity theory. <i>Structural Engineering and Mechanics</i> , 2009, 33, 193-213. | 1.0 | 48 |
| 8535 | Asymptotic dynamics of three-dimensional bipolar ultrashort electromagnetic pulses in an array of semiconductor carbon nanotubes. <i>Optics Express</i> , 2019, 27, 27592. | 1.7 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8536 | Tunable characteristics of the SWCNTs thin film modulator in the THz region. <i>Optical Materials Express</i> , 2019, 9, 1776. | 1.6 | 2 |
| 8537 | Biosafety of Non-Surface Modified Carbon Nanocapsules as a Potential Alternative to Carbon Nanotubes for Drug Delivery Purposes. <i>PLoS ONE</i> , 2012, 7, e32893. | 1.1 | 21 |
| 8538 | Insertion of Short Amino-Functionalized Single-Walled Carbon Nanotubes into Phospholipid Bilayer Occurs by Passive Diffusion. <i>PLoS ONE</i> , 2012, 7, e40703. | 1.1 | 67 |
| 8539 | Direct Deposition of Gas Phase Generated Aerosol Gold Nanoparticles into Biological Fluids - Corona Formation and Particle Size Shifts. <i>PLoS ONE</i> , 2013, 8, e74702. | 1.1 | 7 |
| 8540 | Chemical State Analysis of Si-Doped CNT on SiC by Hard X-Ray Photoelectron Spectroscopy. <i>E-Journal of Surface Science and Nanotechnology</i> , 2011, 9, 54-57. | 0.1 | 2 |
| 8541 | Cooperative Multiwalled Carbon Nanotubes for Enhanced Force Spectroscopy. <i>E-Journal of Surface Science and Nanotechnology</i> , 2012, 10, 341-345. | 0.1 | 1 |
| 8542 | Safety Risks Associated with Carbon Nanotube-Reinforced Mortar. <i>ACI Materials Journal</i> , 2017, 114, . | 0.3 | 2 |
| 8543 | Carbon Nanotubeâ€“Purification and Sorting Protocols. <i>Defence Science Journal</i> , 2008, 58, 591-599. | 0.5 | 20 |
| 8544 | Synthesis of C60 Fullerene Nanotubes by the Liquid-Liquid Interfacial Precipitation Method. <i>Transactions of the Materials Research Society of Japan</i> , 2007, 32, 1011-1014. | 0.2 | 3 |
| 8545 | Room-temperature Synthesis and Characterization of Ni-included Carbon Nanofibers. <i>Transactions of the Materials Research Society of Japan</i> , 2008, 33, 1023-1026. | 0.2 | 1 |
| 8546 | Voltammetric Determination of Ivabradine Hydrochloride Using Multiwalled Carbon Nanotubes Modified Electrode in Presence of Sodium Dodecyl Sulfate. <i>Advanced Pharmaceutical Bulletin</i> , 2017, 7, 151-157. | 0.6 | 14 |
| 8547 | Cellulose aerogels decorated with multi-walled carbon nanotubes: preparation, characterization, and application for electromagnetic interference shielding. <i>Frontiers of Agricultural Science and Engineering</i> , 2015, 2, 341. | 0.9 | 6 |
| 8548 | A nonlocal Timoshenko beam theory for vibration analysis of thick nanobeams using differential transform method. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 1041. | 0.2 | 41 |
| 8549 | Promising Nanostructured Materials against Enveloped Virus. <i>Anais Da Academia Brasileira De Ciencias</i> , 2020, 92, e20200718. | 0.3 | 16 |
| 8550 | The Stability and Mechanical Properties of Boron Nanotubes Explored through Density Functional Calculations. <i>International Journal for Multiscale Computational Engineering</i> , 2010, 8, 245-250. | 0.8 | 2 |
| 8551 | A review on the effect of proton exchange membranes in microbial fuel cells. <i>Biofuel Research Journal</i> , 2014, 01, 7-15. | 7.2 | 97 |
| 8552 | Friction reducing performance of carbon nanotubes covered pistons in internal combustion engines â€“ engine test results. <i>Silniki Spalinowe</i> , 2018, 172, 14-24. | 0.4 | 5 |
| 8553 | The role of conductive dopants in polymer cholesteric liquid crystals. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2014, 33, 287. | 0.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8554 | Two-Step Approach Based on Solution Mixing and Hot Compaction for CNT/HDPE Nanocomposite Preparation. <i>International Journal of Electrochemical Science</i> , 0, , 6488-6499. | 0.5 | 2 |
| 8555 | Electrochemical Determination of Hydroquinone and Catechol Using Multi-walled Carbon Nanotubes/ eosin Y Modified Glassy Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2019, 14, 6234-6246. | 0.5 | 8 |
| 8558 | Investigation of the Adsorption Rubraca Anticancer Drug on the CNT(4,4-8) Nanotube as a Factor of Drug Delivery: A Theoretical Study Based on DFT Method. <i>Current Molecular Medicine</i> , 2019, 19, 473-486. | 0.6 | 12 |
| 8559 | Current Perspective and Developments in Electrochemical Sensors Modified with Nanomaterials for Environmental and Pharmaceutical Analysis. <i>Current Analytical Chemistry</i> , 2022, 18, 102-115. | 0.6 | 20 |
| 8560 | Nanocarrier Mediated siRNA Delivery Targeting Stem Cell Differentiation. <i>Current Stem Cell Research and Therapy</i> , 2020, 15, 155-172. | 0.6 | 9 |
| 8562 | Synthesis, Characterization of TiO ₂ Doped Nanofibres and Investigation on their Antimicrobial Property. <i>Journal of Pure and Applied Microbiology</i> , 2019, 13, 2129-2140. | 0.3 | 4 |
| 8563 | Element free Galerkin method for transient thermal analysis of carbon nanotube composites. <i>Thermal Science</i> , 2008, 12, 39-48. | 0.5 | 3 |
| 8564 | On the vibration of postbuckled functionally graded carbon nanotube-reinforced composite annular plates. <i>Scientia Iranica</i> , 2019, . | 0.3 | 4 |
| 8565 | IGBT Cooling System Using High Thermal Conductive Aluminum Based Composite Containing VGCF-CNT Network. , 2013, , . | | 1 |
| 8566 | Synthesis of an ABC Type Triblock Copolymer on MWCNT Surface: Structural, Thermal, Electrical and SEM Characterization. <i>El-Cezeri Journal of Science and Engineering</i> , 2017, 4, 177-189. | 0.1 | 7 |
| 8567 | Non-isothermal crystallization kinetics of syndiotactic polystyrene polystyrene functionalized SWNTs nanocomposites. <i>EXPRESS Polymer Letters</i> , 2007, 1, 416-426. | 1.1 | 29 |
| 8568 | Recent Advances in the Preparation, Characterization and Applications of Locust Bean Gum-Based Films. <i>Journal of Renewable Materials</i> , 2020, 8, 1565-1579. | 1.1 | 12 |
| 8569 | Structural Modifications of Multi-walled Carbon Nanotubes of Different Diameters through Electron Beam Irradiation. <i>Bangladesh Journal of Scientific and Industrial Research</i> , 2011, 46, 9-16. | 0.1 | 1 |
| 8570 | Photocatalytic and Gas Sensitive Multiwalled Carbon Nanotube/TiO ₂ -ZnO and ZnO-TiO ₂ Composites Prepared by Atomic Layer Deposition. <i>Nanomaterials</i> , 2020, 10, 252. | 1.9 | 17 |
| 8571 | A Mini-Review on Non-Aqueous Lithium-Oxygen Batteries - Electrochemistry and Cathode Materials. <i>Journal of Electrochemical Science and Technology</i> , 2015, 6, 50-58. | 0.9 | 1 |
| 8572 | MICROSTRUCTURES AND MECHANICAL PROPERTIES OF CNT/Al COMPOSITES FABRICATED BY HIGH ENERGY BALL-MILLING METHOD. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2013, 48, 882-888. | 0.3 | 6 |
| 8573 | Ar Microwave Plasma Treatment of Carbon Nanotubes Film by Electrophoretic Deposition. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2008, 23, 515-518. | 0.6 | 1 |
| 8574 | POLYMER-ASSISTED ALIGNMENT AND ASSEMBLY OF CARBON NANOTUBES. <i>Acta Polymerica Sinica</i> , 2010, 010, 131-142. | 0.0 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8575 | Structure, property and application of carbon nanotubes and carbon microtubes. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering, 2013, 30, 1-11. | 0.1 | 8 |
| 8576 | Mass Production of Carbon Nanotubes Using Fluidized Bed Reactor: A Short Review. Trends in Applied Sciences Research, 2014, 9, 121-131. | 0.4 | 23 |
| 8577 | Surface modification of materials to encourage beneficial biofilm formation. AIMS Bioengineering, 2015, 2, 404-422. | 0.6 | 30 |
| 8578 | Carbon-Based Nanomaterials for Desulfurization. Advances in Chemical and Materials Engineering Book Series, 2016, , 154-179. | 0.2 | 6 |
| 8579 | Graphene-Based Gas Sensor Theoretical Framework. Advances in Computer and Electrical Engineering Book Series, 2017, , 117-149. | 0.2 | 1 |
| 8580 | The evaluation of toxicity of carbon nanotubes on the human adipose-derived-stem cells in-vitro. Advanced Biomedical Research, 2014, 3, 40. | 0.2 | 19 |
| 8581 | Preparation and Properties of Polypropylene/Vapor Grown Carbon Fiber Composite Monofilaments by Melt Compounding. Journal of Textile Engineering, 2009, 55, 73-83. | 0.5 | 8 |
| 8582 | Nanostructured Bulk Ceramics (Part I). Journal of the Korean Ceramic Society, 2009, 46, 225-228. | 1.1 | 1 |
| 8583 | Preparation and Photonic Properties of CNT/TiO ₂ Composites Derived from MWCNT and Organic Titanium Compounds. Journal of the Korean Ceramic Society, 2009, 46, 234-241. | 1.1 | 7 |
| 8584 | Electrochemical Preparation of TiO ₂ /CNT Electrodes with a TNB Electrolyte and Their Photoelectrocatalytic Effects. Journal of the Korean Ceramic Society, 2009, 46, 357-364. | 1.1 | 4 |
| 8585 | Electro-chemical Preparation of TiO ₂ /CNT Electrodes with TNB Electrolyte and Their Photoelectrocatalytic Effect. Journal of the Korean Ceramic Society, 2009, 46, 554-560. | 1.1 | 2 |
| 8586 | Facile Synthesis, Characterization and Photocatalytic Activity of MWCNT-Supported Metal Sulfide Composites under Visible Light Irradiation. Journal of the Korean Ceramic Society, 2012, 49, 155-160. | 1.1 | 5 |
| 8587 | Site Selectivity of One Hydroxyl Group Bonded on the Surface of Finite (5, 0) Zigzag Carbon Nanotube. Computational Chemistry, 2017, 05, 1-8. | 0.2 | 8 |
| 8588 | Dispersion and Performance Properties of Carbon Nanotubes (CNTs) Based Polymer Composites: A Review. Journal of Encapsulation and Adsorption Sciences, 2012, 02, 69-78. | 0.3 | 49 |
| 8589 | Nanocomposites Based on Conducting Polymers and Functionalized Carbon Nanotubes with Different Dopants Obtained by Electropolymerization. Journal of Surface Engineered Materials and Advanced Technology, 2014, 04, 164-179. | 0.2 | 2 |
| 8590 | Analysis of Carbon Nanotubes Produced by Pyrolysis of Composite Film of Poly (Vinyl Alcohol) and Modified Fly Ash. Materials Sciences and Applications, 2012, 03, 103-109. | 0.3 | 6 |
| 8591 | Nano-Sized Elements in Electrochemical Biosensors. Materials Sciences and Applications, 2014, 05, 752-766. | 0.3 | 3 |
| 8592 | Fabrication of self-assembled monolayer using carbon nanotubes conjugated 1-aminoundecanethiol on gold substrates. Natural Science, 2011, 03, 208-217. | 0.2 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|--|------|-----------|
| 8593 | The Electrochemical Behaviour of PEDOT Film Electrosynthesized in Presence of Some Dopants. Open Journal of Organic Polymer Materials, 2015, 05, 89-102. | 2.0 | 4 |
| 8594 | A Study on Synthesis and Characterization of Biobased Carbon Nanoparticles from Lignin. World Journal of Nano Science and Engineering, 2012, 02, 148-153. | 0.3 | 43 |
| 8595 | Positively Charged Silver Nanoparticles Threaded on Carbon Nanotube for the Efficient Delivery of Negatively Charged Biomolecules. Bulletin of the Korean Chemical Society, 2011, 32, 3581-3586. | 1.0 | 5 |
| 8596 | Positive Charge-doping on Carbon Nanotube Walls and Anion-directed Tunable Dispersion of the Derivatives. Bulletin of the Korean Chemical Society, 2011, 32, 1635-1639. | 1.0 | 8 |
| 8597 | Preparation of Honeycomb-patterned Polyaniline-MWCNT/Polystyrene Composite Film and Studies on DC Conductivity. Bulletin of the Korean Chemical Society, 2012, 33, 2345-2351. | 1.0 | 5 |
| 8598 | Single-walled Carbon Nanotube-triethylammonium Ionic Liquid as a New Catalytic System for Michael Reaction. Bulletin of the Korean Chemical Society, 2014, 35, 3035-3040. | 1.0 | 3 |
| 8599 | Development of Gold Phosphorus Supported Carbon Nanocomposites. Bulletin of the Korean Chemical Society, 2014, 35, 401-406. | 1.0 | 2 |
| 8600 | Development of Palladium, Gold and Gold-Palladium Containing Metal-Carbon Nanoreactors: Hydrogen Adsorption. Bulletin of the Korean Chemical Society, 2014, 35, 1312-1316. | 1.0 | 4 |
| 8601 | Template Synthesis of Nitrogen-Doped Short Tubular Carbons with Big Inner Diameter and their Application in Electrochemical Sensing. Bulletin of the Korean Chemical Society, 2014, 35, 2423-2430. | 1.0 | 3 |
| 8602 | Semiconducting single-walled carbon nanotubes synthesized by S-doping. Nano-Micro Letters, 2010, 1, 9. | 14.4 | 4 |
| 8603 | Photovoltaic enhancement of Si solar cells by assembled carbon nanotubes. Nano-Micro Letters, 2010, 2, 22. | 14.4 | 4 |
| 8604 | Advances in Conceptual Electronic Nanodevices based on 0D and 1D Nanomaterials. Nano-Micro Letters, 2013, 6, 1. | 14.4 | 4 |
| 8605 | Research Progress in Improving the Rate Performance of LiFePO ₄ Cathode Materials. Nano-Micro Letters, 2014, 6, 209. | 14.4 | 1 |
| 8606 | Effects of Carbon Nanotubes on a Neuronal Cell Model In Vitro. Atlas Journal of Biology, 2011, 1, 70-77. | 0.2 | 3 |
| 8607 | A Mini-Review on Non-Aqueous Lithium-Oxygen Batteries - Electrochemistry and Cathode Materials. Journal of Electrochemical Science and Technology, 2015, 6, 50-58. | 0.9 | 2 |
| 8608 | Electrochemical Characteristics of CNT/TiO ₂ Nanocomposites Electrodes for Cancer Cell Sensor. Journal of the Korean Electrochemical Society, 2008, 11, 105-108. | 0.1 | 2 |
| 8609 | Effect of Thickness in Carbon Nanotube Electrode Layer for Electrochemi-Luminescence Cells Applications. Journal of Electrical Engineering and Technology, 2016, 11, 1362-1366. | 1.2 | 3 |
| 8611 | Evaluating the Degree of Macrodispersion of Carbon Nanotubes using UV-VIS-NIR Absorption Spectroscopy. Carbon Letters, 2009, 10, 14-18. | 3.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8612 | Influence of Glycidyl Methacrylate Grafted Multi-walled Carbon Nanotubes on Viscoelastic Behaviors of Polypropylene Nanocomposites. Carbon Letters, 2010, 11, 311-315. | 3.3 | 8 |
| 8613 | Parametric study on synthesis of carbon nanotubes by the vertical spray pyrolysis method. Carbon Letters, 2011, 12, 102-106. | 3.3 | 9 |
| 8614 | A review: controlled synthesis of vertically aligned carbon nanotubes. Carbon Letters, 2011, 12, 185-193. | 3.3 | 18 |
| 8615 | Fabrication and Applications of Carbon Nanotube Fibers. Carbon Letters, 2012, 13, 191-204. | 3.3 | 32 |
| 8616 | Carbon nanotubes-properties and applications: a review. Carbon Letters, 2013, 14, 131-144. | 3.3 | 339 |
| 8617 | Mechanical and thermal properties of MWCNT-reinforced epoxy nanocomposites by vacuum assisted resin transfer molding. Carbon Letters, 2014, 15, 32-37. | 3.3 | 23 |
| 8618 | Double-walled carbon nanotubes: synthesis, structural characterization, and application. Carbon Letters, 2014, 15, 77-88. | 3.3 | 35 |
| 8619 | Microinjection Molding of Enhanced Thermoplastics. , 0, , . | | 3 |
| 8620 | Electrochemical and Adsorption Properties of Catalytically Formed Carbon Nanofibers. , 0, , . | | 1 |
| 8621 | Transport Properties of Conductive Polyaniline Nanocomposites Based on Carbon Nanotubes. International Journal of Composite Materials, 2012, 2, 32-36. | 0.3 | 42 |
| 8622 | Synthesis, Characterization and Adsorption Studies of Chlorine-doped Carbon Nanotubes. Advances in Materials Science and Applications, 2015, 4, 53-62. | 0.7 | 3 |
| 8623 | NO ₂ gas sensing based on graphene synthesized via chemical reduction process of exfoliated graphene oxide. Journal of the Korean Crystal Growth and Crystal Technology, 2012, 22, 84-91. | 0.3 | 3 |
| 8624 | High Strength Electrospun Nanofiber Mats via CNT Reinforcement: A Review. Composites Research, 2016, 29, 186-193. | 0.1 | 9 |
| 8625 | Preparation and characterization of water-soluble polyaniline/carbon nanotube composites. Journal of the Korean Society for Composite Materials, 2011, 24, 1-6. | 0.3 | 1 |
| 8627 | Study of Carbon-Nanotube Web Thermoacoustic Loud Speakers. Japanese Journal of Applied Physics, 2011, 50, 01BJ10. | 0.8 | 20 |
| 8628 | Investigation of the Resistance Dependence on Temperature of Single Carbon Nanotube in Different Environments. Japanese Journal of Applied Physics, 2011, 50, 125101. | 0.8 | 2 |
| 8629 | Growth of Horizontally-Aligned Single-Walled Carbon Nanotubes on Sapphire Surface by Needle-Scratching Method. Japanese Journal of Applied Physics, 2012, 51, 04DN02. | 0.8 | 1 |
| 8630 | Percolative BaTiO ₃ /Carbon-Nanotube Composite Films Employing Aerosol Deposition. Japanese Journal of Applied Physics, 2012, 51, 09LC07. | 0.8 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8631 | Adhesion of Condensed Bodies at Microscale. <i>Reviews of Adhesion and Adhesives</i> , 2014, 2, 1-29. | 3.3 | 1 |
| 8632 | Two-Dimensional Carbon Nanotube Woven Highly-Stretchable Film with Strain-Induced Tunable Impacting Performance. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 8633 | Intergrowth of Graphite-Like Crystals in Hard Carbon for Highly Reversible Na ⁺ Ion Storage. <i>Advanced Functional Materials</i> , 2022, 32, 2106980. | 7.8 | 22 |
| 8635 | A simple and green strategy for preparing flexible thermoplastic polyimide foams with exceptional mechanical, thermal-insulating properties, and temperature resistance for high-temperature lightweight composite sandwich structures. <i>Composites Part B: Engineering</i> , 2022, 228, 109405. | 5.9 | 25 |
| 8636 | Carbon nanotubes for production and storage of hydrogen: challenges and development. <i>Chemical Papers</i> , 2022, 76, 609-625. | 1.0 | 5 |
| 8638 | Prospects of Integrated Photovoltaic-Fuel Cell Systems in a Hydrogen Economy: A Comprehensive Review. <i>Energies</i> , 2021, 14, 6827. | 1.6 | 10 |
| 8639 | CNT/TiO ₂ Hybrid Nanostructured Materials: Synthesis, Properties and Applications. <i>Engineering Materials</i> , 2022, , 185-204. | 0.3 | 0 |
| 8640 | Chemical Bond Formation between Vertically Aligned Carbon Nanotubes and Metal Substrates at Low Temperatures. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9529. | 1.3 | 5 |
| 8641 | TiC-modified CNTs as reinforcing fillers for isotropic graphite produced from mesocarbon microbeads. <i>New Carbon Materials</i> , 2021, 36, 961-969. | 2.9 | 3 |
| 8642 | Recent progress and future perspectives on carbon-nanomaterial-dispersed liquid crystal composites. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 083002. | 1.3 | 39 |
| 8643 | RESEARCH ON THE NONLINEAR VIBRATION OF CARBON NANOTUBE EMBEDDED IN FRACTAL MEDIUM. <i>Fractals</i> , 2022, 30, . | 1.8 | 23 |
| 8644 | Effect of different parameters on the heat transfer coefficient of silicon and carbon nanotubes. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105692. | 2.9 | 13 |
| 8645 | High performance of polyethylene composite separators modified by carbon nanotube, lithium salt and SiO ₂ nanoparticles for lithium ion batteries. <i>Composites Communications</i> , 2021, 28, 100976. | 3.3 | 9 |
| 8646 | Effect of charge on the stability of single-walled carbon nanotubes. <i>Science in China Series C: Physics, Mechanics and Astronomy</i> , 2004, 47, 685. | 0.2 | 0 |
| 8648 | Numerical Simulation of Gas Phase Growth Environment of Carbon Nanotube Synthesis by Plasma-Enhanced Chemical Vapor Deposition. , 2005, , . | | 0 |
| 8649 | Synthesis of Carbon Nanotubes on a Moving Substrate by Laser-Induced Chemical Vapor Deposition. , 2005, , . | | 0 |
| 8650 | Preparation of Single- and Multi-Walled Carbon Nanotube Solids and Their Mechanical Properties. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005, 52, 831-835. | 0.1 | 0 |
| 8652 | Nano-Enabled Components and Systems for Biodefense. , 2005, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8653 | Seikei-Kakou, 2005, 17, 264-266. | 0.0 | 0 |
| 8654 | Carbon Nanofiber and Carbon Nanotube/ Polymer Composite Fibers and Films. , 2005, , . | | 0 |
| 8655 | Macroscopic Fibers of Single-Walled Carbon Nanotubes. , 2005, , . | | 1 |
| 8656 | Design of Nanostructured Materials. , 2005, , . | | 0 |
| 8657 | Detergent Enzymes. , 2005, , 673-684. | | 0 |
| 8658 | Mechanical Properties Predictions and Responses of Defected Carbon Nanotubes Subjected to Axial Loading. , 2006, , . | | 0 |
| 8659 | Steady Shear and Linear Viscoelastic Properties of Melt Mixed and Injection Molded Samples of Polypropylene, Polystyrene, and Polyethylene Nanocomposites With Carbon Black, Vapor Grown Carbon Fibers, and Carbon Nanotubes. , 2006, , . | | 0 |
| 8660 | Chirality Effects on Axial Thermomechanical Properties of Carbon Nanotubes. , 2006, , . | | 0 |
| 8661 | Shear Piezoresistive Response of a Graphite/Silicone Suspension. , 2006, , . | | 0 |
| 8662 | Chemistry of Carbon Nanotubes. , 2006, , 51-122. | | 1 |
| 8663 | Nanotubes in Multifunctional Polymer Nanocomposites. Advanced Materials and Technologies, 2006, , 255-273. | 0.4 | 0 |
| 8664 | Nanotubes in Multifunctional Polymer Nanocomposites. Advanced Materials and Technologies, 2006, , 179-197. | 0.4 | 1 |
| 8665 | Nanorobotics. , 2007, , 1545-1574. | | 0 |
| 8666 | Photoexcitation Dynamics on the Nanoscale. Springer Series in Chemical Physics, 2007, , 5-30. | 0.2 | 0 |
| 8667 | Conclusions, the outlook, and need for action. , 2007, , 215-221. | | 0 |
| 8668 | Applications of Carbon Nanotubes in Bio-Nanotechnology. , 2007, , 439-475. | | 0 |
| 8671 | THE SHAPE OF CARBON: NOVEL MATERIALS FOR THE 21ST CENTURY. Series on Iraq War and Its Consequences, 2007, , 7-32. | 0.1 | 0 |
| 8674 | Effect of Surface Morphology and Adhesion Force on the Field Emission Properties of Carbon Nanotube Based Cathode. Korean Journal of Materials Research, 2008, 18, 277-282. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8676 | Carbon Nanotube and Fullerene Sensors. , 2009, , 1-18. | | 0 |
| 8680 | Directed Alignment of Carbon Nanotubes. Nanoscience and Technology, 2009, , 31-46. | 1.5 | 0 |
| 8682 | Laser-assisted selective removal of metallic carbon nanotubes. , 2009, , . | | 0 |
| 8683 | Closed-form solution for timing analysis of process variations on SWCNT interconnect. , 2009, , . | | 2 |
| 8684 | Field Emission of Carbon Nanotubes. , 2009, , 588-617. | | 1 |
| 8685 | Electromechanical and Chemical Sensing at the Nanoscale: DFT and Transport Modeling. , 2009, , 47-69. | | 0 |
| 8686 | THE SYNTHESIS OF A SECOND GENERATION OF NANOFUIDS BASED ON CARBON NANOTUBES. Acta Polymerica Sinica, 2009, 008, 1209-1213. | 0.0 | 0 |
| 8687 | The Reliability Evaluation about the Triode-Type CNT Emission Source. Applied Science and Convergence Technology, 2009, 18, 79-84. | 0.3 | 1 |
| 8688 | Micro toluene gas sensor of SWNTs-PtOxsystem using the vacuum filtering deposition method. Journal of Sensor Science and Technology, 2009, 18, 179-183. | 0.1 | 1 |
| 8689 | Relative Content Evaluation of Single-walled Carbon Nanotubes using UV-VIS-NIR Absorption Spectroscopy. Carbon Letters, 2009, 10, 9-13. | 3.3 | 1 |
| 8690 | Medical Application of Nanomaterials and Prospect. Journal of Clinical Otolaryngology, 2009, 20, 119-126. | 0.1 | 2 |
| 8692 | Novel Molecular Diodes Developed by Chemical Conjugation of Carbon Nanotubes with Peptide Nucleic Acid. , 2010, , 3-15. | | 0 |
| 8693 | Electrical Conduction in Carbon Nanotubes under Mechanical Deformations. Challenges and Advances in Computational Chemistry and Physics, 2010, , 335-365. | 0.6 | 0 |
| 8694 | A Method to Standardize the Characterization of Supercapacitor Electrodes and its Demonstration on Carbon Nanotubes. ECS Meeting Abstracts, 2010, , . | 0.0 | 0 |
| 8695 | Electronic transport properties of single-walled carbon nanotubes under a low bias. Wuli Xuebao/Acta Physica Sinica, 2010, 59, 8098. | 0.2 | 1 |
| 8696 | Chapter 3. Fullerenes, the Building Blocks. RSC Nanoscience and Nanotechnology, 2010, , 109-181. | 0.2 | 0 |
| 8697 | Nanoporous Template Synthesized Nanotubes for Bio-related Applications. Advanced Topics in Science and Technology in China, 2010, , 165-200. | 0.0 | 0 |
| 8698 | Using Carbon Nanowalls as Templates. , 2010, , 131-157. | | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8699 | Nanorobotics. , 2010, , 1633-1659. | | 2 |
| 8700 | Thermoelectric Power in Ultrathin Films and Quantum Wires Under Large Magnetic Field. Springer Series in Materials Science, 2010, , 95-144. | 0.4 | 0 |
| 8701 | Magnetic Properties of Nanowires guided by Carbon Nanotubes. , 0, , . | | 2 |
| 8702 | Electrochemical Immobilization of Osmium Complex onto the Carbon Nano-Tube Electrodes and its Application for Glucose sensor. Journal of the Korean Electrochemical Society, 2010, 13, 50-56. | 0.1 | 0 |
| 8703 | Hydrogen sensor of SWNT-PdOxsystem using the vacuum filtering deposition method. Journal of Sensor Science and Technology, 2010, 19, 87-91. | 0.1 | 0 |
| 8704 | Morphological Observation of Interaction between PAMAM Dendrimer Modified SWCNT and Pancreatic Cancer Cells. Nano Biomedicine and Engineering, 2010, 2, . | 0.3 | 0 |
| 8705 | Selective landing of semiconducting single-wall carbon nanotubes onto tetrathiafulvalene moiety self-assembled on ITO substrate. Journal of Analytical Science and Technology, 2010, 1, 74-77. | 1.0 | 0 |
| 8706 | The Study of Modified van der Waals Interactions on Free Vibration of Multi-walled Carbon Nanotubes Using Multi-elastic Beam Model. Transactions of the Korean Society for Noise and Vibration Engineering, 2010, 20, 390-396. | 0.1 | 0 |
| 8708 | Characteristics of Micro EDM using Wire Electrical Discharge Grinding for Al ₂ O ₃ /CNTs Hybrid Materials. Journal of Korean Powder Metallurgy Institute, 2010, 17, 319-325. | 0.2 | 2 |
| 8709 | Synthesis of High-Quality Single-Walled Carbon Nanotube Fibers by Vertical CVD. Applied Science and Convergence Technology, 2010, 19, 377-384. | 0.3 | 2 |
| 8711 | Coarse-Graining Parameterization and Multiscale Simulation of Hierarchical Systems. Part II. , 2010, , 35-68. | | 0 |
| 8712 | Field Emission Characteristics of Double-walled Carbon Nanotubes Related with Hydrochloric Acid Treatment. Applied Science and Convergence Technology, 2011, 20, 70-76. | 0.3 | 0 |
| 8713 | Laser-induced growth of diameter-modulated single-walled carbon nanotubes. , 2011, , . | | 0 |
| 8714 | Study on Formation of FePd Nano-dot Using Agglomeration of Fe/Au Bilayer. Applied Science and Convergence Technology, 2011, 20, 7-13. | 0.3 | 1 |
| 8715 | Nano Reinforcements in Surface Coatings and Composite Interphases. , 0, , . | | 0 |
| 8716 | Boiling Heat Transfer Coefficients of Nanofluids Containing Carbon Nanotubes up to Critical Heat Fluxes. Transactions of the Korean Society of Mechanical Engineers, B, 2011, 35, 665-676. | 0.0 | 1 |
| 8717 | Modification of Anthraquinone-2-Carboxylic Acid with Multiwalled Carbon Nanotubes and Electrocatalytic Behavior of Prepared Nanocomposite Towards Oxygen Reduction. , 2012, , 399-410. | | 1 |
| 8719 | Synthesis and Design. Springer Series in Materials Science, 2012, , 399-424. | 0.4 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8720 | The EEM in Nanowires of Non-Parabolic Semiconductors. Springer Series in Materials Science, 2012, , 175-224. | 0.4 | 0 |
| 8722 | Multi-Walled Carbon Nanotubes Effect on Mechanical Properties of High Performance Fiber/Epoxy Nanocomposite. Advanced Structured Materials, 2012, , 447-454. | 0.3 | 0 |
| 8723 | Investigation of Adsorption Isotherm of Oxymetholone as a Kind of Steroid Drug by Multi-Wall Carbon Nanotube. Oriental Journal of Chemistry, 2012, 28, 297-301. | 0.1 | 0 |
| 8724 | Carbon Nanotubes and Their Composites for Viscoelastic Applications. , 2012, , 459-484. | | 0 |
| 8725 | TOBACCO MOSAIC VIRUS BIOTEMPLATED ELECTROCHEMICAL BIOSENSOR. , 2012, , . | | 0 |
| 8726 | Effect of Edge Passivated by Hydrogen on the Transport Properties of Finite-Size Metallic Carbon Nanotube-Based Molecular Devices. , 2012, , . | | 0 |
| 8728 | Analysis of Trace Copper Metal at The Electrode Consisting of Carbon Nanotube using Stripping Voltammetry. Korean Chemical Engineering Research, 2012, 50, 933-937. | 0.2 | 2 |
| 8729 | Recent Progress on the Synthesis and Applications of Carbon Nanotubes. , 2012, , 639-663. | | 0 |
| 8730 | Laser-Irradiation-Induced Enrichment of Metallic Single-Walled Carbon Nanotubes from As-Synthesized Nanotubes Individually Dispersed in Aqueous Solution. Japanese Journal of Applied Physics, 2012, 51, 105101. | 0.8 | 0 |
| 8731 | Science and Applications of Photomechanical Actuation of Carbon Nanostructures. , 2012, , 177-236. | | 0 |
| 8732 | Photocatalytic Degradation of Methylene Blue by Pd/MWCNT/TiO ₂ under UV and Visible Light Irradiation. Journal of the Korean Ceramic Society, 2012, 49, 511-517. | 1.1 | 0 |
| 8733 | The use of Interfacial Graphene to Carbon nanotube Point emitter for Field Emission Electric Propulsion. Journal of the Korean Society for Aeronautical & Space Sciences, 2012, 40, 1004-1009. | 0.0 | 0 |
| 8734 | CCVD Synthesis of Carbon Nanotubes. Engineering Materials, 2013, , 43-60. | 0.3 | 0 |
| 8735 | Immobilization of Cinchona Quaternary Ammonium Salts as the Chiral Phase Transfer Catalysts on Multi-walled Carbon Nanotubes and Their Application in Enantioselective Alkylation. Chinese Journal of Catalysis, 2013, 33, 891-897. | 6.9 | 0 |
| 8736 | Alignment of Carbon Nanotubes via EHD-Driven Patterning of Nanocomposites. Springer Theses, 2013, , 63-78. | 0.0 | 0 |
| 8737 | Fernziele der Nanoelektronik. Acatech-Diskussion, 2013, , 149-223. | 0.2 | 0 |
| 8738 | Related Technologies on Micro-Nanorobotic Manipulation Systems. , 2013, , 61-106. | | 1 |
| 8739 | Structural Defects on the Electronic Transport Properties of Carbon-Based Nanostructures. Carbon Materials, 2013, , 77-103. | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8740 | Fabrication and Property Investigation of Carbon Nanotube-Clamped Metal Atomic Chains. Springer Theses, 2013, , 55-71. | 0.0 | 0 |
| 8745 | Molecular Combing of DNA and Carbon Nanotubes by a Moving Meniscus. , 2013, , . | | 0 |
| 8746 | Eigenvalue analysis of graphene plates embedded into the elastic Pasternak foundation. , 2013, , 329-332. | | 0 |
| 8747 | Application of Nanotechnology in Photovoltaic. Journal of Materials Science and Nanotechnology, 2013, 1, . | 0.2 | 1 |
| 8748 | Synthesis and Characterization of Carbon Nanotubes Reinforced Hydroxyapatite Composite. Indian Journal of Science and Technology, 2013, 6, 1-6. | 0.5 | 4 |
| 8749 | Carbon Nanotubes for Photovoltaics. Advances in Chemical and Materials Engineering Book Series, 2014, , 268-311. | 0.2 | 0 |
| 8751 | Environmental Interactions of Geo- and Bio-Macromolecules with Nanomaterials. , 2014, , 257-290. | | 0 |
| 8752 | Thermal Buckling of Carbon Nanotubes. , 2014, , 4897-4903. | | 0 |
| 8753 | Computational Study of Allotropic Structures of Carbon by Density Functional Theory (DTF). IngenierÃa Y Ciencia, 2014, 10, 145-162. | 0.3 | 0 |
| 8755 | Nanoporous Materials and Confined Liquids. , 2014, , 99-120. | | 2 |
| 8756 | Carbon Nano-Onions: Synthesis, Characterization, and Applications. , 2014, , 1-11. | | 0 |
| 8757 | Carbon Nanotubes: A New Methodology for Enhanced Squeeze Lifetime CNTs. , 2014, , . | | 0 |
| 8758 | Nanotubes: Functionalization. , 0, , 3321-3337. | | 0 |
| 8760 | Poly(Ethylene-Co-Vinyl Acetate) Composites in Nanoscale: Research Methodology and Developments. , 2014, , 39-78. | | 0 |
| 8761 | Carbon Nanotubes for Drug Delivery Applications. , 2014, , 233-248. | | 0 |
| 8763 | Preparation and Characterization of Hybrid Ozone Resistance Coating Film Using Carbon Nanotube. Porrima, 2014, 38, 573-579. | 0.0 | 1 |
| 8766 | Recent Advances in Carbon Nanotube Flow-Sensor: A Review. International Journal of Innovative Research in Science, Engineering and Technology, 2014, 03, 16703-16706. | 0.4 | 0 |
| 8767 | Charpy Impact Resistances of Carbon Nanotubes Reinforced High Density Polyethylene Nanocomposite Materials. International Journal of Materials Mechanics and Manufacturing, 0, , 247-250. | 0.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8768 | The Properties of Vertically-Oriented Graphene. , 2015, , 11-18. | | 4 |
| 8770 | Preparation, Properties, and Processibility of Nanocomposites Based on Poly(ethylene-Co-Methyl) Tj ETQq1 1 0.784314 rgBT (Overloc | | 0 |
| 8771 | Thermal characterization of carbon nanotube fibers based on steady-state electro-Raman-thermal technique. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 126501. | 0.2 | 0 |
| 8772 | NANOELETRĂ”NICA. , 2015, , 41-82. | | 0 |
| 8773 | THE INVESTIGATION OF EXPERIMENTAL COMBUSTION ENGINE ELEMENTS CONDUCTED WITH USE OF ATOMIC PHYSICS METHODS. Journal of KONES, 2015, 22, 147-154. | 0.2 | 0 |
| 8775 | A Detailed Review on Behavior of Ethylene-Vinyl Acetate Copolymer Nanocomposite Materials. , 2015, , 89-123. | | 0 |
| 8778 | Active and stable platinum/ionic liquid/carbon nanotube electrocatalysts for oxidation of methanol. ScienceOpen Research, 2014, . | 0.6 | 0 |
| 8779 | Role of Top and Interlayer Metal Nanoparticle Grafting on CNTs: Improved Raman Scattering and Electron Emission Investigations. , 2015, , 58-81. | | 0 |
| 8781 | The application of carbon nanotubes for reducing the friction losses of internal combustion engine. Silniki Spalinowe, 2015, 162, 64-77. | 0.4 | 2 |
| 8782 | Synthesis of Carbon Nanotubes by CVD over Fe Catalyst Prepared in Spin Coating on SiO ₂ /p-Si(100). International Letters of Chemistry, Physics and Astronomy, 0, 57, 7-12. | 0.0 | 0 |
| 8783 | Multiwalled carbon nanotube destruction in the radiation damages to electron irradiation. Nuclear Physics and Atomic Energy, 2015, 16, 230-237. | 0.2 | 0 |
| 8784 | Advances in liquid crystalline nano-carbon materials: preparation of nano-carbon based lyotropic liquid crystal and their fabrication of nano-carbon fibers with liquid crystalline spinning. Carbon Letters, 2015, 16, 223-232. | 3.3 | 1 |
| 8786 | Nanomaterials: Conducting Polymers and Sensing. , 0, , 5311-5335. | | 0 |
| 8787 | Growth of One-Dimensional Nanomaterials in the ETEM. , 2016, , 213-235. | | 2 |
| 8788 | Fundamental Structural, Electronic, and Chemical Properties of Carbon Nanostructures: Graphene, Fullerenes, Carbon Nanotubes, and Their Derivatives. , 2016, , 1-84. | | 0 |
| 8789 | Effects of Carbon Nanotube Addition on the Mechanical Properties of Dental Glassionomer Cement. Korean Journal of Dental Materials, 2016, 43, 43-50. | 0.2 | 2 |
| 8790 | Carbon Electronics. , 2016, , 93-118. | | 0 |
| 8791 | Carbon Nanotube-/Graphene-Reinforced Ceramic Composites. , 2017, , 599-625. | | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8793 | CNT Buckypaper-Polyurethane Composite with Enhanced Strength, Toughness and Flexible. Composites Research, 2016, 29, 161-166. | 0.1 | 0 |
| 8794 | Chapter 7 Cement-Based Electromagnetic Functional Materials. , 2016, , 273-344. | | 0 |
| 8795 | OVERVIEW OF SINGLE WALLED CARBON NANOTUBES AND TOXICITY PROFILE. International Journal of Research in Engineering and Technology, 2016, 05, 19-23. | 0.1 | 0 |
| 8796 | Fibers for Polymer Matrix Composites. , 2016, , 77-110. | | 0 |
| 8798 | Nanotechnology in Engineered Membranes. , 2017, , 802-824. | | 0 |
| 8799 | Studies of quasi one-dimensional nanostructures at high pressures. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 039101. | 0.2 | 1 |
| 8800 | Elastomeric Spring Actuator Using Nylon Wires. Lecture Notes in Computer Science, 2017, , 540-547. | 1.0 | 0 |
| 8801 | Thermal Transport in Multi-Walled Carbon Nanotubes. Research & Reviews Journal of Material Sciences, 2017, 05, . | 0.1 | 0 |
| 8802 | Challenge - Nanotechnology in Engineering. International Journal of Petrochemical Science & Engineering, 2017, 2, . | 0.2 | 0 |
| 8803 | Nanomaterials: Conducting Polymers and Sensing. , 2017, , 1035-1059. | | 0 |
| 8804 | Effect of the Support on Structure of the Multi-Walled Carbon Nanotubes Grown By CCVD over Nickel Nanoparticles. Journal of Advances in Nanomaterials, 2017, 2, . | 0.4 | 0 |
| 8805 | Release of chemisorbed hydrogen from carbon nanotubes: Insights from ab-initio molecular dynamics simulations. International Journal of Hydrogen Energy, 2017, 42, 21191-21197. | 3.8 | 2 |
| 8806 | Micro/Nanoelectromechanical Systems. , 2017, , 297-318. | | 0 |
| 8807 | THE INVESTIGATION ON ELECTRICAL AND OPTICAL PROPERTIES OF CdO/CNT NANOCOMPOSITE. Turkish Journal of Engineering, 2017, 1, 18-22. | 0.7 | 0 |
| 8808 | Experimental Procedures and Materials. Springer Series in Materials Science, 2018, , 39-62. | 0.4 | 0 |
| 8809 | Background of the Study. Springer Series in Materials Science, 2018, , 13-37. | 0.4 | 0 |
| 8810 | Renewable Bio-anodes for Microbial Fuel Cells. , 2018, , 1-16. | | 1 |
| 8811 | Eco-polymer and Carbon Nanotube Composite: Safe Technology. , 2018, , 1-16. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8812 | Basic Electrochemistry of CPs. , 2018, , 283-309. | | 0 |
| 8813 | Nitrogen Doping of Mesoporous Carbon Materials. Springer Theses, 2018, , 35-47. | 0.0 | 1 |
| 8814 | Miscellaneous CNT Applications. , 2018, , 89-90. | | 0 |
| 8815 | CNT Applications in Specialized Materials. , 2018, , 45-48. | | 0 |
| 8816 | Structural Aspects and Morphology of CPs. , 2018, , 389-402. | | 0 |
| 8817 | Electronic Structure and Conduction Models of Graphene. , 2018, , 101-106. | | 0 |
| 8818 | Electrochromics. , 2018, , 601-624. | | 1 |
| 8819 | Classes of CPs: Part 1. , 2018, , 489-507. | | 0 |
| 8820 | Electro-Optic and Optical Devices. , 2018, , 671-684. | | 2 |
| 8821 | Conduction Models and Electronic Structure of CNTs. , 2018, , 11-16. | | 0 |
| 8822 | Miscellaneous Applications. , 2018, , 695-715. | | 0 |
| 8823 | CNT Applications in the Environment and in Materials Used in Separation Science. , 2018, , 81-87. | | 0 |
| 8824 | Graphene Applications in Displays and Transparent, Conductive Films/Substrates. , 2018, , 147-148. | | 0 |
| 8825 | Classes of CPs: Part 2. , 2018, , 509-545. | | 0 |
| 8826 | Introducing Conducting Polymers (CPs). , 2018, , 159-174. | | 0 |
| 8827 | Syntheses and Processing of CPs. , 2018, , 311-388. | | 0 |
| 8828 | EFFECT OF MULTI PASS HIGH ENERGY MILLING ON MORPHOLOGY AND RHEOLOGICAL PROPERTIES OF CARBON NANOTUBES. Metallurgi, 2014, 29, 103. | 0.1 | 0 |
| 8829 | Physical, Mechanical, and Thermal Properties of CNTs. , 2018, , 33-36. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8830 | CNT Applications in Electrical Conductors, "Quantum Nanowires," and Potential Superconductors. , 2018, , 77-79. | | 1 |
| 8831 | Toxicology of CNTs. , 2018, , 37-39. | | 0 |
| 8832 | Synthesis, Purification, and Chemical Modification of CNTs. , 2018, , 17-31. | | 0 |
| 8833 | Introducing Graphene. , 2018, , 93-99. | | 0 |
| 8835 | Conduction Models and Electronic Structure of CPs. , 2018, , 175-249. | | 1 |
| 8836 | Brief, General Overview of Applications. , 2018, , 123-124. | | 0 |
| 8837 | Electrochemomechanical, Chemomechanical, and Related Devices. , 2018, , 685-693. | | 0 |
| 8838 | Displays, Including Light-Emitting Diodes (LEDs) and Conductive Films. , 2018, , 625-654. | | 0 |
| 8841 | Dnel yaylar ile mesnetlenmi bir karbon nanotpn yerel olmayan Timoshenko kiri teorisine gre serbest titreim analizi. Balkesir niversitesi Fen Bilimleri Enstits Dergisi, 0, , 1-14. | 0.2 | 1 |
| 8842 | Peculiarities of Electrical Conductivity of Metal/Carbon Nanotubes Array. Metallofizika I Noveishie Tekhnologii, 2018, 40, 749-758. | 0.2 | 2 |
| 8843 | Preparation of Element-Block Materials Using Inorganic Nanostructures and Their Applications. , 2019, , 219-241. | | 0 |
| 8844 | New High-energy Anode Materials. , 2019, , 1-25. | | 1 |
| 8845 | Nanotechnology-Based Stem Cell Tissue Engineering with a Focus on Regeneration of Cardiovascular Systems. , 2019, , 1-67. | | 1 |
| 8846 | Renewable Bio-anodes for Microbial Fuel Cells. , 2019, , 1167-1182. | | 0 |
| 8847 | Eco-polymer and Carbon Nanotube Composite: Safe Technology. , 2019, , 2827-2842. | | 1 |
| 8848 | Single-Walled Carbon Nanotubes/Poly Vinyl Chloride Nanocomposites and its Properties. Revista Materia, 2019, 24, . | 0.1 | 1 |
| 8849 | Toxicity of Nanomaterials in Plants and Environment. Nanotechnology in the Life Sciences, 2019, , 377-407. | 0.4 | 2 |
| 8850 | Pattered CNT-based composite films for optoelectronic applications. , 2019, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8851 | Multi-Physics and CFD Analysis of an Enclosed Coaxial Carbon Nanotube Speaker for Automotive Exhaust Noise Cancellation. , 0, , . | | 0 |
| 8853 | Biological activity of carbon nanoparticles produced in combustion process. Silniki Spalinowe, 2019, 179, 269-273. | 0.4 | 0 |
| 8855 | Electronâ€“phonon scattering and mean free paths in D-carbon. Physical Chemistry Chemical Physics, 2020, 22, 4010-4014. | 1.3 | 0 |
| 8856 | Carbon nanotubes supported N-promoted Pd-based catalysts for acetylene hydrochlorination. E3S Web of Conferences, 2020, 213, 01004. | 0.2 | 0 |
| 8857 | Mn KatkÄ±lÄ± CdO FotodiyotlarÄ±n Ä°letkenlik ve ArayÄ±z Durum YoÄŸunluÄŸu Karakteristikleri. DÄ¼zce Ä°niversitesi Bilim Ve Teknoloji Dergisi, 0, , . | 0.2 | 0 |
| 8858 | Electronic transport in penta-graphene nanoribbon devices using carbon nanotube electrodes: A computational study. Nanosystems: Physics, Chemistry, Mathematics, 2020, 11, 176-182. | 0.2 | 1 |
| 8859 | Prospects for Using Carbon Nanotubes in Precision Instrument Engineering. Materials Science Forum, 0, 992, 770-774. | 0.3 | 0 |
| 8860 | Nonlinear Vibration of a Pre-Stressed Water-Filled Single-Walled Carbon Nanotube Using Shell Model. Nanomaterials, 2020, 10, 974. | 1.9 | 2 |
| 8861 | Length-Selective Dielectrophoretic Manipulation of Single-Walled Carbon Nanotubes. Analytical Chemistry, 2020, 92, 8901-8908. | 3.2 | 6 |
| 8862 | Theoretical study of interaction between aspirine drug and Al-soped graphene nanostructure toward designing of suitable nanocarrier for drug delivery. Medical Sciences Journal, 2020, 30, 141-154. | 0.1 | 2 |
| 8863 | Preparation and Characterization of Î²-glucosidase Films for Stabilization and Handling in Dry Configurations. Current Pharmaceutical Biotechnology, 2020, 21, 741-747. | 0.9 | 0 |
| 8864 | Mechanical properties of graphene-CNT van der Waals heterostructures: a molecular dynamics study. Nanotechnology, 2020, 31, 455707. | 1.3 | 2 |
| 8865 | Terahertz Detectors Based on Carbon Nanomaterials. Advanced Functional Materials, 2022, 32, 2107499. | 7.8 | 19 |
| 8867 | QSPR Modeling of Adsorption of Pollutants by Carbon Nanotubes (CNTs). Methods in Pharmacology and Toxicology, 2020, , 477-511. | 0.1 | 0 |
| 8868 | Biological perspectives of hybrid nanostructures. , 2020, , 33-55. | | 0 |
| 8869 | Research Progress on Advanced Carbon Materials as Pt Support for Proton Exchange Membrane Fuel Cells. Wujì Cailiao Xuebao/Journal of Inorganic Materials, 2020, 35, 407. | 0.6 | 5 |
| 8870 | Introduction to PVA-Based Bionanocomposite Films. , 2021, , 1-40. | | 1 |
| 8871 | High-Energy X-Ray Diffraction Study of Multiwalled Carbon NanotubesÄ±Fabricated by Arc Discharge Plasma Process. SSRN Electronic Journal, 0, , . | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8873 | Enhanced microwave dissipation features of BiFe _{0.8} Co _{0.1} Mn _{0.1} O ₃ /MWCNTs composite decorate of polythiophene. Journal of Magnetism and Magnetic Materials, 2022, 545, 168724. | 1.0 | 20 |
| 8875 | CHAPTER 3. Properties and Applications of Carbon Nanotubes. RSC Nanoscience and Nanotechnology, 2021, , 164-239. | 0.2 | 0 |
| 8876 | Conductive Nanostructured Scaffolds for Guiding Tissue Regeneration. , 2020, , 39-90. | | 0 |
| 8877 | Mechanical Behaviour of Carbon Nanotubes. Advances in Mechatronics and Mechanical Engineering, 2020, , 32-46. | 1.0 | 0 |
| 8878 | Hydrogen Adsorption Mechanism of SiC Nanocones. Graphene, 2020, 09, 1-12. | 0.3 | 1 |
| 8879 | New ultrathin medical coating of PVP-based medical biliary stents with addition of carbon nanotubes. AIP Conference Proceedings, 2020, , . | 0.3 | 0 |
| 8880 | Advances in Carbon-Based Nanocomposites for Deep Adsorptive Desulfurization. Advances in Chemical and Materials Engineering Book Series, 2020, , 63-91. | 0.2 | 0 |
| 8881 | Carbon nanotube-based nanohybrids for agricultural and biological applications. , 2020, , 505-535. | | 2 |
| 8882 | First-principles study of atomic bond nature of one-dimensional carbyne chain under different strains. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 246802. | 0.2 | 1 |
| 8883 | Recent progress on stretchable conductors. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 177401. | 0.2 | 5 |
| 8884 | Fabrication and evaluation of stacked polymer actuator and divided polymer actuator using the electrospinning method. Japanese Journal of Applied Physics, 2020, 59, SIIF02. | 0.8 | 2 |
| 8886 | Electrical and Structural Properties of HDPE/MWCNT/PE-g-MAH Nanocomposites Prepared Using Solution Mixing and Hot Compaction Two-Step Approach. Current Nanoscience, 2021, 17, . | 0.7 | 1 |
| 8887 | Size-dependent analysis of functionally graded carbon nanotube-reinforced composite nanoshells with double curvature based on nonlocal strain gradient theory. Engineering With Computers, 2023, 39, 109-128. | 3.5 | 5 |
| 8888 | Effects of ultrasonication on the microstructures and mechanical properties of carbon nanotube films and their based composites. Composites Science and Technology, 2022, 221, 109136. | 3.8 | 13 |
| 8889 | Effect of in-situ growth and separate addition method in hydrothermal process on the structural and magnetic properties of CoNiFe ₂ O ₄ @functionalized CNTs nanocomposite. Applied Physics A: Materials Science and Processing, 2021, 127, 1. | 1.1 | 2 |
| 8890 | Numerical Investigation of Non-Fourier Flux Theory with Chemical Action on Maxwell Radiating Nanoliquid: A Biomedical Application. Lecture Notes in Mechanical Engineering, 2021, , 793-810. | 0.3 | 0 |
| 8891 | Nanorevolution and Professionalizing University Education. , 0, , 138-153. | | 0 |
| 8892 | Nanorevolution and Professionalizing University Education. , 0, , 1494-1509. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8893 | Nanotechnology in Engineered Membranes. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 50-71. | 0.3 | 0 |
| 8894 | Self-Repair Technology for Global Interconnects on SoCs. Advances in Computer and Electrical Engineering Book Series, 0, , 195-215. | 0.2 | 0 |
| 8895 | Calculation of the Density Profile of Liquid Located in the Multi-Walled Carbon Nanotube. , 2004, , 23-30. | | 0 |
| 8896 | CARBON NANOTUBES AS POLYMER BUILDING BLOCKS. , 2006, , 223-224. | | 0 |
| 8897 | Characterization and Handling of Carbon Nanotubes. , 2008, , 203-235. | | 1 |
| 8900 | Conducting Polymer Nanostructures. , 2008, , 88-157. | | 2 |
| 8901 | Integrated carbon nanotubes for novel liquid crystal displays. , 2020, , . | | 1 |
| 8902 | Nanobulges: A Duplex Nanosystem for Multidimensional Applications. Current Nanoscience, 2020, 16, 668-675. | 0.7 | 2 |
| 8904 | Colloidal stability of carbon nanotubes in an aqueous dispersion of phospholipid. International Journal of Nanomedicine, 2007, 2, 761-6. | 3.3 | 19 |
| 8906 | Mechanical properties of single-walled carbon nanotube reinforced polymer composites with varied interphase's modulus and thickness: A finite element analysis study. Computational Materials Science, 2016, 114, . | 1.4 | 0 |
| 8907 | DFT Study of Se-Doped Nanocones as Highly Efficient Hydrogen Storage Carrier. Graphene, 2021, 10, 49-60. | 0.3 | 4 |
| 8908 | Spalling mechanism of carbon nanotube concrete at elevated temperature. Construction and Building Materials, 2022, 314, 125594. | 3.2 | 6 |
| 8909 | Ultraviolet light tunable single walled carbon nanotubes/n-Si junction diode. Synthetic Metals, 2022, 283, 116967. | 2.1 | 4 |
| 8910 | Progress and prospects for low-grade heat recovery electrochemical technologies. Sustainable Energy Technologies and Assessments, 2022, 49, 101802. | 1.7 | 9 |
| 8911 | Effects of thermal annealing on the distribution of boron and phosphorus in p-i-n structured silicon nanocrystals embedded in silicon dioxide. Nanotechnology, 2022, 33, 075709. | 1.3 | 5 |
| 8912 | Synthetic Approach to Rice Waste-Derived Carbon-Based Nanomaterials and Their Applications. Nanomanufacturing, 2021, 1, 109-159. | 1.8 | 18 |
| 8913 | High-strength Al matrix composites reinforced with uniformly dispersed nanodiamonds. Journal of Alloys and Compounds, 2021, , 162917. | 2.8 | 9 |
| 8914 | Twisted laminar superconducting composite: MgB2 embedded carbon nanotube yarns. Bulletin of Materials Science, 2021, 44, 1. | 0.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8915 | Application of Graphdiyne and Its Analogues in Photocatalysis and Photoelectrochemistry. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 1195-1212. | 1.3 | 10 |
| 8916 | Elaborate manipulation on CNT intertube heat transport by using a polymer knob. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122280. | 2.5 | 8 |
| 8917 | Energy Conversion and Storage in Fuel Cells and Super-Capacitors from Chemical Modifications of Carbon Allotropes: State-of-Art and Prospect. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 1-25. | 2.0 | 41 |
| 8918 | What is an artificial muscle? A comparison of soft actuators to biological muscles. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 011001. | 1.5 | 27 |
| 8919 | An approach for quantum capacitance of graphene, carbon nanotube, silicene and hexagonal boron nitride nanoscale supercapacitors by non-equilibrium Green's function method. <i>FlatChem</i> , 2022, 31, 100313. | 2.8 | 1 |
| 8920 | Experimental and Simulation Research on the Preparation of Carbon Nano-Materials by Chemical Vapor Deposition. <i>Materials</i> , 2021, 14, 7356. | 1.3 | 5 |
| 8921 | Carbon dots for virus detection and therapy. <i>Mikrochimica Acta</i> , 2021, 188, 430. | 2.5 | 34 |
| 8922 | Synthesis of silymarin-selenium nanoparticle conjugate and examination of its biological activity in vitro. <i>ADMET and DMPK</i> , 2021, 9, 255-266. | 1.1 | 8 |
| 8923 | Time-dependent resonating plasma treatment of carbon nanotubes for enhancing the electron field emission properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 1211-1227. | 1.1 | 5 |
| 8924 | Nonlinear Vibration Analysis of Curved Piezoelectric-Layered Nanotube Resonator. <i>Energies</i> , 2021, 14, 8031. | 1.6 | 2 |
| 8925 | Degradation of Lithium-Ion Batteries in an Electric Transport Complex. <i>Energies</i> , 2021, 14, 8072. | 1.6 | 57 |
| 8926 | Fabrication of Aluminum/Single-Walled Carbon Nanotube Oxidation Films through CNT-Added Surface Treatment. <i>Journal of Surface Engineered Materials and Advanced Technology</i> , 2021, 11, 15-27. | 0.2 | 0 |
| 8927 | Bifunctional Carbon Nanotube Yarns Fabricated Using Biscrolling Technology for Pseudocapacitors and Paramagnetic Actuators. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 8928 | Mechanical Properties of Carbon Nanotube-Polymer Composites. , 2021, , 1-22. | | 0 |
| 8929 | Novel ionic bioartificial muscles based on ionically crosslinked multi-walled carbon nanotubes-mediated bacterial cellulose membranes and PEDOT:PSS electrodes. <i>Smart Materials and Structures</i> , 2022, 31, 025023. | 1.8 | 14 |
| 8930 | Nonlinear static simulation for thermal post-buckling analysis of composite annular system coupled with shape memory alloy fibers. <i>Waves in Random and Complex Media</i> , 0, , 1-79. | 1.6 | 0 |
| 8931 | Relaxation of Electrical Resistance in Carbon Nanotube Polymer Composites. , 2022, , . | | 1 |
| 8932 | Biosensing with Fluorescent Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, , . | 7.2 | 90 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 8933 | Thin film composite membranes for postcombustion carbon capture: Polymers and beyond. <i>Progress in Polymer Science</i> , 2022, 126, 101504. | 11.8 | 32 |
| 8934 | Field-induced self-assembly formation of carbon nanotube filaments triggered via gas discharge breakdown. <i>Vacuum</i> , 2022, 198, 110877. | 1.6 | 2 |
| 8935 | Polymer/surfactant mixtures as dispersants and non-covalent functionalization agents of multiwalled carbon nanotubes: Synergism, morphological characterization and molecular picture. <i>Journal of Molecular Liquids</i> , 2022, 347, 118338. | 2.3 | 13 |
| 8936 | Synergistic oxidation-filtration process of electroactive peroxydisulfate with a cathodic composite CNT-PPy/PVDF ultrafiltration membrane. <i>Water Research</i> , 2022, 210, 117971. | 5.3 | 44 |
| 8937 | One-dimensional polythiophene/multi-walled carbon nanotube composite cathodes for rechargeable magnesium battery: Evidence of improved stability and electrochemically induced rearrangement in electrode morphology. <i>Electrochimica Acta</i> , 2022, 404, 139707. | 2.6 | 3 |
| 8938 | Photodynamic therapy associated with nanomedicine strategies for treatment of human squamous cell carcinoma: A systematic review and meta-analysis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 40, 102505. | 1.7 | 6 |
| 8939 | Carbon materials in persulfate-based advanced oxidation processes: The roles and construction of active sites. <i>Journal of Hazardous Materials</i> , 2022, 426, 128044. | 6.5 | 87 |
| 8940 | Microstructure, wettability, and mechanical properties of ADC12 alloy reinforced with TiO ₂ -coated carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163181. | 2.8 | 11 |
| 8941 | Bipyridine-based polybenzimidazole as a nitrogen-rich ionomer and a platinum nanoparticle support for enhanced fuel cell performance. <i>Fuel</i> , 2022, 312, 122954. | 3.4 | 2 |
| 8942 | Adsorptive removal of organic dyes via porous materials for wastewater treatment in recent decades: A review on species, mechanisms and perspectives. <i>Chemosphere</i> , 2022, 293, 133464. | 4.2 | 146 |
| 8943 | Two-dimensional carbon nanotube woven highly-stretchable film with strain-induced tunable impacting performance. <i>Carbon</i> , 2022, 189, 539-547. | 5.4 | 7 |
| 8944 | Experimental study of thiophene and ferrocene in synthesis of single-walled carbon nanotubes in rich premixed hydrogen/air flames. <i>Combustion and Flame</i> , 2022, 238, 111939. | 2.8 | 9 |
| 8946 | Analysis of Dilatation Waves Propagation in an Irregular Single-Walled Carbon Nanotube Under Initially Stresses. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1263-1270. | 0.1 | 0 |
| 8947 | Enhanced Catalytic Activity of Boron Nitride Nanotubes by Encapsulation of Nickel Wire Toward O ₂ Activation and CO Oxidation: A Theoretical Study. <i>Frontiers in Chemical Engineering</i> , 2022, 3, . | 1.3 | 1 |
| 8948 | Ion beam joining of similar and dissimilar materials. , 2022, , 79-123. | | 1 |
| 8949 | Importance of Nanotechnology, Various Applications in Electronic Field. <i>Materials Horizons</i> , 2022, , 1-28. | 0.3 | 2 |
| 8950 | The Impact of Background-Level Carboxylated Single-Walled Carbon Nanotubes (SWCNTsâˆ’COOH) on Induced Toxicity in <i>Caenorhabditis elegans</i> and Human Cells. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1218. | 1.2 | 9 |
| 8951 | Nanotechnology and Nanomaterials for Medical Applications. <i>Materials Horizons</i> , 2022, , 63-87. | 0.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8952 | Natural rubber-based polymer blends and composites. , 2022, , 19-37. | | 0 |
| 8953 | Biosensing with Fluorescent Carbon Nanotubes. Angewandte Chemie, 0, , . | 1.6 | 2 |
| 8954 | Thermal smart materials and their applications in space thermal control system. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 014401. | 0.2 | 4 |
| 8955 | Characteristics, properties, synthesis and advanced applications of 2D graphdiyne <i>versus</i> graphene. Materials Chemistry Frontiers, 2022, 6, 528-552. | 3.2 | 14 |
| 8956 | Highly Sensitive H ₂ Sensors Based on Co ₃ O ₄ /PEI-CNTs at Room Temperature. Journal of Nanomaterials, 2022, 2022, 1-8. | 1.5 | 0 |
| 8957 | A Comprehensive Study of Pristine and Calcined f-MWCNTs Functionalized by Nitrogen-Containing Functional Groups. Materials, 2022, 15, 977. | 1.3 | 8 |
| 8958 | Fabrication of Aluminum/Single-Walled Carbon Nanotube Oxidation Films through CNT-Added Surface Treatment. Journal of Surface Engineered Materials and Advanced Technology, 2022, 12, 1-13. | 0.2 | 1 |
| 8959 | Gel Chromatography for Separation of Single-Walled Carbon Nanotubes. Gels, 2022, 8, 76. | 2.1 | 3 |
| 8960 | Facile fabrication of flexible and conductive AuNP/DWCNT fabric with enhanced Joule heating efficiency via spray coating route. Microelectronic Engineering, 2022, 255, 111718. | 1.1 | 11 |
| 8961 | Nonsimilar Modeling and Numerical Simulations of Electromagnetic Radiative Flow of Nanofluid with Entropy Generation. Mathematical Problems in Engineering, 2022, 2022, 1-20. | 0.6 | 13 |
| 8962 | Soft Actuators Based On Carbon Nanomaterials. ChemPlusChem, 2022, 87, e202100437. | 1.3 | 13 |
| 8963 | Objective neuromodulation basis for intrafascicular artificial somatosensation through carbon nanotube yarn electrodes. Journal of Neuroscience Methods, 2022, 369, 109481. | 1.3 | 0 |
| 8964 | Multistage carbon nanotubes grown on foamed nickel with organic solutions as multifunctional high performance electrodes. Diamond and Related Materials, 2022, 123, 108807. | 1.8 | 1 |
| 8965 | Active terahertz liquid crystal device with carbon nanotube film as both alignment layer and transparent electrodes. Carbon, 2022, 190, 376-383. | 5.4 | 18 |
| 8966 | High-energy X-Ray diffraction study of multiwalled carbon nanotubes fabricated by arc discharge plasma process. Carbon, 2022, 191, 75-83. | 5.4 | 8 |
| 8967 | Preparation of coal-based carbon nanotubes using catalytical pyrolysis: A brief review. Fuel Processing Technology, 2022, 229, 107171. | 3.7 | 16 |
| 8968 | Preparation of nanorod-assembled CNT-embedded LiMnPO ₄ hollow microspheres for enhanced electrochemical performance of lithium-ion batteries. CrystEngComm, 2022, 24, 2149-2158. | 1.3 | 4 |
| 8969 | Recent advances and perspectives in carbon-based fillers reinforced Si ₃ N ₄ composite for high power electronic devices. Ceramics International, 2022, 48, 13401-13419. | 2.3 | 14 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 8970 | Size-and-thickness-dependent fracture patterns of hollow core-shell electrodes during lithiation. <i>Extreme Mechanics Letters</i> , 2022, 52, 101647. | 2.0 | 5 |
| 8971 | Growth kinetics of a single-walled carbon nanotube: Exact and simulation results. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 594, 127013. | 1.2 | 2 |
| 8972 | Electrochemical behavior of MnO ₂ /MWCNT nanocomposites for electrode material in supercapacitor. <i>Materials Letters</i> , 2022, 314, 131887. | 1.3 | 5 |
| 8974 | Acid-functionalized single-walled carbon nanotubes alter epithelial tight junctions and enhance paracellular permeability. <i>Journal of Biosciences</i> , 2020, 45, . | 0.5 | 1 |
| 8976 | Pathogen identification through surface marker recognition methods. , 2022, , 355-373. | | 1 |
| 8977 | Dimensional optimization enables high-performance capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6414-6441. | 5.2 | 43 |
| 8979 | Nanomaterials for sensors: Synthesis and applications. , 2022, , 121-168. | | 4 |
| 8980 | Ultrasensitive multiwall carbon nanotube-mesoporous MCM-41 hybrid-based platform for the electrochemical detection of ascorbic acid.. <i>Analyst, The</i> , 2022, , . | 1.7 | 3 |
| 8981 | Micrometer-size double-helical structures from phospholipid-modified carbon nanotubes. <i>Soft Matter</i> , 2022, 18, 2726-2730. | 1.2 | 1 |
| 8982 | The Emerging Role of Ultrasonic Nanotechnology for Diagnosing and Treatment of Diseases. <i>Frontiers in Medicine</i> , 2022, 9, 814986. | 1.2 | 4 |
| 8983 | Study the electron field emission properties of silver nanoparticles decorated carbon nanotubes-based cold-cathode field emitters via post-plasma treatment. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 7191-7211. | 1.1 | 3 |
| 8984 | A review on recent advances in hydrogen peroxide electrochemical sensors for applications in cell detection. <i>Chinese Chemical Letters</i> , 2022, 33, 4133-4145. | 4.8 | 49 |
| 8986 | N-Doped Fluorescent Carbon Nanosheets as a Label-Free Platform for Sensing Bisphenol Derivatives. <i>ACS Applied Nano Materials</i> , 2022, 5, 4908-4920. | 2.4 | 2 |
| 8988 | Generalized Multidentate Ligand Chelating-Grafting Strategy for Construction of Amorphous Metal Oxides-Based Triple-Layered Nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , . | 0.8 | 0 |
| 8989 | Light-Controlled Ionic/Molecular Transport through Solid-State Nanopores and Nanochannels. <i>Chemistry - an Asian Journal</i> , 2022, 17, . | 1.7 | 9 |
| 8990 | Enhancement of the mechanical and thermal transport properties of carbon nanotube yarns by boundary structure modulation. <i>Nanotechnology</i> , 2022, 33, 235707. | 1.3 | 5 |
| 8991 | Electric Properties of Multiwalled Carbon Nanotubes Dispersed in Liquid Crystals and Their Influence on Freedericksz Transitions. <i>Nanomaterials</i> , 2022, 12, 1119. | 1.9 | 7 |
| 8992 | Synthesis of Highly Stretchable and Electrically Conductive Multiwalled Carbon Nanotube/Polymer Nanocomposite Films. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1867-1877. | 2.0 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 8993 | Radiation effect on inclined MHD flow past a super-linear stretching/shrinking sheet including CNTs. Waves in Random and Complex Media, 0, , 1-22. | 1.6 | 6 |
| 8994 | Formation of Graphene Nanoscrolls and Their Electronic Structures Based on <i>Ab Initio</i> Calculations. Journal of Physical Chemistry Letters, 2022, 13, 2500-2506. | 2.1 | 3 |
| 8995 | Effects of midplane carbon nanotube sheet interleave on the strength and impact damage resistance of carbon fiber reinforced polymer composites. Polymer Composites, 2022, 43, 3085-3095. | 2.3 | 5 |
| 8996 | Comprehensive Study on High Purity Semiconducting Carbon Nanotube Extraction. Advanced Electronic Materials, 2022, 8, . | 2.6 | 5 |
| 8997 | Surfactant suspended multi-wall carbon nanotube stability in artificial water samples of different hydrogeochemical families. Applied Geochemistry, 2022, 139, 105252. | 1.4 | 1 |
| 8998 | Recent advances in biomass-derived graphene and carbon nanotubes. Materials Today Sustainability, 2022, 18, 100138. | 1.9 | 27 |
| 8999 | Ionic liquid-based magnetic nanoparticles for magnetic dispersive solid-phase extraction: A review. Analytica Chimica Acta, 2022, 1201, 339632. | 2.6 | 24 |
| 9000 | Selective dispersion of semiconducting single-walled carbon nanotubes with aromatic polyimides. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-10. | 1.0 | 0 |
| 9001 | The Effect of Single-Walled Carbon Nanotubes on UDP-Glucuronosyltransferase 1A Activity in Human Liver. Biological and Pharmaceutical Bulletin, 2022, 45, 446-451. | 0.6 | 0 |
| 9002 | Multiscale 3D finite element analysis of aluminum matrix composites with nanoµ hybrid inclusions. Composite Structures, 2022, 288, 115425. | 3.1 | 12 |
| 9003 | Improved supercapacitor performance based on sustainable synthesis using chemically activated porous carbon. Journal of Alloys and Compounds, 2022, 906, 164287. | 2.8 | 12 |
| 9004 | Stochastic full-range multiscale modeling of thermal conductivity of Polymeric carbon nanotubes composites: A machine learning approach. Composite Structures, 2022, 289, 115393. | 3.1 | 33 |
| 9005 | Study of Mechanical and Optical Properties of Aligned Multiwall Carbon Nanotubes in Poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 0.4 | 0 |
| 9007 | Carbon-Nanotube-Encapsulated-Sulfur Cathodes for Lithium-Sulfur Batteries: Integrated Computational Design and Experimental Validation. Nano Letters, 2022, 22, 441-447. | 4.5 | 12 |
| 9008 | Bilayer Graphene Field Effect Transistor Modelling with Improved Mobility Analysis. , 2021, , . | | 1 |
| 9009 | Myeloid ABCG1 Deficiency Enhances Apoptosis and Initiates Efferocytosis in Bronchoalveolar Lavage Cells of Murine Multi-Walled Carbon Nanotube-Induced Granuloma Model. International Journal of Molecular Sciences, 2022, 23, 47. | 1.8 | 6 |
| 9011 | Flexible Interconnected Cu-Ni Nanoalloys Decorated Carbon Nanotube-Poly(vinylidene fluoride) Piezoelectric Nanogenerator. Advanced Materials Technologies, 2022, 7, . | 3.0 | 7 |
| 9012 | Graphdiyne Electrochemistry: Progress and Perspectives. Small, 2022, 18, e2201135. | 5.2 | 32 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 9013 | Direct-ink writing 3D printed energy storage devices: From material selectivity, design and optimization strategies to diverse applications. <i>Materials Today</i> , 2022, 54, 110-152. | 8.3 | 66 |
| 9014 | Stochastic integrated machine learning based multiscale approach for the prediction of the thermal conductivity in carbon nanotube reinforced polymeric composites. <i>Composites Science and Technology</i> , 2022, 224, 109425. | 3.8 | 42 |
| 9015 | Effect of carbon nanotubes on the microstructure and properties of plasma electrolytic oxidized ceramic coatings on high silicon aluminum alloy. <i>Journal of Materials Research and Technology</i> , 2022, 18, 3541-3552. | 2.6 | 9 |
| 9025 | Electrochemical modification of carbon nanotube fibres. <i>Nanoscale</i> , 2022, 14, 9313-9322. | 2.8 | 2 |
| 9026 | Toxicities of nanomaterials and metals to rice under low atmospheric pressure. <i>Acta Physiologiae Plantarum</i> , 2022, 44, . | 1.0 | 1 |
| 9027 | Poly(methyl methacrylate) Nanocomposite Foams Reinforced with Carbon and Inorganic Nanoparticlesâ€™State-of-the-Art. <i>Journal of Composites Science</i> , 2022, 6, 129. | 1.4 | 8 |
| 9028 | Nanocomposite electrodes using highly conductive sub-millimetre-long single-walled carbon nanotubes pasted with PEDOT:PSS and high-performance actuators. <i>Diamond and Related Materials</i> , 2022, 126, 109039. | 1.8 | 3 |
| 9029 | Nanomaterials Based Monitoring of Food- and Water-Borne Pathogens. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-13. | 1.5 | 7 |
| 9030 | Engineering the band gap of BN and BC2N nanotubes based on T-graphene sheets using a transverse electric field: Density functional theory study. , 2022, 167, 207244. | | 4 |
| 9031 | AFM Analysis on Surface Roughness of Single Crystal Silicon Machined with Carbon Nanotubes Reinforced Composite Micro Grinding Wheel. <i>Silicon</i> , 2022, 14, 7305-7320. | 1.8 | 2 |
| 9032 | The physio-chemical properties and applications of 2D nanomaterials in agricultural and environmental sustainability. <i>Science of the Total Environment</i> , 2022, 837, 155669. | 3.9 | 19 |
| 9033 | Electrocatalytic Water Oxidation: An Overview With an Example of Translation From Lab to Market. <i>Frontiers in Chemistry</i> , 2022, 10, . | 1.8 | 15 |
| 9034 | Role of Junctionless Mode in Improving the Photosensitivity of Sub-10 nm Carbon Nanotube/Nanoribbon Field-Effect Phototransistors: Quantum Simulation, Performance Assessment, and Comparison. <i>Nanomaterials</i> , 2022, 12, 1639. | 1.9 | 10 |
| 9035 | An Experimental Investigation and Optimization of Electromagnetic Interference Shielding Effectiveness of Hybrid Epoxy Nanocomposites. <i>Journal of Electronic Materials</i> , 2022, 51, 3453-3465. | 1.0 | 5 |
| 9036 | The influence of the functional end groups on the properties of polylactide-based materials. <i>Progress in Polymer Science</i> , 2022, 130, 101556. | 11.8 | 25 |
| 9037 | Large negative differential resistance in triangular and square cyclopropyllithium derivative molecule. <i>Physica B: Condensed Matter</i> , 2022, , 413989. | 1.3 | 0 |
| 9038 | Experimental and statistical investigation on the wear and hardness behaviour of multiwalled carbon nanotubes reinforced copper nanocomposites. <i>Wear</i> , 2022, 500-501, 204368. | 1.5 | 2 |
| 9039 | Sensitive determination of uranium using β -cyclodextrin modified graphene oxide and X-ray fluorescence techniques: EDXRF and TXRF. <i>Talanta</i> , 2022, 246, 123501. | 2.9 | 10 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9040 | Betulinic acid and 3-o-acetyl-betulinic acid interactions with external and internal surface of boron-nitride nanotubes: A DFT and MD investigation. Computational and Theoretical Chemistry, 2022, , 113738. | 1.1 | 1 |
| 9041 | Hydrogen Storage: Liquid and Chemical. , 2012, , 144-165. | | 2 |
| 9044 | Unsteady stagnation-point flow of CNTs suspended nanofluid on a shrinking/expanding sheet with partial slip: multiple solutions and stability analysis. Waves in Random and Complex Media, 0, , 1-22. | 1.6 | 12 |
| 9045 | Atomistic growth model with edge diffusion for chiral carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2022, , 115298. | 1.3 | 1 |
| 9046 | Nanochannel Mediated Electrical and Photoconductivity of Metal Organic Nanotubes. ACS Sustainable Chemistry and Engineering, 2022, 10, 6981-6987. | 3.2 | 4 |
| 9047 | 3D carbon nanotubes-graphene hybrids for energy conversion and storage applications. Chemical Engineering Journal, 2022, 446, 137190. | 6.6 | 23 |
| 9048 | Preparation of carbon nanoparticles from activated carbon by aqueous counter collision. Journal of Wood Science, 2022, 68, . | 0.9 | 4 |
| 9049 | Hydrogel Nanoarchitectonics: An Evolving Paradigm for Ultrasensitive Biosensing. Small, 2022, 18, . | 5.2 | 31 |
| 9050 | Fabrication of a Free-standing MWCNT Electrode by Electric Field Force for an Ultra-sensitive MicroRNA-21 Nanosensor. Small, 2022, 18, . | 5.2 | 5 |
| 9051 | Do Carbon Nanotubes and Asbestos Fibers Exhibit Common Toxicity Mechanisms?. Nanomaterials, 2022, 12, 1708. | 1.9 | 15 |
| 9052 | Recent Advances in Carbon-Silica Composites: Preparation, Properties, and Applications. Catalysts, 2022, 12, 573. | 1.6 | 11 |
| 9053 | The Use of Diatomite as a Catalyst Carrier for the Synthesis of Carbon Nanotubes. Nanomaterials, 2022, 12, 1817. | 1.9 | 1 |
| 9054 | On the Number of Fractured Segments of Spaghetti Breaking Dynamics. Theoretical and Applied Mechanics Letters, 2022, , 100347. | 1.3 | 0 |
| 9055 | Single-walled carbon nanotubes promotes wood formation in Populus davidiana – P. bolleana. Plant Physiology and Biochemistry, 2022, 184, 137-143. | 2.8 | 2 |
| 9056 | Micromechanics and multiscale mechanics of carbon nanotubes-reinforced composites. , 0, , 103-139. | | 0 |
| 9058 | Epoxy Nanocomposites with Carbon Nanotubes. ACS Symposium Series, 0, , 169-200. | 0.5 | 1 |
| 9059 | Highly sensitive, weatherability strain and temperature sensors based on AgNPs@CNT composite polyvinyl hydrogel. Journal of Materials Chemistry A, 2022, 10, 15000-15011. | 5.2 | 34 |
| 9060 | Single-atom site catalysts based on high specific surface area supports. Physical Chemistry Chemical Physics, 2022, 24, 17417-17438. | 1.3 | 11 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9061 | Recent advances in fire-retardant carbon-based polymeric nanocomposites through fighting free radicals. <i>SusMat</i> , 2022, 2, 411-434. | 7.8 | 37 |
| 9062 | Investigation on pore structure regulation of activated carbon derived from sargassum and its application in supercapacitor. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 14 |
| 9063 | Electrical and thermal percolation in two-phase materials: A perspective. <i>Journal of Applied Physics</i> , 2022, 131, . | 1.1 | 12 |
| 9064 | Engineering plants with carbon nanotubes: a sustainable agriculture approach. <i>Journal of Nanobiotechnology</i> , 2022, 20, . | 4.2 | 31 |
| 9065 | Recent progress of electroactive interface in neural engineering. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2023, 15, . | 3.3 | 6 |
| 9066 | Overview of the MEMS Pirani Sensors. <i>Micromachines</i> , 2022, 13, 945. | 1.4 | 7 |
| 9067 | Facile synthesis of MWCNT-WO ₃ composites with enhanced photocatalytic degradation of methylene blue dye. <i>Synthetic Metals</i> , 2022, 288, 117117. | 2.1 | 6 |
| 9068 | Stabilities, electronic and piezoelectric properties of blue-phosphorene-phase MXs (M=Ge, Sn; X=S, Se). <i>Tj ETQq</i> 1 1 0.784314 rg BT 3.1 2 | 3.1 | 2 |
| 9069 | Improving performance of fully scalable, flexible transparent conductive films made from carbon nanotubes and ethylene-vinyl acetate. <i>Energy Reports</i> , 2022, 8, 48-60. | 2.5 | 2 |
| 9071 | Contemporary review on carbon nanotube (CNT) composites and their impact on multifarious applications. <i>Nanotechnology Reviews</i> , 2022, 11, 2632-2660. | 2.6 | 21 |
| 9072 | Facile synthesis of rare earth-doped CeF ₃ two-dimensional nanosheets and their application in ratiometric luminescence temperature sensing. <i>CrystEngComm</i> , 0, , . | 1.3 | 4 |
| 9073 | Shape memory polymer-based self-healing composites. , 2022, , 305-383. | | 0 |
| 9075 | Immobilization of a Novel Dye Complex with Copper (II) on Multi-Walled Carbon Nanotubes and Functional Simulation in Dye-Sensitized Solar Cell. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 9076 | Transparent neural implantable devices: a comprehensive review of challenges and progress. <i>Npj Flexible Electronics</i> , 2022, 6, . | 5.1 | 25 |
| 9077 | Construction of anti-counterfeiting pattern on the cellulose film by in-situ regulation strategies. <i>Cellulose</i> , 2022, 29, 7751-7760. | 2.4 | 3 |
| 9078 | 3D Hierarchical Graphene-CNT Anode for Sodium-Ion Batteries: a First-Principles Assessment. <i>Advanced Theory and Simulations</i> , 2022, 5, . | 1.3 | 1 |
| 9079 | Electric field created p-n junction in composite films made from carbon nanotubes, iron (III) sulfate and polyvinyl alcohol. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 1 |
| 9080 | Noncovalent functionalization of carbon nanotubes as a scaffold for tissue engineering. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 9081 | Visualizing Dynamic Mechanical Actions with High Sensitivity and High Resolution by Near-Field Scanning Optical Microscopy. <i>Advanced Materials</i> , 2022, 34, . | 11.1 | 41 |
| 9082 | Superdurable and fire-retardant structural coloration of carbon nanotubes. <i>Science Advances</i> , 2022, 8, . | 4.7 | 16 |
| 9083 | Inverter and Ternary Content-Addressable Memory Based on Carbon Nanotube Transistors Using Chemical Doping Strategy. <i>Advanced Electronic Materials</i> , 2022, 8, . | 2.6 | 3 |
| 9085 | Effect of multi-walled carbon nanotube on reactive powder concrete (RPC) performance in sulfate dry-wet cycling environment. <i>Construction and Building Materials</i> , 2022, 342, 128075. | 3.2 | 10 |
| 9086 | Preparation of cellulose-based chromatographic medium for biological separation: A review. <i>Journal of Chromatography A</i> , 2022, 1677, 463297. | 1.8 | 17 |
| 9087 | Multiple structure integrations of embedded-Co and coated-TiO ₂ nanoparticles in N, Co-codoped carbon nanotubes for high efficiency lithium-sulfur batteries. <i>Applied Surface Science</i> , 2022, 600, 154154. | 3.1 | 2 |
| 9088 | Carbon-based nano lattice hybrid structures: Mechanical and thermal properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 144, 115392. | 1.3 | 4 |
| 9089 | The effect of boron-doped carbon nanotubes blended with active layers in achieving high-efficiency polymer solar cells and X-ray detectors. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166137. | 2.8 | 5 |
| 9090 | Mild acid-based surfactant-free solutions of single-walled carbon nanotubes: Highly viscous, less toxic, and humidity-insensitive solutions. <i>Chemical Engineering Journal</i> , 2022, 450, 137983. | 6.6 | 5 |
| 9091 | Formation of carbon nanotube yarn by gas discharge breakdown. <i>Japanese Journal of Applied Physics</i> , 0, , . | 0.8 | 0 |
| 9092 | An overview of advanced approaches for detecting arsenic at trace levels. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 18, 100730. | 1.7 | 3 |
| 9093 | Grasping the little things: Modeling and simulation of the electromechanical behavior of individual carbon nanotubes and nanotweezers. <i>Carbon Trends</i> , 2022, 9, 100192. | 1.4 | 2 |
| 9094 | CHAPTER 3. Synthesis of Two-dimensional Hybrid Materials, Unique Properties, and Challenges. , 2022, , 64-125. | | 0 |
| 9095 | Experimental study of impact mechanical and microstructural properties of modified carbon fiber reinforced concrete. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 7 |
| 9096 | Investigation of the Advanced Novel Carbon Nanotube (CNT) Yarn and Carbon Nanotube Aluminum/Copper Composite Windings for a Single-Phase Induction Motor. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 14915-14933. | 1.7 | 3 |
| 9097 | Conformational change-modulated spin transport at the single-molecule level in carbon systems—Invited for the Third Carbon Special Topic. <i>Chinese Physics B</i> , 0, , . | 0.7 | 0 |
| 9098 | Dynamical Symmetry Breaking of Infinite-Dimensional Stochastic System. <i>Symmetry</i> , 2022, 14, 1627. | 1.1 | 3 |
| 9099 | Carbon-Related Materials: Graphene and Carbon Nanotubes in Semiconductor Applications and Design. <i>Micromachines</i> , 2022, 13, 1257. | 1.4 | 40 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9100 | Surface Modification of Hollow Nanostructured Materials for Energy Storage. <i>Crystal Growth and Design</i> , 2022, 22, 5755-5769. | 1.4 | 5 |
| 9101 | A Study of Longitudinal Magnetic Field Effect on Critical Buckling Loads of SWCNT Embedded in Kerr Medium Using Nonlocal Euler-Bernoulli Theory. <i>Physical Mesomechanics</i> , 2022, 25, 344-352. | 1.0 | 0 |
| 9102 | Interlocking of Single-Walled Carbon Nanotubes with Metal-Tethered Tetragonal Nanobrackets to Enrich a Few Hundredths of a Nanometer Range in Their Diameters. <i>ACS Nano</i> , 2022, 16, 12500-12510. | 7.3 | 4 |
| 9103 | Monoacetylenes as New Crosslinkers for All-Carbon Living Charge Carbon Nanotubide Organogels. <i>ChemistrySelect</i> , 2022, 7, . | 0.7 | 1 |
| 9104 | Efficient Photocatalytic Nanocomposites of Anatase/Rutile Mixed-Phase Titania with MWCNTs and WC for Visible and UV-A Ranges. <i>Journal of Cluster Science</i> , 2023, 34, 1595-1604. | 1.7 | 2 |
| 9105 | Efficient Selective Sorting of Semiconducting Carbon Nanotubes Using Ultra-Narrow-Band-Gap Polymers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 38056-38066. | 4.0 | 5 |
| 9106 | Carbon nanotubes decorated with Pt as a viable electrocatalyst system using electrochemical atomic layer deposition. <i>Electrochimica Acta</i> , 2022, 429, 140976. | 2.6 | 3 |
| 9107 | Highly resilient antibacterial composite polyvinyl alcohol hydrogels reinforced with CNT-NZnO by forming a network of hydrogen and coordination bonding. <i>Journal of Polymer Research</i> , 2022, 29, . | 1.2 | 7 |
| 9108 | Transient liquid phase (TLP) bonding of Ti-6Al-4V/AISI 304 stainless steel using Cu/CNT composite interlayer. <i>Journal of Materials Research and Technology</i> , 2022, 20, 4052-4065. | 2.6 | 5 |
| 9109 | Application of functionalized carbon nanotubes as the cathode of nonaqueous lithium-oxygen cells. <i>Solid State Ionics</i> , 2022, 385, 116007. | 1.3 | 4 |
| 9110 | Insight into ZnO/carbon hybrid materials for photocatalytic reduction of CO ₂ : An in-depth review. <i>Journal of CO₂ Utilization</i> , 2022, 65, 102205. | 3.3 | 24 |
| 9111 | Sustainable fabrication of Co-MOF@CNT nano-composite for efficient adsorption and removal of organic dyes and selective sensing of Cr(VI) in aqueous phase. <i>Materials Chemistry and Physics</i> , 2022, 291, 126748. | 2.0 | 19 |
| 9112 | Synergistic mechanism of supported Mn-Ce oxide in catalytic ozonation of nitrofurazone wastewater. <i>Chemosphere</i> , 2022, 308, 136192. | 4.2 | 18 |
| 9113 | Printable Inorganic Materials for Printed Electronics. , 2022, , 103-192. | | 0 |
| 9114 | Computational Modelling of Poly(9-Vinylcarbazole)/Fullerene Nanoheterojunction for Organic Solar Cells and Photovoltaics Applications – a Dft Approach. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 9115 | Multifunctional materials and nanocomposite sensors for civil infrastructure monitoring. , 2022, , 497-553. | | 0 |
| 9116 | Synthetic carbon nanomaterials for electrochemical energy conversion. <i>Nanoscale</i> , 2022, 14, 13473-13489. | 2.8 | 6 |
| 9117 | Introduction to Organic-Inorganic Nanohybrids. <i>Materials Horizons</i> , 2022, , 1-27. | 0.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9118 | Parameters Involved in CVD Growth of CNT: A Review. Springer Proceedings in Materials, 2022, , 185-198. | 0.1 | 2 |
| 9119 | QbD-Steered Systematic Development of Drug Delivery Nanoconstructs: Vital Precepts, Retrospect and Prospects. , 2022, , 315-350. | | 0 |
| 9120 | Organic-Inorganic Nanohybrids Based Sensors for Volatile Organic Compounds. Materials Horizons, 2022, , 175-199. | 0.3 | 0 |
| 9121 | Metal oxide nanomaterials for organic photovoltaic applications. , 2022, , 239-261. | | 0 |
| 9122 | A nanosecond pulsed laser-ablated MWCNT-Au heterostructure: an innovative ultra-sensitive electrochemical sensing prototype for the identification of glutathione. Analyst, The, 2022, 147, 3894-3907. | 1.7 | 4 |
| 9123 | Formulation of conductive inks printable on textiles for electronic applications: a review. Textile Progress, 2022, 54, 103-200. | 1.3 | 3 |
| 9124 | Understanding the performance of graphdiyne membrane for the separation of nitrate ions from aqueous solution at the atomistic scale. Journal of Molecular Graphics and Modelling, 2023, 118, 108337. | 1.3 | 4 |
| 9125 | Study of Structural, Thermal and Electrical Properties of Functionalized Multiwalled Carbon Nanotubes-Polyaniline Composites. Polymer Science - Series B, 2022, 64, 573-580. | 0.3 | 1 |
| 9126 | Scalable Synthesis and Characterization of Multilayer β -Graphyne, New Carbon Crystals with a Small Direct Band Gap. Journal of the American Chemical Society, 2022, 144, 17999-18008. | 6.6 | 48 |
| 9127 | Rationally designed N/P dual-doped ordered mesoporous carbon for supercapacitors. Journal of Materials Science, 2022, 57, 17380-17397. | 1.7 | 2 |
| 9128 | Rotational and Gas Temperature Measurements for He-C Plasma: Application to Heterogeneous Carbon Nanotubes Synthesis. IEEE Transactions on Plasma Science, 2022, 50, 3006-3015. | 0.6 | 0 |
| 9129 | Emerging low-dimensional materials for nanoelectromechanical systems resonators. Materials Research Letters, 2023, 11, 21-52. | 4.1 | 6 |
| 9130 | Polymorphs with Remarkably Distinct Physical and/or Chemical Properties. Chemical Record, 2023, 23, . | 2.9 | 5 |
| 9131 | Role of polystyrene/multiwall carbon nanotubes concentrations on the morphological properties of prepared nanofibers nanocomposites. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-11. | 1.0 | 0 |
| 9132 | Preparation and Properties of Epoxy/Multiwalled Carbon Nanotube Nanocomposite Foams with an Alternating Layer Structure. ACS Omega, 2022, 7, 33010-33018. | 1.6 | 4 |
| 9133 | Directed Stabilization by Air-Milling and Catalyzed Decomposition by Layered Titanium Carbide Toward Low-Temperature and High-Capacity Hydrogen Storage of Aluminum Hydride. ACS Applied Materials & Interfaces, 2022, 14, 42102-42112. | 4.0 | 9 |
| 9134 | Ultrasonic assisted stretching approach toward aligned CNT for high strength and conductive nanocomposite. Composites Communications, 2022, 35, 101335. | 3.3 | 5 |
| 9135 | Thermal smart materials with tunable thermal conductivity: Mechanisms, materials, and applications. Science China: Physics, Mechanics and Astronomy, 2022, 65, . | 2.0 | 9 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 9136 | Structural engineering of graphite network for ultra-sensitive and durable strain sensors and strain-controlled switches. <i>Chemical Engineering Journal</i> , 2023, 452, 139664. | 6.6 | 12 |
| 9137 | Ultrafast growth of carbon nanotubes using microwave irradiation: characterization and its potential applications. <i>Heliyon</i> , 2022, 8, e10943. | 1.4 | 11 |
| 9138 | The effect of elution speed control on purity of separated large-diameter single-walled carbon nanotubes in gel chromatography. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 115, 521-527. | 2.9 | 0 |
| 9139 | New numerical model for a 2T-tandem solar cell device with narrow band gap SWCNTs reaching efficiency around 35%. <i>Solar Energy</i> , 2022, 246, 57-65. | 2.9 | 7 |
| 9140 | Mechanically interlocked derivatives of carbon nanotubes: synthesis and potential applications. <i>Chemical Society Reviews</i> , 2022, 51, 9433-9444. | 18.7 | 13 |
| 9141 | Copper sulfide nanoribbon growth triggered by carbon nanotube aggregation <i>via</i> dialysis. <i>RSC Advances</i> , 2022, 12, 31363-31368. | 1.7 | 0 |
| 9142 | Environmental gas sensors based on electroactive hybrid organic-inorganic nanocomposites using nanostructured materials. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 28680-28699. | 1.3 | 5 |
| 9143 | Study adsorption ability of pure single walled carbon nano tube to detection some toxic gases using DFT calculation. <i>AIP Conference Proceedings</i> , 2022, , . | 0.3 | 0 |
| 9144 | X-Ray Computed Tomography and Magnetic Resonance Imaging Applications of Magnetic Nanoalloys and Nanocomposites. , 2022, , 1155-1174. | | 0 |
| 9145 | Physical properties enhancement of carbon fiber obtained from isotropic pitch doped by ultra-long carbon nanotubes. <i>Carbon Trends</i> , 2022, 9, 100224. | 1.4 | 0 |
| 9146 | High Permittivity Polymer Composites on the Basis of Long Single-Walled Carbon Nanotubes: The Role of the Nanotube Length. <i>Nanomaterials</i> , 2022, 12, 3538. | 1.9 | 3 |
| 9147 | Progress on carbonene-based materials for Zn-ion hybrid supercapacitors. <i>New Carbon Materials</i> , 2022, 37, 918-935. | 2.9 | 3 |
| 9148 | Tunneling resistance model for piezoresistive carbon nanotube polymer composites. <i>Nanotechnology</i> , 2023, 34, 045502. | 1.3 | 4 |
| 9149 | Evaluation of the protective effects of berberine and berberine nanoparticle on insulin secretion and oxidative stress induced by carbon nanotubes in isolated mice islets of langerhans: an in vitro study. <i>Environmental Science and Pollution Research</i> , 2023, 30, 21781-21796. | 2.7 | 2 |
| 9150 | Surface Modified Carbon Nanotubes in Food Packaging. <i>ACS Symposium Series</i> , 0, , 199-233. | 0.5 | 0 |
| 9151 | Nonwoven Mats Based on Segmented Biopolyurethanes Filled with MWCNT Prepared by Solution Blow Spinning. <i>Polymers</i> , 2022, 14, 4175. | 2.0 | 0 |
| 9152 | Nanotechnology and building construction: Towards effective stakeholder engagement. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 1084, 012074. | 0.2 | 2 |
| 9153 | Review on the preparation of high value-added carbon materials from biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 168, 105747. | 2.6 | 16 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9154 | Carbon-based nanozymes: Design, catalytic mechanism, and bioapplication. <i>Coordination Chemistry Reviews</i> , 2023, 475, 214896. | 9.5 | 55 |
| 9155 | The morphology and magnetic properties of iron nanoclusters decorated multiwall carbon nanotubes. <i>Materials Research Bulletin</i> , 2023, 158, 112061. | 2.7 | 4 |
| 9156 | A Miniaturized Ionization Vacuum Sensor Based on Thermionic Electron Emission From Carbon Nanotubes. <i>IEEE Transactions on Electron Devices</i> , 2023, 70, 2872-2875. | 1.6 | 1 |
| 9157 | Carbon Nanotubes Embedded in Polymer Nanofibers by Electrospinning. , 2022, , 943-977. | | 0 |
| 9158 | EMI Shielding Effectiveness Study for Innovative Carbon Nanotube Materials in the 5G Frequency Region. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2023, 65, 177-185. | 1.4 | 3 |
| 9159 | A comprehensive review on the removal of antibiotics from water and wastewater using carbon nanotubes: synthesis, performance, and future challenges. <i>Environmental Science: Water Research and Technology</i> , 2022, 9, 11-37. | 1.2 | 1 |
| 9160 | Chloroaluminate-ions driven all-organic rechargeable batteries. <i>Synthetic Metals</i> , 2023, 292, 117216. | 2.1 | 0 |
| 9161 | Deflection Analysis of a Nonlocal Euler-Bernoulli Nanobeam Model Resting on Two Elastic Foundations: A Generalized Differential Quadrature Approach. <i>Symmetry</i> , 2022, 14, 2342. | 1.1 | 0 |
| 9162 | Effect of CuO Loading on the Photocatalytic Activity of SrTiO ₃ /MWCNTs Nanocomposites for Dye Degradation under Visible Light. <i>Inorganics</i> , 2022, 10, 211. | 1.2 | 4 |
| 9163 | Curvature and van der Waals interface effects on thermal transport in carbon nanotube bundles. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 1 |
| 9164 | Recent Advances in Rolling 2D TMDs Nanosheets into 1D TMDs Nanotubes/Nanoscrolls. <i>Small</i> , 2023, 19, . | 5.2 | 18 |
| 9165 | Mechanical Properties and Pore Structure of Multiwalled Carbon Nanotube-Reinforced Reactive Powder Concrete for Three-Dimensional Printing Manufactured by Material Extrusion. <i>3D Printing and Additive Manufacturing</i> , 0, , . | 1.4 | 1 |
| 9166 | Irregularity molecular descriptors of VC ₅ C ₇ [m,n] and HC ₅ C ₇ [m,n] nanotubes. <i>Frontiers in Physics</i> , 0, 10, . | 1.0 | 1 |
| 9167 | MXene fibers for electronic textiles: Progress and perspectives. <i>Chinese Chemical Letters</i> , 2023, 34, 107996. | 4.8 | 1 |
| 9168 | Nanofacet-density scaling on zig-zag carbon nanotubes within the kinetic 5-vertex growth model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 608, 128278. | 1.2 | 0 |
| 9169 | DFTB investigation of strain affecting the combination of C ₆₀ and graphene having single-vacancy on electronic-scale. <i>Diamond and Related Materials</i> , 2022, 130, 109520. | 1.8 | 0 |
| 9170 | Growth Mechanisms in Carbon Nanotube Formation. , 2022, , 557-586. | | 0 |
| 9171 | Unsteady Water-Based Ternary Hybrid Nanofluids on Wedges by Bioconvection and Wall Stretching Velocity: Thermal Analysis and Scrutinization of Small and Larger Magnitudes of the Thermal Conductivity of Nanoparticles. <i>Mathematics</i> , 2022, 10, 4309. | 1.1 | 26 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9172 | Effects of foliar application of single-walled carbon nanotubes on carbohydrate metabolism in crabapple plants. <i>Plant Physiology and Biochemistry</i> , 2023, 194, 214-222. | 2.8 | 7 |
| 9173 | Titanium dioxide “ Based sensors: A review. <i>AIP Conference Proceedings</i> , 2022, , . | 0.3 | 2 |
| 9174 | Recent advances in designing efficient electrocatalysts for electrochemical carbon dioxide reduction to formic acid/formate. <i>Journal of Electroanalytical Chemistry</i> , 2023, 928, 117018. | 1.9 | 8 |
| 9175 | Spatial distribution characteristics and microscopic mechanisms for enhancing mechanical properties of MWCNTs in recycled coarse aggregate shotcrete. <i>Construction and Building Materials</i> , 2023, 364, 129927. | 3.2 | 2 |
| 9176 | Diagnosis of cancer using carbon nanomaterial-based biosensors. <i>Sensors & Diagnostics</i> , 2023, 2, 268-289. | 1.9 | 5 |
| 9177 | Environmental implications of nanoceramic applications. <i>Results in Chemistry</i> , 2023, 5, 100724. | 0.9 | 6 |
| 9178 | FeTe:Fe ₂ TeO ₅ nanodots embedded MWCNTs: Nanocomposite electrode towards supercapacitor application. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, 142, 104607. | 2.7 | 3 |
| 9179 | The potential of nano-enabled oral ecosystem surveillance for respiratory disease management. <i>Nano Today</i> , 2023, 48, 101693. | 6.2 | 0 |
| 9180 | Vertical alignment of carbon nanotubes in photo-curable polymer for multi-functional hybrid materials. <i>Applied Surface Science</i> , 2023, 612, 155749. | 3.1 | 4 |
| 9181 | MSC based gene delivery methods and strategies improve the therapeutic efficacy of neurological diseases. <i>Bioactive Materials</i> , 2023, 23, 409-437. | 8.6 | 11 |
| 9182 | Mechanical Properties of Carbon Nanotube“Polymer Composites. , 2022, , 1067-1088. | | 0 |
| 9183 | Carbon Nanotubes for Mechanical Applications. , 2022, , 1335-1368. | | 0 |
| 9184 | Ti“Mn hydrogen storage alloys: from properties to applications. <i>RSC Advances</i> , 2022, 12, 35744-35755. | 1.7 | 5 |
| 9185 | Synthesis of Gold Nanoparticles and Their Reduced Graphene Oxide Nanocomposites Through a Simplified Approach and Assessment of Their Bactericidal Potential. <i>Science of Advanced Materials</i> , 2022, 14, 1361-1368. | 0.1 | 1 |
| 9186 | Recent Advances in Ultrafine Fibrous Materials for Effective Warmth Retention. <i>Advanced Fiber Materials</i> , 2023, 5, 847-867. | 7.9 | 8 |
| 9187 | A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. <i>Lecture Notes in Energy</i> , 2023, , 145-156. | 0.2 | 0 |
| 9188 | Development of a Toxic Lead Ionic Sensor Using Carboxyl-Functionalized MWCNTs in Real Water Sample Analyses. <i>Sensors</i> , 2022, 22, 8976. | 2.1 | 3 |
| 9189 | Synthesis and applications of Ag@C composites: Progress and opportunity. <i>Journal of Central South University</i> , 2022, 29, 3503-3528. | 1.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9190 | An epitaxial graphene platform for zero-energy edge state nanoelectronics. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 5 |
| 9191 | Microstructure and mechanical properties of carbon graphite composites reinforced by carbon nanofibers. <i>Carbon Letters</i> , 2023, 33, 561-571. | 3.3 | 16 |
| 9192 | Mixing carbon nanotubes with asphalt binder through a foaming process toward high-performance warm mix asphalt (WMA). <i>International Journal of Pavement Engineering</i> , 2023, 24, . | 2.2 | 0 |
| 9193 | Graphdiyne: Synthesis, modification and application of a two-dimensional carbonaceous material. <i>New Carbon Materials</i> , 2022, 37, 1089-1113. | 2.9 | 1 |
| 9194 | Wearable Carbon Nanotube-€spandex Textile Yarns for Knee Flexion Monitoring. , 2023, 2, . | | 5 |
| 9195 | Carbon nanotube sponges filled sandwich panels with superior high-power continuous wave laser resistance. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 0 |
| 9197 | Evaporation of Carbon Atoms and Molecules in Helium by Low-Current Arc Discharge with Graphite Electrodes. <i>High Energy Chemistry</i> , 2022, 56, 477-486. | 0.2 | 11 |
| 9198 | Preferential localization of conductive filler in ethylene-€methyl acrylate/thermoplastic polyolefin polymer blends to reduce percolation threshold and enhanced electromagnetic radiation shielding over K band region. <i>Polymer Composites</i> , 2023, 44, 1603-1616. | 2.3 | 17 |
| 9200 | A Noninvasive Sweat Glucose Biosensor Based on Glucose Oxidase/Multiwalled Carbon Nanotubes/Ferrocene-Polyaniline Film/Cu Electrodes. <i>Micromachines</i> , 2022, 13, 2142. | 1.4 | 4 |
| 9201 | Effects of Annealing Temperature and Time on Properties of Thermoplastic Polyurethane Based on Different Soft Segments/Multi-Walled Carbon Nanotube Nanocomposites. <i>Polymers</i> , 2023, 15, 364. | 2.0 | 1 |
| 9202 | Humidity Sensors, Major Types and Applications. , 0, , . | | 0 |
| 9203 | Accumulation of Engineered Nanomaterials in Soil, Water, and Air. , 2023, , 551-582. | | 0 |
| 9204 | Non-negligible roles of charge transfer excitons in ultrafast excitation energy transfer dynamics of a double-walled carbon nanotube. <i>Journal of Chemical Physics</i> , 2023, 158, . | 1.2 | 2 |
| 9205 | Structure-Preserving Analysis of the Dynamics of Micro/Nano Systems. , 2023, , 331-397. | | 0 |
| 9206 | Green Synthesis of Carbon Nanoparticles (CNPs) from Biomass for Biomedical Applications. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1023. | 1.8 | 9 |
| 9207 | Template-Directed Polymerization Strategy for Producing rGO/UHMWPE Composite Aerogels with Tunable Properties. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 5628-5643. | 4.0 | 3 |
| 9208 | Study of the synergistic influence of zwitterionic interactions and graphene oxide on water diffusion mechanism and mechanical properties in hybrid hydrogel network. <i>Chemosphere</i> , 2023, 314, 137710. | 4.2 | 2 |
| 9209 | Layer-by-layer assembly of biomimetic fish scale structure on carbon fiber surfaces to improve thermal conductivity and mechanical properties of composites. <i>Applied Surface Science</i> , 2023, 615, 156308. | 3.1 | 18 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9210 | An atomic/molecular-level strategy for the design of a preferred nitrogen-doped carbon nanotube cathode for Li-O ₂ batteries. <i>Applied Surface Science</i> , 2023, 615, 156367. | 3.1 | 2 |
| 9211 | Heat treatment of carbon nanotube hybrid material for textile applications. <i>Journal of Textile Engineering & Fashion Technology</i> , 2021, 7, 121-125. | 0.1 | 2 |
| 9212 | Thermal degradation of organic-inorganic hybrid materials. , 2023, , 227-249. | | 0 |
| 9213 | Autonomous experimentation in nanotechnology. , 2023, , 331-360. | | 0 |
| 9214 | Synthesis of azetidines by cycloaddition of imines to ketenes-I. , 2023, , 91-123. | | 0 |
| 9215 | Carbon-based smart nanomaterials. , 2023, , 3-24. | | 1 |
| 9216 | Applications and implications of carbon nanotubes for the sequestration of organic and inorganic pollutants from wastewater. <i>Environmental Science and Pollution Research</i> , 2023, 30, 124934-124949. | 2.7 | 4 |
| 9217 | Multifunctional polymer/carbonaceous nanocomposites for aerospace applications. , 2023, , 55-83. | | 5 |
| 9218 | Scalable Structural Coloration of Carbon Nanotube Fibers via a Facile Silica Photonic Crystal Self-Assembly Strategy. <i>ACS Nano</i> , 2023, 17, 2893-2900. | 7.3 | 8 |
| 9219 | Carbon-based nanomaterials: Potential therapeutic applications. , 2023, , 263-285. | | 0 |
| 9220 | Design and fabrication of polymer nanocomposite sensors. , 2023, , 87-120. | | 1 |
| 9221 | Influence of MWCNT aspect ratio on the rheological, electrical, electromagnetic shielding, and mechanical properties of polycarbonate melt mixed nanocomposites. <i>Journal of Polymer Research</i> , 2023, 30, . | 1.2 | 8 |
| 9222 | Using Nanomaterials as Excellent Immobilisation Layer for Biosensor Design. <i>Biosensors</i> , 2023, 13, 192. | 2.3 | 7 |
| 9223 | Cross-plane transport in cyclo[18]carbon-based molecular devices. <i>Applied Physics Letters</i> , 2023, 122, . | 1.5 | 2 |
| 9224 | Drug delivery aspects of carbon nanotubes. , 2023, , 119-155. | | 1 |
| 9225 | Coaxial electrospinning. , 2023, , 105-126. | | 0 |
| 9226 | Silicon-based lithium-ion battery anodes and their application in solid-state batteries. , 2023, , 129-169. | | 0 |
| 9227 | Polysaccharide-based C-dots and polysaccharide/C-dot nanocomposites: fabrication strategies and applications. <i>Nanoscale</i> , 2023, 15, 3630-3650. | 2.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|------|---|------|-----------|
| 9228 | Covalent Triazine Framework C ₆ N ₆ as an Electrochemical Sensor for Hydrogen-Containing Industrial Pollutants. A DFT Study. <i>Nanomaterials</i> , 2023, 13, 1121. | 1.9 | 3 |
| 9229 | Catalytic upcycling of waste polypropylene for gram-scale production of FeCo@N-doped carbon nanotubes toward efficient oxygen reduction electrocatalysis. <i>Journal of Electroanalytical Chemistry</i> , 2023, 936, 117394. | 1.9 | 4 |
| 9230 | Raman spectroscopy of carbon materials and their composites: Graphene, nanotubes and fibres. <i>Progress in Materials Science</i> , 2023, 135, 101089. | 16.0 | 120 |
| 9231 | CdS based heterojunction for water splitting: A review. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2023, 292, 116413. | 1.7 | 10 |
| 9232 | G-C ₃ N ₅ nanotube as a promising candidate for adsorption and inactivation of aflatoxin B1: A first-principles study. <i>Surfaces and Interfaces</i> , 2023, 38, 102868. | 1.5 | 0 |
| 9233 | Study on dynamic constitutive relation and fiber pullout simulation of modified carbon fiber reinforcement concrete. <i>Case Studies in Construction Materials</i> , 2023, 18, e01994. | 0.8 | 0 |
| 9234 | Differential pulse voltammetric assessment of phthalate molecular blocking effect on the copper electrode modified by multi-walled carbon nanotubes: Statistical optimization by Box-Behnken experimental design. <i>Arabian Journal of Chemistry</i> , 2023, 16, 104874. | 2.3 | 1 |
| 9235 | Co-adsorption of hydrogen and methane can improve the energy storage capacity of Mn-modified graphene. <i>Journal of Energy Storage</i> , 2023, 63, 106973. | 3.9 | 0 |
| 9240 | Influence of oxygen on the optical, electrical, and heating properties of gallium-doped zinc oxide (GZO) films. <i>AIP Advances</i> , 2023, 13, 025249. | 0.6 | 0 |
| 9241 | Dynamic Stability of Nanobeams Based on the Reddy's Beam Theory. <i>Materials</i> , 2023, 16, 1626. | 1.3 | 2 |
| 9242 | Polydispersed Acid-Functionalized Single-Walled Carbon Nanotubes Induced the Integrin-Associated Protein (CD47) and Basigin (CD147) Expression and Modulated the Antioxidant Gene Expression in Erythroid Cells in Mice. <i>BioNanoScience</i> , 2023, 13, 695-703. | 1.5 | 2 |
| 9243 | Recent progress on single-atom catalysts for lithium-air battery applications. <i>Energy and Environmental Science</i> , 2023, 16, 1431-1465. | 15.6 | 29 |
| 9244 | MXene Fiber-based Wearable Textiles in Sensing and Energy Storage Applications. <i>Fibers and Polymers</i> , 2023, 24, 1167-1182. | 1.1 | 4 |
| 9245 | Impact of External Electronic Perturbations on Single-Walled Carbon Nanotube Electronic Structure: Scanning Tunneling Spectroscopy and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2023, 127, 4651-4659. | 1.5 | 2 |
| 9246 | Single walled carbon nanotube functionalisation in printed supercapacitor devices and shielding effect of Tin(II) Oxide. <i>Electrochimica Acta</i> , 2023, 448, 142168. | 2.6 | 1 |
| 9247 | Facile Synthesis of Hydrogen-Substituted Graphdiyne Powder via Dehalogenative Homocoupling Reaction. <i>Nanomaterials</i> , 2023, 13, 1018. | 1.9 | 1 |
| 9248 | High-Sensitivity 2D MoS ₂ /1D MWCNT Hybrid Dimensional Heterostructure Photodetector. <i>Sensors</i> , 2023, 23, 3104. | 2.1 | 1 |
| 9249 | Interfacial properties of defective carbon nanotube/polypropylene composites: a molecular dynamics approach. <i>Physica Scripta</i> , 2023, 98, 045918. | 1.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 9250 | Nanoprobes for advanced nanotheranostic applications. , 2023, , 557-586. | | 0 |
| 9251 | Double solutions of unsteady stagnation-point of Carbon Nanotubes across a permeable exponential stretching/shrinking sheet. Chinese Journal of Physics, 2023, 85, 534-552. | 2.0 | 2 |
| 9252 | Structure optimization: Configuring optimum performance of randomly distributed mixed carbon nanotube bundle interconnects. International Journal of Circuit Theory and Applications, 2023, 51, 3949-3967. | 1.3 | 1 |
| 9253 | Theoretical study of entropy-induced friction in graphene. Thin-Walled Structures, 2023, 186, 110724. | 2.7 | 1 |
| 9254 | Enhancing Tensile Properties and Surface Roughness of (Gr + CNTs)/Cu Composite Foils. , 0, , . | | 0 |
| 9258 | Surface acoustic wave manipulation of bioparticles. Soft Matter, 0, , . | 1.2 | 1 |
| 9261 | Recent advances in interface engineering of Fe/Co/Ni-based heterostructure electrocatalysts for water splitting. Materials Horizons, 2023, 10, 2312-2342. | 6.4 | 13 |
| 9263 | Nanorod, Nanotube, Nanowire Self-Assembly. , 2008, , 215-332. | | 0 |
| 9276 | Germanene nanotubes. , 2023, , 319-342. | | 0 |
| 9286 | Bio-magnetic separation of different nanomaterials and their applications. , 2023, , 197-216. | | 0 |
| 9288 | A review: Properties and applications of carbon nanotubes. , 2023, , . | | 0 |
| 9294 | 4-trit CNFET-based Arithmetic Logic Unit. , 2023, , . | | 1 |
| 9298 | Animal fiberâ€‘based green composites. , 2023, , 305-346. | | 0 |
| 9323 | Biogenic amine sensors using organic IË-conjugated materials as active sensing components and their commercialization potential. Journal of Materials Chemistry C, 2023, 11, 9749-9767. | 2.7 | 2 |
| 9324 | Background, advancement, and applications of inÂ’situ structural health monitoring based on different modes of failure detection in composites. , 2023, , 291-315. | | 0 |
| 9325 | Role of ceramics and ceramic coatings in biomedical applications. , 2023, , 1-13. | | 0 |
| 9327 | Nanotechnological Approaches Against Fungal Pathogens of Economically Important Crop Plants. , 2023, , 559-584. | | 0 |
| 9343 | Aligned carbon nanotubes for lithium-ion batteries: A review. Nano Research, 2023, 16, 12384-12410. | 5.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 9344 | Exploring biomimetic membranes: applications and challenges. , 2023, , 113-148. | | 0 |
| 9345 | Future Perspective of Nanobiomaterials in Human Health Care. , 2023, , 741-761. | | 0 |
| 9359 | Fabrication, Morphologies and Mechanical Properties of Carbon Nanotube Based Polymer Nanocomposites. , 2012, , 225-250. | | 0 |
| 9360 | A review on adsorption of heavy metals from wastewater using carbon nanotube and graphene-based nanomaterials. Environmental Science and Pollution Research, 2023, 30, 110010-110046. | 2.7 | 3 |
| 9362 | Sustainable synthesis of multifunctional nanomaterials from rice wastes: a comprehensive review. Environmental Science and Pollution Research, 2023, 30, 95039-95053. | 2.7 | 3 |
| 9363 | Carbon-based nanostructured materials for effective strategy in wound management. , 2024, , 193-218. | | 1 |
| 9365 | Development Strategies and Prospects of Carbon Nanotube as Heavy Metal Adsorbent. , 2023, , 59-81. | | 0 |
| 9369 | Current Progress of Carbon Nanotubes Applied to Proton Exchange Membrane Fuel Cells: A Comprehensive Review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2024, 11, 659-684. | 2.7 | 0 |
| 9376 | Nanocarbons: Diamond, Fullerene, Nanotube, Graphite, and Graphene Aerogels. Springer Handbooks, 2023, , 941-970. | 0.3 | 1 |
| 9378 | Continuum Mechanics Applied for Studying Instabilities in Nanoparticles. Advanced Structured Materials, 2023, , 429-456. | 0.3 | 0 |
| 9382 | Wastewater treatments using carbon nanotubes: recent developments. , 2023, , 647-679. | | 0 |
| 9390 | Green Synthesis of Inorganic Fire Retardants. , 2023, , 218-294. | | 0 |
| 9426 | Nanocarrier-mediated delivery for targeting stomach cancer. , 2024, , 257-302. | | 0 |
| 9427 | Structural design underpinning self-healing materials for electromagnetic interference shielding: coupling of dynamic polymer chemistry and electrical conductivity. Journal of Materials Chemistry A, 2024, 12, 4971-4995. | 5.2 | 0 |
| 9429 | Nanosensors for food quality and detection of pathogens, chemicals, and pesticides. , 2024, , 341-360. | | 0 |
| 9430 | Nanostructured Highly Sensitive and Selective Electrochemical Sensors and Their Applications. , 2024, , 1-47. | | 0 |
| 9433 | Fundamentals of advanced electrode nanomaterials. , 2024, , 15-70. | | 0 |
| 9439 | Real-space and energy-space features of materials systems. , 2024, , 199-243. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 9448 | Photo-Enhanced Li-Ion Batteries Based on Conversion Type Hematite Phase Iron Oxide Nanostructures. <i>Advances in Sustainability Science and Technology</i> , 2024, , 71-79. | 0.4 | 0 |
| 9458 | Pair Diffraction Function Analysis of Conversion of a Fermat Scroll to an Archimedean Scroll in Multiwalled Carbon Nanotubes. <i>Springer Proceedings in Materials</i> , 2024, , 1-10. | 0.1 | 0 |