

E Flahaut

List of Publications by Year in descending order

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85
papers

7,355
citations

101543

36
h-index

64796

79
g-index

86
all docs

86
docs citations

86
times ranked

9943
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Observation of a superparamagnetic breakdown in gadolinium chloride filled double-walled carbon nanotubes. <i>AIP Advances</i> , 2021, 11, 035206. | 1.3 | 1 |
| 2 | Preferred attachment of fluorine near oxygen-containing groups on the surface of double-walled carbon nanotubes. <i>Applied Surface Science</i> , 2020, 504, 144357. | 6.1 | 19 |
| 3 | Effect of ultrasound pretreatment on bromination of double-walled carbon nanotubes. <i>Synthetic Metals</i> , 2020, 259, 116233. | 3.9 | 10 |
| 4 | Study of cytotoxicity performance of carbon nanohorns by method of spin probes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 737-744. | 2.1 | 3 |
| 5 | Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. <i>Carbon</i> , 2019, 148, 413-420. | 10.3 | 33 |
| 6 | Wavelength tunable soliton rains in a nanotube-mode locked Tm-doped fiber laser. <i>Applied Physics Letters</i> , 2018, 113, . | 3.3 | 26 |
| 7 | Observation of strong Kondo like features and co-tunnelling in superparamagnetic GdCl ₃ filled 1D nanomagnets. <i>Journal of Applied Physics</i> , 2018, 123, . | 2.5 | 6 |
| 8 | Surface area of carbon-based nanoparticles prevails on dispersion for growth inhibition in amphibians. <i>Carbon</i> , 2017, 119, 72-81. | 10.3 | 20 |
| 9 | The Unexpected Complexity of Filling Double-Wall Carbon Nanotubes With Nickel (and Iodine) 1-D Nanocrystals. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 759-766. | 2.0 | 7 |
| 10 | The unexpected complexity of filling double-wall carbon nanotubes with iodine-based 1D nanocrystals. , 2016, , . | | 0 |
| 11 | Interaction of graphene-related materials with human intestinal cells: an in vitro approach. <i>Nanoscale</i> , 2016, 8, 8749-8760. | 5.6 | 37 |
| 12 | Anisotropic mechanical and functional properties of graphene-based alumina matrix nanocomposites. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2075-2086. | 5.7 | 57 |
| 13 | A single-molecule approach to explore binding, uptake and transport of cancer cell targeting nanotubes. <i>Nanotechnology</i> , 2014, 25, 125704. | 2.6 | 15 |
| 14 | Mid-infrared Raman-soliton continuum pumped by a nanotube-mode-locked sub-picosecond Tm-doped MOPFA. <i>Optics Express</i> , 2013, 21, 23261. | 3.4 | 74 |
| 15 | Double-walled carbon nanotubes suspending by natural active substances (saponins and humic acids). <i>MATEC Web of Conferences</i> , 2013, 5, 04027. | 0.2 | 0 |
| 16 | Bromination of Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2012, 24, 2708-2715. | 6.7 | 76 |
| 17 | Toxicity and Environmental Impact of Carbon Nanotubes. <i>Carbon Nanostructures</i> , 2011, , 211-219. | 0.1 | 2 |
| 18 | Filling of Carbon Nanotubes with Compounds in Solution or Melted Phase. <i>Carbon Nanostructures</i> , 2011, , 41-65. | 0.1 | 4 |

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|----|--|------|-----------|
| 19 | Ultrafast Raman laser mode-locked by nanotubes. <i>Optics Letters</i> , 2011, 36, 3996. | 3.3 | 60 |
| 20 | Electrical properties and reactivity under air-CO flows of composite systems based on ceria coated carbon nanotubes. <i>Chemical Engineering Journal</i> , 2011, 171, 272-278. | 12.7 | 4 |
| 21 | Magneto-Coulomb Effect in Carbon Nanotube Quantum Dots Filled with Magnetic Nanoparticles. <i>Physical Review Letters</i> , 2011, 107, 186804. | 7.8 | 19 |
| 22 | Carbon nanotubes induce inflammation but decrease the production of reactive oxygen species in lung. <i>Toxicology</i> , 2010, 272, 39-45. | 4.2 | 82 |
| 23 | The weight and density of carbon nanotubes versus the number of walls and diameter. <i>Carbon</i> , 2010, 48, 2994-2996. | 10.3 | 242 |
| 24 | Tunability of Carbon NanoTubes Resistance Deposited by Inkjet Printing at Low Temperature. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1258, 1. | 0.1 | 2 |
| 25 | Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. <i>Chemistry of Materials</i> , 2010, 22, 4197-4203. | 6.7 | 49 |
| 26 | Hydrophobic double walled carbon nanotubes interaction with phospholipidic model membranes: ¹ H-, ² H-, ³¹ P NMR and ESR study. <i>Environmental Toxicology and Pharmacology</i> , 2010, 30, 147-152. | 4.0 | 12 |
| 27 | Writing simple RF electronic devices on paper with carbon nanotube ink. <i>Nanotechnology</i> , 2009, 20, 375203. | 2.6 | 44 |
| 28 | AFM imaging of functionalized double-walled carbon nanotubes. <i>Ultramicroscopy</i> , 2009, 109, 899-906. | 1.9 | 28 |
| 29 | CCVD synthesis of carbon nanotubes with W/Co-MgO catalysts. <i>Carbon</i> , 2009, 47, 789-794. | 10.3 | 28 |
| 30 | AFM imaging of functionalized carbon nanotubes on biological membranes. <i>Nanotechnology</i> , 2009, 20, 434001. | 2.6 | 45 |
| 31 | X-ray diffraction as a tool for the determination of the structure of double-walled carbon nanotube batches. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 22 |
| 32 | Characterisation and in vivo ecotoxicity evaluation of double-wall carbon nanotubes in larvae of the amphibian <i>Xenopus laevis</i> . <i>Aquatic Toxicology</i> , 2008, 87, 127-137. | 4.0 | 133 |
| 33 | Carbon nanotube-based polymer composites for microwave applications. , 2008, , . | | 4 |
| 34 | Carbon nanotubes-based microwave and millimeter wave sensors. , 2007, , . | | 6 |
| 35 | Improving the photovoltaic response of a poly(3-octylthiophene)/n-Si heterojunction by incorporating double-walled carbon nanotubes. <i>Nanotechnology</i> , 2007, 18, 185708. | 2.6 | 28 |
| 36 | Millimeter wave carbon nanotube gas sensor. <i>Journal of Applied Physics</i> , 2007, 101, 106103. | 2.5 | 24 |

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|----|---|------|-----------|
| 37 | Raman bands of double-wall carbon nanotubes: comparison with single- and triple-wall carbon nanotubes, and influence of annealing and electron irradiation. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 714-720. | 2.5 | 37 |
| 38 | Influence of carbonaceous electrodes on capacitance and breakdown voltage for hybrid capacitor. <i>Microelectronics Journal</i> , 2007, 38, 642-648. | 2.0 | 4 |
| 39 | Pressure dependence of Raman modes in DWCNT filled with PbI ₂ semiconductor. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 136-141. | 1.5 | 4 |
| 40 | Field electron emission of double walled carbon nanotube film prepared by drop casting method. <i>Solid-State Electronics</i> , 2007, 51, 788-792. | 1.4 | 19 |
| 41 | Optical Absorption and Raman Spectroscopy Study of the Fluorinated Double-Wall Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 233-238. | 2.1 | 9 |
| 42 | Surface Properties, Porosity, Chemical and Electrochemical Applications. , 2006, , 495-549. | | 14 |
| 43 | In Situ Raman Spectroscopy Study of Oxidation of Double- and Single-Wall Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 1525-1533. | 6.7 | 161 |
| 44 | Crystallization of 2H and 4H PbI ₂ in Carbon Nanotubes of Varying Diameters and Morphologies. <i>Chemistry of Materials</i> , 2006, 18, 2059-2069. | 6.7 | 86 |
| 45 | Hybrid carbon nanotubes: Strategy, progress, and perspectives. <i>Journal of Materials Research</i> , 2006, 21, 2774-2793. | 2.6 | 122 |
| 46 | Infrared-active phonons in carbon nanotubes. <i>Physical Review B</i> , 2006, 74, . | 3.2 | 38 |
| 47 | High performance thin film bulk acoustic resonator covered with carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 89, 143122. | 3.3 | 13 |
| 48 | Thermal Behavior of Fluorinated Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 4967-4971. | 6.7 | 23 |
| 49 | Complement activation and protein adsorption by carbon nanotubes. <i>Molecular Immunology</i> , 2006, 43, 193-201. | 2.2 | 395 |
| 50 | Investigation of the cytotoxicity of CCVD carbon nanotubes towards human umbilical vein endothelial cells. <i>Carbon</i> , 2006, 44, 1093-1099. | 10.3 | 101 |
| 51 | Impact of the surface roughness on the electrical capacitance. <i>Microelectronics Journal</i> , 2006, 37, 752-758. | 2.0 | 36 |
| 52 | Study of the cytotoxicity of CCVD carbon nanotubes. <i>Journal of Materials Science</i> , 2006, 41, 2411-2416. | 3.7 | 31 |
| 53 | Structural selective charge transfer in iodine-doped carbon nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1190-1192. | 4.0 | 33 |
| 54 | Improving photovoltaic response of poly(3-hexylthiophene)/n-Si heterojunction by incorporating double walled carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 89, 223505. | 3.3 | 41 |

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|----|--|------|-----------|
| 55 | Experimental determination of microwave attenuation and electrical permittivity of double-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 88, 153108. | 3.3 | 36 |
| 56 | High power density electrodes for Carbon supercapacitor applications. <i>Electrochimica Acta</i> , 2005, 50, 4174-4181. | 5.2 | 327 |
| 57 | Catalytic CVD synthesis of double and triple-walled carbon nanotubes by the control of the catalyst preparation. <i>Carbon</i> , 2005, 43, 375-383. | 10.3 | 134 |
| 58 | Elimination of D-band in Raman spectra of double-wall carbon nanotubes by oxidation. <i>Chemical Physics Letters</i> , 2005, 402, 422-427. | 2.6 | 201 |
| 59 | Influence of carbon nanotubes addition on carbonâ€™ carbon supercapacitor performances in organic electrolyte. <i>Journal of Power Sources</i> , 2005, 139, 371-378. | 7.8 | 222 |
| 60 | Similarities in the Raman RBM and D bands in double-wall carbon nanotubes. <i>Physical Review B</i> , 2005, 72, . | 3.2 | 13 |
| 61 | Gate-Dependent Magnetoresistance Phenomena in Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 94, 066801. | 7.8 | 43 |
| 62 | Double-Walled Carbon Nanotubes: Synthesis and Filling by 1-D Nanocrystals. , 2005, , 281-286. | | 0 |
| 63 | Light scattering of double wall carbon nanotubes under hydrostatic pressure: pressure effects on the internal and external tubes. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 3360-3366. | 1.5 | 14 |
| 64 | Raman spectroscopy of iodine-doped double-walled carbon nanotubes. <i>Physical Review B</i> , 2004, 69, . | 3.2 | 70 |
| 65 | Formation of Nanofibers and Nanotubes Production. , 2004, , 1-129. | | 10 |
| 66 | High yield incorporation and washing properties of halides incorporated into single walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 457-462. | 2.3 | 61 |
| 67 | Probing the electronic properties of individual carbon nanotube in 35 T pulsed magnetic field. <i>Chemical Physics Letters</i> , 2003, 372, 733-738. | 2.6 | 17 |
| 68 | Rings of Double-Walled Carbon Nanotube Bundles. <i>Nano Letters</i> , 2003, 3, 685-689. | 9.1 | 72 |
| 69 | Narrow diameter double-wall carbon nanotubes: synthesis, electron microscopy and inelastic light scattering. <i>New Journal of Physics</i> , 2003, 5, 131-131. | 2.9 | 30 |
| 70 | Double-Walled Carbon Nanotubes in Composite Powders. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 151-158. | 0.9 | 21 |
| 71 | CCVD Synthesis and Characterization of Cobalt-Encapsulated Nanoparticles. <i>Chemistry of Materials</i> , 2002, 14, 2553-2558. | 6.7 | 154 |
| 72 | Aligned carbon nanotubes in ceramic-matrix nanocomposites prepared by high-temperature extrusion. <i>Chemical Physics Letters</i> , 2002, 352, 20-25. | 2.6 | 159 |

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|----|---|------|-----------|
| 73 | The characterization of sub-nanometer scale structures within single walled carbon nanotubes. AIP Conference Proceedings, 2001, , . | 0.4 | 5 |
| 74 | Synthesis of 1D P-block halide crystals within single walled carbon nanotubes. AIP Conference Proceedings, 2001, , . | 0.4 | 6 |
| 75 | Specific surface area of carbon nanotubes and bundles of carbon nanotubes. Carbon, 2001, 39, 507-514. | 10.3 | 1,782 |
| 76 | 1D P-Block Halide Crystals Confined into Single Walled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2000, 633, 13151. | 0.1 | 1 |
| 77 | The Crystallography of Metal Halides formed within Single Walled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2000, 633, 14311. | 0.1 | 2 |
| 78 | Two layer 4:4 co-ordinated KI crystals grown within single walled carbon nanotubes. Chemical Physics Letters, 2000, 329, 61-65. | 2.6 | 170 |
| 79 | Mössbauer spectroscopy study of MgAl ₂ O ₄ -matrix nanocomposite powders containing carbon nanotubes and iron-based nanoparticles. Acta Materialia, 2000, 48, 3015-3023. | 7.9 | 36 |
| 80 | Carbon nanotubes in novel ceramic matrix nanocomposites. Ceramics International, 2000, 26, 677-683. | 4.8 | 370 |
| 81 | Carbon nanotube-metal oxide nanocomposites: microstructure, electrical conductivity and mechanical properties. Acta Materialia, 2000, 48, 3803-3812. | 7.9 | 438 |
| 82 | Synthesis of carbon nanotubes-Fe-Al ₂ O ₃ powders.. Materials Research Bulletin, 2000, 35, 661-673. | 5.2 | 25 |
| 83 | Synthesis of single-walled carbon nanotube-Co-MgO composite powders and extraction of the nanotubes. Journal of Materials Chemistry, 2000, 10, 249-252. | 6.7 | 237 |
| 84 | Synthesis of single-walled carbon nanotubes using binary (Fe, Co, Ni) alloy nanoparticles prepared in situ by the reduction of oxide solid solutions. Chemical Physics Letters, 1999, 300, 236-242. | 2.6 | 236 |
| 85 | An investigation of carbon nanotubes obtained from the decomposition of methane over reduced Mg _{1-x} Al ₂ O ₄ spinel catalysts. Journal of Materials Research, 1999, 14, 2567-2576. | 2.6 | 72 |