Ali Aldalbahi

List of Publications by Year
in descending order

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Version: 2024-02-01

212 papers	7,071 citations	44069 48 h-index	82547 72 g-index
217 all docs	217 docs citations	217 times ranked	9311 citing authors

#	Article	IF	Citations
1	High density polyethylene and metal oxides based nanocomposites for high voltage cable application. Journal of Applied Polymer Science, 2022, 139, 51787.	2.6	13
2	Zero-biased and visible-blind UV photodetectors based on nitrogen-doped ultrananocrystalline diamond nanowires. Ceramics International, 2022, 48, 3757-3761.	4.8	5
3	Controlling the Interfacial Charge Polarization of MOF-Derived 0Dâ€“2D vdW Architectures as a Unique Strategy for Bifunctional Oxygen Electrocatalysis. ACS Applied Materials & Interfaces, 2022, 14, 3919-3929.	8.0	63
4	Electrospun zincâ€manganese bimetallic oxide carbon nanofibers as freestanding supercapacitor electrodes. International Journal of Energy Research, 2022, 46, 22100-22112.	4.5	7
5	Wearable fabric supercapacitors based on <scp>CNTs</scp> and polyhedral <scp>ZnO</scp> with a wide potential window. International Journal of Energy Research, 2022, 46, 8186-8200.	4.5	5
6	Predicting Percolation Threshold Value of EMI SE for Conducting Polymer Composite Systems Through Different Sigmoidal Models. Journal of Electronic Materials, 2022, 51, 1788-1803.	2.2	4
7	Synthesis of New S-Triazine Bishydrazino and Bishydrazido-Based Polymers and Their Application in Flame-Retardant Polypropylene Composites. Polymers, 2022, 14, 784.	4.5	1
8	Effect of 3-Nitroacetophenone on Corrosion Inhibition of Mild Steel in Acidic Medium. International Journal of Photoenergy, 2022, 2022, 1-9.	2.5	2
9	Wearable multifunctional soft sensor and contactless 3D scanner using supersonically sprayed silver nanowires, carbon nanotubes, zinc oxide, and PEDOT:PSS. NPG Asia Materials, 2022, 14, .	7.9	14
10	Nanotextured Soft Electrothermo-Pneumatic Actuator for Constructing Lightweight, Integrated, and Untethered Soft Robotics. Soft Robotics, 2022, 9, 960-969.	8.0	8
11	Biogenic Silver Nanoparticles Fabricated by Euphorbia granulata Forsskâ€™s Extract: Investigating the Antimicrobial, Radical Scavenging, and Catalytic Activities. Journal of Nanomaterials, 2022, 2022, 1-13.	2.7	6
12	Electrical and structural comparison of (100) and (002) oriented AlN thin films deposited by RF magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2022, 33, 12271-12280.	2.2	5
13	New Amphiphilic Ionic Liquids for the Demulsification of Water-in-Heavy Crude Oil Emulsion. Molecules, 2022, 27, 3238.	3.8	6
14	Facile Preparation of Porous Carbon Flake-Supported Nickel Nanoplates as Effective Catalysts for Methanol Electrooxidation. Catalysts, 2022, 12, 556.	3.5	1
15	Synthesis and Antiproliferative Activity of a New Series of Mono- and Bis(dimethylpyrazolyl)-s-triazine Derivatives Targeting EGFR/PI3K/AKT/mTOR Signaling Cascades. ACS Omega, 2022, 7, 24858-24870.	3.5	14
16	Development of antimicrobial, UV blocked and photocatalytic self-cleanable cotton fibers decorated with silver nanoparticles using silver carbamate and plasma activation. Cellulose, 2021, 28, 1105-1121.	4.9	50
17	Facile development of photochromic cellulose acetate transparent nanocomposite film immobilized with lanthanideâ€doped pigment: ultraviolet blocking, superhydrophobic, and antimicrobial activity. Luminescence, 2021, 36, 543-555.	2.9	42
18	Chloroquine and hydroxychloroquine inhibitors for COVID-19 sialic acid cellular receptor: Structure, hirshfeld atomic charge analysis and solvent effect. Journal of Molecular Structure, 2021, 1228, 129459.	3.6	6

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19	Nickel ferrite beehive-like nanosheets for binder-free and high-energy-storage supercapacitor electrodes. Journal of Alloys and Compounds, 2021, 852, 156929.	5.5	44
20	Core-shell nanofibers from poly(vinyl alcohol) based biopolymers using emulsion electrospinning as drug delivery system for cephalexin drug. Journal of Macromolecular Science - Pure and Applied Chemistry, 2021, 58, 130-144.	2.2	25
21	Thermophoretic particle deposition in time-dependent flow of hybrid nanofluid over rotating and vertically upward/ downward moving disk. Surfaces and Interfaces, 2021, 22, 100864.	3.0	100
22	Convective flow of a Maxwell hybrid nanofluid due to pressure gradient in a channel. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1319-1329.	3.6	48
23	Investigation of a hyperbolic annular fin with temperature dependent thermal conductivity by two step third derivative block method (TSTDBM). Microsystem Technologies, 2021, 27, 2063-2074.	2.0	7
24	In vivo study of conductive 3D printed PCL/MWCNTs scaffolds with electrical stimulation for bone tissue engineering. Bio-Design and Manufacturing, 2021, 4, 190-202.	7.7	46
25	Synthesis of high molar extinction coefficient pushâ€“pull tricyanofuran-based disperse dyes: Biological activity and dyeing performance. New Journal of Chemistry, 2021, 45, 2208-2216.	2.8	10
26	Exploration of the antibacterial and wound healing potential of a PLGA/silk fibroin based electrospun membrane loaded with zinc oxide nanoparticles. Journal of Materials Chemistry B, 2021, 9, 1452-1465.	5.8	78
27	Effect of Different Gamma Dose and Chemical Etching on Pre- and Post-Alpha-Irradiated PM-355 Polymer. International Journal of Polymer Science, 2021, 2021, 1-9.	2.7	2
28	Supersonically Sprayed Washable, Wearable, Stretchable, Hydrophobic, and Antibacterial rGO/AgNW Fabric for Multifunctional Sensors and Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 10013-10025.	8.0	70
29	Pool boiling enhancement using hierarchically structured ZnO nanowires grown via electrospraying and chemical bath deposition. Applied Thermal Engineering, 2021, 187, 116553.	6.0	17
30	Fabrication of Sustained Release System of Electrospun Poly(acrylic acid)/Dextran Nanofibers Using Emulsion Electrospinning as Wound Dressing Applications. Journal of Nanoscience and Nanotechnology, 2021, 21, 1613-1622.	0.9	2
31	Synthesis, absorption, emission and solvatochromic investigation of bioactive isatin tethered acridinedione conjugates. Materials Today Communications, 2021, 26, 102109.	1.9	0
32	Immobilization of anthocyanin extract from red-cabbage into electrospun polyvinyl alcohol nanofibers for colorimetric selective detection of ferric ions. Journal of Environmental Chemical Engineering, 2021, 9, 105072.	6.7	43
33	Tailoring the structure-morphology-vibrational-optical-dielectric and electrical characteristics of Ce@NiO NPs produced by facile combustion route for optoelectronics. Materials Science in Semiconductor Processing, 2021, 126, 105647.	4.0	22
34	Two-Step Facile Preparation of 2D MoS2/ZnO Nanocomposite <math xmlns="http://www.w3.org/1998/Math/MathML" id="M1"> <mi>p</mi> </math>-<math xmlns="http://www.w3.org/1998/Math/MathML" id="M2"> <mi>n</mi> </math> Junctions with Enhanced Photoelectric Performance. International Journal of Photoenergy, 2021, 2021, 1-8.	2.5	5
35	Preparation of flameâ€retardant, hydrophobic, ultraviolet protective, and luminescent transparent wood. Luminescence, 2021, 36, 1922-1932.	2.9	38
36	Facile production of smart superhydrophobic nanocomposite for wood coating towards longâ€lasting glowâ€inâ€theâ€dark photoluminescence. Luminescence, 2021, 36, 2004-2013.	2.9	12

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37	The antimicrobial activity of silver nanoparticles biocomposite films depends on the silver ions release behaviour. Food Chemistry, 2021, 359, 129859.	8.2	49
38	In situ preparation of composites based on trishydrazino-s-triazine (1,4-/1,3-) benzene dicarboxyaldehyde with reduced graphene oxide and their electrical conductivity performance. Journal of Materials Research and Technology, 2021, 10, 1280-1290.	5.8	0
39	Effects of Technical Textiles and Synthetic Nanofibers on Environmental Pollution. Polymers, 2021, 13, 155.	4.5	67
40	Modified Electrospun Polymeric Nanofibers and Their Nanocomposites as Nanoadsorbents for Toxic Dye Removal from Contaminated Waters: A Review. Polymers, 2021, 13, 20.	4.5	59
41	Biocidal Polymers: Synthesis, Characterization and Antimicrobial Activity of Bis-Quaternary Onium Salts of Poly(aspartate-co-succinimide). Polymers, 2021, 13, 23.	4.5	8
42	Nonlinear solution of the reactionâ€“diffusion equation using a two-step thirdâ€“fourth-derivative block method. International Journal of Nonlinear Sciences and Numerical Simulation, 2021, 22, 111-118.	1.0	0
43	Synthesis, and Molecular Structure Investigations of a New s-Triazine Derivatives Incorporating Pyrazole/Piperidine/Aniline Moieties. Crystals, 2021, 11, 1500.	2.2	2
44	In-vitro cytotoxicity evaluation of surface design luminescent lanthanide core/shell nanocrystals. Arabian Journal of Chemistry, 2020, 13, 1259-1270.	4.9	11
45	Splash suppression during wafer wet cleaning through drop penetration across metal meshes and porous fiber mats. Journal of Visualization, 2020, 23, 269-285.	1.8	4
46	PLCL/Silk fibroin based antibacterial nano wound dressing encapsulating oregano essential oil: Fabrication, characterization and biological evaluation. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111352.	5.0	40
47	Hydroxyethyl cellulose/bacterial cellulose cryogel dopped silver@titanium oxide nanoparticles: Antimicrobial activity and controlled release of Tebuconazole fungicide. International Journal of Biological Macromolecules, 2020, 165, 1010-1021.	7.5	63
48	Recycling and Reusing Polyethylene Waste as Antistatic and Electromagnetic Interference Shielding Materials. International Journal of Polymer Science, 2020, 2020, 1-15.	2.7	9
49	Engineered dual-scale poly (Îµ-caprolactone) scaffolds using 3D printing and rotational electrospinning for bone tissue regeneration. Additive Manufacturing, 2020, 36, 101452.	3.0	38
50	Self-Nitrogen-Doped Nanoporous Carbons Derived from Poly(1,5-diaminonaphthalene) for the Removal of Toxic Dye Pollutants from Wastewater: Non-Linear Isotherm and Kinetic Analysis. Polymers, 2020, 12, 2563.	4.5	10
51	Programmable Liveâ€Cell CRISPR Imaging with Toeholdâ€Switchâ€Mediated Strand Displacement. Angewandte Chemie, 2020, 132, 20793-20799.	2.0	9
52	Bandgap-Tuned 2D Boron Nitride/Tungsten Nitride Nanocomposites for Development of High-Performance Deep Ultraviolet Selective Photodetectors. Nanomaterials, 2020, 10, 1433.	4.1	8
53	Programmable Liveâ€Cell CRISPR Imaging with Toeholdâ€Switchâ€Mediated Strand Displacement. Angewandte Chemie - International Edition, 2020, 59, 20612-20618.	13.8	48
54	Synthesis of aminated electrospun carbon nanofibers and their application in removal of cationic dye. Materials Research Bulletin, 2020, 132, 111003.	5.2	12

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55	DNA-Based Fabrication for Nanoelectronics. Nano Letters, 2020, 20, 5604-5615.	9.1	33
56	Novel rare earth Dy doping impact on physical properties of PbI2 nanostructures synthesized by microwave route for optoelectronics. Materials Characterization, 2020, 170, 110688.	4.4	7
57	Development of Green and Sustainable Cellulose Acetate/Graphene Oxide Nanocomposite Films as Efficient Adsorbents for Wastewater Treatment. Polymers, 2020, 12, 2501.	4.5	29
58	Facile development of microporous cellulose acetate xerogel immobilized with hydrazone probe for real time vapochromic detection of toxic ammonia. Journal of Environmental Chemical Engineering, 2020, 8, 104573.	6.7	34
59	Nitrogen-Doped Carbon Quantum Dots from Poly(ethyleneimine) for Optical Dual-Mode Determination of Cu²⁺ and <scp>l</scp>-Cysteine and Their Logic Gate Operation. ACS Applied Materials & Interfaces, 2020, 12, 47245-47255.	8.0	52
60	Greener Synthesis of Zinc Oxide Nanoparticles: Characterization and Multifaceted Applications. Molecules, 2020, 25, 4198.	3.8	64
61	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.	2.7	7
62	Simple Development of Novel Reversible Colorimetric Thermometer Using Urea Organogel Embedded with Thermochromic Hydrazone Chromophore. Chemosensors, 2020, 8, 132.	3.6	18
63	In Situ Preparation of Novel Porous Nanocomposite Hydrogel as Effective Adsorbent for the Removal of Cationic Dyes from Polluted Water. Polymers, 2020, 12, 3002.	4.5	31
64	Coreâ€“shell Au@Se nanoparticles embedded in cellulose acetate/polyvinylidene fluoride scaffold for wound healing. Journal of Materials Research and Technology, 2020, 9, 15045-15056.	5.8	38
65	A facile one-pot flash combustion synthesis of La@ZnO nanoparticles and their characterizations for optoelectronic and photocatalysis applications. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 395, 112465.	3.9	51
66	Electrospinning nanofiber scaffolds for soft and hard tissue regeneration. Journal of Materials Science and Technology, 2020, 59, 243-261.	10.7	135
67	Supersonically sprayed carbon nanotubes and silver nanowires as efficient heat spreaders and cooling films. Journal of Applied Physics, 2020, 127, 105105.	2.5	5
68	A Facile Approach for Elimination of Electroneutral/Anionic Organic Dyes from Water Using a Developed Carbon-Based Polymer Nanocomposite Membrane. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	15
69	Methylene blue degradation under visible light of metallic nanoparticles scattered into graphene oxide using laser ablation technique in aqueous solutions. Journal of Molecular Liquids, 2020, 315, 113794.	4.9	74
70	ZnO/MnO_xNanoflowers for High-Performance Supercapacitor Electrodes. ACS Sustainable Chemistry and Engineering, 2020, 8, 3697-3708.	6.7	106
71	One-step straightforward synthesis of Tb-doped NiO nanocomposites using flash combustion method: Structural, optical, luminescent, and electrical switching properties. Ceramics International, 2020, 46, 10678-10690.	4.8	27
72	Microwave-Assisted Synthesis of Cross-Linked Co-poly(itaconic anhydride-methyl methacrylate): The Effects of the Molar Ratio and Cross-Linking Agent on the Thermal Stability. International Journal of Polymer Science, 2020, 2020, 1-11.	2.7	4

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73	A biodegradable multifunctional nanofibrous membrane for periodontal tissue regeneration. Acta Biomaterialia, 2020, 108, 207-222.	8.3	96
74	Electrosprayed MnO2 on ZnO nanorods with atomic layer deposited TiO2 layer for photoelectrocatalytic water splitting. Applied Catalysis B: Environmental, 2020, 271, 118928.	20.2	55
75	Supersonically sprayed Fe2O3/C/CNT composites for highly stable Li-ion battery anodes. Chemical Engineering Journal, 2020, 395, 125018.	12.7	55
76	Effect of Bi contents on key physical properties of NiO NPs synthesized by flash combustion process and their cytotoxicity studies for biomedical applications. Ceramics International, 2020, 46, 19691-19700.	4.8	14
77	Dodecahedral ZnO/C framework on reduced graphene oxide sheets for high-performance Li-ion battery anodes. Journal of Alloys and Compounds, 2020, 834, 155208.	5.5	24
78	An atorvastatin calcium and poly(L-lactide-co-caprolactone) core-shell nanofiber-covered stent to treat aneurysms and promote reendothelialization. Acta Biomaterialia, 2020, 111, 102-117.	8.3	20
79	New amphiphilic pyridinium ionic liquids for demulsification of water Arabic heavy crude oil emulsions. Journal of Molecular Liquids, 2020, 312, 113407.	4.9	34
80	Synthesis, Characterization of sym-2,4,6-trisubstituted-s-Triazine Derivatives and Their Effects on Flame Retardancy of Polypropylene Composites. Processes, 2020, 8, 581.	2.8	4
81	Rapid microwave-assisted synthesis of Ag-doped PbS nanoparticles for optoelectronic applications. Ceramics International, 2019, 45, 21975-21985.	4.8	70
82	Synthesis, Characterization and Fabrication of Graphene/Boron Nitride Nanosheets Heterostructure Tunneling Devices. Nanomaterials, 2019, 9, 925.	4.1	7
83	Atmospheric pressure plasma needle jet treated on aluminium thin film for semiconductor industries. Materials Today: Proceedings, 2019, 7, 715-720.	1.8	5
84	Alkali-activated electrospun carbon nanofibers as an efficient bifunctional adsorbent for cationic and anionic dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123835.	4.7	29
85	k-Carrageenan â€“ A versatile biopolymer for the preparation of a hydrophilic PVDF composite membrane. European Polymer Journal, 2019, 120, 109219.	5.4	27
86	Enhanced hydrogen evolution reaction on highly stable titaniaâ€supported PdO and Eu₂O₃nanocomposites in a strong alkaline solution. International Journal of Energy Research, 2019, 43, 5367-5383.	4.5	22
87	Effective adsorption of Coomassie brilliant blue dye using poly(phenylene diamine)grafted electrospun carbon nanofibers as a novel adsorbent. Materials Chemistry and Physics, 2019, 234, 133-145.	4.0	62
88	An expeditious and environmentally benign synthesis of dispiro-3-phenylpyrrolothiazoles in ACI/EG eutectic mixture and its antioxidant and antimicrobial activities against urinary tract pathogens. BMC Chemistry, 2019, 13, 42.	3.8	3
89	Structural, morphological, opto-nonlinear-limiting studies on Dy:PbI2/FTO thin films derived facilely by spin coating technique for optoelectronic technology. Journal of Physics and Chemistry of Solids, 2019, 130, 189-196.	4.0	72
90	Glucosamine-6-phosphate synthase inhibiting C3-Î²-cholesterol tethered spiro heterocyclic conjugates: Synthesis and their insight of DFT and docking study. Bioorganic Chemistry, 2019, 88, 102920.	4.1	4

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91	Facilely synthesized Cu:PbS nanoparticles and their structural, morphological, optical, dielectric and electrical studies for optoelectronic applications. Materials Science in Semiconductor Processing, 2019, 96, 16-23.	4.0	56
92	Effect of Gd doping on structural, optical properties, photoluminescence and electrical characteristics of CdS nanoparticles for optoelectronics. Ceramics International, 2019, 45, 10133-10141.	4.8	54
93	Novel Eco-Synthesis of PD Silver Nanoparticles: Characterization, Assessment of Its Antimicrobial and Cytotoxicity Properties. Materials, 2019, 12, 3890.	2.9	8
94	Fabrication of functionalized electrospun carbon nanofibers for enhancing lead-ion adsorption from aqueous solutions. Scientific Reports, 2019, 9, 19467.	3.3	44
95	Mesoporous multi-silica layer-coated Y2O3:Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. Materials Science and Engineering C, 2019, 96, 365-373.	7.3	42
96	Preparation/Processing of Polymerâ€“Carbon Composites by Different Techniques. Springer Series on Polymer and Composite Materials, 2019, , 99-124.	0.7	6
97	Electrical Conductivity of Polymerâ€“Carbon Composites: Effects of Different Factors. Springer Series on Polymer and Composite Materials, 2019, , 159-210.	0.7	5
98	Mesoporous silica modified luminescent Gd2O3:Eu nanoparticles: physicochemical and luminescence properties. Journal of Sol-Gel Science and Technology, 2019, 89, 785-795.	2.4	22
99	In situ formation and immobilization of silver nanoparticles using thermo-responsive microgel particles and their cytotoxicity evaluation. Materials Letters, 2019, 235, 197-201.	2.6	8
100	Performance Enhancement of Modified 3D SWCNT/RVC Electrodes Using Microwave-Irradiated Graphene Oxide. Nanoscale Research Letters, 2019, 14, 351.	5.7	7
101	Synthesis of Metallocene Catalyzed Ethylene 1,7-Octadiene Copolymer: Effect of Copolymerization on Polymer Properties. Macromolecular Research, 2018, 26, 295-304.	2.4	3
102	Bacterial Analysis Using an Electrochemical DNA Biosensor with Poly-Adenine-Mediated DNA Self-Assembly. ACS Applied Materials & Interfaces, 2018, 10, 6895-6903.	8.0	45
103	A compact design of a characterization station for far UV photodetectors. Review of Scientific Instruments, 2018, 89, 015001.	1.3	6
104	Highly biocompatible, monodispersed and mesoporous La(OH)3:Eu@mSiO2 core-shell nanospheres: Synthesis and luminescent properties. Colloids and Surfaces B: Biointerfaces, 2018, 163, 133-139.	5.0	24
105	UV photodetector based on energy bandgap shifted hexagonal boron nitride nanosheets for high-temperature environments. Journal Physics D: Applied Physics, 2018, 51, 045102.	2.8	12
106	ACI/EG eutectic mixture mediated synthesis, characterization andin vitroosteoblast differentiation assessment of spiropyrrolo[1,2-b]isoquinoline analogues. RSC Advances, 2018, 8, 16303-16313.	3.6	9
107	Investigation of Different Colloidal Porous Silicon Solutions and Their Composite Solid Matrix Rods by Optical Techniques. Journal of Electronic Materials, 2018, 47, 3596-3607.	2.2	1
108	Electrical properties and aquatic ecotoxicity effects of ZnS nanocrystals. Electrical Engineering, 2018, 100, 1305-1315.	2.0	0

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109	Epitope Binning Assay Using an Electron Transfer-Modulated Aptamer Sensor. ACS Applied Materials & Interfaces, 2018, 10, 341-349.	8.0	17
110	Influence of Biopolymer Carrageenan and Glycerine on the Properties of Extrusion Printed Inks of Carbon Nanotubes. Polymers, 2018, 10, 1148.	4.5	5
111	Golden single-atomic-site platinum electrocatalysts. Nature Materials, 2018, 17, 1033-1039.	27.5	266
112	Semibath Polymerization Approach for One-Pot Synthesis of Temperature- and Glucose-Responsive Core-Shell Nanogel Particles. Journal of Nanomaterials, 2018, 2018, 1-9.	2.7	4
113	Single-Walled Carbon Nanotube (SWCNT) Loaded Porous Reticulated Vitreous Carbon (RVC) Electrodes Used in a Capacitive Deionization (CDI) Cell for Effective Desalination. Nanomaterials, 2018, 8, 527.	4.1	17
114	Chemical and Electrochemical Synthesis of Polypyrrole Using Carrageenan as a Dopant: Polypyrrole/Multi-Walled Carbon Nanotube Nanocomposites. Polymers, 2018, 10, 632.	4.5	47
115	Plasma diagnostic by optical emission spectroscopy on reactive magnetron sputtering plasma â€“A Brief Introduction. Journal of Physics: Conference Series, 2018, 1027, 012005.	0.4	2
116	Improvement in Electrode Performance of Novel SWCNT Loaded Three-Dimensional Porous RVC Composite Electrodes by Electrochemical Deposition Method. Nanomaterials, 2018, 8, 19.	4.1	19
117	Temperature-Responsive Polymer Microgel-Gold Nanorods Composite Particles: Physicochemical Characterization and Cytocompatibility. Polymers, 2018, 10, 99.	4.5	11
118	Fluorescent biosensors enabled by graphene and graphene oxide. Biosensors and Bioelectronics, 2017, 89, 96-106.	10.1	215
119	Light emitting composite rods based on porous silicon in ormosils and polymer matrices for optical applications. Optics and Laser Technology, 2017, 91, 203-211.	4.6	4
120	Size- and shape-controlled synthesis of well-organised carbon nanotubes using nanoporous anodic alumina with different pore diameters. Journal of Colloid and Interface Science, 2017, 491, 375-389.	9.4	12
121	Probing Cellular Molecules with PolyA-Based Engineered Aptamer Nanobeacon. ACS Applied Materials & Interfaces, 2017, 9, 8014-8020.	8.0	95
122	Convection-Driven Pull-Down Assays in Nanoliter Droplets Using Scaffolded Aptamers. Analytical Chemistry, 2017, 89, 3468-3473.	6.5	52
123	Yolkâ€“shell nanostructured Fe₃O₄@C magnetic nanoparticles with enhanced peroxidase-like activity for label-free colorimetric detection of H₂O₂and glucose. Nanoscale, 2017, 9, 4508-4515.	5.6	175
124	Construction of DNA-based logic gates on nanostructured microelectrodes. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	4
125	Composite rods based on nanoscale porous silicon in solâ€“gel silica and ormosil matrices for light-emitting applications. Journal of Sol-Gel Science and Technology, 2017, 82, 551-562.	2.4	6
126	Size-Dependent Regulation of Intracellular Trafficking of Polystyrene Nanoparticle-Based Drug-Delivery Systems. ACS Applied Materials & Interfaces, 2017, 9, 18619-18625.	8.0	84

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127	Nanocubes of indium oxide induce cytotoxicity and apoptosis through oxidative stress in human lung epithelial cells. Colloids and Surfaces B: Biointerfaces, 2017, 156, 157-164.	5.0	30
128	Facile synthesis of highly thermally stable TiO₂ photocatalysts. New Journal of Chemistry, 2017, 41, 5021-5027.	2.8	41
129	The Inhibition Effect of Graphene Oxide Nanosheets on the Development ofStreptococcus mutansBiofilms. Particle and Particle Systems Characterization, 2017, 34, 1700001.	2.3	27
130	Graphene Nanoprobes for Real-Time Monitoring of Isothermal Nucleic Acid Amplification. ACS Applied Materials & Interfaces, 2017, 9, 15245-15253.	8.0	23
131	Î²-Carrageenan as a promising pore-former for the preparation of a highly porous polyphenylsulfone membrane. Materials Letters, 2017, 204, 108-111.	2.6	8
132	Impact of surface coating on physical properties of europium-doped gadolinium fluoride microspheres. Journal of Fluorine Chemistry, 2017, 199, 7-13.	1.7	22
133	High Operating Temperature and Low Power Consumption Boron Nitride Nanosheets Based Broadband UV Photodetector. Scientific Reports, 2017, 7, 42973.	3.3	58
134	Inexpensive ionic liquid mediated green synthetic approach of multi-functionalized regioselective Î²-lactam fused isoxazolidine heterocyclic hybrids. Tetrahedron, 2017, 73, 322-330.	1.9	9
135	Branched Nanostructure for Dual-Model Imaging. Nano LIFE, 2017, 07, 1750003.	0.9	0
136	Highly biocompatible carbon nanocapsules derived from plastic waste for advanced cancer therapy. Journal of Drug Delivery Science and Technology, 2017, 41, 351-358.	3.0	11
137	Multifunctional Yolkâ€“Shell Nanostructure as a Superquencher for Fluorescent Analysis of Potassium Ion Using Guanine-Rich Oligonucleotides. ACS Applied Materials & Interfaces, 2017, 9, 30406-30413.	8.0	16
138	Poly-cytosine-mediated nanotags for SERS detection of Hg²⁺. Nanoscale, 2017, 9, 14184-14191.	5.6	61
139	Real-Time Continuous Identification of Greenhouse Plant Pathogens Based on Recyclable Microfluidic Bioassay System. ACS Applied Materials & Interfaces, 2017, 9, 31568-31575.	8.0	28
140	Recognizing single phospholipid vesicle collisions on carbon fiber nanoelectrode. Science China Chemistry, 2017, 60, 1474-1480.	8.2	17
141	DNA Tetrahedral Nanostructure-Based Electrochemical miRNA Biosensor for Simultaneous Detection of Multiple miRNAs in Pancreatic Carcinoma. ACS Applied Materials & Interfaces, 2017, 9, 24118-24125.	8.0	139
142	An effective strategy to enhance mechanical, electrical, andÂelectromagnetic shielding effectiveness of chlorinated polyethylene-carbon nanofiber nanocomposites. Composites Part B: Engineering, 2017, 109, 155-169.	12.0	123
143	Determination of percolation threshold and electrical conductivity of polyvinylidene fluoride (PVDF)/short carbon fiber (SCF) composites: effect of SCF aspect ratio. Polymer International, 2017, 66, 573-582.	3.1	56
144	Autophagy and lysosomal dysfunction: A new insight into mechanism of synergistic pulmonary toxicity of carbon black-metal ions co-exposure. Carbon, 2017, 111, 322-333.	10.3	32

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145	Synthesis and characterization of hybrid nanocomposites as highly-efficient conducting CH4 gas sensor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 502-509.	3.9	9
146	Nanodiamonds Interfere with Wnt-Regulated Cell Migration and Adipocyte Differentiation in Cells and Embryonic Development In Vivo. Particle and Particle Systems Characterization, 2017, 34, 1600208.	2.3	5
147	Polyimideâ€carbon nanotubes nanocomposites: electrical conduction behavior under cryogenic condition. Polymer Engineering and Science, 2017, 57, 291-298.	3.1	19
148	Construction of a Novel Three-Dimensional PEDOT/RVC Electrode Structure for Capacitive Deionization: Testing and Performance. Materials, 2017, 10, 847.	2.9	7
149	Exploring the Effects of Argon Plasma Treatment on Plasmon Frequency and the Chemiresistive Properties of Polymer-Carbon Nanotube Metacomposite. Materials, 2017, 10, 986.	2.9	2
150	High-Performance and Self-Powered Deep UV Photodetectors Based on High Quality 2D Boron Nitride Nanosheets. Nanomaterials, 2017, 7, 454.	4.1	25
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