

M S Akhtar

List of Publications by Year in descending order

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487
papers

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10373

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493
all docs

493
docs citations

493
times ranked

20164
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc Oxide Nanostructures for NO ₂ Gas Sensor Applications: A Review. Nano-Micro Letters, 2015, 7, 97-120.	14.4	649
2	Zinc oxide nanonail based chemical sensor for hydrazine detection. Chemical Communications, 2008, , 166-168.	2.2	442
3	Biomass-derived nitrogen-doped carbon quantum dots: highly selective fluorescent probe for detecting Fe ³⁺ ions and tetracyclines. Journal of Colloid and Interface Science, 2019, 539, 332-341.	5.0	424
4	Green synthesis of CuO nanoparticles with leaf extract of Calotropis gigantea and its dye-sensitized solar cells applications. Journal of Alloys and Compounds, 2015, 632, 321-325.	2.8	277
5	Perovskite Solar Cells: Influence of Hole Transporting Materials on Power Conversion Efficiency. ChemSusChem, 2016, 9, 10-27.	3.6	267
6	ZnO nanoparticles induced oxidative stress and apoptosis in HepG2 and MCF-7 cancer cells and their antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2014, 117, 267-276.	2.5	254
7	Highly effective Fe-doped TiO ₂ nanoparticles photocatalysts for visible-light driven photocatalytic degradation of toxic organic compounds. Journal of Colloid and Interface Science, 2015, 450, 213-223.	5.0	248
8	ZnO nanosheet networks and hexagonal nanodiscs grown on silicon substrate: growth mechanism and structural and optical properties. Nanotechnology, 2006, 17, 2174-2180.	1.3	212
9	Highly-sensitive cholesterol biosensor based on well-crystallized flower-shaped ZnO nanostructures. Talanta, 2009, 78, 284-289.	2.9	179
10	Influence of Sn doping on ZnO nanostructures from nanoparticles to spindle shape and their photoelectrochemical properties for dye sensitized solar cells. Chemical Engineering Journal, 2012, 187, 351-356.	6.6	176
11	Novel graphene/polyaniline nanocomposites and its photocatalytic activity toward the degradation of rose Bengal dye. Chemical Engineering Journal, 2012, 210, 220-228.	6.6	164
12	Comprehensive investigation of CO ₂ adsorption on Mg-Al-CO ₃ LDH-derived mixed metal oxides. Journal of Materials Chemistry A, 2013, 1, 12782.	5.2	164
13	Chemical Sensing Applications of ZnO Nanomaterials. Materials, 2018, 11, 287.	1.3	160
14	ZnO nano-mushrooms for photocatalytic degradation of methyl orange. Materials Letters, 2013, 97, 100-103.	1.3	156
15	Ce-doped ZnO nanoparticles for efficient photocatalytic degradation of direct red-23 dye. Ceramics International, 2015, 41, 7773-7782.	2.3	150
16	Photocatalysis from UV/Vis to Near-Infrared Light: Towards Full Solar Light Spectrum Activity. ChemCatChem, 2015, 7, 559-573.	1.8	148
17	Novel Preparation of Anatase TiO ₂ @Reduced Graphene Oxide Hybrids for High-Performance Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 6635-6642.	4.0	147
18	CuO nanosheets as potential scaffolds for gas sensing applications. Sensors and Actuators B: Chemical, 2017, 250, 24-31.	4.0	137

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19	Controlled synthesis of various ZnO nanostructured materials by capping agents-assisted hydrothermal method for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2008, 53, 7869-7874.	2.6	132
20	Facile synthesis and optical properties of Co ₃ O ₄ nanostructures by the microwave route. <i>Superlattices and Microstructures</i> , 2011, 49, 416-421.	1.4	131
21	Sulfamic Acid-Doped Polyaniline Nanofibers Thin Film-Based Counter Electrode: Application in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4760-4764.	1.5	129
22	Ethanol chemi-sensor: Evaluation of structural, optical and sensing properties of CuO nanosheets. <i>Materials Letters</i> , 2011, 65, 1400-1403.	1.3	127
23	Rapid photocatalytic degradation of crystal violet dye over ZnO flower nanomaterials. <i>Materials Letters</i> , 2013, 96, 228-232.	1.3	124
24	Photocatalytic degradation of Eriochrome Black T dye using well-crystalline anatase TiO ₂ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2013, 581, 392-397.	2.8	123
25	Ultra-sensitive hydrazine chemical sensor based on high-aspect-ratio ZnO nanowires. <i>Talanta</i> , 2009, 77, 1376-1380.	2.9	121
26	An effective nanocomposite of polyaniline and ZnO: preparation, characterizations, and its photocatalytic activity. <i>Colloid and Polymer Science</i> , 2011, 289, 415-421.	1.0	118
27	Hydrazine chemical sensing by modified electrode based on in situ electrochemically synthesized polyaniline/graphene composite thin film. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 177-183.	4.0	108
28	Synthesis, Characterization and Effect of pH Variation on Zinc Oxide Nanostructures. <i>Materials Transactions</i> , 2009, 50, 2092-2097.	0.4	107
29	The visible light-driven photocatalytic degradation of Alizarin red S using Bi-doped TiO ₂ nanoparticles. <i>New Journal of Chemistry</i> , 2014, 38, 3127-3136.	1.4	107
30	Large-scale synthesis of ZnO balls made of fluffy thin nanosheets by simple solution process: Structural, optical and photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 521-528.	5.0	103
31	Advances in Responsively Conductive Polymer Composites and Sensing Applications. <i>Polymer Reviews</i> , 2021, 61, 157-193.	5.3	103
32	Recent Advances and Perspectives of Carbon-Based Nanostructures as Anode Materials for Li-ion Batteries. <i>Materials</i> , 2019, 12, 1229.	1.3	102
33	Well-crystalline porous ZnO-SnO ₂ nanosheets: An effective visible-light driven photocatalyst and highly sensitive smart sensor material. <i>Talanta</i> , 2015, 131, 490-498.	2.9	100
34	Growth and properties of Ag-doped ZnO nanoflowers for highly sensitive phenyl hydrazine chemical sensor application. <i>Talanta</i> , 2012, 93, 257-263.	2.9	99
35	Sonophotocatalytic degradation of methyl orange using ZnO nano-aggregates. <i>Journal of Alloys and Compounds</i> , 2015, 629, 167-172.	2.8	98
36	Solvent-free graphene liquids: Promising candidates for lubricants without the base oil. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 159-167.	5.0	98

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37	Ce-doped ZnO nanorods for the detection of hazardous chemical. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 72-78.	4.0	97
38	Synthesis, characterization and acetone gas sensing applications of Ag-doped ZnO nanoneedles. <i>Ceramics International</i> , 2017, 43, 6765-6770.	2.3	97
39	Growth and properties of well-crystalline cerium oxide (CeO ₂) nanoflakes for environmental and sensor applications. <i>Journal of Colloid and Interface Science</i> , 2015, 454, 61-68.	5.0	94
40	Photocatalytic degradation of Alizarin Red S using simply synthesized ZnO nanoparticles. <i>Materials Letters</i> , 2013, 106, 385-389.	1.3	93
41	Photocatalytic degradation of the antibiotic levofloxacin using highly crystalline TiO ₂ nanoparticles. <i>New Journal of Chemistry</i> , 2014, 38, 3220-3226.	1.4	93
42	Cross-linking of dialdehyde carboxymethyl cellulose with silk sericin to reinforce sericin film for potential biomedical application. <i>Carbohydrate Polymers</i> , 2019, 212, 403-411.	5.1	93
43	Water splitting on Rhodamine-B dye sensitized Co-doped TiO ₂ catalyst under visible light. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 397-401.	10.8	92
44	Tungsten oxide (WO ₃) nanoparticles as scaffold for the fabrication of hydrazine chemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 231-237.	4.0	92
45	Synthesis of CeO ₂ @ZnO nanoellipsoids as potential scaffold for the efficient detection of 4-nitrophenol. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 1044-1050.	4.0	92
46	Effect of annealing temperature on the properties and photocatalytic efficiencies of ZnO nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015, 648, 46-52.	2.8	92
47	Enhanced photoresponse under visible light in Pt ionized TiO ₂ nanotube for the photocatalytic splitting of water. <i>Catalysis Communications</i> , 2008, 10, 1-5.	1.6	90
48	Ultra-high sensitive ammonia chemical sensor based on ZnO nanopencils. <i>Talanta</i> , 2012, 89, 155-161.	2.9	89
49	ZnO doped SnO ₂ nanoparticles heterojunction photo-catalyst for environmental remediation. <i>Journal of Alloys and Compounds</i> , 2015, 653, 327-333.	2.8	89
50	Advanced ZnO@graphene oxide nanohybrid and its photocatalytic Applications. <i>Materials Letters</i> , 2013, 100, 261-265.	1.3	88
51	Green synthesis of Co ₃ O ₄ nanoparticles and their applications in thermal decomposition of ammonium perchlorate and dye-sensitized solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 193, 181-188.	1.7	88
52	Three-Dimensional Crumpled Graphene-Based Nanosheets with Ultrahigh NO ₂ Gas Sensibility. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11819-11827.	4.0	88
53	Solar light driven photocatalytic degradation of levofloxacin using TiO ₂ /carbon-dot nanocomposites. <i>New Journal of Chemistry</i> , 2018, 42, 7445-7456.	1.4	87
54	Vertically Aligned ZnO Nanorods on Hot Filament Chemical Vapor Deposition Grown Graphene Oxide Thin Film Substrate: Solar Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4405-4412.	4.0	85

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55	Fabrication and characterization of highly sensitive and selective sensors based on porous NiO nanodisks. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 604-615.	4.0	85
56	Growth of Comb-like ZnO Nanostructures for Dye-sensitized Solar Cells Applications. <i>Nanoscale Research Letters</i> , 2009, 4, 1004-1008.	3.1	84
57	CeO ₂ ZnO hexagonal nanodisks: Efficient material for the degradation of direct blue 15 dye and its simulated dye bath effluent under solar light. <i>Journal of Alloys and Compounds</i> , 2015, 620, 67-73.	2.8	84
58	TiO ₂ quantum dots for the photocatalytic degradation of indigo carmine dye. <i>Journal of Alloys and Compounds</i> , 2015, 650, 193-198.	2.8	83
59	NiCo ₂ O ₄ nanowire based flexible electrode materials for asymmetric supercapacitors. <i>New Journal of Chemistry</i> , 2018, 42, 7399-7406.	1.4	83
60	Cobalt oxide nanocubes as electrode material for the performance evaluation of electrochemical supercapacitor. <i>Ceramics International</i> , 2018, 44, 588-595.	2.3	83
61	A Review on Synthesis Processing, Chemical and Conduction Properties of Polyaniline and Its Nanocomposites. <i>Science of Advanced Materials</i> , 2010, 2, 441-462.	0.1	83
62	Growth, properties and dye-sensitized solar cells applications of ZnO nanorods grown by low-temperature solution process. <i>Superlattices and Microstructures</i> , 2009, 45, 529-534.	1.4	82
63	2D Sn-doped ZnO ultrathin nanosheet networks for enhanced acetone gas sensing application. <i>Ceramics International</i> , 2017, 43, 2418-2423.	2.3	81
64	An Insight into Atmospheric Plasma Jet Modified ZnO Quantum Dots Thin Film for Flexible Perovskite Solar Cell: Optoelectronic Transient and Charge Trapping Studies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10379-10390.	1.5	80
65	Zinc oxide nanostructure-based dye-sensitized solar cells. <i>Journal of Materials Science</i> , 2017, 52, 4743-4795.	1.7	79
66	Mimicking a Dog's Nose: Scrolling Graphene Nanosheets. <i>ACS Nano</i> , 2018, 12, 2521-2530.	7.3	78
67	MgO polyhedral nanocages and nanocrystals based glucose biosensor. <i>Electrochemistry Communications</i> , 2009, 11, 1353-1357.	2.3	77
68	Nanocomposites of poly(1-naphthylamine)/SiO ₂ and poly(1-naphthylamine)/TiO ₂ : Comparative photocatalytic activity evaluation towards methylene blue dye. <i>Applied Catalysis B: Environmental</i> , 2011, 103, 136-142.	10.8	77
69	Enhanced photocatalytic degradation of harmful dye and phenyl hydrazine chemical sensing using ZnO nanourchins. <i>Chemical Engineering Journal</i> , 2015, 262, 588-596.	6.6	76
70	A highly sensitive ammonia chemical sensor based on γ -Fe ₂ O ₃ nanoellipsoids. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 425401.	1.3	75
71	Highly sensitive hydrazine chemical sensor fabricated by modified electrode of vertically aligned zinc oxide nanorods. <i>Talanta</i> , 2012, 100, 377-383.	2.9	75
72	Architecture-controlled synthesis of M _x O _y (M = Ni, Fe, Cu) microfibrils from seaweed biomass for high-performance lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22708-22715.	5.2	75

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73	Layered double hydroxide/graphene oxide hybrid incorporated polysulfone substrate for thin-film nanocomposite forward osmosis membranes. <i>RSC Advances</i> , 2016, 6, 56599-56609.	1.7	75
74	Bi ₂ WO ₆ /C-Dots/TiO ₂ : A Novel Z-Scheme Photocatalyst for the Degradation of Fluoroquinolone Levofloxacin from Aqueous Medium. <i>Nanomaterials</i> , 2020, 10, 910.	1.9	75
75	Sno ₂ quantum dots as novel platform for electrochemical sensing of cadmium. <i>Electrochimica Acta</i> , 2015, 169, 97-102.	2.6	74
76	Rapid Solar-Light Driven Superior Photocatalytic Degradation of Methylene Blue Using MoS ₂ -ZnO Heterostructure Nanorods Photocatalyst. <i>Materials</i> , 2018, 11, 2254.	1.3	74
77	Reduced graphene/nanostructured cobalt oxide nanocomposite for enhanced electrochemical performance of supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 68-77.	5.0	74
78	2D Nanomaterial-Based Surface Plasmon Resonance Sensors for Biosensing Applications. <i>Micromachines</i> , 2020, 11, 779.	1.4	74
79	Hydrothermally grown ZnO nanoflowers for environmental remediation and clean energy applications. <i>Materials Research Bulletin</i> , 2012, 47, 2407-2414.	2.7	73
80	Ag-doped ZnO nanoellipsoids: Potential scaffold for photocatalytic and sensing applications. <i>Talanta</i> , 2015, 137, 204-213.	2.9	73
81	Synthesis, characterization and application of sol-gel derived mesoporous TiO ₂ nanoparticles for dye-sensitized solar cells. <i>Solar Energy</i> , 2010, 84, 2195-2201.	2.9	72
82	Enhanced electrochemical activity of low temperature solution process synthesized Co ₃ O ₄ nanoparticles for pseudo-supercapacitors applications. <i>Ceramics International</i> , 2016, 42, 1879-1885.	2.3	72
83	Phytoconstituents assisted green synthesis of cerium oxide nanoparticles for thermal decomposition and dye remediation. <i>Materials Research Bulletin</i> , 2017, 91, 98-107.	2.7	72
84	Enhanced visible light driven photocatalytic application of Ag ₂ O decorated ZnO nanorods heterostructures. <i>Separation and Purification Technology</i> , 2017, 183, 341-349.	3.9	72
85	Visible-light-driven photocatalytic and chemical sensing properties of SnS ₂ nanoflakes. <i>Talanta</i> , 2013, 114, 183-190.	2.9	71
86	Carbon nanotubes-polyethylene oxide composite electrolyte for solid-state dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 2418-2423.	2.6	70
87	Highly sensitive p-nitrophenol chemical sensor based on crystalline MnO ₂ nanotubes. <i>New Journal of Chemistry</i> , 2014, 38, 4420-4426.	1.4	70
88	Fabrication and characterization of highly sensitive and selective arsenic sensor based on ultra-thin graphene oxide nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 29-34.	4.0	70
89	Catalytic thermal decomposition of ammonium perchlorate and combustion of composite solid propellants over green synthesized CuO nanoparticles. <i>Thermochimica Acta</i> , 2015, 614, 110-115.	1.2	66
90	Sunlight-driven photocatalytic degradation of non-steroidal anti-inflammatory drug based on TiO ₂ quantum dots. <i>Journal of Colloid and Interface Science</i> , 2015, 459, 257-263.	5.0	66

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91	Effective NiCu NPs-doped carbon nanofibers as counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 102, 142-148.	2.6	65
92	Statistical analysis of gold nanoparticle-induced oxidative stress and apoptosis in myoblast (C2C12) cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 664-672.	2.5	65
93	High performance of NiCo nanoparticles-doped carbon nanofibers as counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 160, 1-6.	2.6	64
94	Graphitic carbon nitride (g-C ₃ N ₄) coated titanium oxide nanotube arrays with enhanced photo-electrochemical performance. <i>Dalton Transactions</i> , 2016, 45, 12702-12709.	1.6	64
95	Structural and optical properties of CuO layered hexagonal discs synthesized by a low-temperature hydrothermal process. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 155405.	1.3	63
96	Enhanced Photocatalytic Activity of B, N-Codoped TiO ₂ by a New Molten Nitrate Process. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 839-849.	0.9	63
97	Communication "Ultra-Small NiO Nanoparticles Grown by Low-Temperature Process for Electrochemical Application. <i>Journal of the Electrochemical Society</i> , 2020, 167, 167517.	1.3	63
98	NiO nanodisks: Highly efficient visible-light driven photocatalyst, potential scaffold for seed germination of <i>Vigna Radiata</i> and antibacterial properties. <i>Journal of Cleaner Production</i> , 2018, 190, 563-576.	4.6	62
99	Synthesis of polypropylene/Mg ₃ Al ₂ X ₂ (X = CO ₃ ²⁻ , NO ₃ ⁻ , Cl ⁻ , SO ₄ ²⁻) LDH nanocomposites using a solvent mixing method: thermal and melt rheological properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9928.	5.2	61
100	Zinc Oxide Nanomaterials for Photocatalytic Degradation of Methyl Orange: A Review. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 631-650.	0.4	60
101	<i>Azadirachta indica</i> plant-assisted green synthesis of Mn ₃ O ₄ nanoparticles: Excellent thermal catalytic performance and chemical sensing behavior. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 220-228.	5.0	60
102	Visible light driven photocatalytic degradation of fluoroquinolone levofloxacin drug using Ag ₂ O/TiO ₂ quantum dots: a mechanistic study and degradation pathway. <i>New Journal of Chemistry</i> , 2017, 41, 12079-12090.	1.4	60
103	Two-dimensional ytterbium oxide nanodisks based biosensor for selective detection of urea. <i>Biosensors and Bioelectronics</i> , 2017, 98, 254-260.	5.3	59
104	Low-temperature synthesis of Fe ₂ O ₃ hexagonal nanoparticles for environmental remediation and smart sensor applications. <i>Talanta</i> , 2013, 116, 1060-1066.	2.9	58
105	Silica-Based Bioactive Glasses and Their Applications in Hard Tissue Regeneration: A Review. <i>Pharmaceuticals</i> , 2021, 14, 75.	1.7	58
106	Fabrication and growth mechanism of hexagonal zinc oxide nanorods via solution process. <i>Journal of Materials Science</i> , 2010, 45, 2967-2973.	1.7	57
107	Microwave assisted rapid growth of Mg(OH) ₂ nanosheet networks for ethanol chemical sensor application. <i>Journal of Alloys and Compounds</i> , 2012, 519, 4-8.	2.8	57
108	Growth and characterization of nanospikes decorated ZnO sheets and their solar cell application. <i>Chemical Engineering Journal</i> , 2012, 195-196, 307-313.	6.6	56

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109	Fabrication and characterization of CuO nanoplates based sensor device for ethanol gas sensing application. <i>Chemical Physics Letters</i> , 2021, 763, 138204.	1.2	56
110	Formation of SiC nanowhiskers by carbothermic reduction of silica with activated carbon. <i>Materials Letters</i> , 2009, 63, 174-176.	1.3	55
111	Pd-Co-doped carbon nanofibers with photoactivity as effective counter electrodes for DSSCs. <i>Chemical Engineering Journal</i> , 2012, 211-212, 9-15.	6.6	55
112	Demonstrated photons to electron activity of S-doped TiO ₂ nanofibers as photoanode in the DSSC. <i>Materials Letters</i> , 2018, 225, 77-81.	1.3	55
113	Urea sensor based on tin oxide thin films prepared by modified plasma enhanced CVD. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 265-271.	4.0	54
114	Ultra-sensitive ethanol sensor based on rapidly synthesized Mg(OH) ₂ hexagonal nanodisks. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 97-102.	4.0	54
115	High efficiency solid state dye sensitized solar cells with graphene-polyethylene oxide composite electrolytes. <i>Nanoscale</i> , 2013, 5, 5403.	2.8	54
116	Supramolecularly Modified Graphene for Ultrafast Responsive and Highly Stable Humidity Sensor. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28640-28647.	1.5	54
117	Evaluation of novel indigenous fungal consortium for enhanced bioremediation of heavy metals from contaminated sites. <i>Environmental Technology and Innovation</i> , 2020, 20, 101050.	3.0	54
118	Hierarchical Fe ₃ O ₄ Core-Shell Layered Double Hydroxide Composites as Magnetic Adsorbents for Anionic Dye Removal from Wastewater. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4182-4191.	1.0	53
119	Supercapacitors with ultrahigh energy density based on mesoporous carbon nanofibers: Enhanced double-layer electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2015, 653, 212-218.	2.8	53
120	Sm ₂ O ₃ -doped ZnO beech fern hierarchical structures for nitroaniline chemical sensor. <i>Ceramics International</i> , 2016, 42, 16505-16511.	2.3	53
121	ZnO Nanorods Based Hydrazine Sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4686-4691.	0.9	52
122	Fabrication of Highly Sensitive Non-Enzymatic Glucose Biosensor Based on ZnO Nanorods. <i>Science of Advanced Materials</i> , 2011, 3, 901-906.	0.1	52
123	Toward a high performance asymmetric hybrid capacitor by electrode optimization. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2824-2831.	3.0	52
124	Synthesis and characterization of novel poly(1-naphthylamine)/zinc oxide nanocomposites: Application in catalytic degradation of methylene blue dye. <i>Colloid and Polymer Science</i> , 2010, 288, 1633-1638.	1.0	51
125	High-Efficiency Electrode Based on Nitrogen-Doped TiO ₂ Nanofibers for Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2014, 115, 493-498.	2.6	51
126	Chemical and Pathogenic Cleanup of Wastewater Using Surface-Functionalized CeO ₂ Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6803-6816.	3.2	51

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127	Transformation of solid plastic waste to activated carbon fibres for wastewater treatment. <i>Chemosphere</i> , 2022, 294, 133692.	4.2	51
128	Predominance of two dimensional (2D) Mn ₂ O ₃ nanowalls thin film for high performance electrochemical supercapacitors. <i>Chemical Engineering Journal</i> , 2017, 330, 1240-1247.	6.6	50
129	Synthesis and electrochemical impedance properties of CdS nanoparticles decorated polyaniline nanorods. <i>Chemical Engineering Journal</i> , 2012, 181-182, 806-812.	6.6	49
130	Biosynthesized NiO nanoparticles: Potential catalyst for ammonium perchlorate and composite solid propellants. <i>Ceramics International</i> , 2015, 41, 1573-1578.	2.3	49
131	Composite electrolyte of heteropolyacid (HPA) and polyethylene oxide (PEO) for solid-state dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2008, 53, 6623-6628.	2.6	48
132	Zinc oxide nanocones as potential scaffold for the fabrication of ultra-high sensitive hydrazine chemical sensor. <i>Ceramics International</i> , 2015, 41, 3101-3108.	2.3	47
133	Engineering of magnetically separable ZnFe ₂ O ₄ @ TiO ₂ nanofibers for dye-sensitized solar cells and removal of pollutant from water. <i>Journal of Alloys and Compounds</i> , 2017, 723, 477-483.	2.8	47
134	CuO Nanocubes Based Highly-Sensitive 4-Nitrophenol Chemical Sensor. <i>Science of Advanced Materials</i> , 2012, 4, 893-900.	0.1	47
135	Graphene application as a counter electrode material for dye-sensitized solar cell. <i>Materials Letters</i> , 2012, 86, 96-99.	1.3	46
136	Effect of graphene oxide ratio on the cell adhesion and growth behavior on a graphene oxide-coated silicon substrate. <i>Scientific Reports</i> , 2016, 6, 33835.	1.6	46
137	Microwave-assisted synthesis of ZnO doped CeO ₂ nanoparticles as potential scaffold for highly sensitive nitroaniline chemical sensor. <i>Ceramics International</i> , 2016, 42, 11562-11567.	2.3	46
138	Synthesis and Characterizations of Cd-Doped ZnO Multipods for Environmental Remediation Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8453-8458.	0.9	45
139	Ag/CeO ₂ nanostructured materials for enhanced photocatalytic and antibacterial applications. <i>Ceramics International</i> , 2019, 45, 20509-20517.	2.3	45
140	Development of Highly Sensitive and Selective Cholesterol Biosensor Based on Cholesterol Oxidase Co-Immobilized with γ -Fe ₂ O ₃ Micro-Pine Shaped Hierarchical Structures. <i>Electrochimica Acta</i> , 2014, 135, 396-403.	2.6	44
141	Solar light driven enhanced photocatalytic degradation of brilliant green dye based on ZnS quantum dots. <i>Superlattices and Microstructures</i> , 2017, 103, 365-375.	1.4	44
142	Low temperature solution processed Mn ₃ O ₄ nanoparticles: Enhanced performance of electrochemical supercapacitors. <i>Journal of Alloys and Compounds</i> , 2017, 694, 560-567.	2.8	44
143	Ag-Doped ZnO Nanoparticles for Enhanced Ethanol Gas Sensing Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3557-3562.	0.9	44
144	Morphological and Electrochemical Properties of Crystalline Praseodymium Oxide Nanorods. <i>Nanoscale Research Letters</i> , 2010, 5, 735-740.	3.1	43

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145	Bismuth sulfide (Bi ₂ S ₃) nanotubes decorated TiO ₂ nanoparticles heterojunction assembly for enhanced solar light driven photocatalytic activity. <i>Ceramics International</i> , 2016, 42, 17551-17557.	2.3	43
146	Zinc oxide quantum dots: multifunctional candidates for arresting C2C12 cancer cells and their role towards caspase 3 and 7 genes. <i>RSC Advances</i> , 2016, 6, 26111-26120.	1.7	43
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