

Ahmad Umar

List of Publications by Year in descending order

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614
papers

24,216
citations

6233

80
h-index

17055

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618
all docs

618
docs citations

618
times ranked

23980
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	Hierarchical porous carbon aerogel derived from bagasse for high performance supercapacitor electrode. Nanoscale, 2014, 6, 12120-12129.	2.8	545
3	Hierarchical SnO ₂ Nanostructures Made of Intermingled Ultrathin Nanosheets for Environmental Remediation, Smart Gas Sensor, and Supercapacitor Applications. ACS Applied Materials & Interfaces, 2014, 6, 2174-2184.	4.0	463
4	Zinc oxide nanonail based chemical sensor for hydrazine detection. Chemical Communications, 2008, , 166-168.	2.2	442
5	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
6	Antimicrobial properties of ZnO nanomaterials: A review. Ceramics International, 2017, 43, 3940-3961.	2.3	388
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	Growth of aligned ZnO nanorods and nanopencils on ZnO/Si in aqueous solution: growth mechanism and structural and optical properties. Nanotechnology, 2007, 18, 115603.	1.3	238
9	Ultrasensitive and sensitive detection of xylene and toluene for monitoring indoor air pollution using Cr-doped NiO hierarchical nanostructures. Nanoscale, 2013, 5, 7066.	2.8	225
10	A Critical Review on the Heterogeneous Catalytic Oxidation of Elemental Mercury in Flue Gases. Environmental Science & Technology, 2013, 47, 10813-10823.	4.6	222
11	ZnO nanosheet networks and hexagonal nanodisks grown on silicon substrate: growth mechanism and structural and optical properties. Nanotechnology, 2006, 17, 2174-2180.	1.3	212
12	High sensitive and low-concentration sulfur dioxide (SO ₂) gas sensor application of heterostructure NiO-ZnO nanodisks. Sensors and Actuators B: Chemical, 2019, 298, 126870.	4.0	209
13	Ultra-sensitive cholesterol biosensor based on low-temperature grown ZnO nanoparticles. Electrochemistry Communications, 2009, 11, 118-121.	2.3	208
14	Pt nanoparticles decorated SnO ₂ nanoneedles for efficient CO gas sensing applications. Sensors and Actuators B: Chemical, 2018, 256, 656-664.	4.0	200
15	Structural and optical properties of single-crystalline ZnO nanorods grown on silicon by thermal evaporation. Nanotechnology, 2006, 17, 4072-4077.	1.3	189
16	Catalyst-free large-quantity synthesis of ZnO nanorods by a vapor-solid growth mechanism: Structural and optical properties. Journal of Crystal Growth, 2005, 282, 131-136.	0.7	183
17	Low-Temperature Synthesis of Flower-Shaped CuO Nanostructures by Solution Process: Formation Mechanism and Structural Properties. Journal of Physical Chemistry C, 2008, 112, 5729-5735.	1.5	183
18	Highly-sensitive cholesterol biosensor based on well-crystallized flower-shaped ZnO nanostructures. Talanta, 2009, 78, 284-289.	2.9	179

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19	Metal organic framework (MOF) porous octahedral nanocrystals of Cu-BTC: Synthesis, properties and enhanced adsorption properties. <i>Materials Research Bulletin</i> , 2019, 109, 124-133.	2.7	176
20	Metal oxide hollow nanostructures: Fabrication and Li storage performance. <i>Journal of Power Sources</i> , 2013, 238, 376-387.	4.0	174
21	Selenium nanomaterials: An overview of recent developments in synthesis, properties and potential applications. <i>Progress in Materials Science</i> , 2016, 83, 270-329.	16.0	169
22	Comprehensive investigation of CO ₂ adsorption on Mg-Al-CO ₃ LDH-derived mixed metal oxides. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12782.	5.2	164
23	Enzymatic glucose biosensor based on flower-shaped copper oxide nanostructures composed of thin nanosheets. <i>Electrochemistry Communications</i> , 2009, 11, 278-281.	2.3	162
24	Chemical Sensing Applications of ZnO Nanomaterials. <i>Materials</i> , 2018, 11, 287.	1.3	160
25	ZnO nano-mushrooms for photocatalytic degradation of methyl orange. <i>Materials Letters</i> , 2013, 97, 100-103.	1.3	156
26	Ce-doped ZnO nanoparticles for efficient photocatalytic degradation of direct red-23 dye. <i>Ceramics International</i> , 2015, 41, 7773-7782.	2.3	150
27	Flower-shaped CuO nanostructures: Structural, photocatalytic and XANES studies. <i>Catalysis Communications</i> , 2008, 10, 11-16.	1.6	149
28	Bi-Bi ₂ O ₃ nanorods: An efficient sunlight active photocatalyst for degradation of Rhodamine B and 2,4,6-trichlorophenol. <i>Ceramics International</i> , 2015, 41, 3355-3364.	2.3	149
29	Photocatalysis from UV/Vis to Near-Infrared Light: Towards Full Solar Light Spectrum Activity. <i>ChemCatChem</i> , 2015, 7, 559-573.	1.8	148
30	Synthesis and Characterization of Iron Oxide Nanoparticles for Phenyl Hydrazine Sensor Applications. <i>Sensor Letters</i> , 2014, 12, 97-101.	0.4	144
31	Aligned hexagonal coaxial-shaped ZnO nanocolumns on steel alloy by thermal evaporation. <i>Applied Physics Letters</i> , 2006, 88, 173120.	1.5	138
32	CuO nanosheets as potential scaffolds for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 24-31.	4.0	137
33	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
34	Ethanol chemi-sensor: Evaluation of structural, optical and sensing properties of CuO nanosheets. <i>Materials Letters</i> , 2011, 65, 1400-1403.	1.3	127
35	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
36	Catalyst-free synthesis of ZnO nanowires on Si by oxidation of Zn powders. <i>Journal of Crystal Growth</i> , 2005, 277, 471-478.	0.7	122

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37	Development of amperometric glucose biosensor based on glucose oxidase co-immobilized with multi-walled carbon nanotubes at low potential. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 327-333.	4.0	121
38	Ultra-sensitive hydrazine chemical sensor based on high-aspect-ratio ZnO nanowires. <i>Talanta</i> , 2009, 77, 1376-1380.	2.9	121
39	Removal of fluoroquinolone drug, levofloxacin, from aqueous phase over iron based MOFs, MIL-100(Fe). <i>Journal of Solid State Chemistry</i> , 2020, 281, 121029.	1.4	117
40	Bioinspired design of AgNPs embedded silk sericin-based sponges for efficiently combating bacteria and promoting wound healing. <i>Materials and Design</i> , 2019, 180, 107940.	3.3	112
41	Flower-shaped ZnO nanostructures obtained by cyclic feeding chemical vapour deposition: structural and optical properties. <i>Nanotechnology</i> , 2005, 16, 2462-2468.	1.3	109
42	Polypyrrole-poly(3,4-ethylenedioxythiophene)-Ag (PPy-PEDOT-Ag) nanocomposite films for label-free electrochemical DNA sensing. <i>Biosensors and Bioelectronics</i> , 2013, 47, 133-140.	5.3	108
43	Removal of Water Contaminants by Iron Oxide Nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 627-643.	0.9	108
44	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
45	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
46	Metal clusters activated SnO ₂ thin film for low level detection of NH ₃ gas. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 410-418.	4.0	103
47	Advances in Responsively Conductive Polymer Composites and Sensing Applications. <i>Polymer Reviews</i> , 2021, 61, 157-193.	5.3	103
48	Recent Advances and Perspectives of Carbon-Based Nanostructures as Anode Materials for Li-ion Batteries. <i>Materials</i> , 2019, 12, 1229.	1.3	102
49	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
50	Development of highly sensitive and selective ethanol sensor based on lance-shaped CuO nanostructures. <i>Materials and Design</i> , 2016, 105, 16-24.	3.3	100
51	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
52	Sonophotocatalytic degradation of methyl orange using ZnO nano-aggregates. <i>Journal of Alloys and Compounds</i> , 2015, 629, 167-172.	2.8	98
53	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
54	Potassium Hydroxide Activated and Nitrogen Doped Graphene with Enhanced Supercapacitive Behavior. <i>Science of Advanced Materials</i> , 2018, 10, 937-949.	0.1	98

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55	Ce-doped ZnO nanorods for the detection of hazardous chemical. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 72-78.	4.0	97
56	Heterogeneous photocatalytic studies of analgesic and non-steroidal anti-inflammatory drugs. <i>Applied Catalysis A: General</i> , 2016, 510, 134-155.	2.2	97
57	Synthesis, characterization and acetone gas sensing applications of Ag-doped ZnO nanoneedles. <i>Ceramics International</i> , 2017, 43, 6765-6770.	2.3	97
58	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
59	Photocatalytic degradation of Alizarin Red S using simply synthesized ZnO nanoparticles. <i>Materials Letters</i> , 2013, 106, 385-389.	1.3	93
60	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
61	Facile synthesis of CdS/TiO ₂ nanocomposite and their catalytic activity for ofloxacin degradation under visible illumination. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 360, 34-43.	2.0	93
62	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
63	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
64	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
65	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
66	ZnO Nanonails: Synthesis and Their Application as Glucose Biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3216-3221.	0.9	89
67	Ultra-high sensitive ammonia chemical sensor based on ZnO nanopencils. <i>Talanta</i> , 2012, 89, 155-161.	2.9	89
68	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
69	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
70	Visible-light driven photocatalytic degradation of brilliant green dye based on cobalt tungstate (CoWO ₄) nanoparticles. <i>Materials Chemistry and Physics</i> , 2018, 211, 335-342.	2.0	88
71	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
72	ZnO Nanoparticles Induce Oxidative Stress in Cloudman S91 Melanoma Cancer Cells. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 441-449.	0.5	86

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73	ZnO Nanoparticles Induces Cell Death in Malignant Human T98G Gliomas, KB and Non-Malignant HEK Cells. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1181-1189.	0.5	85
74	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
75	Growth of Comb-like ZnO Nanostructures for Dye-sensitized Solar Cells Applications. <i>Nanoscale Research Letters</i> , 2009, 4, 1004-1008.	3.1	84
76	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
77	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
78	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
79	Reduced graphene oxide-CdS heterostructure: An efficient fluorescent probe for the sensing of Ag(I) and sunset yellow and a visible-light responsive photocatalyst for the degradation of levofloxacin drug in aqueous phase. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 143-158.	10.8	83
80	Optical and electrical properties of ZnO nanowires grown on aluminium foil by non-catalytic thermal evaporation. <i>Nanotechnology</i> , 2007, 18, 175606.	1.3	82
81	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
82	Efficient photocatalytic degradation of brilliant green using Sr-doped TiO ₂ nanoparticles. <i>Ceramics International</i> , 2015, 41, 3533-3540.	2.3	81
83	2D Sn-doped ZnO ultrathin nanosheet networks for enhanced acetone gas sensing application. <i>Ceramics International</i> , 2017, 43, 2418-2423.	2.3	81
84	Hydrothermally regulating phase composition of TiO ₂ nanocrystals toward high photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2021, 850, 156653.	2.8	80
85	Zinc oxide nanostructure-based dye-sensitized solar cells. <i>Journal of Materials Science</i> , 2017, 52, 4743-4795.	1.7	79
86	Mimicking a Dog's Nose: Scrolling Graphene Nanosheets. <i>ACS Nano</i> , 2018, 12, 2521-2530.	7.3	78
87	MgO polyhedral nanocages and nanocrystals based glucose biosensor. <i>Electrochemistry Communications</i> , 2009, 11, 1353-1357.	2.3	77
88	Growth of Highly <i>c</i> -Axis-Oriented ZnO Nanorods on ZnO/Glass Substrate: Growth Mechanism, Structural, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14715-14720.	1.5	77
89	High performance cholesterol sensor based on ZnO nanotubes grown on Si/Ag electrodes. <i>Electrochemistry Communications</i> , 2014, 38, 4-7.	2.3	77
90	Photoluminescent C-dots: An overview on the recent development in the synthesis, physiochemical properties and potential applications. <i>Journal of Alloys and Compounds</i> , 2018, 748, 818-853.	2.8	77

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91	Star-shaped ZnO nanostructures on silicon by cyclic feeding chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2005, 277, 479-484.	0.7	76
92	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
93	A highly sensitive ammonia chemical sensor based on Fe_2O_3 nanoellipsoids. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 425401.	1.3	75
94	Architecture-controlled synthesis of M_xO_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
95	ZnO nanostructured thin films: Depositions, properties and applications—A review. <i>Materials Express</i> , 2015, 5, 3-23.	0.2	75
96	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
97	$\text{Bi}_2\text{WO}_6/\text{C-Dots}/\text{TiO}_2$: A Novel Z-Scheme Photocatalyst for the Degradation of Fluoroquinolone Levofloxacin from Aqueous Medium. <i>Nanomaterials</i> , 2020, 10, 910.	1.9	75
98	SnO_2 quantum dots as novel platform for electrochemical sensing of cadmium. <i>Electrochimica Acta</i> , 2015, 169, 97-102.	2.6	74
99	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
100	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
101	2D Nanomaterial-Based Surface Plasmon Resonance Sensors for Biosensing Applications. <i>Micromachines</i> , 2020, 11, 779.	1.4	74
102	Hydrothermally grown ZnO nanoflowers for environmental remediation and clean energy applications. <i>Materials Research Bulletin</i> , 2012, 47, 2407-2414.	2.7	73
103	Ag-doped ZnO nanoellipsoids: Potential scaffold for photocatalytic and sensing applications. <i>Talanta</i> , 2015, 137, 204-213.	2.9	73
104	Morphology and chemical composition dependent synthesis and electrochemical properties of MnO_2 -based nanostructures for efficient hydrazine detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 878-884.	4.0	72
105	Enhanced visible light driven photocatalytic application of Ag_2O decorated ZnO nanorods heterostructures. <i>Separation and Purification Technology</i> , 2017, 183, 341-349.	3.9	72
106	Visible-light-driven photocatalytic and chemical sensing properties of SnS_2 nanoflakes. <i>Talanta</i> , 2013, 114, 183-190.	2.9	71
107	Precipitation Sequence of Middle Al Concentration Alloy Using the Inversion Algorithm and Microscopic Phase Field Model. <i>Science of Advanced Materials</i> , 2018, 10, 1793-1804.	0.1	71
108	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

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109	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
110	Perforated Co ₃ O ₄ nanoneedles assembled in chrysanthemum-like Co ₃ O ₄ structures for ultra-high sensitive hydrazine chemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 457-465.	4.0	67
111	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
112	Surface Functionalized Selenium Nanoparticles for Biomedical Applications. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 3004-3042.	0.5	65
113	Hybrid ZnO/ZnS nanoforests as the electrode materials for high performance supercapacitor application. <i>Dalton Transactions</i> , 2015, 44, 2409-2415.	1.6	65
114	Highly sensitive optical ammonia gas sensor based on Sn Doped V ₂ O ₅ Nanoparticles. <i>Materials Research Bulletin</i> , 2018, 108, 266-274.	2.7	65
115	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
116	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
117	Co ₃ O ₄ nanowire@NiO nanosheet arrays for high performance asymmetric supercapacitors. <i>Dalton Transactions</i> , 2018, 47, 5687-5694.	1.6	63
118	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
119	Ultra-high sensitive hydrazine chemical sensor based on low-temperature grown ZnO nanoparticles. <i>Electrochimica Acta</i> , 2012, 69, 128-133.	2.6	62
120	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
121	High performance hybrid supercapacitor based on hierarchical MoS ₂ /Ni ₃ S ₂ metal chalcogenide. <i>Chinese Chemical Letters</i> , 2019, 30, 1105-1110.	4.8	62
122	Synthesis of polypropylene/Mg ₃ Alâ€“(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
123	Rapid synthesis and dye-sensitized solar cell applications of hexagonal-shaped ZnO nanorods. <i>Electrochimica Acta</i> , 2009, 54, 5358-5362.	2.6	60
124	Zinc Oxide Nanomaterials for Photocatalytic Degradation of Methyl Orange: A Review. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 631-650.	0.4	60
125	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
126	Two-dimensional ytterbium oxide nanodisks based biosensor for selective detection of urea. <i>Biosensors and Bioelectronics</i> , 2017, 98, 254-260.	5.3	59

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127	Low-temperature synthesis of γ -Fe ₂ O ₃ hexagonal nanoparticles for environmental remediation and smart sensor applications. <i>Talanta</i> , 2013, 116, 1060-1066.	2.9	58
128	Supramolecular fabrication of multilevel graphene-based gas sensors with high NO ₂ sensibility. <i>Nanoscale</i> , 2015, 7, 10259-10266.	2.8	58
129	Impact of organic interlayer anions on the CO ₂ adsorption performance of Mg-Al layered double hydroxides derived mixed oxides. <i>Journal of Energy Chemistry</i> , 2017, 26, 346-353.	7.1	58
130	Silica-Based Bioactive Glasses and Their Applications in Hard Tissue Regeneration: A Review. <i>Pharmaceuticals</i> , 2021, 14, 75.	1.7	58
131	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
132	Efficient H ₂ gas sensor based on 2D SnO ₂ disks: Experimental and theoretical studies. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26388-26401.	3.8	57
133	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
134	Ultraviolet-Emitting ZnO Nanostructures on Steel Alloy Substrates: Growth and Properties. <i>Crystal Growth and Design</i> , 2008, 8, 2741-2747.	1.4	54
135	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
136	Pulse Laser Deposited Nanostructured ZnO Thin Films: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1911-1930.	0.9	54
137	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
138	Ionic liquid and surfactant functionalized ZnO nanoadsorbent for Recyclable Proficient Adsorption of toxic dyes from waste water. <i>Journal of Molecular Liquids</i> , 2016, 224, 1294-1304.	2.3	54
139	Solar light driven photocatalytic degradation of Ofloxacin based on ultra-thin bismuth molybdenum oxide nanosheets. <i>Materials Research Bulletin</i> , 2018, 99, 359-366.	2.7	54
140	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
141	Highly sensitive hydrazine chemical sensor based on mono-dispersed rapidly synthesized PEG-coated ZnS nanoparticles. <i>Talanta</i> , 2011, 85, 2411-2416.	2.9	53
142	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
143	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
144	ZnO Nanorods Based Hydrazine Sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4686-4691.	0.9	52

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145	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
146	Toward a high performance asymmetric hybrid capacitor by electrode optimization. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2824-2831.	3.0	52
147	Facile synthesis and photocatalytic activity of cocoon-shaped CuO nanostructures. <i>Materials Letters</i> , 2015, 156, 138-141.	1.3	51
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