

Zidong Wang

List of Publications by Year in descending order

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168
papers

8,978
citations

31976

53
h-index

49909

87
g-index

171
all docs

171
docs citations

171
times ranked

10111
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free Colorimetric Detection of Lead Ions with a Nanomolar Detection Limit and Tunable Dynamic Range by using Gold Nanoparticles and DNAzyme. <i>Advanced Materials</i> , 2008, 20, 3263-3267.	21.0	426
2	Nanoparticle cluster gas sensor: Pt activated SnO ₂ nanoparticles for NH ₃ detection with ultrahigh sensitivity. <i>Nanoscale</i> , 2015, 7, 14872-14880.	5.6	284
3	Formaldehyde detection: SnO ₂ microspheres for formaldehyde gas sensor with high sensitivity, fast response/recovery and good selectivity. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 264-273.	7.8	280
4	DNA-Mediated Control of Metal Nanoparticle Shape: One-Pot Synthesis and Cellular Uptake of Highly Stable and Functional Gold Nanoflowers. <i>Nano Letters</i> , 2010, 10, 1886-1891.	9.1	278
5	Highly sensitive "turn-on" fluorescent sensor for Hg ²⁺ in aqueous solution based on structure-switching DNA. <i>Chemical Communications</i> , 2008, , 6005.	4.1	253
6	Synthesis, characterization and photoluminescence of CeO ₂ nanoparticles by a facile method at room temperature. <i>Journal of Alloys and Compounds</i> , 2010, 493, 202-207.	5.5	224
7	A review on WO ₃ based gas sensors: Morphology control and enhanced sensing properties. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153194.	5.5	200
8	Surfactant-assisted synthesis of CeO ₂ nanoparticles and their application in wastewater treatment. <i>RSC Advances</i> , 2012, 2, 12413.	3.6	186
9	Ordered Mesoporous Sb-, Nb-, and Ta-Doped SnO ₂ Thin Films with Adjustable Doping Levels and High Electrical Conductivity. <i>ACS Nano</i> , 2009, 3, 1373-1378.	14.6	175
10	Antimony-Doped SnO ₂ Nanopowders with High Crystallinity for Lithium-Ion Battery Electrode. <i>Chemistry of Materials</i> , 2009, 21, 3202-3209.	6.7	172
11	Novel Mixed Phase SnO ₂ Nanorods Assembled with SnO ₂ Nanocrystals for Enhancing Gas-Sensing Performance toward Isopropanol Gas. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9832-9840.	3.1	146
12	A highly sensitive VOC gas sensor using p-type mesoporous Co ₃ O ₄ nanosheets prepared by a facile chemical coprecipitation method. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 615-623.	7.8	137
13	A high response butanol gas sensor based on ZnO hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 423-430.	7.8	137
14	Functional DNA directed assembly of nanomaterials for biosensing. <i>Journal of Materials Chemistry</i> , 2009, 19, 1788.	6.7	129
15	Discovery of the DNA "Genetic Code" for Abiological Gold Nanoparticle Morphologies. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9078-9082.	13.8	128
16	Niobium Doped TiO ₂ with Mesoporosity and Its Application for Lithium Insertion. <i>Chemistry of Materials</i> , 2010, 22, 6624-6631.	6.7	127
17	Acetone sensing performances based on nanoporous TiO ₂ synthesized by a facile hydrothermal method. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 491-500.	7.8	115
18	Nonaqueous synthesis of Ag-functionalized In ₂ O ₃ /ZnO nanocomposites for highly sensitive formaldehyde sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 193-200.	7.8	114

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19	A facile hydrothermal synthesis of MnO ₂ nanorod/reduced graphene oxide nanocomposites possessing excellent microwave absorption properties. RSC Advances, 2015, 5, 88979-88988.	3.6	113
20	Cd doped porous Co ₃ O ₄ nanosheets as electrode material for high performance supercapacitor application. Electrochimica Acta, 2016, 196, 316-327.	5.2	113
21	DNA-Encoded Tuning of Geometric and Plasmonic Properties of Nanoparticles Growing from Gold Nanorod Seeds. Angewandte Chemie - International Edition, 2015, 54, 8114-8118.	13.8	109
22	Combustion synthesis of porous Pt-functionalized SnO ₂ sheets for isopropanol gas detection with a significant enhancement in response. Journal of Materials Chemistry A, 2014, 2, 20089-20095.	10.3	106
23	Gas sensors based on TiO ₂ nanostructured materials for the detection of hazardous gases: A review. Nano Materials Science, 2021, 3, 390-403.	8.8	106
24	Highly sensitive formaldehyde gas sensor based on hierarchically porous Ag-loaded ZnO heterojunction nanocomposites. Sensors and Actuators B: Chemical, 2017, 247, 797-806.	7.8	100
25	A Highly Sensitive and Fast-Responding Ethanol Sensor Based on CdIn ₂ O ₄ Nanocrystals Synthesized by a Nonaqueous Sol-gel Route. Chemistry of Materials, 2008, 20, 5781-5786.	6.7	93
26	Meso- and macroporous coral-like Co ₃ O ₄ for VOCs gas sensor. Ceramics International, 2015, 41, 11004-11012.	4.8	93
27	A novel and sensitive ratiometric fluorescence assay for carbendazim based on N-doped carbon quantum dots and gold nanocluster nanohybrid. Journal of Hazardous Materials, 2020, 386, 121958.	12.4	92
28	A general nonaqueous sol-gel route to g-C ₃ N ₄ -coupling photocatalysts: the case of Z-scheme g-C ₃ N ₄ /TiO ₂ with enhanced photodegradation toward RhB under visible-light. Scientific Reports, 2016, 6, 39531.	3.3	85
29	Isopropanol sensing properties of coral-like ZnO/CdO composites by flash preparation via self-sustained decomposition of metal-organic complexes. Sensors and Actuators B: Chemical, 2014, 198, 402-410.	7.8	83
30	Electrochemical performance of W-doped anatase TiO ₂ nanoparticles as an electrode material for lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 6006.	6.7	81
31	Biomorphic synthesis of hollow CuO fibers for low-ppm-level n-propanol detection via a facile solution combustion method. Sensors and Actuators B: Chemical, 2016, 230, 1-8.	7.8	79
32	Hydrothermal Synthesis of Nanostructures with Different Morphologies and Their Optical Properties. Journal of Nanomaterials, 2011, 2011, 1-10.	2.7	76
33	A two-dimensional Ti ₃ C ₂ T _X MXene@TiO ₂ /MoS ₂ heterostructure with excellent selectivity for the room temperature detection of ammonia. Journal of Materials Chemistry A, 2022, 10, 5505-5519.	10.3	76
34	Enhanced formaldehyde sensing performance of 3D hierarchical porous structure Pt-functionalized NiO via a facile solution combustion synthesis. Sensors and Actuators B: Chemical, 2015, 220, 171-179.	7.8	75
35	Mesostructured SnO ₂ as sensing material for gas sensors. Solid-State Electronics, 2004, 48, 627-632.	1.4	74
36	A high-performance n-butanol gas sensor based on ZnO nanoparticles synthesized by a low-temperature solvothermal route. RSC Advances, 2015, 5, 54372-54378.	3.6	74

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37	Pd nanoparticles composited SnO ₂ microspheres as sensing materials for gas sensors with enhanced hydrogen response performances. <i>Journal of Alloys and Compounds</i> , 2017, 710, 216-224.	5.5	70
38	Catalytic photodegradation of Congo red in aqueous solution by Ln(OH) ₃ (Ln = Nd, Sm, Eu, Gd, Tb, and) Tj ETQq0 0.0 rgBT /Overlock 10	4.3	68
39	Acetone detection properties of single crystalline tungsten oxide plates synthesized by hydrothermal method using cetyltrimethyl ammonium bromide supermolecular template. <i>Sensors and Actuators B: Chemical</i> , 2012, 162, 259-268.	7.8	66
40	Cerium oxide nanoparticles/multi-wall carbon nanotubes composites: Facile synthesis and electrochemical performances as supercapacitor electrode materials. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 86, 284-291.	2.7	66
41	Ag@ZnO heterostructure nanoparticles with plasmon-enhanced catalytic degradation for Congo red under visible light. <i>RSC Advances</i> , 2015, 5, 34456-34465.	3.6	65
42	A high performance methanol gas sensor based on palladium-platinum-In ₂ O ₃ composited nanocrystalline SnO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 133-141.	7.8	65
43	Electrochemical performance of mesoporous ZnCo ₂ O ₄ nanosheets as an electrode material for supercapacitor. <i>Ionics</i> , 2018, 24, 2435-2443.	2.4	65
44	The high efficient catalytic properties for thermal decomposition of ammonium perchlorate using mesoporous ZnCo ₂ O ₄ rods synthesized by oxalate co-precipitation method. <i>Scientific Reports</i> , 2018, 8, 7571.	3.3	63
45	Preparation and gas-sensing properties of NiFe ₂ O ₄ semiconductor materials. <i>Solid-State Electronics</i> , 2005, 49, 1029-1033.	1.4	62
46	Surfactant CATB-assisted generation and gas-sensing characteristics of LnFeO ₃ (Ln=La, Sm, Eu) materials. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 124-131.	7.8	62
47	Facile synthesis of $\hat{1}$ -MnO ₂ nanorods at low temperature and their microwave absorption properties. <i>Materials Chemistry and Physics</i> , 2014, 143, 1061-1068.	4.0	62
48	Photocatalytic degradation properties of Ni(OH) ₂ nanosheets/ZnO nanorods composites for azo dyes under visible-light irradiation. <i>Ceramics International</i> , 2014, 40, 57-65.	4.8	62
49	Electrochemical performance of CeO ₂ nanoparticle-decorated graphene oxide as an electrode material for supercapacitor. <i>Ionics</i> , 2017, 23, 121-129.	2.4	62
50	A simple method to prepare Ln(OH) ₃ (Ln=La, Sm, Tb, Eu, and Gd) nanorods using CTAB micelle solution and their room temperature photoluminescence properties. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2060-2065.	5.5	59
51	Shaddock peels as bio-templates synthesis of Cd-doped SnO ₂ nanofibers: A high performance formaldehyde sensing material. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152170.	5.5	59
52	Lanthanum Dioxide Carbonate La ₂ O ₂ CO ₃ Nanorods as a Sensing Material for Chemoresistive CO ₂ Gas Sensor. <i>Electrochimica Acta</i> , 2014, 127, 355-361.	5.2	57
53	SnO ₂ nanostructured materials used as gas sensors for the detection of hazardous and flammable gases: A review. <i>Nano Materials Science</i> , 2022, 4, 339-350.	8.8	57
54	Preparation and characterization of MnOOH and $\hat{1}^2$ -MnO ₂ whiskers. <i>Inorganic Chemistry Communication</i> , 2002, 5, 747-750.	3.9	56

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55	SnO ₂ nanorods based sensing material as an isopropanol vapor sensor. <i>New Journal of Chemistry</i> , 2014, 38, 2443.	2.8	56
56	Microwave absorption characteristics of manganese dioxide with different crystalline phase and nanostructures. <i>Materials Chemistry and Physics</i> , 2010, 124, 639-645.	4.0	53
57	The xylene sensing performance of WO ₃ decorated anatase TiO ₂ nanoparticles as a sensing material for a gas sensor at a low operating temperature. <i>RSC Advances</i> , 2016, 6, 49692-49701.	3.6	53
58	Construction of novel Pd@SnO ₂ composite nanoporous structure as a high-response sensor for methane gas. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154063.	5.5	53
59	Structural and photocatalytic properties of nickel-doped zinc oxide powders with variable dopant contents. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1196-1203.	4.0	52
60	Porous NiO nanosheets self-grown on alumina tube using a novel flash synthesis and their gas sensing properties. <i>RSC Advances</i> , 2015, 5, 4880-4885.	3.6	52
61	Enhanced microwave absorption properties of MnO ₂ hollow microspheres consisted of MnO ₂ nanoribbons synthesized by a facile hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2016, 676, 224-230.	5.5	52
62	Effects of calcining temperature on the phase structure and the formaldehyde gas sensing properties of CdO-mixed In ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 219-223.	7.8	51
63	Jute-based porous biomass carbon composited by Fe ₃ O ₄ nanoparticles as an excellent microwave absorber. <i>Journal of Alloys and Compounds</i> , 2019, 803, 1119-1126.	5.5	51
64	Controllable synthesis and change of emission color from green to orange of ZnO quantum dots using different solvents. <i>New Journal of Chemistry</i> , 2015, 39, 2881-2888.	2.8	50
65	Raspberry-like SnO ₂ hollow nanostructure as a high response sensing material of gas sensor toward n-butanol gas. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 173-182.	4.0	50
66	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303001.	1.8	49
67	Morphology control of porous CuO by surfactant using combustion method. <i>Applied Surface Science</i> , 2015, 349, 844-848.	6.1	47
68	Gas-sensing performances of Cd-doped ZnO nanoparticles synthesized by a surfactant-mediated method for n-butanol gas. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 112, 43-49.	4.0	47
69	CeO ₂ nanoparticles modified by CuO nanoparticles for low-temperature CO oxidation with high catalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 147, 109651.	4.0	47
70	Dual-emission ratiometric fluorescent detection of dinotefuran based on sulfur-doped carbon quantum dots and copper nanocluster hybrid. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128534.	7.8	46
71	Catalytic activity for CO oxidation of Cu@CeO ₂ composite nanoparticles synthesized by a hydrothermal method. <i>Analytical Methods</i> , 2015, 7, 3238-3245.	2.7	45
72	Optical and gas sensing properties of Al-doped ZnO transparent conducting films prepared by sol-gel method under different heat treatments. <i>Ceramics International</i> , 2014, 40, 9931-9939.	4.8	43

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73	Self-grown MnO ₂ nanosheets on carbon fiber paper as high-performance supercapacitors electrodes. <i>Electrochimica Acta</i> , 2016, 217, 16-23.	5.2	43
74	Hydrothermal growth of ZnO nanorods on Zn substrates and their application in degradation of azo dyes under ambient conditions. <i>CrystEngComm</i> , 2014, 16, 7761-7770.	2.6	42
75	Hierarchically porous carbon derived from the activation of waste chestnut shells by potassium bicarbonate (KHCO ₃) for high-performance supercapacitor electrode. <i>International Journal of Energy Research</i> , 2020, 44, 988-999.	4.5	42
76	Enhanced methanol sensing properties of SnO ₂ microspheres in a composite with Pt nanoparticles. <i>RSC Advances</i> , 2016, 6, 83870-83879.	3.6	41
77	Water-soluble ZnO quantum dots modified by (3-aminopropyl)triethoxysilane: The promising fluorescent probe for the selective detection of Cu ²⁺ ion in drinking water. <i>Journal of Alloys and Compounds</i> , 2020, 825, 153904.	5.5	40
78	Macro-/meso-porous NiCo ₂ O ₄ synthesized by template-free solution combustion to enhance the performance of a nonenzymatic amperometric glucose sensor. <i>Mikrochimica Acta</i> , 2020, 187, 64.	5.0	39
79	Carbon spheres@MnO ₂ core-shell nanocomposites with enhanced dielectric properties for electromagnetic shielding. <i>Scientific Reports</i> , 2017, 7, 15841.	3.3	38
80	Structure and catalytic activity of 3D macro/mesoporous Co ₃ O ₄ for CO oxidation prepared by a facile self-sustained decomposition of metal-organic complexes. <i>Journal of Molecular Catalysis A</i> , 2015, 398, 79-85.	4.8	37
81	Effect of calcination temperatures on the electrochemical performances of nickel oxide/reduction graphene oxide (NiO/RGO) composites synthesized by hydrothermal method. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 98, 209-219.	4.0	37
82	Flash synthesis of Al-doping macro-/nanoporous ZnO from self-sustained decomposition of Zn-based complex for superior gas-sensing application to n-butanol. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 90-98.	7.8	36
83	A designed Mn ₂ O ₃ /MCM-41 nanoporous composite for methylene blue and rhodamine B removal with high efficiency. <i>Ceramics International</i> , 2014, 40, 8093-8101.	4.8	35
84	TiO ₂ nanoparticles functionalized by Pd nanoparticles for gas-sensing application with enhanced butane response performances. <i>Scientific Reports</i> , 2017, 7, 7692.	3.3	35
85	Novel Al-doped CdIn ₂ O ₄ nanofibers based gas sensor for enhanced low-concentration n-butanol sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130946.	7.8	35
86	A one-step nonaqueous sol-gel route to mixed-phase TiO ₂ with enhanced photocatalytic degradation of Rhodamine B under visible light. <i>CrystEngComm</i> , 2016, 18, 1964-1975.	2.6	33
87	Sensitive and selective n-butanol gas detection based on ZnO nanocrystalline synthesized by a low-temperature solvothermal method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 103, 143-150.	2.7	33
88	Synthesis, characterization and room temperature photoluminescence properties of Al doped ZnO nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1399-1405.	2.7	32
89	One-step hydrothermal synthesis of thioglycolic acid capped CdS quantum dots as fluorescence determination of cobalt ion. <i>Scientific Reports</i> , 2018, 8, 8953.	3.3	32
90	The Fluorescent Quenching Mechanism of N and S Co-Doped Graphene Quantum Dots with Fe ³⁺ and Hg ²⁺ Ions and Their Application as a Novel Fluorescent Sensor. <i>Nanomaterials</i> , 2019, 9, 738.	4.1	32

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91	Mn ₃ O ₄ /activated carbon composites with enhanced electrochemical performances for electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2017, 703, 163-173.	5.5	31
92	Enhanced formaldehyde sensing properties of SnO ₂ nanorods coupled with Zn ₂ SnO ₄ . <i>RSC Advances</i> , 2015, 5, 42628-42636.	3.6	30
93	Mesoporous CuCo ₂ O ₄ rods modified glassy carbon electrode as a novel non-enzymatic amperometric electrochemical sensors with high-sensitive ascorbic acid recognition. <i>Journal of Alloys and Compounds</i> , 2021, 852, 157045.	5.5	30
94	Butane detection: W-doped TiO ₂ nanoparticles for a butane gas sensor with high sensitivity and fast response/recovery. <i>RSC Advances</i> , 2015, 5, 96539-96546.	3.6	26
95	Flash synthesis of macro-/nanoporous ZnCo ₂ O ₄ via self-sustained decomposition of metal-organic complexes. <i>Materials Letters</i> , 2014, 134, 138-141.	2.6	25
96	Combustion synthesized hierarchically porous WO ₃ for selective acetone sensing. <i>Materials Chemistry and Physics</i> , 2016, 184, 155-161.	4.0	25
97	Citric Acid Capped CdS Quantum Dots for Fluorescence Detection of Copper Ions (II) in Aqueous Solution. <i>Nanomaterials</i> , 2019, 9, 32.	4.1	25
98	Enhanced and tunable fluorescent quantum dots within a single crystal of protein. <i>Nano Research</i> , 2013, 6, 627-634.	10.4	24
99	Portably colorimetric paper sensor based on ZnS quantum dots for semi-quantitative detection of Co ²⁺ through the measurement of grey level. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 1068-1075.	7.8	24
100	Grey level replaces fluorescent intensity: Fluorescent paper sensor based on ZnO nanoparticles for quantitative detection of Cu ²⁺ without photoluminescence spectrometer. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2356-2366.	7.8	24
101	Preparation and photoluminescence properties of organic-inorganic nanocomposite with a mesolamellar nickel oxide. <i>Microporous and Mesoporous Materials</i> , 2004, 71, 99-102.	4.4	23
102	A facial method to synthesize Ni(OH) ₂ nanosheets for improving the adsorption properties of Congo red in aqueous solution. <i>Powder Technology</i> , 2013, 235, 121-125.	4.2	23
103	The electrochemical performances of NiCo ₂ O ₄ nanoparticles synthesized by one-step solvothermal method. <i>Ionics</i> , 2017, 23, 2457-2463.	2.4	23
104	Synthesis of mixed Mn-Ce-Ox one dimensional nanostructures and their catalytic activity for CO oxidation. <i>Ceramics International</i> , 2015, 41, 4675-4682.	4.8	22
105	A nonaqueous sol-gel route to synthesize CdIn ₂ O ₄ nanoparticles for the improvement of formaldehyde-sensing performance. <i>Scripta Materialia</i> , 2009, 61, 935-938.	5.2	21
106	A low temperature butane gas sensor used Pt nanoparticles-modified AZO macro/mesoporous nanosheets as sensing material. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 227-238.	7.8	21
107	Nonaqueous synthesis of Pd-functionalized SnO ₂ /In ₂ O ₃ nanocomposites for excellent butane sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 419-426.	7.8	21
108	Ag-Functionalized macro-/mesoporous AZO synthesized by solution combustion for VOCs gas sensing application. <i>RSC Advances</i> , 2016, 6, 101304-101312.	3.6	20

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109	Rhodamine B assisted graphene quantum dots fluorescent sensor system for sensitive recognition of mercury ions. <i>Journal of Luminescence</i> , 2019, 207, 273-281.	3.1	20
110	One-dimensional In_2O_3 nanorods as sensing material for ppb-level n-butanol detection. <i>Nanotechnology</i> , 2021, 32, 375501.	2.6	20
111	RGO/KMnO ₄ composite as supercapacitor electrode with high specific capacitance. <i>Ceramics International</i> , 2016, 42, 5195-5202.	4.8	19
112	Synthesis of core-shell carbon sphere@nickel oxide composites and their application for supercapacitors. <i>Ionics</i> , 2018, 24, 513-521.	2.4	19
113	Nanosheets based mixed structure CuCo_2O_4 hydrothermally grown on Ni foam applied as binder-free supercapacitor electrodes. <i>Journal of Energy Storage</i> , 2020, 32, 101865.	8.1	19
114	Oxygen vacancies promoted heterogeneous catalytic ozonation of atrazine by defective 4A zeolite. <i>Journal of Cleaner Production</i> , 2022, 336, 130376.	9.3	18
115	DNA-Encoded Tuning of Geometric and Plasmonic Properties of Nanoparticles Growing from Gold Nanorod Seeds. <i>Angewandte Chemie</i> , 2015, 127, 8232-8236.	2.0	17
116	Enhancing phosphate removal from water by using ordered mesoporous silica loaded with samarium oxide. <i>Analytical Methods</i> , 2015, 7, 10052-10060.	2.7	17
117	Synthesis, characterization and photoluminescent properties of rare-earth hydroxides and oxides nanorods by hydrothermal route. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 1229-1240.	2.3	16
118	A novel microwave absorption material of Ni doped cryptomelane type manganese oxides. <i>Ceramics International</i> , 2015, 41, 5688-5695.	4.8	16
119	CdIn_2O_4 nanoporous thin film gas-sensor for formaldehyde detection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 103, 18-24.	2.7	16
120	Excellent fluorescence detection of Cu^{2+} in water system using N-acetyl-L-cysteines modified CdS quantum dots as fluorescence probe. <i>Nanotechnology</i> , 2021, 32, 405707.	2.6	16
121	Partially oxidized $\text{Ti}_3\text{C}_2\text{T}_x$ MXene-sensitive material-based ammonia gas sensor with high-sensing performances for room temperature application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27837-27848.	2.2	16
122	Binder-free three-dimensional interconnected CuV_2O_5 - $\text{Ni}(\text{OH})_2$ nests as cathodes for high-loading aqueous zinc-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 792-804.	6.0	16
123	Trimetallic metal-organic frameworks (Fe, Co, Ni-MOF) derived as efficient electrochemical determination for ultra-micro imidacloprid in vegetables. <i>Nanotechnology</i> , 2022, 33, 135502.	2.6	16
124	One-pot synthesis of N-doped graphene quantum dots as highly sensitive fluorescent sensor for detection of mercury ions water solutions. <i>Materials Research Express</i> , 2019, 6, 095615.	1.6	15
125	Pt decorated SnO_2 nanoparticles for high response CO gas sensor under the low operating temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3921-3932.	2.2	15
126	Pd-Functionalized SnO_2 Nanofibers Prepared by Shaddock Peels as Bio-Templates for High Gas Sensing Performance toward Butane. <i>Nanomaterials</i> , 2019, 9, 13.	4.1	15

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127	Amino-capped zinc oxide modified tin oxide electron transport layer for efficient perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021, 2, 100590.	5.6	15
128	NiO nanosheets assembled into hollow microspheres for highly sensitive and fast-responding VOC sensors. <i>RSC Advances</i> , 2015, 5, 80786-80792.	3.6	14
129	Macro-/nanoporous Al-doped ZnO via self-sustained decomposition of metal-organic complexes for application in degradation of Congo red. <i>Ceramics International</i> , 2016, 42, 18914-18924.	4.8	14
130	Facile synthesis of CuO micro-sheets over Cu foil in oxalic acid solution and their sensing properties towards n-butanol. <i>Journal of Materials Chemistry C</i> , 2016, 4, 985-990.	5.5	14
131	Pt-Functionalized Nanoporous TiO ₂ Nanoparticles With Enhanced Gas Sensing Performances Toward Acetone. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800100.	1.8	14
132	Fluorescent ZnO quantum dots synthesized with urea for the selective detection of Cr ⁶⁺ ion in water with a wide range of concentrations. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 035007.	2.3	14
133	Synthesis and characterization of ordered hexagonal and cubic mesoporous tin oxides via mixed-surfactant templates route. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 627-631.	9.4	13
134	Facile synthesis and gas sensing performances based on nickel oxide nanoparticles/multi-wall carbon nanotube composite. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8240-8248.	2.2	13
135	Nanoporous network SnO ₂ constructed with ultra-small nanoparticles for methane gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14325-14334.	2.2	13
136	Sm-doped SnO ₂ nanoparticles synthesized via solvothermal method as a high-performance formaldehyde sensing material for gas sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8249-8264.	2.2	13
137	From Water and Ni Foam to a Ni(OH) ₂ @Ni Foam Binder-Free Supercapacitor Electrode: A Green Corrosion Route. <i>ChemElectroChem</i> , 2018, 5, 434-444.	3.4	12
138	Flash Synthesis and CO Oxidation of Macro-/Nano-porous Co ₃ O ₄ @CeO ₂ Via Self-Sustained Decomposition of Metal-Organic Complexes. <i>Catalysis Letters</i> , 2015, 145, 1344-1350.	2.6	11
139	Ag decorated ZnO nanocrystallines synthesized by a low-temperature solvothermal method and their application for high response H ₂ gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18959-18969.	2.2	11
140	Electrochemical zinc and hydrogen co-intercalation in Li ₃ (V ₆ O ₁₆): A high-capacity aqueous zinc-ion battery cathode. <i>Electrochimica Acta</i> , 2022, 412, 140120.	5.2	11
141	Porous cobaltate: Structure, active sites, thermocatalytic properties for ammonium perchlorate decomposition. <i>Journal of Alloys and Compounds</i> , 2022, 908, 164624.	5.5	11
142	Synthesis, characterization and room temperature photoluminescence properties of briers-like ZnO nanoarchitectures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 167, 177-181.	3.5	10
143	L-Aspartic Acid Capped CdS Quantum Dots as a High Performance Fluorescence Assay for Silver Ions (I) Detection. <i>Nanomaterials</i> , 2019, 9, 1165.	4.1	10
144	Hierarchitecture Co ₂ (OH) ₃ Cl@FeCo ₂ O ₄ composite as a novel and high-performance electrode material applied in supercapacitor. <i>International Journal of Energy Research</i> , 2020, 44, 3122-3133.	4.5	10

#	ARTICLE	IF	CITATIONS
145	Multi-sized nanosheets cobalt-iron layered double hydroxide grown on nickel foam as high performance supercapacitor electrode material. <i>Journal of Energy Storage</i> , 2021, 33, 102088.	8.1	10
146	Formation of manganite fibers under the directing of cationic surfactant. <i>Materials Science and Engineering C</i> , 2006, 26, 653-656.	7.3	9
147	Structure, morphologies and dye removal efficiency of ZnO nanorods grown on polycrystalline Zn substrate. <i>Superlattices and Microstructures</i> , 2014, 74, 279-293.	3.1	9
148	Surfactant-mediated synthesis of ZnCo ₂ O ₄ powders as a high-performance anode material for Li-ion batteries. <i>Ionics</i> , 2015, 21, 623-628.	2.4	9
149	Thioglycolic acid-capped ZnSe quantum dots as nanoprobe for cobalt(II) and iron(III) via measurement of grey level, UV-vis spectra and dynamic light scattering. <i>Mikrochimica Acta</i> , 2019, 186, 444.	5.0	9
150	Nickel foam electrode decorated with Fe-CdIn ₂ O ₄ nanoparticles as an effective electrochemical sensor for non-enzymatic glucose detection. <i>Journal of Electroanalytical Chemistry</i> , 2022, 919, 116524.	3.8	9
151	Î ² -MnO ₂ microrods for the degradation of methyl orange under acid condition from aqueous solutions. <i>Research on Chemical Intermediates</i> , 2017, 43, 3975-3987.	2.7	8
152	Combustion agent mediated flash synthesis of porous MCo ₂ O ₄ (M = Zn, Ni, Cu and Fe) via self-sustained decomposition of metal-organic complexes. <i>Materials Letters</i> , 2017, 195, 123-126.	2.6	8
153	â€™Greenâ€™ prepare SnO ₂ nanofibers by shaddock peels: application for detection of volatile organic compound gases. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3032-3044.	2.2	8
154	Novel method for the qualitative identification of chromium ions (III) using l-aspartic acid stabilized CdS quantum dots. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109160.	4.0	8
155	Potassium sulphate (K ₂ SO ₄) activation of chestnut shell to oxygen-enriched porous carbons with enhanced capacitive properties. <i>International Journal of Energy Research</i> , 2020, 44, 5385-5396.	4.5	8
156	FACILE SYNTHESIS AND MICROWAVE ABSORPTION PROPERTIES OF Î±-MnO ₂ NANORODS. <i>Functional Materials Letters</i> , 2012, 05, 1250043.	1.2	7
157	A novel non-enzymatic glucose electrochemical sensor with high sensitivity and selectivity based on CdIn ₂ O ₄ nanoparticles on 3D Ni foam substrate. <i>Nanotechnology</i> , 2021, 32, 405502.	2.6	7
158	Preparation of NaV ₆ O ₁₅ Nanosheet Cathodes with High Cycling Performance and Good Capacity Retention Rate in Aqueous Zinc-Ion Batteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	1.8	7
159	Combustion synthesized hierarchically porous Mn ₃ O ₄ for catalytic degradation of methyl orange. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 643-647.	1.7	6
160	From Water and Ni Foam to a Ni(OH) ₂ @Ni Foam Binder-Free Supercapacitor Electrode: A Green Corrosion Route. <i>ChemElectroChem</i> , 2018, 5, 409-409.	3.4	4
161	SnO ₂ quantum dots with rapid butane detection at lower ppm-level. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	4
162	High-performance non-enzymatic glucose sensors based on porous Co ₃ O ₄ synthesized by coprecipitation method with the different precipitants. <i>Ionics</i> , 2021, 27, 1803-1812.	2.4	4

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163	ZnO-SnO ₂ nanocomposites modified by PdO nanoparticles named PdO-ZSO as gas sensing material for hydrogen and butane with the excellent response time and recovery time. Journal of Materials Science: Materials in Electronics, 2021, 32, 28891-28908.	2.2	4
164	Gas response enhancement of VOCs sensor based on Sn doped nanoporous anatase TiO ₂ nanoparticles at a relative low operating temperature. Materials Research Express, 2019, 6, 105008.	1.6	3
165	Fluorescence "turn-on" probe for Al ³⁺ detection in water based on ZnS/ZnO quantum dots with excellent selectivity and stability. Nanotechnology, 2021, 32, 375001.	2.6	2
166	V ₂ O ₅ /NaV ₆ O ₁₅ nanocomposites synthesized by molten salt method as a high-performances cathode material for aqueous zinc-ion batteries. Nanotechnology, 2022, 33, 115402.	2.6	2
167	Preparation, characterization and room temperature photoluminescence properties of a zinc oxide nanosheet network grown on glass substrate by a facile chemical route. Superlattices and Microstructures, 2011, 50, 311-318.	3.1	1
168	Electrocatalytic performance of mesoporous NiCo ₂ O ₄ nanosheets with elemental electron synergy towards direct glucose in alkaline solution. Journal of Physics and Chemistry of Solids, 2022, 167, 110784.	4.0	0