

Jin Zhen

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30
papers

1,706
citations

17
h-index

30
g-index

30
ext. papers

1,896
ext. citations

5.7
avg, IF

4.35
L-index

#	Paper	IF	Citations
30	Metal oxide nanostructures and their gas sensing properties: a review. <i>Sensors</i> , 2012 , 12, 2610-31	3.8	767
29	Sub-ppb detection of acetone using Au-modified flower-like hierarchical ZnO structures. <i>Sensors and Actuators B: Chemical</i> , 2015 , 219, 209-217	8.5	82
28	Facile synthesis of porous single crystalline ZnO nanoplates and their application in photocatalytic reduction of Cr(VI) in the presence of phenol. <i>Journal of Hazardous Materials</i> , 2014 , 276, 400-7	12.8	80
27	Parts per billion-level detection of benzene using SnO ₂ /graphene nanocomposite composed of sub-6 nm SnO ₂ nanoparticles. <i>Analytica Chimica Acta</i> , 2012 , 736, 100-7	6.6	80
26	Ag-decorated ultra-thin porous single-crystalline ZnO nanosheets prepared by sunlight induced solvent reduction and their highly sensitive detection of ethanol. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 975-982	8.5	76
25	Single-Crystalline Anatase TiO ₂ Dots Assembled Micro-Sphere and Their Photocatalytic Activity. <i>Crystal Growth and Design</i> , 2009 , 9, 2324-2328	3.5	59
24	Synthesis of Ag-decorated porous TiO ₂ nanowires through a sunlight induced reduction method and its enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2016 , 387, 469-476	6.7	56
23	Synthesis and gas sensing properties of hierarchical meso-macroporous SnO ₂ for detection of indoor air pollutants. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 519-525	8.5	52
22	Interlaced nanoflake-assembled flower-like hierarchical ZnO microspheres prepared by bisolvents and their sensing properties to ethanol. <i>Journal of Alloys and Compounds</i> , 2015 , 632, 645-650	5.7	51
21	A biocompatible and novelty-defined Al-HAP adsorption membrane for highly effective removal of fluoride from drinking water. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 97-107	9.3	46
20	Highly sensitive gas sensor based on SnO ₂ nanorings for detection of isopropanol. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 712-717	5.7	43
19	Facet-dependent stripping behavior of Cu ₂ O microcrystals toward lead ions: a rational design for the determination of lead ions. <i>Small</i> , 2015 , 11, 2493-8	11	41
18	Ag/SnO ₂ /graphene ternary nanocomposites and their sensing properties to volatile organic compounds. <i>Journal of Alloys and Compounds</i> , 2016 , 659, 127-131	5.7	40
17	Fluoride removal mechanism of bayerite/boehmite nanocomposites: roles of the surface hydroxyl groups and the nitrate anions. <i>Journal of Colloid and Interface Science</i> , 2015 , 440, 60-7	9.3	34
16	A facile precipitation synthesis of mesoporous 2-line ferrihydrite with good fluoride removal properties. <i>RSC Advances</i> , 2015 , 5, 84389-84397	3.7	33
15	Chlorobenzene sensor based on Pt-decorated porous single-crystalline ZnO nanosheets. <i>Sensors and Actuators A: Physical</i> , 2016 , 252, 96-103	3.9	33
14	Large scale free-standing open-ended TiO ₂ nanotube arrays: stress-induced self-detachment and in situ pore opening. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7498	7.1	27

13	Porous TiO ₂ nanowires derived from nanotubes: Synthesis, characterization and their enhanced photocatalytic properties. <i>Microporous and Mesoporous Materials</i> , 2013 , 181, 146-153	5.3	16
12	The detection of ethylene using porous ZnO nanosheets: utility in the determination of fruit ripeness. <i>New Journal of Chemistry</i> , 2019 , 43, 3619-3624	3.6	12
11	Zr-Based MOFs as new photocatalysts for the rapid reduction of Cr(VI) in water. <i>New Journal of Chemistry</i> , 2020 , 44, 7218-7225	3.6	12
10	Plasmonic MoO nanospheres assembled on graphene oxide for highly sensitive SERS detection of organic pollutants. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 2781-2791	4.4	11
9	Plasmonic Hybrid Mo/MoO ₂ Nanospheres as Surface-Enhanced Raman Scattering Substrates for Molecular Detection. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5656-5664	5.6	10
8	New Strategy for Rapid Detection of the Simulants of Persistent Organic Pollutants Using Gas Sensor Based on 3-D Porous Single-Crystalline ZnO Nanosheets. <i>IEEE Sensors Journal</i> , 2015 , 15, 3668-3674	4	10
7	Significantly increased Raman enhancement on defect-rich O-incorporated 1T-MoS ₂ nanosheets. <i>Journal of Materials Science</i> , 2020 , 55, 16374-16384	4.3	8
6	Highly sensitive and selective ethanol sensors based on porous Co ₃ O ₄ nanobelts synthesized through a facile wet-chemistry method. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	7
5	Mesoporous SnO ₂ Nanowires: Synthesis and Ethanol Sensing Properties. <i>Advances in Condensed Matter Physics</i> , 2017 , 2017, 1-6	1	7
4	Catalysis-Based Cataluminescent and Conductometric Gas Sensors: Sensing Nanomaterials, Mechanism, Applications and Perspectives. <i>Catalysts</i> , 2016 , 6, 210	4	7
3	Enhanced Isopropanol Sensing Performance of the CdS Nanoparticle Decorated ZnO Porous Nanosheets-Based Gas Sensors. <i>IEEE Sensors Journal</i> , 2021 , 21, 13041-13047	4	6
2	Heavy Metal Detection: Facet-Dependent Stripping Behavior of Cu ₂ O Microcrystals Toward Lead Ions: A Rational Design for the Determination of Lead Ions (Small 21/2015). <i>Small</i> , 2015 , 11, 2584-2584	11	
1	Facile Synthesis of Graphene Oxide/Titanate Nanotube Composites and Their Application for Cobalt(II) Removal. <i>Advances in Condensed Matter Physics</i> , 2022 , 2022, 1-11	1	