

Yong-Hui Zhang

List of Publications by Year in descending order

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43
papers

2,366
citations

346980

22
h-index

299063

42
g-index

43
all docs

43
docs citations

43
times ranked

3702
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. <i>Nanotechnology</i> , 2009, 20, 185504.	1.3	913
2	Highly Enhanced Acetone Sensing Performances of Porous and Single Crystalline ZnO Nanosheets: High Percentage of Exposed (100) Facets Working Together with Surface Modification with Pd Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3797-3804.	4.0	173
3	Tuning the electronic structure and transport properties of graphene by noncovalent functionalization: effects of organic donor, acceptor and metal atoms. <i>Nanotechnology</i> , 2010, 21, 065201.	1.3	120
4	Advances in Doped ZnO Nanostructures for Gas Sensor. <i>Chemical Record</i> , 2020, 20, 1553-1567.	2.9	91
5	All- η Stable Sandwich-Structured $\text{MoO}_3/\text{MoS}_2/\text{C}$ Hollow Nanoreactors for Enhanced Electrochemical Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2101715.	7.8	87
6	Ultrathin HNb_3O_8 nanosheets with oxygen vacancies for enhanced photocatalytic oxidation of amines under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5493-5503.	5.2	81
7	Hierarchical Microtubes Constructed by MoS_2 Nanosheets with Enhanced Sodium Storage Performance. <i>ACS Nano</i> , 2020, 14, 15577-15586.	7.3	79
8	Tunable electronic and magnetic properties of graphene-like ZnO monolayer upon doping and CO adsorption: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13129-13135.	5.2	76
9	Al doped narcissus-like ZnO for enhanced NO_2 sensing performance: An experimental and DFT investigation. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127489.	4.0	71
10	Ultrathin agaric-like ZnO with Pd dopant for aniline sensor and DFT investigation. <i>Journal of Hazardous Materials</i> , 2020, 388, 122069.	6.5	50
11	Facile synthesis of urchin-like hierarchical Nb_2O_5 nanospheres with enhanced visible light photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2017, 728, 19-28.	2.8	49
12	Recent advances in Cu_2O -based composites for photocatalysis: a review. <i>Dalton Transactions</i> , 2021, 50, 4091-4111.	1.6	45
13	A PPy/ Cu_2O molecularly imprinted composite film-based visible light-responsive photoelectrochemical sensor for microcystin-LR. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3937-3944.	2.7	44
14	A room-temperature aniline sensor based on Ce doped ZnO porous nanosheets with abundant oxygen vacancies. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160988.	2.8	44
15	Fluorescence quenching based alkaline phosphatase activity detection. <i>Talanta</i> , 2018, 176, 52-58.	2.9	41
16	Ultra-sensitive triethylamine sensors based on oxygen vacancy-enriched ZnO/SnO_2 micro-camellia. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6078-6086.	2.7	38
17	Highly enhanced photocatalytic H_2 evolution of Cu_2O microcube by coupling with TiO_2 nanoparticles. <i>Nanotechnology</i> , 2019, 30, 145401.	1.3	33
18	Morphology-controllable Cu_2O supercrystals: Facile synthesis, facet etching mechanism and comparative photocatalytic H_2 production. <i>Journal of Alloys and Compounds</i> , 2017, 729, 563-570.	2.8	29

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19	3D hierarchical In ₂ O ₃ nanoarchitectures consisting of nanocuboids and nanosheets for chemical sensors with enhanced performances. <i>Materials Letters</i> , 2016, 163, 236-239.	1.3	26
20	Modulation of Mo ⁴⁺ /Fe ³⁺ /C Sites Over Mesoscale Diffusion-Enhanced Hollow Sub ² -Micro Reactors Toward Boosted Electrochemical Water Oxidation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	26
21	Facile synthesis of hollow p-Cu ₂ O/n-ZnO microspheres with enhanced photocatalytic H ₂ production. <i>Chemical Physics Letters</i> , 2019, 734, 136748.	1.2	25
22	2D nanosheet-assembled Pd ZnO microflowers for acetone sensor with enhanced performances. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 124, 330-335.	1.9	25
23	Effects of Stone-Wales Defect on the Interactions Between NH ₃ , NO ₂ and Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7347-7350.	0.9	23
24	Oxygen vacancies in concave cubes Cu ₂ O-reduced graphene oxide heterojunction with enhanced photocatalytic H ₂ production. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 7182-7193.	1.1	21
25	Dendritic branching Z-scheme Cu ₂ O/TiO ₂ heterostructure photocatalysts for boosting H ₂ production. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 152, 109948.	1.9	21
26	Tuning the magnetic and transport properties of metal adsorbed graphene by co-adsorption with 1,2-dichlorobenzene. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11626.	1.3	20
27	Double-platelet Pd@ZnO microcrystals for NO ₂ chemical sensors: their facile synthesis and DFT investigation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22039-22047.	1.3	16
28	Facile synthesis of Pd-decorated ZnO nanoparticles for acetone sensors with enhanced performance. <i>Research on Chemical Intermediates</i> , 2018, 44, 1569-1578.	1.3	14
29	Facile synthesis of core-shell Cu ₂ O@ ZnO structure with enhanced photocatalytic H ₂ production. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 116, 126-130.	1.9	12
30	Poly(vinyl alcohol)/Carboxyl Graphene Membranes for Ethanol Dehydration by Pervaporation. <i>Chemical Engineering and Technology</i> , 2020, 43, 574-581.	0.9	12
31	Ag@AgCl Photocatalyst Loaded on the 3D Graphene/PANI Hydrogel for the Enhanced Adsorption-Photocatalytic Degradation and In Situ SERS Monitoring Properties. <i>ChemistrySelect</i> , 2021, 6, 4166-4177.	0.7	11
32	Treatment dependent sodium-rich Prussian blue as a cathode material for sodium-ion batteries. <i>Dalton Transactions</i> , 2022, 51, 9622-9626.	1.6	10
33	Dual functionalized Ni substitution in shuttle-like In ₂ O ₃ enabling high sensitivity NH ₃ detection. <i>Applied Surface Science</i> , 2022, 600, 154158.	3.1	8
34	Noncovalent functionalization of graphene via π -hole and π -hole interactions. <i>Structural Chemistry</i> , 2020, 31, 97-101.	1.0	6
35	Boosting high-rate Li storage of bulb-like O-MoS ₂ @C nanoreactors with sulfur vacancies and carbon. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 617, 126406.	2.3	6
36	FIRST PRINCIPLES STUDY OF CYTOSINE ADSORPTION ON GRAPHENE. <i>International Journal of Nanoscience</i> , 2009, 08, 5-8.	0.4	5

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37	Hierarchical tubular MoP/MoS ₂ composite with enhanced electrochemical hydrogen evolution activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 14047-14056.	1.1	5
38	Noncovalent functionalization of graphene through physisorption of 1,1-diamino-2,2-dinitroethene: Impacts of and cooperativity between hydrogen bond and π - π interaction. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109736.	1.9	4
39	Theoretical calculation on the substituent effect of strontium para-tetraphenyl porphyrins. <i>Structural Chemistry</i> , 2020, 31, 1785-1792.	1.0	2
40	ZIF-8 derived ZnO@CeO ₂ heterojunction for ppb-level acetone detection. <i>Sensors and Actuators A: Physical</i> , 2022, 342, 113650.	2.0	2
41	Facile synthesis of Cu ₂ O/TiO ₂ (P25) composites with enhanced photocatalytic H ₂ evolution activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18900-18911.	1.1	1
42	Design of Schottky barriers in ZnO@TiC interface and its application in high sensitivity detection of aniline. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 458-467.	1.1	1
43	Research progress over Cu ₂ O/n-type semiconductor composites in photocatalysis. <i>Journal of Photocatalysis</i> , 2021, 02, .	0.4	0