## Yong-Hui Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATION
1	Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. Nanotechnology, 2009, 20, 185504.	2.6	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. ACS Applied Materials & Interfaces, 2012, 4, 3797-3804.	8.0	173
3	Tuning the electronic structure and transport properties of graphene by noncovalent functionalization: effects of organic donor, acceptor and metal atoms. Nanotechnology, 2010, 21, 065201.	2.6	120
4	Advances in Doped ZnO Nanostructures for Gas Sensor. Chemical Record, 2020, 20, 1553-1567.	5.8	91
5	Allâ€pH Stable Sandwichâ€ <del>S</del> tructured MoO <sub>2</sub> /MoS <sub>2</sub> /C Hollow Nanoreactors for Enhanced Electrochemical Hydrogen Evolution. Advanced Functional Materials, 2021, 31, 2101715.	14.9	87
6	Ultrathin HNb <sub>3</sub> O <sub>8</sub> nanosheets with oxygen vacancies for enhanced photocatalytic oxidation ofÂamines under visible light irradiation. Journal of Materials Chemistry A, 2019, 7, 5493-5503.	10.3	81
7	Hierarchical Microtubes Constructed by MoS <sub>2</sub> Nanosheets with Enhanced Sodium Storage Performance. ACS Nano, 2020, 14, 15577-15586.	14.6	79
8	Tunable electronic and magnetic properties of graphene-like ZnO monolayer upon doping and CO adsorption: a first-principles study. Journal of Materials Chemistry A, 2014, 2, 13129-13135.	10.3	76
9	Al doped narcissus-like ZnO for enhanced NO2 sensing performance: An experimental and DFT investigation. Sensors and Actuators B: Chemical, 2020, 305, 127489.	7.8	71
10	Ultrathin agaric-like ZnO with Pd dopant for aniline sensor and DFT investigation. Journal of Hazardous Materials, 2020, 388, 122069.	12.4	50
11	Facile synthesis of urchin-like hierarchical Nb2O5 nanospheres with enhanced visible light photocatalytic activity. Journal of Alloys and Compounds, 2017, 728, 19-28.	5.5	49
12	Recent advances in Cu <sub>2</sub> O-based composites for photocatalysis: a review. Dalton Transactions, 2021, 50, 4091-4111.	3.3	45
13	A PPy/Cu <sub>2</sub> 0 molecularly imprinted composite film-based visible light-responsive photoelectrochemical sensor for microcystin-LR. Journal of Materials Chemistry C, 2018, 6, 3937-3944.	5.5	44
14	A room-temperature aniline sensor based on Ce doped ZnO porous nanosheets with abundant oxygen vacancies. Journal of Alloys and Compounds, 2021, 885, 160988.	5.5	44
15	Fluorescence quenching based alkaline phosphatase activity detection. Talanta, 2018, 176, 52-58.	5.5	41
16	Ultra-sensitive triethylamine sensors based on oxygen vacancy-enriched ZnO/SnO <sub>2</sub> micro-camellia. Journal of Materials Chemistry C, 2021, 9, 6078-6086.	5.5	38
17	Highly enhanced photocatalytic H <sub>2</sub> evolution of Cu <sub>2</sub> O microcube by coupling with TiO <sub>2</sub> nanoparticles. Nanotechnology, 2019, 30, 145401.	2.6	33
18	Morphology-controllable Cu2O supercrystals: Facile synthesis, facet etching mechanism and comparative photocatalytic H2 production. Journal of Alloys and Compounds, 2017, 729, 563-570.	5.5	29

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19	3D hierarchical In 2 O 3 nanoarchitectures consisting of nanocuboids and nanosheets for chemical sensors with enhanced performances. Materials Letters, 2016, 163, 236-239.	2.6	26
20	Modulation of Mo–Fe–C Sites Over Mesoscale Diffusionâ€Enhanced Hollow Subâ€Micro Reactors Toward Boosted Electrochemical Water Oxidation. Advanced Functional Materials, 2022, 32, .	14.9	26
21	Facile synthesis of hollow p-Cu2O/n-ZnO microspheres with enhanced photocatalytic H2 production. Chemical Physics Letters, 2019, 734, 136748.	2.6	25
22	2D nanosheet-assembled Pd ZnO microflowers for acetone sensor with enhanced performances. Journal of Physics and Chemistry of Solids, 2019, 124, 330-335.	4.0	25
23	Effects of Stone-Wales Defect on the Interactions Between NH <sub>3</sub> , NO <sub>2</sub> and Graphene. Journal of Nanoscience and Nanotechnology, 2010, 10, 7347-7350.	0.9	23
24	Oxygen vacancies in concave cubes Cu2O-reduced graphene oxide heterojunction with enhanced photocatalytic H2 production. Journal of Materials Science: Materials in Electronics, 2019, 30, 7182-7193.	2.2	21
25	Dendritic branching Z-scheme Cu2O/TiO2 heterostructure photocatalysts for boosting H2 production. Journal of Physics and Chemistry of Solids, 2021, 152, 109948.	4.0	21
26	Tuning the magnetic and transport properties of metal adsorbed graphene by co-adsorption with 1,2-dichlorobenzene. Physical Chemistry Chemical Physics, 2012, 14, 11626.	2.8	20
27	Double-platelet Pd@ZnO microcrystals for NO <sub>2</sub> chemical sensors: their facile synthesis and DFT investigation. Physical Chemistry Chemical Physics, 2019, 21, 22039-22047.	2.8	16
28	Facile synthesis of Pd-decorated ZnO nanoparticles for acetone sensors with enhanced performance. Research on Chemical Intermediates, 2018, 44, 1569-1578.	2.7	14
29	Facile synthesis of core–shell Cu2O@ ZnO structure with enhanced photocatalytic H2 production. Journal of Physics and Chemistry of Solids, 2018, 116, 126-130.	4.0	12
30	Poly(vinyl alcohol)/Carboxyl Graphene Membranes for Ethanol Dehydration by Pervaporation. Chemical Engineering and Technology, 2020, 43, 574-581.	1.5	12
31	Ag@AgCl Photocatalyst Loaded on the 3D Graphene/PANI Hydrogel for the Enhanced Adsorptionâ€Photocatalytic Degradation and In Situ SERS Monitoring Properties. ChemistrySelect, 2021, 6, 4166-4177.	1.5	11
32	Treatment dependent sodium-rich Prussian blue as a cathode material for sodium-ion batteries. Dalton Transactions, 2022, 51, 9622-9626.	3.3	10
33	Dual functionalized Ni substitution in shuttle-like In2O3 enabling high sensitivity NH3 detection. Applied Surface Science, 2022, 600, 154158.	6.1	8
34	Noncovalent functionalization of graphene via π-hole···π and σ-hole···π interactions. Structural Chemistry, 2020, 31, 97-101.	2.0	6
35	Boosting high-rate Li storage of bulb-like O-MoS@C nanoreactors with sulfur vacancies and carbon. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126406.	4.7	6
36	FIRST PRINCIPLES STUDY OF CYTOSINE ADSORPTION ON GRAPHENE. International Journal of Nanoscience, 2009, 08, 5-8.	0.7	5

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37	Hierarchical tubular MoP/MoS2 composite with enhanced electrochemical hydrogen evolution activity. Journal of Materials Science: Materials in Electronics, 2021, 32, 14047-14056.	2.2	5
38	Noncovalent functionalization of graphene through physisorption of 1,1-diamino-2,2-dinitroethene: Impacts of and cooperativity between hydrogen bond and Ï€À·À·ÀE interaction. Journal of Physics and Chemistry of Solids, 2021, 148, 109736.	4.0	4
39	Theoretical calculation on the substituent effect of strontium para-tetraphenyl porphyrins. Structural Chemistry, 2020, 31, 1785-1792.	2.0	2
40	ZIF-8 derived ZnO@CeO2 heterojunction for ppb-level acetone detection. Sensors and Actuators A: Physical, 2022, 342, 113650.	4.1	2
41	Facile synthesis of Cu2O/TiO2 (P25) composites with enhanced photocatalytic H2 evolution activity. Journal of Materials Science: Materials in Electronics, 2021, 32, 18900-18911.	2.2	1
42	Design of Schottky barriers in ZnO–TiC interface and its application in high sensitivity detection of aniline. Journal of Materials Science: Materials in Electronics, 2022, 33, 458-467.	2.2	1
43	Research progress over Cu2O/n-type semiconductor composites in photocatalysis. Journal of Photocatalysis, 2021, 02, .	0.4	Ο