

# Yi Zeng

## List of Publications by Year in descending order

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46  
papers

2,360  
citations

159585  
30  
h-index

233421  
45  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2838  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and selective acetone detection based on ZnO nanorod arrays. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 93-98.	7.8	188
2	Nanosheets-assembled CuSe Crystal Pillar as a Stable and High-Power Anode for Sodium-Ion and Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900323.	19.5	187
3	Enhanced toluene sensing characteristics of TiO <sub>2</sub> -doped flowerlike ZnO nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 73-78.	7.8	172
4	Fast Potassium Storage in Hierarchical Ca <sub>0.5</sub> Ti <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @C Microspheres Enabling High-Performance Potassium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1802684.	14.9	153
5	Development of microstructure CO sensor based on hierarchically porous ZnO nanosheet thin films. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 897-902.	7.8	120
6	Enhanced ammonia sensing performances of Pd-sensitized flowerlike ZnO nanostructure. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 395-400.	7.8	92
7	Boosting Zn <sup>2+</sup> and NH <sub>4</sub> <sup>+</sup> Storage in Aqueous Media via In-Situ Electrochemical Induced VS <sub>2</sub> /VO <sub>x</sub> Heterostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2008743.	14.9	92
8	Synthesis and Ethanol Sensing Properties of Self-Assembled Monocrystalline ZnO Nanorod Bundles by Poly(ethylene glycol)-Assisted Hydrothermal Process. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3442-3448.	3.1	91
9	One-Pot Synthesis and Gas-Sensing Properties of Hierarchical ZnSnO <sub>3</sub> Nanocages. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19000-19004.	3.1	91
10	Synthesis and gas-sensing properties of ZnSnO <sub>3</sub> cubic nanocages and nanoskeletons. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 449-453.	7.8	72
11	Nanotube-assembled pine-needle-like CuS as an effective energy booster for sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10619-10628.	10.3	70
12	Synthesis of magnesium borate (Mg <sub>2</sub> B <sub>2</sub> O <sub>5</sub> ) nanowires, growth mechanism and their lubricating properties. <i>Materials Research Bulletin</i> , 2008, 43, 2239-2247.	5.2	68
13	Rapid and selective H <sub>2</sub> S detection of hierarchical ZnSnO <sub>3</sub> nanocages. <i>Sensors and Actuators B: Chemical</i> , 2011, 159, 245-250.	7.8	63
14	Synthesis of double-shelled SnO <sub>2</sub> nano-polyhedra and their improved gas sensing properties. <i>Nanoscale</i> , 2015, 7, 3276-3284.	5.6	59
15	Assembly of hierarchical ZnSnO <sub>3</sub> hollow microspheres from ultra-thin nanorods and the enhanced ethanol-sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 370-377.	7.8	56
16	Molybdenum disulfide loading on a Z-scheme graphitic carbon nitride and lanthanum nickelate heterojunction for enhanced photocatalysis: Interfacial charge transfer and mechanistic insights. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 684-694.	9.4	55
17	Synthesis and the improved sensing properties of hierarchical SnO <sub>2</sub> hollow nanosheets with mesoporous and multilayered interiors. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 354-361.	7.8	49
18	Low-temperature synthesis of porous hollow structured Cu <sub>2</sub> O for photocatalytic activity and gas sensor application. <i>RSC Advances</i> , 2013, 3, 18651.	3.6	44

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19	One-pot synthesis and improved sensing properties of hierarchical flowerlike SnO <sub>2</sub> assembled from sheet and ultra-thin rod subunits. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 447-453.	7.8	43
20	Ultrathin nanorod-assembled SnO <sub>2</sub> hollow cubes for high sensitive n-butanol detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 693-704.	7.8	43
21	Pd-loaded SnO <sub>2</sub> ultrathin nanorod-assembled hollow microspheres with the significant improvement for toluene detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 465-474.	7.8	42
22	Enhanced toluene sensing performances of Pd- loaded SnO <sub>2</sub> cubic nanocages with porous nanoparticle-assembled shells. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 1121-1129.	7.8	42
23	Entropy Stabilization Effect and Oxygen Vacancies Enabling Spinel Oxide Highly Reversible Lithium-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58674-58681.	8.0	42
24	Controllable formation of multi-layered SnO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> sandwich cubes as a high-performance anode for Li-ion batteries. <i>Nanoscale</i> , 2017, 9, 17576-17584.	5.6	39
25	Preparation of Cu@Zn/ZnO core-shell nanocomposite by wire electrical explosion and precipitation process in aqueous solution and CO sensing properties. <i>Applied Surface Science</i> , 2009, 255, 4045-4049.	6.1	36
26	Fabrication and Optical Properties of Large-Scale Nutlike ZnO Microcrystals via a Low-Temperature Hydrothermal Route. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8016-8022.	3.1	34
27	Self-assembly of hierarchical ZnSnO <sub>3</sub> -SnO <sub>2</sub> nanoflakes and their gas sensing properties. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 2451-2458.	4.2	34
28	Multistep assembly of Au-loaded SnO <sub>2</sub> hollow multilayered nanosheets for high-performance CO detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 362-372.	7.8	34
29	Multistep synthesis of non-spherical SnO <sub>2</sub> @SnO <sub>2</sub> yolk-shell cuboctahedra with nanoparticle-assembled porous structure for toluene detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 365-375.	7.8	32
30	Preparation and gas sensing properties of the nutlike ZnO microcrystals via a simple hydrothermal route. <i>Materials Letters</i> , 2009, 63, 843-846.	2.6	31
31	Enhanced ammonia detection using wrinkled porous CoFe <sub>2</sub> O <sub>4</sub> double-shelled spheres prepared by a thermally driven contraction process. <i>Sensors and Actuators B: Chemical</i> , 2020, 314, 128085.	7.8	31
32	Bimetal carbonaceous templates for multi-shelled NiCo <sub>2</sub> O <sub>4</sub> hollow sphere with enhanced xylene detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129862.	7.8	31
33	Coaxial cable-like dual conductive channel strategy in polypyrrole coated perovskite lanthanum manganite for high-performance asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 601-609.	9.4	26
34	Synthesis of Novel Hollow ZnSnO <sub>3</sub> Cubic Nanocages and Their HCHO Sensing Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1286-1290.	0.9	18
35	Synthesis of porous nanosheet-assembled ZnFe <sub>2</sub> O <sub>4</sub> @polypyrrole yolk-shell microspheres as anode materials for high-rate lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 863, 114038.	3.8	17
36	Localized inside-out Ostwald ripening of hybrid double-shelled cages into SnO <sub>2</sub> triple-shelled hollow cubes for improved toluene detection. <i>Nanoscale</i> , 2020, 12, 2011-2021.	5.6	12

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37	Development of microstructure sensor based on hierarchically 2-fold ZnO nanorod arrays on hydrothermal-like ZnAlCO <sub>3</sub> nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 206-212.	7.8	8
38	Anomalous Structural Transition and Electrical Transport Behaviors in Compressed Zn <sub>2</sub> SnO <sub>4</sub> : Effect of Interface. <i>Scientific Reports</i> , 2015, 5, 14417.	3.3	8
39	Novel Au-activated SnO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> hetero-alternated multilayer nanosheets with enhanced low-concentration acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131478.	7.8	8
40	First-principles investigations on the adsorption and diffusion of carbon atoms on the surface and in the subsurface of Co (111) related to the growth of graphene. <i>RSC Advances</i> , 2014, 4, 34237.	3.6	7
41	Porous SnO <sub>2</sub> triple-shelled hollow nanoboxes for high sensitive toluene detection. <i>Materials Letters</i> , 2020, 264, 127320.	2.6	7
42	Controllable assembly of sandwich-structured SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> multilayer nanosheets for high sensitive acetone detection. <i>Materials Letters</i> , 2018, 221, 57-61.	2.6	6
43	Anode Materials: Nanosheets-Assembled CuSe Crystal Pillar as a Stable and High-Power Anode for Sodium-Ion and Potassium-Ion Batteries ( <i>Adv. Energy Mater.</i> 20/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970073.	19.5	3
44	Facile construction of bowknot-like CuO architectures for improved xylene gas sensing properties. <i>New Journal of Chemistry</i> , 2022, 46, 6783-6792.	2.8	2
45	Adsorptions and diffusions of carbon atoms on the surface and in the subsurface of Co (200): A first-principles density-functional study. <i>Chinese Physics B</i> , 2014, 23, 086802.	1.4	1
46	Flexible NH <sub>3</sub> gas sensor based on porous nanosheet-assembled ZnFe <sub>2</sub> O <sub>4</sub> /polyaniline yolk-shell microspheres. , 2021, , .		1