

# Zhaobo Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

768  
citations

623188

14  
h-index

610482

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational Design and Characterization of Direct Z-Scheme Photocatalyst for Overall Water Splitting from Excited State Dynamics Simulations. <i>ACS Catalysis</i> , 2020, 10, 1976-1983.	5.5	120
2	Janus MoSSe/WSeTe heterostructures: a direct Z-scheme photocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21835-21842.	5.2	119
3	Aqueous acid-based synthesis of lead-free tin halide perovskites with near-unity photoluminescence quantum efficiency. <i>Chemical Science</i> , 2019, 10, 4573-4579.	3.7	109
4	POD Nanozyme optimized by charge separation engineering for light/pH activated bacteria catalytic/photodynamic therapy. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 86.	7.1	59
5	Bi <sub>2</sub> WO <sub>6</sub> BiOCl heterostructure with enhanced photocatalytic activity for efficient degradation of oxytetracycline. <i>Scientific Reports</i> , 2020, 10, 18401.	1.6	48
6	Tunable electronic properties and optical properties of novel stanene/ZnO heterostructure: First-principles calculation. <i>Computational Materials Science</i> , 2017, 139, 179-184.	1.4	47
7	Photocatalytic Ammonia Synthesis: Mechanistic Insights into N <sub>2</sub> Activation at Oxygen Vacancies under Visible Light Excitation. <i>ACS Catalysis</i> , 2021, 11, 14058-14066.	5.5	35
8	Photocatalytic performance of few-layer graphitic C <sub>3</sub> N <sub>4</sub> : enhanced by interlayer coupling. <i>Nanoscale</i> , 2019, 11, 4101-4107.	2.8	34
9	Greatly Enhanced Photoabsorption and Photothermal Conversion of Antimonene Quantum Dots through Spontaneously Partial Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17987-17993.	4.0	30
10	DFT study on structural, electronic, and optical properties of cubic and monoclinic CuO. <i>Journal of Computational Electronics</i> , 2018, 17, 21-28.	1.3	29
11	Theoretical progress on direct Z-scheme photocatalysis of two-dimensional heterostructures. <i>Frontiers of Physics</i> , 2021, 16, 1.	2.4	25
12	A general strategy for designing two-dimensional high-efficiency layered thermoelectric materials. <i>Energy and Environmental Science</i> , 2021, 14, 4059-4066.	15.6	24
13	Suppressing photoexcited electron-hole recombination in MoSe <sub>2</sub> /WSe <sub>2</sub> lateral heterostructures via interface-coupled state engineering: a time-domain ab initio study. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20621-20628.	5.2	18
14	Phase stability, electronic structure and mechanical properties of IrB <sub>x</sub> (x= 0.9, 1.1): First-principles calculations. <i>Computational Materials Science</i> , 2016, 113, 98-103.	1.4	16
15	Ultralong lifetime for fully photogenerated spin-polarized current in two-dimensional ferromagnetic/nonmagnetic semiconductor heterostructures. <i>Physical Review B</i> , 2021, 103, .	1.1	14
16	Synergistic modulation of metal-free photocatalysts by the composition ratio change and heteroatom doping for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11753-11761.	5.2	14
17	Revealing the pH-Dependent Photoluminescence Mechanism of Graphitic C <sub>3</sub> N <sub>4</sub> Quantum Dots. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900074.	1.3	13
18	Van der Waals Magnetic Heterojunctions with Giant Zero-Bias Tunneling Magnetoresistance and Photo-Assisted Magnetic Memory. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	4

#	ARTICLE	IF	CITATIONS
19	Structural, phase stability, electronic, elastic properties and hardness of IrN <sub>2</sub> and zinc blende IrN: First-principles calculations. <i>Physica B: Condensed Matter</i> , 2016, 503, 141-146.	1.3	2
20	Phase stability, electronic structure, elastic properties and hardness of Ru–Ir alloys: first-principles calculations. <i>Materials Research Express</i> , 2017, 4, 076512.	0.8	2
21	The effects of CuO particle size on microstructure evolution of AgCuO compo-sites in plastic deformation process: finite element simulation and experimental study. <i>Materials Research Express</i> , 2018, 5, 046306.	0.8	2
22	Rational Unraveling of Alkali Metal Concentration-Dependent Photovoltaic Performance of Halide Perovskites: Octahedron Distortion vs Surface Reconstruction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 362-370.	2.1	2
23	Structural, electrical and optical properties of $\text{InGaZnO}_4$ and $\text{In}_{29}\text{Sn}_3\text{O}_{48}$ . <i>Journal of Computational Electronics</i> , 2017, 16, 280-286.	1.3	1
24	The effect of boron concentration on the structure and elastic properties of Ru-Ir alloys: first-principles calculations. <i>Materials Research Express</i> , 2018, 5, 046505.	0.8	1
25	Phase composition and microstructure of materials in the Ir–Ru–B system prepared by arc melting and VHP sintering. <i>International Journal of Materials Research</i> , 2017, 108, 378-389.	0.1	0