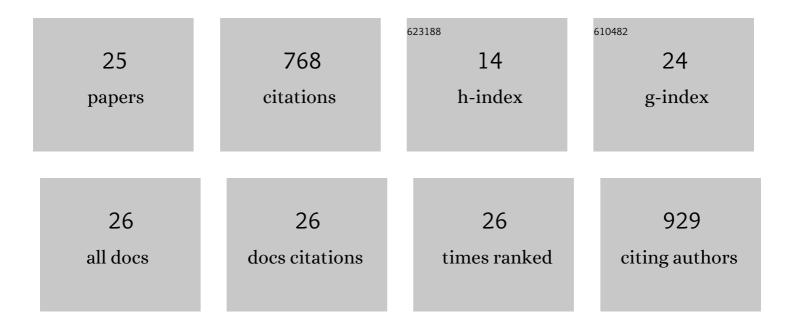
## Zhaobo Zhou

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Rational Unraveling of Alkali Metal Concentration-Dependent Photovoltaic Performance of Halide Perovskites: Octahedron Distortion vs Surface Reconstruction. Journal of Physical Chemistry Letters, 2022, 13, 362-370.	2.1	2
2	POD Nanozyme optimized by charge separation engineering for light/pH activated bacteria catalytic/photodynamic therapy. Signal Transduction and Targeted Therapy, 2022, 7, 86.	7.1	59
3	Van der Waals Magnetic Heterojunctions with Giant Zeroâ€Bias Tunneling Magnetoresistance and Photoâ€Assisted Magnetic Memory. Advanced Functional Materials, 2022, 32, .	7.8	4
4	A general strategy for designing two-dimensional high-efficiency layered thermoelectric materials. Energy and Environmental Science, 2021, 14, 4059-4066.	15.6	24
5	Theoretical progress on direct Z-scheme photocatalysis of two-dimensional heterostructures. Frontiers of Physics, 2021, 16, 1.	2.4	25
6	Ultralong lifetime for fully photogenerated spin-polarized current in two-dimensional ferromagnetic/nonmagnetic semiconductor heterostructures. Physical Review B, 2021, 103, .	1.1	14
7	Synergistic modulation of metal-free photocatalysts by the composition ratio change and heteroatom doping for overall water splitting. Journal of Materials Chemistry A, 2021, 9, 11753-11761.	5.2	14
8	Photocatalytic Ammonia Synthesis: Mechanistic Insights into N <sub>2</sub> Activation at Oxygen Vacancies under Visible Light Excitation. ACS Catalysis, 2021, 11, 14058-14066.	5.5	35
9	Rational Design and Characterization of Direct Z-Scheme Photocatalyst for Overall Water Splitting from Excited State Dynamics Simulations. ACS Catalysis, 2020, 10, 1976-1983.	5.5	120
10	Suppressing photoexcited electron–hole recombination in MoSe <sub>2</sub> /WSe <sub>2</sub> lateral heterostructures <i>via</i> interface-coupled state engineering: a time-domain <i>ab initio</i> study. Journal of Materials Chemistry A, 2020, 8, 20621-20628.	5.2	18
11	Bi2WO6–BiOCl heterostructure with enhanced photocatalytic activity for efficient degradation of oxytetracycline. Scientific Reports, 2020, 10, 18401.	1.6	48
12	Revealing the pHâ€Dependent Photoluminescence Mechanism of Graphitic C <sub>3</sub> N <sub>4</sub> Quantum Dots. Advanced Theory and Simulations, 2019, 2, 1900074.	1.3	13
13	Janus MoSSe/WSeTe heterostructures: a direct Z-scheme photocatalyst for hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 21835-21842.	5.2	119
14	Greatly Enhanced Photoabsorption and Photothermal Conversion of Antimonene Quantum Dots through Spontaneously Partial Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 17987-17993.	4.0	30
15	Aqueous acid-based synthesis of lead-free tin halide perovskites with near-unity photoluminescence quantum efficiency. Chemical Science, 2019, 10, 4573-4579.	3.7	109
16	Photocatalytic performance of few-layer graphitic C <sub>3</sub> N <sub>4</sub> : enhanced by interlayer coupling. Nanoscale, 2019, 11, 4101-4107.	2.8	34
17	The effect of boron concentration on the structure and elastic properties of Ru-Ir alloys: first-principles calculations. Materials Research Express, 2018, 5, 046505.	0.8	1
18	DFT study on structural, electronic, and optical properties of cubic and monoclinic CuO. Journal of Computational Electronics, 2018, 17, 21-28.	1.3	29

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#	Article	IF	CITATIONS
19	The effects of CuO particle size on microstructure evolution of AgCuO compo-sites in plastic deformation process: finite element simulation and experimental study. Materials Research Express, 2018, 5, 046306.	0.8	2
20	Phase stability, electronic structure, elastic properties and hardness of Ru–Ir alloys: first-principles calculations. Materials Research Express, 2017, 4, 076512.	0.8	2
21	Tunable electronic properties and optical properties of novel stanene/ZnO heterostructure: First-principles calculation. Computational Materials Science, 2017, 139, 179-184.	1.4	47
22	Structural, electrical and optical properties of \$\$hbox {InGaZnO}_{4}\$\$ InGaZnO 4 and \$\$hbox {In}_{29}hbox {Sn}_{3}hbox {O}_{48}\$\$. Journal of Computational Electronics, 2017, 16, 280-286.	1.3	1
23	Phase composition and microstructure of materials in the Ir–Ru–B system prepared by arc melting and VHP sintering. International Journal of Materials Research, 2017, 108, 378-389.	0.1	Ο
24	Structural, phase stability, electronic, elastic properties and hardness of IrN 2 and zinc blende IrN: First-principles calculations. Physica B: Condensed Matter, 2016, 503, 141-146.	1.3	2
25	Phase stability, electronic structure and mechanical properties of IrBx (x= 0.9, 1.1): First-principles calculations. Computational Materials Science, 2016, 113, 98-103.	1.4	16