

# Bicheng Zhu

## List of Publications by Year in descending order

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35  
papers

9,160  
citations

196777

29  
h-index

425179

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

7983  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Carbon Nitride C <sub>3</sub> N <sub>3</sub> Additive for Improving Cationic Defects of Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, .	7.3	12
2	A novel Fenton-like catalyst of Ag <sub>3</sub> PO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> : Its performance and mechanism for tetracycline hydrochloride degradation in dark. Applied Surface Science, 2022, 571, 151305.	3.1	28
3	EPR Investigation on Electron Transfer of 2D/3D g-C <sub>3</sub> N <sub>4</sub> /ZnO S-scheme Heterojunction for Enhanced CO <sub>2</sub> Photoreduction. Advanced Sustainable Systems, 2022, 6, 2100264.	2.7	112
4	Optimizing Atomic Hydrogen Desorption of Sulfur-Rich NiS <sub>1+x</sub> Cocatalyst for Boosting Photocatalytic H <sub>2</sub> Evolution. Advanced Materials, 2022, 34, e2108475.	11.1	156
5	ZIF-8 derived ZnO-CsPbBr <sub>3</sub> polyhedrons for efficient triethylamine detection. Sensors and Actuators B: Chemical, 2022, 357, 131366.	4.0	22
6	Novel core-shell Ag@AgSe nanoparticle co-catalyst: In situ surface selenization for efficient photocatalytic H <sub>2</sub> production of TiO <sub>2</sub> . Chinese Journal of Catalysis, 2022, 43, 1074-1083.	6.9	30
7	A Comparative Study of Cobalt Chalcogenides as the Electrode Materials on Lithium-Sulfur Battery Performance. Small Methods, 2022, 6, e2101269.	4.6	14
8	Synergy between Platinum and Gold Nanoparticles in Oxygen Activation for Enhanced Room-Temperature Formaldehyde Oxidation. Advanced Functional Materials, 2022, 32, .	7.8	37
9	H <sub>2</sub> O molecule adsorption on s-triazine-based g-C <sub>3</sub> N <sub>4</sub> . Chinese Journal of Catalysis, 2021, 42, 115-122.	6.9	42
10	Triethylamine gas sensor based on Pt-functionalized hierarchical ZnO microspheres. Sensors and Actuators B: Chemical, 2021, 331, 129425.	4.0	174
11	OD/2D NiS/CdS nanocomposite heterojunction photocatalyst with enhanced photocatalytic H <sub>2</sub> evolution activity. Applied Surface Science, 2021, 554, 149622.	3.1	48
12	Tuning the strength of built-in electric field in 2D/2D g-C <sub>3</sub> N <sub>4</sub> /SnS <sub>2</sub> and g-C <sub>3</sub> N <sub>4</sub> /ZrS <sub>2</sub> S-scheme heterojunctions by nonmetal doping. Journal of Materiomics, 2021, 7, 988-997.	2.8	77
13	g-C <sub>3</sub> N <sub>4</sub> -Based 2D/2D Composite Heterojunction Photocatalyst. Small Structures, 2021, 2, 2100086.	6.9	127
14	Emerging 2D/OD g-C <sub>3</sub> N <sub>4</sub> /SnO <sub>2</sub> S-scheme photocatalyst: New generation architectural structure of heterojunctions toward visible-light-driven NO degradation. Environmental Pollution, 2021, 286, 117510.	3.7	60
15	In-situ preparation of TiO <sub>2</sub> /N-doped graphene hollow sphere photocatalyst with enhanced photocatalytic CO <sub>2</sub> reduction performance. Chinese Journal of Catalysis, 2021, 42, 1648-1658.	6.9	86
16	OD/2D CdS/ZnO composite with n-n heterojunction for efficient detection of triethylamine. Journal of Colloid and Interface Science, 2021, 600, 898-909.	5.0	44
17	Enhanced Photocatalytic H <sub>2</sub> Production Activity of CdS Quantum Dots Using Sn <sup>2+</sup> as Cocatalyst under Visible Light Irradiation. Small, 2020, 16, e2001024.	5.2	124
18	Designing a OD/2D S-scheme Heterojunction over Polymeric Carbon Nitride for Visible-Light Photocatalytic Inactivation of Bacteria. Angewandte Chemie - International Edition, 2020, 59, 5218-5225.	7.2	822

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19	2D/2D/0D TiO <sub>2</sub> /C <sub>3</sub> N <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene composite S-scheme photocatalyst with enhanced CO <sub>2</sub> reduction activity. Applied Catalysis B: Environmental, 2020, 272, 119006.	10.8	604
20	Graphdiyne: A New Photocatalytic CO <sub>2</sub> Reduction Cocatalyst. Advanced Functional Materials, 2019, 29, 1904256.	7.8	207
21	Review on DFT calculation of <i>s</i> -triazine-based carbon nitride. , 2019, 1, 32-56.		193
22	In Situ Grown Monolayer N-doped Graphene on CdS Hollow Spheres with Seamless Contact for Photocatalytic CO <sub>2</sub> Reduction. Advanced Materials, 2019, 31, e1902868.	11.1	515
23	Designing Defective Crystalline Carbon Nitride to Enable Selective CO <sub>2</sub> Photoreduction in the Gas Phase. Advanced Functional Materials, 2019, 29, 1900093.	7.8	254
24	Direct Z-scheme ZnO/CdS hierarchical photocatalyst for enhanced photocatalytic H <sub>2</sub> -production activity. Applied Catalysis B: Environmental, 2019, 243, 19-26.	10.8	653
25	Constructing 2D/2D Fe <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Direct Z-scheme Photocatalysts with Enhanced H <sub>2</sub> Generation Performance. Solar Rrl, 2018, 2, 1800006.	3.1	403
26	First-principle calculation study of tri-s-triazine-based g-C <sub>3</sub> N <sub>4</sub> : A review. Applied Catalysis B: Environmental, 2018, 224, 983-999.	10.8	382
27	Hierarchical Porous O-doped g-C <sub>3</sub> N <sub>4</sub> with Enhanced Photocatalytic CO <sub>2</sub> Reduction Activity. Small, 2017, 13, 1603938.	5.2	1,025
28	First principle investigation of halogen-doped monolayer g-C <sub>3</sub> N <sub>4</sub> photocatalyst. Applied Catalysis B: Environmental, 2017, 207, 27-34.	10.8	422
29	Direct Z-scheme TiO <sub>2</sub> /CdS hierarchical photocatalyst for enhanced photocatalytic H <sub>2</sub> -production activity. Applied Surface Science, 2017, 422, 518-527.	3.1	397
30	Facet effect of Pd cocatalyst on photocatalytic CO <sub>2</sub> reduction over g-C <sub>3</sub> N <sub>4</sub> . Journal of Catalysis, 2017, 349, 208-217.	3.1	332
31	Adsorption investigation of CO <sub>2</sub> on g-C <sub>3</sub> N <sub>4</sub> surface by DFT calculation. Journal of CO <sub>2</sub> Utilization, 2017, 21, 327-335.	3.3	134
32	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO <sub>2</sub> reduction. Journal of Materials Chemistry A, 2017, 5, 3230-3238.	5.2	621
33	Fabrication and photocatalytic activity enhanced mechanism of direct Z-scheme g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>2</sub> WO <sub>4</sub> photocatalyst. Applied Surface Science, 2017, 391, 175-183.	3.1	601
34	Enhanced photocatalytic H <sub>2</sub> production on CdS nanorod using cobalt-phosphate as oxidation cocatalyst. Applied Surface Science, 2016, 389, 775-782.	3.1	212
35	Shape-dependent photocatalytic hydrogen evolution activity over a Pt nanoparticle coupled g-C <sub>3</sub> N <sub>4</sub> photocatalyst. Physical Chemistry Chemical Physics, 2016, 18, 19457-19463.	1.3	190