

# Bicheng Zhu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6677844/publications.pdf>

Version: 2024-02-01

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	Hierarchical Porous $\text{g-C}_3\text{N}_4$ with Enhanced Photocatalytic $\text{CO}_2$ Reduction Activity. Small, 2017, 13, 1603938.	5.2	1,025
2	Designing a 0D/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
3	Direct Z-scheme ZnO/CdS hierarchical photocatalyst for enhanced photocatalytic $\text{H}_2$ -production activity. Applied Catalysis B: Environmental, 2019, 243, 19-26.	10.8	653
4	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic $\text{CO}_2$ reduction. Journal of Materials Chemistry A, 2017, 5, 3230-3238.	5.2	621
5	2D/2D/0D $\text{TiO}_2/\text{C}_3\text{N}_4/\text{Ti}_3\text{C}_2$ MXene composite S-scheme photocatalyst with enhanced $\text{CO}_2$ reduction activity. Applied Catalysis B: Environmental, 2020, 272, 119006.	10.8	604
6	Fabrication and photocatalytic activity enhanced mechanism of direct Z-scheme $\text{g-C}_3\text{N}_4/\text{Ag}_2\text{WO}_4$ photocatalyst. Applied Surface Science, 2017, 391, 175-183.	3.1	601
7	In Situ Grown Monolayer N-doped Graphene on CdS Hollow Spheres with Seamless Contact for Photocatalytic $\text{CO}_2$ Reduction. Advanced Materials, 2019, 31, e1902868.	11.1	515
8	First principle investigation of halogen-doped monolayer $\text{g-C}_3\text{N}_4$ photocatalyst. Applied Catalysis B: Environmental, 2017, 207, 27-34.	10.8	422
9	Constructing 2D/2D $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ Direct S-scheme Photocatalysts with Enhanced $\text{H}_2$ Generation Performance. Solar Rrl, 2018, 2, 1800006.	3.1	403
10	Direct Z-scheme $\text{TiO}_2/\text{CdS}$ hierarchical photocatalyst for enhanced photocatalytic $\text{H}_2$ -production activity. Applied Surface Science, 2017, 422, 518-527.	3.1	397
11	First-principle calculation study of tri-s-triazine-based $\text{g-C}_3\text{N}_4$ : A review. Applied Catalysis B: Environmental, 2018, 224, 983-999.	10.8	382
12	Facet effect of Pd cocatalyst on photocatalytic $\text{CO}_2$ reduction over $\text{g-C}_3\text{N}_4$ . Journal of Catalysis, 2017, 349, 208-217.	3.1	332
13	Designing Defective Crystalline Carbon Nitride to Enable Selective $\text{CO}_2$ Photoreduction in the Gas Phase. Advanced Functional Materials, 2019, 29, 1900093.	7.8	254
14	Enhanced photocatalytic $\text{H}_2$ production on CdS nanorod using cobalt-phosphate as oxidation cocatalyst. Applied Surface Science, 2016, 389, 775-782.	3.1	212
15	Graphdiyne: A New Photocatalytic $\text{CO}_2$ Reduction Cocatalyst. Advanced Functional Materials, 2019, 29, 1904256.	7.8	207
16	Review on DFT calculation of s-triazine-based carbon nitride. , 2019, 1, 32-56.		193
17	Shape-dependent photocatalytic hydrogen evolution activity over a Pt nanoparticle coupled $\text{g-C}_3\text{N}_4$ photocatalyst. Physical Chemistry Chemical Physics, 2016, 18, 19457-19463.	1.3	190
18	Triethylamine gas sensor based on Pt-functionalized hierarchical ZnO microspheres. Sensors and Actuators B: Chemical, 2021, 331, 129425.	4.0	174

#	ARTICLE	IF	CITATIONS
19	Optimizing Atomic Hydrogen Desorption of Sulfur-Rich NiS <sub>1+x</sub> Cocatalyst for Boosting Photocatalytic H <sub>2</sub> Evolution. <i>Advanced Materials</i> , 2022, 34, e2108475.	11.1	156
20	Adsorption investigation of CO <sub>2</sub> on g-C <sub>3</sub> N <sub>4</sub> surface by DFT calculation. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 21, 327-335.	3.3	134
21	g-C <sub>3</sub> N <sub>4</sub> -Based 2D/2D Composite Heterojunction Photocatalyst. <i>Small Structures</i> , 2021, 2, 2100086.	6.9	127
22	Enhanced Photocatalytic H <sub>2</sub> Production Activity of CdS Quantum Dots Using Sn <sup>2+</sup> as Cocatalyst under Visible Light Irradiation. <i>Small</i> , 2020, 16, e2001024.	5.2	124
23	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. <i>Advanced Sustainable Systems</i> , 2022, 6, 2100264.	2.7	112
24	In-situ preparation of TiO <sub>2</sub> /N-doped graphene hollow sphere photocatalyst with enhanced photocatalytic CO <sub>2</sub> reduction performance. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1648-1658.	6.9	86
25	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. <i>Journal of Materiomics</i> , 2021, 7, 988-997.	2.8	77
26	Emerging 2D/0D 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. <i>Environmental Pollution</i> , 2021, 286, 117510.	3.7	60
27	0D/2D NiS/CdS nanocomposite heterojunction photocatalyst with enhanced photocatalytic H <sub>2</sub> evolution activity. <i>Applied Surface Science</i> , 2021, 554, 149622.	3.1	48
28	0D/2D CdS/ZnO composite with n-n heterojunction for efficient detection of triethylamine. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 898-909.	5.0	44
29	H <sub>2</sub> O molecule adsorption on s-triazine-based g-C <sub>3</sub> N <sub>4</sub> . <i>Chinese Journal of Catalysis</i> , 2021, 42, 115-122.	6.9	42
30	Synergy between Platinum and Gold Nanoparticles in Oxygen Activation for Enhanced Room-Temperature Formaldehyde Oxidation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37
31	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> . <i>Chinese Journal of Catalysis</i> , 2022, 43, 1074-1083.	6.9	30
32	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. <i>Applied Surface Science</i> , 2022, 571, 151305.	3.1	28
33	ZIF-8 derived ZnO-CsPbBr <sub>3</sub> polyhedrons for efficient triethylamine detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131366.	4.0	22
34	A Comparative Study of Cobalt Chalcogenides as the Electrode Materials on Lithium-Sulfur Battery Performance. <i>Small Methods</i> , 2022, 6, e2101269.	4.6	14
35	New Carbon Nitride C <sub>3</sub> N <sub>3</sub> Additive for Improving Cationic Defects of Perovskite Solar Cells. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	12