

# Zirui Lou

## List of Publications by Year in descending order

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18  
papers

789  
citations

687363

13  
h-index

888059

17  
g-index

18  
all docs

18  
docs citations

18  
times ranked

1380  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible organic photodetectors and their use in wearable systems. , 2022, 125, 103145.		13
2	Carbon Sphere Template Derived Hollow Nanostructure for Photocatalysis and Gas Sensing. Nanomaterials, 2020, 10, 378.	4.1	13
3	Enhanced photoelectrochemical water-splitting performance of SrNbO <sub>2</sub> N photoanodes using flux-assisted synthesis method and surface defect management. Sustainable Energy and Fuels, 2020, 4, 1674-1680.	4.9	10
4	Fe <sub>3</sub> Si assisted Co <sub>3</sub> O <sub>4</sub> nanorods: A case study of photothermal catalytic CO oxidation under ambient solar irradiation. Nano Energy, 2019, 62, 653-659.	16.0	36
5	Hollowsphere Nanoheterojunction of g-C <sub>3</sub> N <sub>4</sub> @TiO <sub>2</sub> with High Visible Light Photocatalytic Property. Langmuir, 2019, 35, 779-786.	3.5	70
6	Surface modification and stoichiometry control of Cu <sub>2</sub> O/SnO <sub>2</sub> heterojunction solar cell by an ultrathin MgO tunneling layer. Journal of Alloys and Compounds, 2019, 779, 387-393.	5.5	20
7	Improving the photovoltaic performance of the all-solid-state TiO <sub>2</sub> NR/CuInS <sub>2</sub> solar cell by hydrogen plasma treatment. Nanotechnology, 2018, 29, 275402.	2.6	4
8	Optimization of photoelectrochemical performance in Pt-modified p-Cu <sub>2</sub> O/n-Cu <sub>2</sub> O nanocomposite. Nanotechnology, 2018, 29, 145402.	2.6	7
9	A two-step synthesis of nanosheet-covered fibers based on $\text{Fe}_2\text{O}_3/\text{NiO}$ composites towards enhanced acetone sensing. Scientific Reports, 2018, 8, 1705.	3.3	53
10	Interfacial study of Cu <sub>2</sub> O/Ga <sub>2</sub> O <sub>3</sub> /AZO/TiO <sub>2</sub> photocathode for water splitting fabricated by pulsed laser deposition. Catalysis Science and Technology, 2017, 7, 1602-1610.	4.1	26
11	The crystalline/amorphous contact in Cu <sub>2</sub> O/Ta <sub>2</sub> O <sub>5</sub> heterostructures: increasing its sunlight-driven overall water splitting efficiency. Journal of Materials Chemistry A, 2017, 5, 2732-2738.	10.3	41
12	Effective Formation of Oxygen Vacancies in Black TiO <sub>2</sub> Nanostructures with Efficient Solar-Driven Water Splitting. ACS Sustainable Chemistry and Engineering, 2017, 5, 8982-8987.	6.7	131
13	Fabrication of Fe <sub>2</sub> TiO <sub>5</sub> /TiO <sub>2</sub> nanoheterostructures with enhanced visible-light photocatalytic activity. RSC Advances, 2016, 6, 45343-45348.	3.6	38
14	Ultrahigh efficient water oxidation under visible light: Using Fe dopants to integrate nanostructure and cocatalyst in LaTiO <sub>2</sub> N system. Nano Energy, 2016, 19, 437-445.	16.0	17
15	Preparation of ZnFe <sub>2</sub> O <sub>4</sub> nanostructures and highly efficient visible-light-driven hydrogen generation with the assistance of nanoheterostructures. Journal of Materials Chemistry A, 2015, 3, 8353-8360.	10.3	135
16	Enhancing photocatalytic activity for visible-light-driven H <sub>2</sub> generation with the surface reconstructed LaTiO <sub>2</sub> N nanostructures. Nano Energy, 2015, 12, 775-784.	16.0	62
17	A Full Compositional Range for a (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) Nanostructure: High Efficiency for Overall Water Splitting and Optical Properties. Small, 2015, 11, 871-876.	10.0	77
18	A new type of hybrid nanostructure: complete photo-generated carrier separation and ultrahigh photocatalytic activity. Journal of Materials Chemistry A, 2014, 2, 14245-14250.	10.3	36