

Zirui Lou

List of Publications by Year in descending order

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Version: 2024-02-01

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