

# Yequan Xiao

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

1,751  
citations

567281

15  
h-index

839539

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

2565  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface engineering of Ta <sub>3</sub> N <sub>5</sub> thin film photoanode for highly efficient photoelectrochemical water splitting. <i>Nature Communications</i> , 2022, 13, 729.	12.8	99
2	Tuning the Selectivity of Liquid Products of CO <sub>2</sub> RR by Cu–Ag Alloying. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11567-11574.	8.0	44
3	Strategies To Construct <i>n</i> -Type Si-Based Heterojunctions for Photoelectrochemical Water Oxidation. , 2022, 4, 779-804.		10
4	Direct synthesis of BaTaO <sub>2</sub> N nanoparticle film on a conductive substrate for photoelectrochemical water splitting. <i>Journal of Catalysis</i> , 2022, 411, 109-115.	6.2	5
5	A self-healing catalyst for electrocatalytic and photoelectrochemical oxygen evolution in highly alkaline conditions. <i>Nature Communications</i> , 2021, 12, 5980.	12.8	88
6	All-Inorganic Perovskite Solar Cells: Energetics, Key Challenges, and Strategies toward Commercialization. <i>ACS Energy Letters</i> , 2020, 5, 290-320.	17.4	183
7	Band structure engineering and defect control of Ta <sub>3</sub> N <sub>5</sub> for efficient photoelectrochemical water oxidation. <i>Nature Catalysis</i> , 2020, 3, 932-940.	34.4	211
8	Earth-abundant Cu-based metal oxide photocathodes for photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 3269-3306.	30.8	141
9	Identifying Performance-Limiting Deep Traps in Ta <sub>3</sub> N <sub>5</sub> for Solar Water Splitting. <i>ACS Catalysis</i> , 2020, 10, 10316-10324.	11.2	68
10	Strongly Enhanced Photoluminescence and Photoconductivity in Erbium-Doped MAPbBr <sub>3</sub> Single Crystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8992-8998.	3.1	26
11	Fe-Based Electrocatalysts for Oxygen Evolution Reaction: Progress and Perspectives. <i>ACS Catalysis</i> , 2020, 10, 4019-4047.	11.2	379
12	Tailored NiFe Catalyst on Silicon Photoanode for Efficient Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2844-2850.	3.1	19
13	Large-Area Organic-Free Perovskite Solar Cells with High Thermal Stability. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6382-6388.	4.6	46
14	Highly Efficient NiFe Nanoparticle Decorated Si Photoanode for Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , 2019, 31, 171-178.	6.7	34
15	Efficient photoelectrochemical water oxidation enabled by an amorphous metal oxide-catalyzed graphene/silicon heterojunction photoanode. <i>Sustainable Energy and Fuels</i> , 2018, 2, 663-672.	4.9	25
16	Engineering graphene and TMDs based van der Waals heterostructures for photovoltaic and photoelectrochemical solar energy conversion. <i>Chemical Society Reviews</i> , 2018, 47, 4981-5037.	38.1	344
17	The effect of radio frequency power on the structural and optical properties of a-C:H films prepared by PECVD. <i>Journal of Materials Research</i> , 2017, 32, 1231-1238.	2.6	8
18	Full-Inorganic Thin Film Solar Cell and Photodetector Based on Graphene–Antimony Sulfide Heterostructure. <i>Solar Rrl</i> , 2017, 1, 1700135.	5.8	20

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19	Fullâ€inorganic Thin Film Solar Cell and Photodetector Based on â€œGrapheneâ€onâ€Antimony Sulfideâ€ Heterostructure (Solar RRL 12âˆ•2017). Solar Rrl, 2017, 1, 1770146.	5.8	1