

# Weilai Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

2,415  
citations

759233

12  
h-index

839539

18  
g-index

22  
all docs

22  
docs citations

22  
times ranked

3310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> for selective CO <sub>2</sub> reduction to CH <sub>3</sub> OH via facile coupling of ZnO: a direct Z-scheme mechanism. Journal of Materials Chemistry A, 2015, 3, 19936-19947.	10.3	812
2	Direct Z-scheme g-C <sub>3</sub> N <sub>4</sub> /WO <sub>3</sub> photocatalyst with atomically defined junction for H <sub>2</sub> production. Applied Catalysis B: Environmental, 2017, 219, 693-704.	20.2	617
3	New insight into the enhanced photocatalytic activity of N-, C- and S-doped ZnO photocatalysts. Applied Catalysis B: Environmental, 2016, 181, 220-227.	20.2	476
4	Biomimetic Z-scheme photocatalyst with a tandem solid-state electron flow catalyzing H <sub>2</sub> evolution. Journal of Materials Chemistry A, 2018, 6, 15668-15674.	10.3	155
5	Illustration of high-active Ag <sub>2</sub> CrO <sub>4</sub> photocatalyst from the first-principle calculation of electronic structures and carrier effective mass. Applied Surface Science, 2015, 358, 457-462.	6.1	68
6	Vectorial doping-promoting charge transfer in anatase TiO <sub>2</sub> {001} surface. Applied Surface Science, 2014, 319, 167-172.	6.1	55
7	Mixed Metal Oxide Electrodes and the Chlorine Evolution Reaction. Journal of Physical Chemistry C, 2021, 125, 20745-20761.	3.1	36
8	Isotopically Selective Quantification by UPLC-MS of Aqueous Ammonia at Submicromolar Concentrations Using Dansyl Chloride Derivatization. ACS Energy Letters, 2020, 5, 1532-1536.	17.4	34
9	Investigations of the stability of etched or platinized p-InP(100) photocathodes for solar-driven hydrogen evolution in acidic or alkaline aqueous electrolytes. Energy and Environmental Science, 2021, 14, 6007-6020.	30.8	33
10	Phase evolution and crystal growth of VO <sub>2</sub> nanostructures under hydrothermal reactions. RSC Advances, 2016, 6, 7113-7120.	3.6	31
11	Optical and electrochemical effects of H <sub>2</sub> and O <sub>2</sub> bubbles at upward-facing Si photoelectrodes. Energy and Environmental Science, 2021, 14, 414-423.	30.8	26
12	Atomic force microscopy: Emerging illuminated and <i>operando</i> techniques for solar fuel research. Journal of Chemical Physics, 2020, 153, 020902.	3.0	25
13	Cathodic NH <sub>4</sub> <sup>+</sup> leaching of nitrogen impurities in CoMo thin-film electrodes in aqueous acidic solutions. Sustainable Energy and Fuels, 2020, 4, 5080-5087.	4.9	14
14	Investigations of the stability of GaAs for photoelectrochemical H <sub>2</sub> evolution in acidic or alkaline aqueous electrolytes. Journal of Materials Chemistry A, 2021, 9, 22958-22972.	10.3	9
15	Catalytic open-circuit passivation by thin metal oxide films of p-Si anodes in aqueous alkaline electrolytes. Energy and Environmental Science, 2022, 15, 334-345.	30.8	8
16	Origin of the Electrical Barrier in Electrolessly Deposited Platinum Nanoparticles on p-Si Surfaces. Journal of Physical Chemistry C, 2021, 125, 17660-17670.	3.1	6
17	Understanding the Stability of Etched or Platinized p-GaN Photocathodes for Solar-Driven H <sub>2</sub> Evolution. ACS Applied Materials & Interfaces, 2021, 13, 57350-57361.	8.0	6
18	Failure Modes of Platinized pn <sup>+</sup> -GaN Photocathodes for Solar-Driven H <sub>2</sub> Evolution. ACS Applied Materials & Interfaces, 2022, 14, 26622-26630.	8.0	4

#	ARTICLE	IF	CITATIONS
19	Probing Photoelectrochemical Performance and Corrosion at the Nanoscale with Electrochemical Scanning Probe Techniques. ECS Meeting Abstracts, 2018, , .	0.0	0
20	Understanding the Surface Corrosion Chemistry Towards Sustainable Semiconductor Photoelectrochemistry. ECS Meeting Abstracts, 2018, , .	0.0	0
21	Evaluating the Intrinsic Material Stability at the Semiconductor/Electrolyte Interface for Solar Fuel Production. ECS Meeting Abstracts, 2019, , .	0.0	0
22	Revealing the Surface Corrosion Chemistry and Kinetic Stabilization at Photoelectrochemical Interfaces for Solar-Driven Water-Splitting. ECS Meeting Abstracts, 2020, MA2020-01, 1773-1773.	0.0	0