

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	Catalytic open-circuit passivation by thin metal oxide films of p-Si anodes in aqueous alkaline electrolytes. <i>Energy and Environmental Science</i> , 2022, 15, 334-345.	30.8	8
2	Failure Modes of Platinized p-n-GaInP Photocathodes for Solar-Driven H ₂ Evolution. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26622-26630.	8.0	4
3	Optical and electrochemical effects of H ₂ and O ₂ bubbles at upward-facing Si photoelectrodes. <i>Energy and Environmental Science</i> , 2021, 14, 414-423.	30.8	26
4	Origin of the Electrical Barrier in Electrolessly Deposited Platinum Nanoparticles on p-Si Surfaces. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17660-17670.	3.1	6
5	Mixed Metal Oxide Electrodes and the Chlorine Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20745-20761.	3.1	36
6	Investigations of the stability of etched or platinized p-InP(100) photocathodes for solar-driven hydrogen evolution in acidic or alkaline aqueous electrolytes. <i>Energy and Environmental Science</i> , 2021, 14, 6007-6020.	30.8	33
7	Investigations of the stability of GaAs for photoelectrochemical H ₂ evolution in acidic or alkaline aqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22958-22972.	10.3	9
8	Understanding the Stability of Etched or Platinized p-GaInP Photocathodes for Solar-Driven H ₂ Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57350-57361.	8.0	6
9	Atomic force microscopy: Emerging illuminated and <i>operando</i> techniques for solar fuel research. <i>Journal of Chemical Physics</i> , 2020, 153, 020902.	3.0	25
10	Cathodic NH ₄ ⁺ leaching of nitrogen impurities in CoMo thin-film electrodes in aqueous acidic solutions. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5080-5087.	4.9	14
11	Isotopically Selective Quantification by UPLC-MS of Aqueous Ammonia at Submicromolar Concentrations Using Dansyl Chloride Derivatization. <i>ACS Energy Letters</i> , 2020, 5, 1532-1536.	17.4	34
12	Revealing the Surface Corrosion Chemistry and Kinetic Stabilization at Photoelectrochemical Interfaces for Solar-Driven Water-Splitting. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1773-1773.	0.0	0
13	Evaluating the Intrinsic Material Stability at the Semiconductor/Electrolyte Interface for Solar Fuel Production. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
14	Biomimetic Z-scheme photocatalyst with a tandem solid-state electron flow catalyzing H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15668-15674.	10.3	155
15	Probing Photoelectrochemical Performance and Corrosion at the Nanoscale with Electrochemical Scanning Probe Techniques. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
16	Understanding the Surface Corrosion Chemistry Towards Sustainable Semiconductor Photoelectrochemistry. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
17	Direct Z-scheme g-C ₃ N ₄ /WO ₃ photocatalyst with atomically defined junction for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 693-704.	20.2	617
18	Phase evolution and crystal growth of VO ₂ nanostructures under hydrothermal reactions. <i>RSC Advances</i> , 2016, 6, 7113-7120.	3.6	31

#	ARTICLE	IF	CITATIONS
19	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
20	Illustration of high-active Ag ₂ CrO ₄ photocatalyst from the first-principle calculation of electronic structures and carrier effective mass. Applied Surface Science, 2015, 358, 457-462.	6.1	68
21	Enhanced photocatalytic activity of g-C ₃ N ₄ for selective CO ₂ reduction to CH ₃ OH via facile coupling of ZnO: a direct Z-scheme mechanism. Journal of Materials Chemistry A, 2015, 3, 19936-19947.	10.3	812
22	Vectorial doping-promoting charge transfer in anatase TiO ₂ {001} surface. Applied Surface Science, 2014, 319, 167-172.	6.1	55