

# Junhui Liang

## List of Publications by Year in descending order

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35  
papers

969  
citations

394421

19  
h-index

434195

31  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1605  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress and Development in Inorganic Halide Perovskite Quantum Dots for Photoelectrochemical Applications. <i>Small</i> , 2020, 16, e1903398.	10.0	120
2	Highly wettable and metallic NiFe-phosphate/phosphide catalyst synthesized by plasma for highly efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7509-7516.	10.3	112
3	2D Heterostructure of Amorphous CoFeB Coating Black Phosphorus Nanosheets with Optimal Oxygen Intermediate Absorption for Improved Electrocatalytic Water Oxidation. <i>ACS Nano</i> , 2021, 15, 12418-12428.	14.6	67
4	Hydrogenated ZnIn <sub>2</sub> S <sub>4</sub> microspheres: boosting photocatalytic hydrogen evolution by sulfur vacancy engineering and mechanism insight. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25484-25494.	2.8	59
5	Enhanced light absorption of thin perovskite solar cells using textured substrates. <i>Solar Energy Materials and Solar Cells</i> , 2017, 168, 214-220.	6.2	50
6	A thin-film silicon based photocathode with a hydrogen doped TiO <sub>2</sub> protection layer for solar hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16841-16848.	10.3	38
7	Enhanced photocatalytic activity of hydrogenated BiVO <sub>4</sub> with rich surface-oxygen-vacancies for remarkable degradation of tetracycline hydrochloride. <i>Journal of Alloys and Compounds</i> , 2019, 783, 10-18.	5.5	37
8	Surface defect-rich g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> Z-scheme heterojunction for efficient photocatalytic antibiotic removal: rational regulation of free radicals and photocatalytic mechanism. <i>Catalysis Science and Technology</i> , 2020, 10, 8295-8304.	4.1	37
9	Exploring the mechanism of a pure and amorphous black-blue TiO <sub>2</sub> :H thin film as a photoanode in water splitting. <i>Nano Energy</i> , 2017, 42, 151-156.	16.0	36
10	An artificially constructed direct Z-scheme heterojunction: WO <sub>3</sub> nanoparticle decorated ZnIn <sub>2</sub> S <sub>4</sub> for efficient photocatalytic hydrogen production. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1681-1692.	4.9	34
11	Compound Homojunction:Heterojunction Reduces Bulk and Interface Recombination in ZnO Photoanodes for Water Splitting. <i>Small</i> , 2017, 13, 1603527.	10.0	29
12	Ni-Doped MoS <sub>2</sub> as an Efficient Catalyst for Electrochemical Hydrogen Evolution in Alkine Media. <i>ChemistrySelect</i> , 2018, 3, 9493-9498.	1.5	25
13	<i>In situ</i> growth of a P-type CuSCN/Cu <sub>2</sub> O heterojunction to enhance charge transport and suppress charge recombination. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6872-6878.	5.5	25
14	Rationally designed ternary CdSe/WS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrid photocatalysts with significantly enhanced hydrogen evolution activity and mechanism insight. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30344-30354.	7.1	24
15	Hydrogenated TiO <sub>2</sub> Thin Film for Accelerating Electron Transport in Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Science</i> , 2017, 4, 1700008.	11.2	22
16	Facile synthesis of Er-doped BiFeO <sub>3</sub> nanoparticles for enhanced visible light photocatalytic degradation of tetracycline hydrochloride. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 535-546.	2.4	22
17	Ti/Co-S catalyst covered amorphous Si-based photocathodes with high photovoltage for the HER in non-acid environments. <i>Journal of Materials Chemistry A</i> , 2018, 6, 811-816.	10.3	21
18	Activity enhancement <i>via</i> borate incorporation into a NiFe (oxy)hydroxide catalyst for electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16959-16964.	10.3	21

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19	Molybdenum-supported amorphous MoS <sub>3</sub> catalyst for efficient hydrogen evolution in solar-water-splitting devices. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14204-14212.	10.3	20
20	Dual sites modulating MoO <sub>2</sub> nanospheres for synergistically enhanced electrocatalysis of water oxidation. <i>Chemical Engineering Journal</i> , 2022, 443, 136339.	12.7	18
21	Tailoring morphology and thickness of perovskite layer for flexible perovskite solar cells on plastics: The role of CH <sub>3</sub> NH <sub>3</sub> I concentration. <i>Solar Energy</i> , 2017, 147, 222-227.	6.1	17
22	In situ growth of Z-scheme CuS/CuSCN heterojunction to passivate surface defects and enhance charge transport. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 407-414.	9.4	16
23	A catalyst-free amorphous silicon-based tandem thin film photocathode with high photovoltage for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15583-15590.	10.3	14
24	Photoassisted Electrodeposition of Cobalt-Phosphate Cocatalyst on BiFeO <sub>3</sub> Thin Film Photoanode for Highly Efficient Photoelectrochemical Performances of Water Oxidation. <i>Journal of the Electrochemical Society</i> , 2019, 166, D308-D314.	2.9	14
25	Enhancement in electrical performance of thin-film silicon solar cells based on a micro- and nano-textured zinc oxide electrodes. <i>Applied Energy</i> , 2014, 135, 158-164.	10.1	13
26	Electron transport layer driven to improve the open-circuit voltage of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> planar perovskite solar cells. <i>Science China Materials</i> , 2018, 61, 65-72.	6.3	12
27	Periodically textured metal electrodes: large-area fabrication, characterization, simulation, and application as efficient back-reflective scattering contact-electrodes for thin-film solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13259-13269.	10.3	10
28	Boosting photocatalytic hydrogen evolution over 2D/0D graphene/H <sub>2</sub> In <sub>2</sub> O <sub>3</sub> nanohybrids with regulated oxygen vacancies. <i>Renewable Energy</i> , 2022, 194, 868-874.	8.9	10
29	Controllable synthesis of hydrogen bubbles via aeration method for efficient antioxidant process. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 833-840.	3.1	9
30	Tailoring of textured ZnO: Al film via hydrogen. <i>Vacuum</i> , 2014, 107, 6-9.	3.5	8
31	Broadband light trapping based on periodically textured ZnO thin films. <i>Nanoscale</i> , 2015, 7, 9816-9824.	5.6	8
32	Perovskite/silicon-based heterojunction tandem solar cells with 14.8% conversion efficiency via adopting ultrathin Au contact. <i>Journal of Semiconductors</i> , 2017, 38, 014003.	3.7	8
33	Conductive layer protected and oxide catalyst-coated thin-film silicon solar cell as an efficient photoanode. <i>Catalysis Science and Technology</i> , 2017, 7, 5608-5613.	4.1	7
34	UV micro-imprint patterning for tunable light trapping in p-i-n thin-film silicon solar cells. <i>Applied Surface Science</i> , 2015, 355, 14-18.	6.1	5
35	Trade-offs of the opto-electrical properties of a-Si:H solar cells based on MOCVD BZO films. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 459-464.	2.8	1