Junhui Liang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2638090/publications.pdf

Version: 2024-02-01

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	Dual sites modulating MoO2 nanospheres for synergistically enhanced electrocatalysis of water oxidation. Chemical Engineering Journal, 2022, 443, 136339.	12.7	18
2	Boosting photocatalytic hydrogen evolution over 2D/0D graphene/Hâ€“In2O3 nanohybrids with regulated oxygen vacancies. Renewable Energy, 2022, 194, 868-874.	8.9	10
3	In situ growth of Z-scheme CuS/CuSCN heterojunction to passivate surface defects and enhance charge transport. Journal of Colloid and Interface Science, 2021, 590, 407-414.	9.4	16
4	2D Heterostructure of Amorphous CoFeB Coating Black Phosphorus Nanosheets with Optimal Oxygen Intermediate Absorption for Improved Electrocatalytic Water Oxidation. ACS Nano, 2021, 15, 12418-12428.	14.6	67
5	Rationally designed ternary CdSe/WS2/g-C3N4 hybrid photocatalysts with significantly enhanced hydrogen evolution activity and mechanism insight. International Journal of Hydrogen Energy, 2021, 46, 30344-30354.	7.1	24
6	Controllable synthesis of hydrogen bubbles via aeration method for efficient antioxidant process. Applied Nanoscience (Switzerland), 2021, 11, 833-840.	3.1	9
7	Recent Progress and Development in Inorganic Halide Perovskite Quantum Dots for Photoelectrochemical Applications. Small, 2020, 16, e1903398.	10.0	120
8	An artificially constructed direct Z-scheme heterojunction: WO₃ nanoparticle decorated ZnIn₂S₄ for efficient photocatalytic hydrogen production. Sustainable Energy and Fuels, 2020, 4, 1681-1692.	4.9	34
9	Surface defect-rich g-C₃N₄/TiO₂ Z-scheme heterojunction for efficient photocatalytic antibiotic removal: rational regulation of free radicals and photocatalytic mechanism. Catalysis Science and Technology, 2020, 10, 8295-8304.	4.1	37
10	In situ growth of a P-type CuSCN/Cu₂O heterojunction to enhance charge transport and suppress charge recombination. Journal of Materials Chemistry C, 2019, 7, 6872-6878.	5.5	25
11	Photoassisted Electrodeposition of Cobalt-Phosphate Cocatalyst on BiFeO₃ Thin Film Photoanode for Highly Efficient Photoelectrochemical Performances of Water Oxidation. Journal of the Electrochemical Society, 2019, 166, D308-D314.	2.9	14
12	Facile synthesis of Er-doped BiFeO3 nanoparticles for enhanced visible light photocatalytic degradation of tetracycline hydrochloride. Journal of Sol-Gel Science and Technology, 2019, 90, 535-546.	2.4	22
13	Hydrogenated ZnIn₂S₄ microspheres: boosting photocatalytic hydrogen evolution by sulfur vacancy engineering and mechanism insight. Physical Chemistry Chemical Physics, 2019, 21, 25484-25494.	2.8	59
14	Enhanced photocatalytic activity of hydrogenated BiVO4 with rich surface-oxygen-vacancies for remarkable degradation of tetracycline hydrochloride. Journal of Alloys and Compounds, 2019, 783, 10-18.	5.5	37
15	Ti/Co-S catalyst covered amorphous Si-based photocathodes with high photovoltage for the HER in non-acid environments. Journal of Materials Chemistry A, 2018, 6, 811-816.	10.3	21
16	Highly wettable and metallic NiFe-phosphate/phosphide catalyst synthesized by plasma for highly efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 7509-7516.	10.3	112
17	Electron transport layer driven to improve the open-circuit voltage of CH3NH3PbI3 planar perovskite solar cells. Science China Materials, 2018, 61, 65-72.	6.3	12
18	Niâ€Doped MoS₂ as an Efficient Catalyst for Electrochemical Hydrogen Evolution in Alkine Media. ChemistrySelect, 2018, 3, 9493-9498.	1.5	25

#	Article	IF	Citations
19	Activity enhancement via borate incorporation into a NiFe (oxy)hydroxide catalyst for electrocatalytic oxygen evolution. Journal of Materials Chemistry A, 2018, 6, 16959-16964.	10.3	21
20	Compound Homojunction:Heterojunction Reduces Bulk and Interface Recombination in ZnO Photoanodes for Water Splitting. Small, 2017, 13, 1603527.	10.0	29
21	Enhanced light absorption of thin perovskite solar cells using textured substrates. Solar Energy Materials and Solar Cells, 2017, 168, 214-220.	6.2	50
22	Hydrogenated TiO₂ Thin Film for Accelerating Electron Transport in Highly Efficient Planar Perovskite Solar Cells. Advanced Science, 2017, 4, 1700008.	11.2	22
23	Tailoring morphology and thickness of perovskite layer for flexible perovskite solar cells on plastics: The role of CH 3 NH 3 I concentration. Solar Energy, 2017, 147, 222-227.	6.1	17
24	Perovskite/silicon-based heterojunction tandem solar cells with 14.8% conversion efficiency via adopting ultrathin Au contact. Journal of Semiconductors, 2017, 38, 014003.	3.7	8
25	Exploring the mechanism of a pure and amorphous black-blue TiO2:H thin film as a photoanode in water splitting. Nano Energy, 2017, 42, 151-156.	16.0	36
26	Conductive layer protected and oxide catalyst-coated thin-film silicon solar cell as an efficient photoanode. Catalysis Science and Technology, 2017, 7, 5608-5613.	4.1	7
27	A thin-film silicon based photocathode with a hydrogen doped TiO₂ protection layer for solar hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 16841-16848.	10.3	38
28	Molybdenum-supported amorphous MoS₃ catalyst for efficient hydrogen evolution in solar-water-splitting devices. Journal of Materials Chemistry A, 2016, 4, 14204-14212.	10.3	20
29	UV micro-imprint patterning for tunable light trapping in p-i-n thin-film silicon solar cells. Applied Surface Science, 2015, 355, 14-18.	6.1	5
30	A catalyst-free amorphous silicon-based tandem thin film photocathode with high photovoltage for solar water splitting. Journal of Materials Chemistry A, 2015, 3, 15583-15590.	10.3	14
31	Broadband light trapping based on periodically textured ZnO thin films. Nanoscale, 2015, 7, 9816-9824.	5.6	8
32	Trade-offs of the opto-electrical properties of a-Si:H solar cells based on MOCVD BZO films. Physical Chemistry Chemical Physics, 2015, 17, 459-464.	2.8	1
33	Tailoring of textured ZnO: Al film via hydrogen. Vacuum, 2014, 107, 6-9.	3.5	8
34	Periodically textured metal electrodes: large-area fabrication, characterization, simulation, and application as efficient back-reflective scattering contact-electrodes for thin-film solar cells. Journal of Materials Chemistry A, 2014, 2, 13259-13269.	10.3	10
35	Enhancement in electrical performance of thin-film silicon solar cells based on a micro- and nano-textured zinc oxide electrodes. Applied Energy, 2014, 135, 158-164.	10.1	13