Yang Liu

List of Publications by Year in descending order

51 papers	5,968 citations	185998 28 h-index	197535 49 g-index
51 all docs	51 docs citations	51 times ranked	8795 citing authors

#	Article	IF	Citations
1	Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway. Science, 2015, 347, 970-974.	6.0	3,803
2	Controlling Surface Oxides in Si/C Nanocomposite Anodes for Highâ€Performance Liâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1801718.	10.2	190
3	Highly Efficient Photoelectrochemical Water Splitting from Hierarchical WO₃/BiVO₄ Nanoporous Sphere Arrays. Nano Letters, 2017, 17, 8012-8017.	4.5	164
4	Enhancement of the Photoelectrochemical Performance of WO₃ Vertical Arrays Film for Solar Water Splitting by Gadolinium Doping. Journal of Physical Chemistry C, 2015, 119, 14834-14842.	1.5	156
5	Enhanced Activity Promoted by CeO_x on a CoO_x Electrocatalyst for the Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 4257-4265.	5.5	151
6	Facet effect on the photoelectrochemical performance of a WO3/BiVO4 heterojunction photoanode. Applied Catalysis B: Environmental, 2019, 245, 227-239.	10.8	141
7	Tunable electronic coupling of cobalt sulfide/carbon composites for optimizing oxygen evolution reaction activity. Journal of Materials Chemistry A, 2018, 6, 10304-10312.	5.2	86
8	Surfactant-assisted controlled synthesis of a metal-organic framework on Fe2O3 nanorod for boosted photoelectrochemical water oxidation. Chemical Engineering Journal, 2020, 379, 122256.	6.6	64
9	Defect-Induced Ce-Doped Bi₂WO₆ for Efficient Electrocatalytic N₂ Reduction. ACS Applied Materials & Interfaces, 2021, 13, 19864-19872.	4.0	59
10	High porosity Mo doped BiVO4 film by vanadium re-substitution for efficient photoelectrochemical water splitting. Chemical Engineering Journal, 2020, 389, 124365.	6.6	58
11	Modulating Charge Transfer Efficiency of Hematite Photoanode with Hybrid Dualâ€Metalâ€“Organic Frameworks for Boosting Photoelectrochemical Water Oxidation. Advanced Science, 2020, 7, 2002563.	5.6	56
12	Carbon dots enhance the interface electron transfer and photoelectrochemical kinetics in TiO2 photoanode. Applied Catalysis B: Environmental, 2022, 304, 120983.	10.8	55
13	Interface Engineering and its Effect on WO₃-Based Photoanode and Tandem Cell. ACS Applied Materials & Interfaces, 2018, 10, 12639-12650.	4.0	54
14	Spinel LiMn 2 O 4 nanoparticles dispersed on nitrogen-doped reduced graphene oxide nanosheets as an efficient electrocatalyst for aluminium-air battery. International Journal of Hydrogen Energy, 2015, 40, 9225-9234.	3.8	51
15	Electrodeposition of MoS_x Hydrogen Evolution Catalysts from Sulfur-Rich Precursors. ACS Applied Materials & Interfaces, 2019, 11, 32879-32886.	4.0	45
16	Enhanced photoelectrochemical performance of plate-like WO 3 induced by surface oxygen vacancies. Electrochemistry Communications, 2016, 68, 81-85.	2.3	43
17	An efficient tandem photoelectrochemical cell composed of FeOOH/TiO2/BiVO4 and Cu2O for self-driven solar water splitting. International Journal of Hydrogen Energy, 2019, 44, 594-604.	3.8	41
18	Lithium Fluoride Coated Silicon Nanocolumns as Anodes for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 18465-18472.	4.0	41

#	Article	IF	Citations
19	In Situ Formation of WO₃-Based Heterojunction Photoanodes with Abundant Oxygen Vacancies via a Novel Microbattery Method. ACS Applied Materials & Interfaces, 2019, 11, 15467-15477.	4.0	39
20	Sulfur-Rich MoS₆ as an Electrocatalyst for the Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 4453-4458.	2.5	38
21	Enhanced photoelectrochemical performance ofÂWO3 film with HfO2 passivation layer. International Journal of Hydrogen Energy, 2015, 40, 8856-8863.	3.8	36
22	Self-Assembled Cuâ€“Snâ€“S Nanotubes with High (De)Lithiation Performance. ACS Nano, 2017, 11, 10347-10356.	7.3	35
23	Films of WO3 plate-like arrays with oxygen vacancies proportionally controlled via rapid chemical reduction. International Journal of Hydrogen Energy, 2018, 43, 208-218.	3.8	34
24	Oxygen-Deficient Nanofiber WO_{3â€“x}/WO₃ Homojunction Photoanodes Synthesized via a Novel Metal Self-Reducing Method. ACS Applied Materials & Interfaces, 2019, 11, 39951-39960.	4.0	32
25	Cobalt Metalâ€“Cobalt Carbide Composite Microspheres for Water Reduction Electrocatalysis. ACS Applied Energy Materials, 2020, 3, 3909-3918.	2.5	32
26	ZnO nanoparticle-functionalized WO₃ plates with enhanced photoelectrochemical properties. RSC Advances, 2015, 5, 46928-46934.	1.7	31
27	Trimetallic oxyhydroxide modified 3D coral-like BiVO4 photoanode for efficient solar water splitting. Chemical Engineering Journal, 2020, 384, 123323.	6.6	30
28	Preparation and enhanced photoelectrochemical performance of a pâ€“n heterojunction CuFe₂O₄/WO₃ nanocomposite film. RSC Advances, 2015, 5, 99378-99384.	1.7	28
29	Electrochemical Doping Induced In Situ Homo-species for Enhanced Photoelectrochemical Performance on WO3 Nanoparticles Film Photoelectrodes. Electrochimica Acta, 2016, 210, 251-260.	2.6	28
30	The role of water in reducing WO3 film by hydrogen: Controlling the concentration of oxygen vacancies and improving the photoelectrochemical performance. Journal of Colloid and Interface Science, 2018, 512, 86-95.	5.0	28
31	Boosting Photoelectrochemical Performance of BiVO₄ through Photoassisted Self-Reduction. ACS Applied Energy Materials, 2020, 3, 4403-4410.	2.5	28
32	Enhancing photoelectrochemical performance with a bilayer-structured film consisting of grapheneâ€“WO₃nanocrystals and WO₃vertically plate-like arrays as photoanodes. RSC Advances, 2014, 4, 3219-3225.	1.7	26
33	Cu₄SnS₄-Rich Nanomaterials for Thin-Film Lithium Batteries with Enhanced Conversion Reaction. ACS Nano, 2019, 13, 10671-10681.	7.3	26
34	Amorphous three-dimensional porous Co3O4 nanowire network toward superior OER catalysis by lithium-induced. Journal of Alloys and Compounds, 2022, 893, 162287.	2.8	26
35	Effect of Surface Passivation on Photoelectrochemical Water Splitting Performance of WO3 Vertical Plate-Like Films. Catalysts, 2015, 5, 2024-2038.	1.6	25
36	Transformation of a Cobalt Carbide (Co₃C) Oxygen Evolution Precatalyst. ACS Applied Energy Materials, 0, , .	2.5	20

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37	Construction of BiVO4 nanosheets@WO3 arrays heterojunction photoanodes by versatile phase transformation strategy. Transactions of Nonferrous Metals Society of China, 2021, 31, 533-544.	1.7	18
38	Effects of alkali ion on boosting WO3 photoelectrochemical performance by electrochemical doping. International Journal of Hydrogen Energy, 2020, 45, 19257-19266.	3.8	17
39	Boosting the Photoelectrochemical Performance of BiVO₄ Photoanodes by Modulating Bulk and Interfacial Charge Transfer. ACS Applied Electronic Materials, 2021, 3, 1896-1903.	2.0	17
40	Asymmetric Cu-N sites on copper oxide photocathode for photoelectrochemical CO2 reduction towards C2 products. Applied Catalysis B: Environmental, 2022, 316, 121616.	10.8	17
41	3D spiral-like polyhedron nanocarbon confining uniformly dispersed Co nanoparticles for bifunctional electrocatalyst in metal-air battery. Journal of Power Sources, 2021, 482, 228897.	4.0	15
42	S-C₃N₄ Quantum Dot Decorated ZnO Nanorods to Improve Their Photoelectrochemical Performance. Nano, 2017, 12, 1750064.	0.5	13
43	Nanoporous BiVO₄ nanoflake array photoanode for efficient photoelectrochemical water splitting. CrystEngComm, 2020, 22, 1914-1921.	1.3	12
44	Ultrafine Fe2C nanocrystals encapsulated in interconnected hollow carbon spheres as ORR electrocatalysts for Alkaline/Neutral ZnÂâ^'ÂAir batteries. Applied Surface Science, 2022, 601, 154221.	3.1	11
45	Hydrothermal Sm-doped tungsten oxide vertically plate-like array photoelectrode and its enhanced photoelectrocatalytic efficiency for degradation of organic dyes. Journal of Materials Science: Materials in Electronics, 2017, 28, 4004-4013.	1.1	10
46	Lithium-induced amorphization of Niâ€“Fe layered-double-hydroxide for highly efficient oxygen evolution. Electrochimica Acta, 2021, 389, 138523.	2.6	9
47	Creation of oxygen vacancies to activate 2D BiVO4 photoanode by photoassisted selfâ€reduction for enhanced solarâ€driven water splitting. Electrochimica Acta, 2021, 399, 139428.	2.6	9
48	Chloride Flux Growth of Idiomorphic AWO₄ (A = Sr, Ba) Single Microcrystals. Crystal Growth and Design, 2018, 18, 5301-5310.	1.4	8
49	Cobalt nanoparticles embedded in nitrogen-doped carbon nanotubes for efficient catalysis of oxygen reduction reaction. Journal of the Iranian Chemical Society, 2019, 16, 2575-2585.	1.2	6
50	Infrared Light-Driven LaW(O,N)₃ OER Photoelectrocatalysts from Chloride Flux-Grown La₄W₃O₁₅ Templating Precursors. ACS Applied Energy Materials, 2019, 2, 913-922.	2.5	6
51	Doubling Micropore of Carbon Skeleton via Regulating Molecular Structure of Carbohydrate for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2022, 169, 046510.	1.3	0