

# Yang Liu

## List of Publications by Year in descending order

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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	Amorphous three-dimensional porous Co <sub>3</sub> O <sub>4</sub> nanowire network toward superior OER catalysis by lithium-induced. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162287.	2.8	26
2	Carbon dots enhance the interface electron transfer and photoelectrochemical kinetics in TiO <sub>2</sub> photoanode. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120983.	10.8	55
3	Doubling Micropore of Carbon Skeleton via Regulating Molecular Structure of Carbohydrate for Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2022, 169, 046510.	1.3	0
4	Asymmetric Cu-N sites on copper oxide photocathode for photoelectrochemical CO <sub>2</sub> reduction towards C <sub>2</sub> products. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121616.	10.8	17
5	Ultrafine Fe <sub>2</sub> C nanocrystals encapsulated in interconnected hollow carbon spheres as ORR electrocatalysts for Alkaline/Neutral Zn~Air batteries. <i>Applied Surface Science</i> , 2022, 601, 154221.	3.1	11
6	3D spiral-like polyhedron nanocarbon confining uniformly dispersed Co nanoparticles for bifunctional electrocatalyst in metal-air battery. <i>Journal of Power Sources</i> , 2021, 482, 228897.	4.0	15
7	Construction of BiVO <sub>4</sub> nanosheets@WO <sub>3</sub> arrays heterojunction photoanodes by versatile phase transformation strategy. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 533-544.	1.7	18
8	Defect-Induced Ce-Doped Bi <sub>2</sub> WO <sub>6</sub> for Efficient Electrocatalytic N <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19864-19872.	4.0	59
9	Boosting the Photoelectrochemical Performance of BiVO <sub>4</sub> Photoanodes by Modulating Bulk and Interfacial Charge Transfer. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1896-1903.	2.0	17
10	Lithium-induced amorphization of Ni~Fe layered-double-hydroxide for highly efficient oxygen evolution. <i>Electrochimica Acta</i> , 2021, 389, 138523.	2.6	9
11	Creation of oxygen vacancies to activate 2D BiVO <sub>4</sub> photoanode by photoassisted self-reduction for enhanced solar-driven water splitting. <i>Electrochimica Acta</i> , 2021, 399, 139428.	2.6	9
12	Surfactant-assisted controlled synthesis of a metal-organic framework on Fe <sub>2</sub> O <sub>3</sub> nanorod for boosted photoelectrochemical water oxidation. <i>Chemical Engineering Journal</i> , 2020, 379, 122256.	6.6	64
13	Trimetallic oxyhydroxide modified 3D coral-like BiVO <sub>4</sub> photoanode for efficient solar water splitting. <i>Chemical Engineering Journal</i> , 2020, 384, 123323.	6.6	30
14	Modulating Charge Transfer Efficiency of Hematite Photoanode with Hybrid Dual~Metal~Organic Frameworks for Boosting Photoelectrochemical Water Oxidation. <i>Advanced Science</i> , 2020, 7, 2002563.	5.6	56
15	Effects of alkali ion on boosting WO <sub>3</sub> photoelectrochemical performance by electrochemical doping. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19257-19266.	3.8	17
16	Cobalt Metal~Cobalt Carbide Composite Microspheres for Water Reduction Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2020, 3, 3909-3918.	2.5	32
17	Lithium Fluoride Coated Silicon Nanocolumns as Anodes for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18465-18472.	4.0	41
18	High porosity Mo doped BiVO <sub>4</sub> film by vanadium re-substitution for efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2020, 389, 124365.	6.6	58

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19	Nanoporous BiVO <sub>4</sub> nanoflake array photoanode for efficient photoelectrochemical water splitting. CrystEngComm, 2020, 22, 1914-1921.	1.3	12
20	Boosting Photoelectrochemical Performance of BiVO <sub>4</sub> through Photoassisted Self-Reduction. ACS Applied Energy Materials, 2020, 3, 4403-4410.	2.5	28
21	Electrodeposition of MoS <sub>2</sub> Hydrogen Evolution Catalysts from Sulfur-Rich Precursors. ACS Applied Materials & Interfaces, 2019, 11, 32879-32886.	4.0	45
22	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
23	Cu <sub>4</sub> SnS <sub>4</sub> -Rich Nanomaterials for Thin-Film Lithium Batteries with Enhanced Conversion Reaction. ACS Nano, 2019, 13, 10671-10681.	7.3	26
24	Oxygen-Deficient Nanofiber WO <sub>3</sub> /WO <sub>3</sub> Homojunction Photoanodes Synthesized via a Novel Metal Self-Reducing Method. ACS Applied Materials & Interfaces, 2019, 11, 39951-39960.	4.0	32
25	In Situ Formation of WO <sub>3</sub> -Based Heterojunction Photoanodes with Abundant Oxygen Vacancies via a Novel Microbattery Method. ACS Applied Materials & Interfaces, 2019, 11, 15467-15477.	4.0	39
26	Infrared Light-Driven LaW(O,N) <sub>3</sub> OER Photoelectrocatalysts from Chloride Flux-Grown La <sub>4</sub> W <sub>3</sub> O <sub>15</sub> Templating Precursors. ACS Applied Energy Materials, 2019, 2, 913-922.	2.5	6
27	Facet effect on the photoelectrochemical performance of a WO <sub>3</sub> /BiVO <sub>4</sub> heterojunction photoanode. Applied Catalysis B: Environmental, 2019, 245, 227-239.	10.8	141
28	An efficient tandem photoelectrochemical cell composed of FeOOH/TiO <sub>2</sub> /BiVO <sub>4</sub> and Cu <sub>2</sub> O for self-driven solar water splitting. International Journal of Hydrogen Energy, 2019, 44, 594-604.	3.8	41
29	Enhanced Activity Promoted by CeO <sub>x</sub> on a CoO <sub>x</sub> Electrocatalyst for the Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 4257-4265.	5.5	151
30	Films of WO <sub>3</sub> plate-like arrays with oxygen vacancies proportionally controlled via rapid chemical reduction. International Journal of Hydrogen Energy, 2018, 43, 208-218.	3.8	34
31	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
32	Interface Engineering and its Effect on WO <sub>3</sub> -Based Photoanode and Tandem Cell. ACS Applied Materials & Interfaces, 2018, 10, 12639-12650.	4.0	54
33	The role of water in reducing WO <sub>3</sub> 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
34	Sulfur-Rich MoS <sub>6</sub> as an Electrocatalyst for the Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 4453-4458.	2.5	38
35	Chloride Flux Growth of Idiomorphic AWO <sub>4</sub> (A = Sr, Ba) Single Microcrystals. Crystal Growth and Design, 2018, 18, 5301-5310.	1.4	8
36	Controlling Surface Oxides in Si/C Nanocomposite Anodes for High-Performance Li-Ion Batteries. Advanced Energy Materials, 2018, 8, 1801718.	10.2	190

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37	S-C <sub>3</sub> N <sub>4</sub> Quantum Dot Decorated ZnO Nanorods to Improve Their Photoelectrochemical Performance. <i>Nano</i> , 2017, 12, 1750064.	0.5	13
38	Self-Assembled Cu <sup>2+</sup> /Sn <sup>2+</sup> Nanotubes with High (De)Lithiation Performance. <i>ACS Nano</i> , 2017, 11, 10347-10356.	7.3	35
39	Highly Efficient Photoelectrochemical Water Splitting from Hierarchical WO <sub>3</sub> /BiVO <sub>4</sub> Nanoporous Sphere Arrays. <i>Nano Letters</i> , 2017, 17, 8012-8017.	4.5	164
40	Hydrothermal Sm-doped tungsten oxide vertically plate-like array photoelectrode and its enhanced photoelectrocatalytic efficiency for degradation of organic dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4004-4013.	1.1	10
41	Enhanced photoelectrochemical performance of plate-like WO <sub>3</sub> induced by surface oxygen vacancies. <i>Electrochemistry Communications</i> , 2016, 68, 81-85.	2.3	43
42	Electrochemical Doping Induced In Situ Homo-species for Enhanced Photoelectrochemical Performance on WO <sub>3</sub> Nanoparticles Film Photoelectrodes. <i>Electrochimica Acta</i> , 2016, 210, 251-260.	2.6	28
43	Effect of Surface Passivation on Photoelectrochemical Water Splitting Performance of WO <sub>3</sub> Vertical Plate-Like Films. <i>Catalysts</i> , 2015, 5, 2024-2038.	1.6	25
44	ZnO nanoparticle-functionalized WO <sub>3</sub> plates with enhanced photoelectrochemical properties. <i>RSC Advances</i> , 2015, 5, 46928-46934.	1.7	31
45	Enhancement of the Photoelectrochemical Performance of WO <sub>3</sub> Vertical Arrays Film for Solar Water Splitting by Gadolinium Doping. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14834-14842.	1.5	156
46	Preparation and enhanced photoelectrochemical performance of a p-n heterojunction CuFe <sub>2</sub> O <sub>4</sub> /WO <sub>3</sub> nanocomposite film. <i>RSC Advances</i> , 2015, 5, 99378-99384.	1.7	28
47	Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway. <i>Science</i> , 2015, 347, 970-974.	6.0	3,803
48	Enhanced photoelectrochemical performance of WO <sub>3</sub> film with HfO <sub>2</sub> passivation layer. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8856-8863.	3.8	36
49	Spinel LiMn <sub>2</sub> O <sub>4</sub> nanoparticles dispersed on nitrogen-doped reduced graphene oxide nanosheets as an efficient electrocatalyst for aluminium-air battery. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9225-9234.	3.8	51
50	Enhancing photoelectrochemical performance with a bilayer-structured film consisting of graphene/WO <sub>3</sub> nanocrystals and WO <sub>3</sub> vertically plate-like arrays as photoanodes. <i>RSC Advances</i> , 2014, 4, 3219-3225.	1.7	26
51	Transformation of a Cobalt Carbide (Co <sub>3</sub> C) Oxygen Evolution Precatalyst. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	20