

Yanbo Li

List of Publications by Year in descending order

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77
papers

7,068
citations

109137

35
h-index

85405

71
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77
all docs

77
docs citations

77
times ranked

10579
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable water splitting on particulate photocatalyst sheets with a solar-to-hydrogen energy conversion efficiency exceeding 1%. <i>Nature Materials</i> , 2016, 15, 611-615.	13.3	1,311
2	Fe-Based Electrocatalysts for Oxygen Evolution Reaction: Progress and Perspectives. <i>ACS Catalysis</i> , 2020, 10, 4019-4047.	5.5	379
3	Vertically Aligned Ta ₃ N ₅ Nanorod Arrays for Solar-Driven Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2013, 25, 125-131.	11.1	363
4	Engineering graphene and TMDs based van der Waals heterostructures for photovoltaic and photoelectrochemical solar energy conversion. <i>Chemical Society Reviews</i> , 2018, 47, 4981-5037.	18.7	344
5	Facet-dependent photovoltaic efficiency variations in single grains of hybrid halide Perovskite. <i>Nature Energy</i> , 2016, 1, .	19.8	308
6	Cobalt phosphate-modified barium-doped tantalum nitride nanorod photoanode with 1.5% solar energy conversion efficiency. <i>Nature Communications</i> , 2013, 4, 2566.	5.8	306
7	Efficient Assembly of Bridged Ga ₂ O ₃ Nanowires for Solar-Blind Photodetection. <i>Advanced Functional Materials</i> , 2010, 20, 3972-3978.	7.8	292
8	High Photoluminescence Quantum Yield in Band Gap Tunable Bromide Containing Mixed Halide Perovskites. <i>Nano Letters</i> , 2016, 16, 800-806.	4.5	269
9	Core/Shell Structured La- and Rh-Codoped SrTiO ₃ as a Hydrogen Evolution Photocatalyst in Z-Scheme Overall Water Splitting under Visible Light Irradiation. <i>Chemistry of Materials</i> , 2014, 26, 4144-4150.	3.2	242
10	Competitive surface effects of oxygen and water on UV photoresponse of ZnO nanowires. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	218
11	Band structure engineering and defect control of Ta ₃ N ₅ for efficient photoelectrochemical water oxidation. <i>Nature Catalysis</i> , 2020, 3, 932-940.	16.1	211
12	High-performance UV detector made of ultra-long ZnO bridging nanowires. <i>Nanotechnology</i> , 2009, 20, 045501.	1.3	192
13	All-Inorganic Perovskite Solar Cells: Energetics, Key Challenges, and Strategies toward Commercialization. <i>ACS Energy Letters</i> , 2020, 5, 290-320.	8.8	183
14	Fabrication of highly ordered nanoporous alumina films by stable high-field anodization. <i>Nanotechnology</i> , 2006, 17, 5101-5105.	1.3	153
15	Earth-abundant Cu-based metal oxide photocathodes for photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 3269-3306.	15.6	141
16	Defective TiO ₂ with high photoconductive gain for efficient and stable planar heterojunction perovskite solar cells. <i>Nature Communications</i> , 2016, 7, 12446.	5.8	139
17	Scalable Low-Band-Gap Sb ₂ Se ₃ Thin-Film Photocathodes for Efficient Visible-Near-Infrared Solar Hydrogen Evolution. <i>ACS Nano</i> , 2017, 11, 12753-12763.	7.3	127
18	Z-scheme water splitting using particulate semiconductors immobilized onto metal layers for efficient electron relay. <i>Journal of Catalysis</i> , 2015, 328, 308-315.	3.1	119

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19	Defect-Rich NiCeO _x Electrocatalyst with Ultrahigh Stability and Low Overpotential for Water Oxidation. ACS Catalysis, 2019, 9, 1605-1611.	5.5	113
20	Fabrication of Planar Heterojunction Perovskite Solar Cells by Controlled Low-Pressure Vapor Annealing. Journal of Physical Chemistry Letters, 2015, 6, 493-499.	2.1	112
21	A Novel Method to Synthesize Highly Photoactive Cu ₂ O Microcrystalline Films for Use in Photoelectrochemical Cells. ACS Applied Materials & Interfaces, 2014, 6, 480-486.	4.0	107
22	Interface engineering of Ta ₃ N ₅ thin film photoanode for highly efficient photoelectrochemical water splitting. Nature Communications, 2022, 13, 729.	5.8	99
23	A self-healing catalyst for electrocatalytic and photoelectrochemical oxygen evolution in highly alkaline conditions. Nature Communications, 2021, 12, 5980.	5.8	88
24	Fabrication of Hierarchical ZnO Architectures and Their Superhydrophobic Surfaces with Strong Adhesive Force. Inorganic Chemistry, 2008, 47, 3140-3143.	1.9	79
25	ZnO@ZnGa ₂ O ₄ core-shell nanowire array for stable photoelectrochemical water splitting. Nanoscale, 2012, 4, 1509-1514.	2.8	77
26	Hybrid solar-to-methane conversion system with a Faradaic efficiency of up to 96%. Nano Energy, 2018, 53, 232-239.	8.2	76
27	Solution-processed CuSbS ₂ thin film: A promising earth-abundant photocathode for efficient visible-light-driven hydrogen evolution. Nano Energy, 2016, 28, 135-142.	8.2	70
28	Identifying Performance-Limiting Deep Traps in Ta ₃ N ₅ for Solar Water Splitting. ACS Catalysis, 2020, 10, 10316-10324.	5.5	68
29	Steering the crystallization of perovskites for high-performance solar cells in ambient air. Journal of Materials Chemistry A, 2019, 7, 12166-12175.	5.2	65
30	High-speed growth and photoluminescence of porous anodic alumina films with controllable interpore distances over a large range. Applied Physics Letters, 2007, 91, .	1.5	59
31	Wafer-Scale Fabrication of Self-Catalyzed 1.7 eV GaAsP Core-Shell Nanowire Photocathode on Silicon Substrates. Nano Letters, 2014, 14, 2013-2018.	4.5	58
32	Large-Area Organic-Free Perovskite Solar Cells with High Thermal Stability. Journal of Physical Chemistry Letters, 2019, 10, 6382-6388.	2.1	46
33	Hybrid microbial photoelectrochemical system reduces CO ₂ to CH ₄ with 1.28% solar energy conversion efficiency. Chemical Engineering Journal, 2020, 390, 124530.	6.6	44
34	Tuning the Selectivity of Liquid Products of CO ₂ RR by Cu@Ag Alloying. ACS Applied Materials & Interfaces, 2022, 14, 11567-11574.	4.0	44
35	Perovskite single crystals: Synthesis, properties, and applications. Journal of Electronic Science and Technology, 2021, 19, 100081.	2.0	41
36	Bascule nanobridges self-assembled with ZnO nanowires as double Schottky barrier UV switches. Nanotechnology, 2010, 21, 295502.	1.3	38

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37	An ultrathin MoSe ₂ photodetector with near-perfect absorption. <i>Nanotechnology</i> , 2020, 31, 225201.	1.3	29
38	Strongly Enhanced Photoluminescence and Photoconductivity in Erbium-Doped MAPbBr ₃ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8992-8998.	1.5	26
39	Promotion on Acetone Sensing of Single SnO ₂ Nanobelt by Eu Doping. <i>Nanoscale Research Letters</i> , 2017, 12, 405.	3.1	25
40	Efficient photoelectrochemical water oxidation enabled by an amorphous metal oxide-catalyzed graphene/silicon heterojunction photoanode. <i>Sustainable Energy and Fuels</i> , 2018, 2, 663-672.	2.5	25
41	Large organic cation incorporation induces vertical orientation growth of Sn-based perovskites for high efficiency solar cells. <i>Chemical Engineering Journal</i> , 2020, 402, 125133.	6.6	25
42	Size-dependent longitudinal plasmon resonance wavelength and extraordinary scattering properties of Au nanobipyramids. <i>Nanotechnology</i> , 2018, 29, 355402.	1.3	24
43	Determining Atomic-Scale Structure and Composition of Organo-Lead Halide Perovskites by Combining High-Resolution X-ray Absorption Spectroscopy and First-Principles Calculations. <i>ACS Energy Letters</i> , 2017, 2, 1183-1189.	8.8	23
44	Enhanced thermal stability of electron transport layer-free perovskite solar cells via interface strain releasing. <i>Journal of Power Sources</i> , 2019, 439, 227091.	4.0	21
45	High Photovoltage Inverted Planar Heterojunction Perovskite Solar Cells with All-Inorganic Selective Contact Layers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46894-46901.	4.0	20
46	Tailoring the Crystallographic Orientation of a Sb ₂ S ₃ Thin Film for Efficient Photoelectrochemical Water Reduction. <i>ACS Catalysis</i> , 2022, 12, 8175-8184.	5.5	20
47	Tailored NiFe Catalyst on Silicon Photoanode for Efficient Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2844-2850.	1.5	19
48	Self-assembly of versatile tubular-like In ₂ O ₃ nanostructures. <i>Nanotechnology</i> , 2007, 18, 465605.	1.3	17
49	Atomic Layer Deposition for the Photoelectrochemical Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002100.	1.9	17
50	Hierarchical MoS ₂ /Ni ₃ S ₂ core-shell nanofibers for highly efficient and stable overall-water-splitting in alkaline media. <i>Materials Today Energy</i> , 2018, 10, 214-221.	2.5	16
51	Polyacetylene derivatives in perovskite solar cells: from defect passivation to moisture endurance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13220-13230.	5.2	15
52	Revealing the Aging Effect of Metal-Oleate Precursors on the Preparation of Highly Luminescent CsPbBr ₃ Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2668-2675.	2.1	15
53	Fabrication of highly ordered Ta ₂ O ₅ and Ta ₃ N ₅ nanorod arrays by nanoimprinting and through-mask anodization. <i>Nanotechnology</i> , 2014, 25, 014013.	1.3	14
54	Synthesis, crystal structure, aggregation-induced emission (AIE) and electroluminescence properties of a novel emitting material based on pyrrolo[3,2- <i>b</i>]pyrrole. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14208-14218.	2.7	14

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55	Stability of hydrogen incorporated in ZnO nanowires by plasma treatment. <i>Nanotechnology</i> , 2011, 22, 435703.	1.3	13
56	Vertically aligned ZnO@ZnGa ₂ O ₄ core-shell nanowires: from synthesis to optical properties. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	12
57	Perfect invisibility concentrator with simplified material parameters. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	11
58	Fast Growth of Highly Ordered TiO ₂ Nanotube Arrays on Si Substrate under High-Field Anodization. <i>Nano-Micro Letters</i> , 2017, 9, 13.	14.4	10
59	Tuning Hole Accumulation of Metal Oxides Promotes the Oxygen Evolution Rate. <i>ACS Catalysis</i> , 2020, 10, 10427-10435.	5.5	10
60	A rational design strategy for red thermally activated delay fluorescence emitter employing 2,1,3-benzothiadiazole skeleton with asymmetric structure. <i>Dyes and Pigments</i> , 2021, 196, 109781.	2.0	10
61	Tip-like anodic alumina. <i>Nanotechnology</i> , 2007, 18, 215304.	1.3	8
62	Improving photoelectrochemical water oxidation activity of BiFeO ₃ photoanode via surface passivation. <i>Applied Physics Letters</i> , 2021, 119, 013903.	1.5	7
63	Self-Assembly of Colloidal Nanoparticles into Well-Ordered Centimeter-Long Rods via Crack Engineering. <i>Advanced Materials Interfaces</i> , 2021, 8, 2000222.	1.9	6
64	Metastable Ta ₂ N ₃ with highly tunable electrical conductivity <i>via</i> oxygen incorporation. <i>Materials Horizons</i> , 2021, 8, 1744-1755.	6.4	6
65	Direct synthesis of BaTaO ₂ N nanoparticle film on a conductive substrate for photoelectrochemical water splitting. <i>Journal of Catalysis</i> , 2022, 411, 109-115.	3.1	5
66	Progress Toward Nanowire Device Assembly Technology. , 2010, , .		4
67	Photoelectrodes: Vertically Aligned Ta ₃ N ₅ Nanorod Arrays for Solar-Driven Photoelectrochemical Water Splitting (<i>Adv. Mater.</i> 1/2013). <i>Advanced Materials</i> , 2013, 25, 152-152.	11.1	4
68	The rational design of hierarchical MoS ₂ nanosheet hollow spheres sandwiched between carbon and TiO ₂ @graphite as an improved anode for lithium-ion batteries. <i>Nanoscale Advances</i> , 2019, 1, 1957-1964.	2.2	4
69	Coevaporation of Doped Inorganic Carrier-Selective Layers for High-Performance Inverted Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	4
70	Effect of hydrogen plasma treatment on the luminescence and photoconductive properties of ZnO nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1206, 130301.	0.1	3
71	Ionic liquid-induced <i>in situ</i> deposition of perovskite quantum dot films with a photoluminescence quantum yield of over 85%. <i>Nanoscale</i> , 2021, 13, 20067-20077.	2.8	3
72	Fabrication of ZnO Bridging Nanowire Device by a Single-Step Chemical Vapor Deposition Method. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1144, 1.	0.1	1

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73	Wide-bandgap nanowires for UV-light detection. SPIE Newsroom, 0, , .	0.1	1
74	Enhancement of Gas Response of ZnO Micro-nano Structured Films through O2 Plasma Treatment. IEEJ Transactions on Sensors and Micromachines, 2009, 129, 307-311.	0.0	0
75	Bridging wide bandgap nanowires for ultraviolet light detection. , 2011, , .		0
76	Morphological evolution of large-scale vertically aligned ZnO nanowires and their photoluminescence properties by hydrogen plasma treatment. Materials Research Society Symposia Proceedings, 2011, 1302, 8101.	0.1	0
77	Low Pressure Vapor-assisted Solution Process for Tunable Band Gap Pinhole-free Methylammonium Lead Halide Perovskite Films. Journal of Visualized Experiments, 2017, , .	0.2	0