

Zou Zhigang

List of Publications by Year in descending order

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284
papers

15,657
citations

19608

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16233
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#	ARTICLE	IF	CITATIONS
1	Photoelectrochemical cells for solar hydrogen production: current state of promising photoelectrodes, methods to improve their properties, and outlook. <i>Energy and Environmental Science</i> , 2013, 6, 347-370.	15.6	969
2	State-of-the-Art Progress in Diverse Heterostructured Photocatalysts toward Promoting Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2015, 25, 998-1013.	7.8	706
3	Polymeric g-C ₃ N ₄ Coupled with NaNbO ₃ Nanowires toward Enhanced Photocatalytic Reduction of CO ₂ into Renewable Fuel. <i>ACS Catalysis</i> , 2014, 4, 3637-3643.	5.5	580
4	Solar hydrogen generation from seawater with a modified BiVO ₄ photoanode. <i>Energy and Environmental Science</i> , 2011, 4, 4046.	15.6	564
5	Robust Hollow Spheres Consisting of Alternating Titania Nanosheets and Graphene Nanosheets with High Photocatalytic Activity for CO ₂ Conversion into Renewable Fuels. <i>Advanced Functional Materials</i> , 2012, 22, 1215-1221.	7.8	373
6	An In Situ Simultaneous Reduction-Hydrolysis Technique for Fabrication of TiO ₂ -Graphene 2D Sandwich-Like Hybrid Nanosheets: Graphene-Promoted Selectivity of Photocatalytic-Driven Hydrogenation and Coupling of CO ₂ into Methane and Ethane. <i>Advanced Functional Materials</i> , 2013, 23, 1743-1749.	7.8	357
7	Versatile Graphene-Promoting Photocatalytic Performance of Semiconductors: Basic Principles, Synthesis, Solar Energy Conversion, and Environmental Applications. <i>Advanced Functional Materials</i> , 2013, 23, 4996-5008.	7.8	335
8	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H ₂ Evolution and CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7260-7268.	3.2	322
9	Hexahedron Prism-Anchored Octahedral CeO ₂ : Crystal Facet-Based Homo Junction Promoting Efficient Solar Fuel Synthesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 9547-9550.	6.6	294
10	Cathodic shift of onset potential for water oxidation on a Ti ⁴⁺ -doped Fe ₂ O ₃ photoanode by suppressing the back reaction. <i>Energy and Environmental Science</i> , 2014, 7, 752-759.	15.6	228
11	Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme WO ₃ /Au/In ₂ S ₃ Nanowire Arrays. <i>Nano Letters</i> , 2016, 16, 5547-5552.	4.5	217
12	Co ₃ O ₄ Nanoparticles as Robust Water Oxidation Catalysts Towards Remarkably Enhanced Photostability of a Ta ₃ N ₅ Photoanode. <i>Advanced Functional Materials</i> , 2012, 22, 3066-3074.	7.8	205
13	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO ₄ Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO ₂ into CO. <i>Journal of the American Chemical Society</i> , 2019, 141, 4209-4213.	6.6	199
14	Three-Dimensional Hierarchical Architectures Derived from Surface-Mounted Metal-Organic Framework Membranes for Enhanced Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13781-13785.	7.2	193
15	A Facet-Dependent Schottky Junction Electron Shuttle in a BiVO ₄ {010}-Au-Cu ₂ O Z-Scheme Photocatalyst for Efficient Charge Separation. <i>Advanced Functional Materials</i> , 2018, 28, 1801214.	7.8	193
16	Effects of Surface Electrochemical Pretreatment on the Photoelectrochemical Performance of Mo-Doped BiVO ₄ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 5076-5081.	1.5	172
17	Increasing the Oxygen Vacancy Density on the TiO ₂ Surface by La-Doping for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18396-18400.	1.5	166
18	Highly Photo-Responsive LaTiO ₂ N Photoanodes by Improvement of Charge Carrier Transport among Film Particles. <i>Advanced Functional Materials</i> , 2014, 24, 3535-3542.	7.8	166

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19	Sol-gel hydrothermal synthesis of visible-light-driven Cr-doped SrTiO ₃ for efficient hydrogen production. <i>Journal of Materials Chemistry</i> , 2011, 21, 11347.	6.7	157
20	Two-dimensional nanomaterials for photocatalytic CO ₂ reduction to solar fuels. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1875-1898.	2.5	156
21	Polyhedral 30-Faceted BiVO ₄ Microcrystals Predominantly Enclosed by High-Index Planes Promoting Photocatalytic Water-Splitting Activity. <i>Advanced Materials</i> , 2018, 30, 1703119.	11.1	155
22	Correlation of Crystal Structures, Electronic Structures, and Photocatalytic Properties in a Series of Ag-based Oxides: AgAlO ₂ , AgCrO ₂ , and Ag ₂ CrO ₄ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 3134-3141.	1.5	152
23	Zn ₂ GeO ₄ crystal splitting toward sheaf-like, hyperbranched nanostructures and photocatalytic reduction of CO ₂ into CH ₄ under visible light after nitridation. <i>Journal of Materials Chemistry</i> , 2012, 22, 2033-2038.	6.7	145
24	Photocatalytic reduction of CO ₂ over Ag/TiO ₂ nanocomposites prepared with a simple and rapid silver mirror method. <i>Nanoscale</i> , 2016, 8, 11870-11874.	2.8	139
25	Facile green synthesis of crystalline polyimide photocatalyst for hydrogen generation from water. <i>Journal of Materials Chemistry</i> , 2012, 22, 15519.	6.7	134
26	Vacancy-defect modulated pathway of photoreduction of CO ₂ on single atomically thin AgInP ₂ S ₆ sheets into olefiant gas. <i>Nature Communications</i> , 2021, 12, 4747.	5.8	128
27	Oxygen-Vacancy-Activated CO ₂ Splitting over Amorphous Oxide Semiconductor Photocatalyst. <i>ACS Catalysis</i> , 2018, 8, 516-525.	5.5	126
28	Co-P Bonds as Atomic-Level Charge Transfer Channel To Boost Photocatalytic H ₂ Production of Co ₂ P/Black Phosphorus Nanosheets Photocatalyst. <i>ACS Catalysis</i> , 2019, 9, 7801-7807.	5.5	124
29	Photoreduction of Carbon Dioxide Over NaNbO ₃ Nanostructured Photocatalysts. <i>Catalysis Letters</i> , 2011, 141, 525-530.	1.4	118
30	Beyond C ₃ N ₄ -conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. <i>Chemical Society Reviews</i> , 2021, 50, 2147-2172.	18.7	118
31	Elegant Construction of ZnIn ₂ S ₄ /BiVO ₄ Hierarchical Heterostructures as Direct Z-Scheme Photocatalysts for Efficient CO ₂ Photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15092-15100.	4.0	115
32	A facile spray pyrolysis method to prepare Ti-doped ZnFe ₂ O ₄ for boosting photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7571-7577.	5.2	113
33	Heterogeneous degradation of organic contaminants in the photo-Fenton reaction employing pure cubic γ -Fe ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2019, 245, 410-419.	10.8	107
34	Improved photoelectrochemical responses of Si and Ti codoped α -Fe ₂ O ₃ photoanode films. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	105
35	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1611-1618.	7.2	104
36	Frustrated Lewis Pairs Accelerating CO ₂ Reduction on Oxyhydroxide Photocatalysts with Surface Lattice Hydroxyls as a Solid-State Proton Donor. <i>Advanced Functional Materials</i> , 2018, 28, 1804191.	7.8	102

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37	Constructing a High-Efficiency MoO ₃ /Polyimide Hybrid Photocatalyst Based on Strong Interfacial Interaction. ACS Applied Materials & Interfaces, 2015, 7, 14628-14637.	4.0	97
38	NaNbO ₃ Nanostructures: Facile Synthesis, Characterization, and Their Photocatalytic Properties. Catalysis Letters, 2009, 132, 205-212.	1.4	96
39	Highly Flexible Self-Powered Organolead Trihalide Perovskite Photodetectors with Gold Nanowire Networks as Transparent Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 23868-23875.	4.0	95
40	General synthesis of high-entropy alloy and ceramic nanoparticles in nanoseconds. , 2022, 1, 138-146.		91
41	Zinc Gallogermanate Solid Solution: A Novel Photocatalyst for Efficiently Converting CO ₂ into Solar Fuels. Advanced Functional Materials, 2013, 23, 1839-1845.	7.8	89
42	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO ₂ . Nature Communications, 2022, 13, 2806.	5.8	89
43	Quantitative Analysis and Visualized Evidence for High Charge Separation Efficiency in a Solid-Liquid Bulk Heterojunction. Advanced Energy Materials, 2014, 4, 1301785.	10.2	88
44	La ₂ O ₃ -Modified LaTiO ₂ N Photocatalyst with Spatially Separated Active Sites Achieving Enhanced CO ₂ Reduction. Advanced Functional Materials, 2017, 27, 1702447.	7.8	87
45	Enhanced Water-Splitting Performance of Perovskite SrTaO ₂ N Photoanode Film through Ameliorating Interparticle Charge Transport. Advanced Functional Materials, 2016, 26, 7156-7163.	7.8	86
46	Facet-Dependent Enhancement in the Activity of Bismuth Vanadate Microcrystals for the Photocatalytic Conversion of Methane to Methanol. ACS Applied Nano Materials, 2018, 1, 6683-6691.	2.4	79
47	Boosting O ₂ Reduction and H ₂ O Dehydrogenation Kinetics: Surface N-Hydroxymethylation of g-C ₃ N ₄ Photocatalysts for the Efficient Production of H ₂ O ₂ . Advanced Functional Materials, 2022, 32, .	7.8	76
48	Microwave Hydrothermal Synthesis, Structural Characterization, and Visible-Light Photocatalytic Activities of Single-Crystalline Bismuth Ferric Nanocrystals. Journal of the American Ceramic Society, 2011, 94, 2688-2693.	1.9	75
49	CoS ₂ @N-doped carbon core-shell nanorod array grown on Ni foam for enhanced electrocatalytic water oxidation. Journal of Materials Chemistry A, 2020, 8, 6795-6803.	5.2	75
50	Few-Layer Black Phosphorus Nanosheets: A Metal-Free Cocatalyst for Photocatalytic Nitrogen Fixation. ACS Applied Materials & Interfaces, 2020, 12, 17343-17352.	4.0	74
51	Bismuth Vacancy-Induced Efficient CO ₂ Photoreduction in BiOCl Directly from Natural Air: A Progressive Step toward Photosynthesis in Nature. Nano Letters, 2021, 21, 10260-10266.	4.5	74
52	An Ion-Exchange Phase Transformation to ZnGa ₂ O ₄ Nanocube Towards Efficient Solar Fuel Synthesis. Advanced Functional Materials, 2013, 23, 758-763.	7.8	72
53	Confinement effect of monolayer MoS ₂ quantum dots on conjugated polyimide and promotion of solar-driven photocatalytic hydrogen generation. Dalton Transactions, 2017, 46, 3877-3886.	1.6	72
54	Rational construction of a CdS/reduced graphene oxide/TiO ₂ core-shell nanostructure as an all-solid-state Z-scheme system for CO ₂ photoreduction into solar fuels. RSC Advances, 2015, 5, 88409-88413.	1.7	71

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55	A Theoretical Study of Water Adsorption and Decomposition on the Low-Index Stoichiometric Anatase TiO_2 Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7430-7441.	1.5	70
56	Carbon Nanotube@ RuO_2 as a High Performance Catalyst for Li^+ CO_2 Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5146-5151.	4.0	70
57	Robust Molecular Dipole-Enabled Defect Passivation and Control of Energy Level Alignment for High-Efficiency Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17664-17670.	7.2	69
58	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ Z-Scheme System for Efficient CO_2 Reduction into Solar Fuels. <i>ACS Applied Energy Materials</i> , 2020, 3, 6561-6572.	2.5	67
59	BiVO_4 nano-“leaves: Mild synthesis and improved photocatalytic activity for O_2 production under visible light irradiation. <i>CrystEngComm</i> , 2011, 13, 2500.	1.3	65
60	<i>In Situ</i> Fabrication of Highly Conductive Metal Nanowire Networks with High Transmittance from Deep-Ultraviolet to Near-Infrared. <i>ACS Nano</i> , 2015, 9, 2502-2509.	7.3	65
61	Unique Zn-doped SnO_2 nano-echinus with excellent electron transport and light harvesting properties as photoanode materials for high performance dye-sensitized solar cell. <i>CrystEngComm</i> , 2012, 14, 6462.	1.3	64
62	Structure and Properties of Water on the Anatase TiO_2 (101) Surface: From Single-Molecule Adsorption to Interface Formation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11054-11061.	1.5	64
63	Photoelectrochemical cell for unassisted overall solar water splitting using a BiVO_4 photoanode and Si nanoarray photocathode. <i>RSC Advances</i> , 2016, 6, 9905-9910.	1.7	64
64	Facile grafting strategy synthesis of single-atom electrocatalyst with enhanced ORR performance. <i>Nano Research</i> , 2020, 13, 1519-1526.	5.8	60
65	Double-shelled plasmonic Ag- TiO_2 hollow spheres toward visible light-active photocatalytic conversion of CO_2 into solar fuel. <i>APL Materials</i> , 2015, 3, .	2.2	59
66	Ultrathin Z-scheme 2D/2D N-doped HTiNbO_5 nanosheets/ $\text{g-C}_3\text{N}_4$ porous composites for efficient photocatalytic degradation and H_2 generation under visible light. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 58-70.	5.0	59
67	Structure and energetics of low-index stoichiometric monoclinic clinobisvanite BiVO_4 surfaces. <i>RSC Advances</i> , 2011, 1, 874.	1.7	58
68	Silicon Photoanodes Partially Covered by Ni@Ni(OH)_2 Core-Shell Particles for Photoelectrochemical Water Oxidation. <i>ChemSusChem</i> , 2017, 10, 2897-2903.	3.6	58
69	Fabrication of hierarchically assembled microspheres consisting of nanoporous ZnO nanosheets for high-efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 14341.	6.7	57
70	Anchoring of black phosphorus quantum dots onto WO_3 nanowires to boost photocatalytic CO_2 conversion into solar fuels. <i>Chemical Communications</i> , 2020, 56, 7777-7780.	2.2	57
71	Rational design of electrocatalysts for simultaneously promoting bulk charge separation and surface charge transfer in solar water splitting photoelectrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2568-2576.	5.2	56
72	Defect Engineering in Semiconductors: Manipulating Nonstoichiometric Defects and Understanding Their Impact in Oxynitrides for Solar Energy Conversion. <i>Advanced Functional Materials</i> , 2019, 29, 1808389.	7.8	56

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73	Super stable CsPbBr ₃ @SiO ₂ tumor imaging reagent by stress-response encapsulation. Nano Research, 2020, 13, 795-801.	5.8	55
74	Ultrafast Fenton-like reaction route to FeOOH/NiFe-LDH heterojunction electrode for efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 21785-21791.	5.2	55
75	Facile synthesis of anatase TiO ₂ mesocrystal sheets with dominant {001} facets based on topochemical conversion. CrystEngComm, 2010, 12, 3425.	1.3	54
76	Tuning the ion permeability of an Al ₂ O ₃ coating layer on Fe ₂ O ₃ photoanodes for improved photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2017, 5, 8402-8407.	5.2	54
77	In-Situ Formed Hydroxide Accelerating Water Dissociation Kinetics on Co ₃ N for Hydrogen Production in Alkaline Solution. ACS Applied Materials & Interfaces, 2018, 10, 22102-22109.	4.0	54
78	Coarsening of one-step deposited organolead triiodide perovskite films via Ostwald ripening for high efficiency planar-heterojunction solar cells. Dalton Transactions, 2016, 45, 7856-7865.	1.6	53
79	Polymerizable complex synthesis of BaZr _{1-x} Sn _x O ₃ photocatalysts: Role of Sn ⁴⁺ in the band structure and their photocatalytic water splitting activities. Journal of Materials Chemistry, 2010, 20, 6772.	6.7	52
80	Unlocking the potential of graphene for water oxidation using an orbital hybridization strategy. Energy and Environmental Science, 2018, 11, 407-416.	15.6	52
81	Schottky junction effect enhanced plasmonic photocatalysis by TaON@Ni NP heterostructures. Chemical Communications, 2019, 55, 11754-11757.	2.2	52
82	In Situ-Grown Island-Shaped Hollow Graphene on TaON with Spatially Separated Active Sites Achieving Enhanced Visible-Light CO ₂ Reduction. ACS Catalysis, 2020, 10, 15083-15091.	5.5	51
83	Stable response to visible light of InGaN photoelectrodes. Applied Physics Letters, 2008, 92, 262110.	1.5	50
84	Photocurrent improvement in nanocrystalline Cu ₂ ZnSnS ₄ photocathodes by introducing porous structures. Journal of Materials Chemistry A, 2013, 1, 15479.	5.2	50
85	One-step growth of 3D CoNi ₂ S ₄ nanorods and cross-linked NiCo ₂ S ₄ nanosheet arrays on carbon paper as anodes for high-performance lithium ion batteries. Chemical Communications, 2016, 52, 5258-5261.	2.2	49
86	Laser-assisted crystallization of CH ₃ NH ₃ PbI ₃ films for efficient perovskite solar cells with a high open-circuit voltage. Chemical Communications, 2016, 52, 5394-5397.	2.2	49
87	Mg-doped Ta ₃ N ₅ nanorods coated with a conformal CoOOH layer for water oxidation: bulk and surface dual modification of photoanodes. Journal of Materials Chemistry A, 2017, 5, 20439-20447.	5.2	49
88	Inhibiting Hydrogen Evolution using a Chloride Adlayer for Efficient Electrochemical CO ₂ Reduction on Zn Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 4565-4571.	4.0	49
89	Passivation Strategy of Reducing Both Electron and Hole Trap States for Achieving High-Efficiency PbS Quantum-Dot Solar Cells with Power Conversion Efficiency over 12%. ACS Energy Letters, 2020, 5, 3224-3236.	8.8	49
90	Symbiotic Algae-Bacteria Dressing for Producing Hydrogen to Accelerate Diabetic Wound Healing. Nano Letters, 2022, 22, 229-237.	4.5	48

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91	Oriented Growth of Sc-Doped Ta ₃ N ₅ Nanorod Photoanode Achieving Low-Onset-Potential for Photoelectrochemical Water Oxidation. ACS Applied Energy Materials, 2018, 1, 4150-4157.	2.5	46
92	Promotion effect of metal phosphides towards electrocatalytic and photocatalytic water splitting. EcoMat, 2021, 3, e12097.	6.8	46
93	Barium zirconate: a new photocatalyst for converting CO ₂ into hydrocarbons under UV irradiation. Catalysis Science and Technology, 2015, 5, 1758-1763.	2.1	44
94	Polymerizable ionic liquid as a precursor for N, P co-doped carbon toward the oxygen reduction reaction. Catalysis Science and Technology, 2018, 8, 1142-1150.	2.1	44
95	Direct storage of holes in ultrathin Ni(OH) ₂ on Fe ₂ O ₃ photoelectrodes for integrated solar charging battery-type supercapacitors. Journal of Materials Chemistry A, 2018, 6, 21360-21367.	5.2	44
96	Modulation of Disordered Coordination Degree Based on Surface Defective Metal-Organic Framework Derivatives toward Boosting Oxygen Evolution Electrocatalysis. Small, 2020, 16, e2003630.	5.2	44
97	Interface-Engineered Ni(OH) ₂ /FeOOH Electrocatalysts for Highly Efficient and Stable Oxygen Evolution Reaction. Chemistry - an Asian Journal, 2017, 12, 2720-2726.	1.7	43
98	Understanding the enhanced catalytic activity of high entropy alloys: from theory to experiment. Journal of Materials Chemistry A, 2021, 9, 19410-19438.	5.2	43
99	A transparent Ti ⁴⁺ doped hematite photoanode protectively grown by a facile hydrothermal method. CrystEngComm, 2013, 15, 2386.	1.3	42
100	Three-Dimensional Hierarchical Architectures Derived from Surface-Mounted Metal-Organic Framework Membranes for Enhanced Electrocatalysis. Angewandte Chemie, 2017, 129, 13969-13973.	1.6	42
101	Multilayer structure with gradual increasing porosity for dye-sensitized solar cells. Applied Physics Letters, 2009, 94, 031905.	1.5	41
102	Direct Growth of Fe ₂ V ₄ O ₁₃ Nanoribbons on a Stainless Steel Mesh for Visible-Light Photoreduction of CO ₂ into Renewable Hydrocarbon Fuel and Degradation of Gaseous Isopropyl Alcohol. ChemPlusChem, 2013, 78, 274-278.	1.3	41
103	Formation mechanism of ZnS impurities and their effect on photoelectrochemical properties on a Cu ₂ ZnSnS ₄ photocathode. CrystEngComm, 2014, 16, 2929.	1.3	41
104	Flux synthesis of regular Bi ₄ Ta ₈ Cl square nanoplates exhibiting dominant exposure surfaces of {001} crystal facets for photocatalytic reduction of CO ₂ to methane. Nanoscale, 2018, 10, 1905-1911.	2.8	41
105	State-of-the-Art Progress in Diverse Black Phosphorus-Based Structures: Basic Properties, Synthesis, Stability, Photo- and Electrocatalysis-Driven Energy Conversion. Advanced Functional Materials, 2021, 31, 2005197.	7.8	40
106	Fiber dye-sensitized solar cells consisting of TiO ₂ nanowires arrays on Ti thread as photoanodes through a low-cost, scalable route. Journal of Materials Chemistry A, 2013, 1, 11790.	5.2	38
107	Ultralong metahewettite CaV ₆ O ₁₆ ·3H ₂ O nanoribbons as novel host materials for lithium storage: Towards high-rate and excellent long-term cyclability. Nano Energy, 2016, 22, 38-47.	8.2	38
108	Bi ₂ MoO ₆ Nanostrip Networks for Enhanced Visible-Light Photocatalytic Reduction of CO ₂ to CH ₄ . ChemPhysChem, 2017, 18, 3240-3244.	1.0	38

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109	Interface Manipulation to Improve Plasmon-Coupled Photoelectrochemical Water Splitting on Fe_2O_3 Photoanodes. <i>ChemSusChem</i> , 2018, 11, 237-244.	3.6	38
110	Lead Selenide Colloidal Quantum Dot Solar Cells Achieving High Open-Circuit Voltage with One-Step Deposition Strategy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3598-3603.	2.1	38
111	Paving the road toward the use of Fe_2O_3 in solar water splitting: Raman identification, phase transformation and strategies for phase stabilization. <i>National Science Review</i> , 2020, 7, 1059-1067.	4.6	38
112	Polyimide-based photocatalysts: rational design for energy and environmental applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14441-14462.	5.2	38
113	Hollow InVO_4 Nanocuboid Assemblies toward Promoting Photocatalytic N_2 Conversion Performance. <i>Advanced Materials</i> , 2021, 33, e2006780.	11.1	38
114	Boosting the hydrogen evolution performance of a ternary $\text{Mo}_x\text{Co}_{1-x}\text{P}$ nanowire array by tuning the Mo/Co ratio. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14842-14848.	5.2	36
115	Molecule-induced gradient electronic potential distribution on a polymeric photocatalyst surface and improved photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5142.	5.2	35
116	Vitamin E assisted polymer electrolyte fuel cells. <i>Energy and Environmental Science</i> , 2014, 7, 3362-3370.	15.6	35
117	Enhanced photoelectrolysis of water with photoanode Nb:SrTiO_3 . <i>Applied Physics Letters</i> , 2004, 85, 689-691.	1.5	34
118	ZnO plates synthesized from the ammonium zinc nitrate hydroxide precursor. <i>CrystEngComm</i> , 2012, 14, 154-159.	1.3	34
119	Aging Precursor Solution in High Humidity Remarkably Promoted Grain Growth in $\text{Cu}_2\text{ZnSnS}_4$ Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5432-5438.	4.0	34
120	Surface chemistry imposes selective reduction of CO_2 to CO over $\text{Ta}_3\text{N}_5/\text{LaTiO}_2\text{N}$ photocatalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14838-14846.	5.2	34
121	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2020, 132, 1628-1635.	1.6	34
122	Curing the fundamental issue of impurity phases in two-step solution-processed CsPbBr_3 perovskite films. <i>Science Bulletin</i> , 2020, 65, 726-737.	4.3	34
123	2D Titanium/Niobium Metal Oxide-Based Materials for Photocatalytic Application. <i>Solar Rrl</i> , 2020, 4, 2000070.	3.1	34
124	Selective etching of metastable phase induced an efficient $\text{CuIn}_{0.7}\text{Ga}_{0.3}\text{S}_2$ nano-photocathode for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7840-7848.	5.2	33
125	Electrocatalytic fixation of N_2 into NO_3^- : electron transfer between oxygen vacancies and loaded Au in Nb_2O_5 nanobelts to promote ambient nitrogen oxidation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17442-17450.	5.2	33
126	Material Design and Surface/Interface Engineering of Photoelectrodes for Solar Water Splitting. <i>Solar Rrl</i> , 2021, 5, 2100100.	3.1	33

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127	Photooxidation of Polycyclic Aromatic Hydrocarbons over NaBiO ₃ under Visible Light Irradiation. <i>Catalysis Letters</i> , 2008, 122, 131-137.	1.4	31
128	Generalized synthesis of a family of multishelled metal oxide hollow microspheres. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3575.	5.2	31
129	Back Electron Transfer at TiO ₂ Nanotube Photoanodes in the Presence of a H ₂ O ₂ Hole Scavenger. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33887-33895.	4.0	31
130	Host/Guest Nanostructured Photoanodes Integrated with Targeted Enhancement Strategies for Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2022, 9, e2103744.	5.6	31
131	Highly selective electrochemical CO ₂ reduction to CO using a redox-active couple on low-crystallinity mesoporous ZnGa ₂ O ₄ catalyst. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9316-9323.	5.2	30
132	<i>In situ</i> construction of a 2D/2D heterostructured ZnIn ₂ S ₄ /Bi ₂ MoO ₆ Z-scheme system for boosting the photoreduction activity of Cr(VI). <i>Catalysis Science and Technology</i> , 2021, 11, 3885-3893.	2.1	30
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