Zou Zhigang

List of Publications by Year
in descending order

284 papers	15,657 citations	19657 61 h-index	22832 112 g-index
288 all docs	288 docs citations	288 times ranked	16233 citing authors

#	Article	IF	Citations
1	An Extrinsic Faradaic Layer on CuSn for High-Performance Electrocatalytic CO ₂ Reduction. CCS Chemistry, 2022, 4, 1610-1618.	7.8	12
2	Photosynthetic microorganisms coupled photodynamic therapy for enhanced antitumor immune effect. Bioactive Materials, 2022, 12, 97-106.	15.6	23
3	Selectively triggering photoelectrons for CO₂ to CH₄ reduction over SrTiO₃ {110} facet with dual-metal sites. Nanotechnology, 2022, 33, 100401.	2.6	4
4	Host/Guest Nanostructured Photoanodes Integrated with Targeted Enhancement Strategies for Photoelectrochemical Water Splitting. Advanced Science, 2022, 9, e2103744.	11.2	31
5	Effects of Co Doping on the Growth and Photocatalytic Properties of ZnO Particles. Molecules, 2022, 27, 833.	3.8	6
6	A high-voltage solar rechargeable device based on a CoPi/BiVO₄ faradaic junction. Journal of Materials Chemistry A, 2022, 10, 1802-1807.	10.3	6
7	Variable-valence ion and heterointerface accelerated electron transfer kinetics of electrochemical water splitting. Journal of Materials Chemistry A, 2022, 10, 12391-12399.	10.3	21
8	General synthesis of high-entropy alloy and ceramic nanoparticles in nanoseconds. , 2022, 1, 138-146.		91
9	Heatâ€"Electricity Coupling Driven Cascade Oxidation Reaction of Redox Couple and Water. Journal of Physical Chemistry Letters, 2022, 13, 49-57.	4.6	8
10	Effects of transition metal doping on electronic structure of metastable Î²-Fe₂O₃ photocatalyst for solar-to-hydrogen conversion. Physical Chemistry Chemical Physics, 2022, 24, 6958-6963.	2.8	3
11	FeVO₄ nanowires for efficient photocatalytic CO₂ reduction. Catalysis Science and Technology, 2022, 12, 3289-3294.	4.1	12
12	In situgrowth of MOF-derived sulfur vacancy-rich CdS nanoparticles on 2D polymers for highly efficient photocatalytic hydrogen generation. Dalton Transactions, 2022, 51, 5841-5858.	3.3	17
13	N-Doped Graphene-Coated Commercial Pt/C Catalysts toward High-Stability and Antipoisoning in Oxygen Reduction Reaction. Journal of Physical Chemistry Letters, 2022, 13, 2019-2026.	4.6	18
14	Bandgap Engineering and Oxygen Vacancies of Ni_xV₂O_{5+x} (xâ€‰=â€‰1, 2, 3) for Efficient Visible Lightâ€Driven CO₂ to CO with Nearly 100% Selectivity. Solar Rrl, 2022, 6, .	5.8	8
15	Single Pdâ€"S_x Sites In Situ Coordinated on CdS Surface as Efficient Hydrogen Autotransfer Shuttles for Highly Selective Visible-Light-Driven Câ€"N Coupling. ACS Catalysis, 2022, 12, 4481-4490.	11.2	28
16	A Waterâ€Soluble Highly Oxidizing Cobalt Molecular Catalyst Designed for Bioinspired Water Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	13.8	13
17	Symbiotic Algaeâ€"Bacteria Dressing for Producing Hydrogen to Accelerate Diabetic Wound Healing. Nano Letters, 2022, 22, 229-237.	9.1	48
18	Boosting O₂ Reduction and H₂O Dehydrogenation Kinetics: Surface Nâ€Hydroxymethylation of gâ€C₃N₄ Photocatalysts for the Efficient Production of H₂O₂. Advanced Functional Materials, 2022, 32, .	14.9	76

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19	Molybdenum Sulfide Quantum Dots Decorated on TiO₂ for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2022, 5, 702-709.	5.0	8
20	Boosting photocatalytic CO₂ reduction via Schottky junction with ZnCr layered double hydroxide nanoflakes aggregated on 2D Ti₃C₂T_x cocatalyst. Nanoscale, 2022, 14, 7538-7546.	5.6	20
21	In-situ synthesis of nickel/palladium bimetal/ZnIn2S4 Schottky heterojunction for efficient photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 623, 205-215.	9.4	29
22	Extraterrestrial photosynthesis by Changâ€™E-5 lunar soil. Joule, 2022, 6, 1008-1014.	24.0	15
23	Deactivation and Stabilization Mechanism of Photothermal CO₂ Hydrogenation over Black TiO₂. ACS Sustainable Chemistry and Engineering, 2022, 10, 6382-6388.	6.7	16
24	Photovoltage memory effect in a portable Faradaic junction solar rechargeable device. Nature Communications, 2022, 13, 2544.	12.8	11
25	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO2. Nature Communications, 2022, 13, 2806.	12.8	89
26	Construction of unique heterojunction photoanodes through in situ quasi-epitaxial growth of FeVO₄ on Fe₂O₃ nanorod arrays for enhanced photoelectrochemical performance. Catalysis Science and Technology, 2022, 12, 4372-4379.	4.1	4
27	Heatâ€Triggered Ferriâ€toâ€Paramagnetic Transition Accelerates Redox Coupleâ€Mediated Electrocatalytic Water Oxidation. Advanced Functional Materials, 2022, 32, .	14.9	8
28	Homogeneous solution assembled Turing structures with near zero strain semi-coherence interface. Nature Communications, 2022, 13, .	12.8	13
29	An energy level alignment strategy to boost the open-circuit voltage via a Mg:TiO2 compact layer in the planar heterojunction CsPbBr3 solar cells. Applied Physics Letters, 2022, 120, .	3.3	5
30	Centimeter-scale perovskite SrTaO2N single crystals with enhanced photoelectrochemical performance. Science Bulletin, 2022, 67, 1458-1466.	9.0	6
31	Exploring N-Containing Compound Catalyst for H2S Selective Oxidation: Case Study of TaON and Ta3N5. Catalysis Letters, 2021, 151, 1728-1737.	2.6	2
32	A Capacitorâ€type Faradaic Junction for Direct Solar Energy Conversion and Storage. Angewandte Chemie - International Edition, 2021, 60, 1390-1395.	13.8	19
33	A Capacitorâ€type Faradaic Junction for Direct Solar Energy Conversion and Storage. Angewandte Chemie, 2021, 133, 1410-1415.	2.0	1
34	Beyond C₃N₄ Ï€-conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. Chemical Society Reviews, 2021, 50, 2147-2172.	38.1	118
35	Stateâ€ofâ€theâ€Art Progress in Diverse Black Phosphorusâ€Based Structures: Basic Properties, Synthesis, Stability, Photoâ€and Electrocatalysisâ€Driven Energy Conversion. Advanced Functional Materials, 2021, 31, 2005197.	14.9	40
36	Ultrathin Z-scheme 2D/2D N-doped HTiNbO5 nanosheets/g-C3N4 porous composites for efficient photocatalytic degradation and H2 generation under visible light. Journal of Colloid and Interface Science, 2021, 583, 58-70.	9.4	59

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37	Shedding light on <scp>CO₂</scp>: Catalytic synthesis of solar methanol. EcoMat, 2021, 3, e12078.	11.9	13
38	Bimetallic oxyhydroxidein situderived from an Fe₂Co-MOF for efficient electrocatalytic oxygen evolution. Journal of Materials Chemistry A, 2021, 9, 13271-13278.	10.3	27
39	Simple fabrication of Z-scheme MgIn₂S₄/Bi₂WO₆ hierarchical heterostructures for enhancing photocatalytic reduction of Cr(<scp>vi</scp>). Catalysis Science and Technology, 2021, 11, 6271-6280.	4.1	15
40	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.	10.3	55
41	Electrocatalytic fixation of N₂ into NO₃^{â^'}: electron transfer between oxygen vacancies and loaded Au in Nb₂O_{5â^'x} nanobelts to promote ambient nitrogen oxidation. Journal of Materials Chemistry A, 2021, 9, 17442-17450.	10.3	33
42	Do Cu Substrates Participate in Bi Electrocatalytic CO₂ Reduction?. ChemNanoMat, 2021, 7, 128-133.	2.8	6
43	Understanding the enhanced catalytic activity of high entropy alloys: from theory to experiment. Journal of Materials Chemistry A, 2021, 9, 19410-19438.	10.3	43
44	Î±-Fe₂O₃/Ag/CdS ternary heterojunction photoanode for efficient solar water oxidation. Catalysis Science and Technology, 2021, 11, 5859-5867.	4.1	7
45	A strategy of asymmetric local structure based on mesoporous MoO₂ toward efficient electrocatalysis. Chemical Communications, 2021, 57, 7834-7837.	4.1	3
46	Visible-light-responsive Z-scheme system for photocatalytic lignocellulose-to-H₂ conversion. Chemical Communications, 2021, 57, 9898-9901.	4.1	12
47	Layered BiOCl/H⁺TiNbO₅^{â^'} heterojunctions for boosting visible-light-driven photocatalytic RhB degradation. Sustainable Energy and Fuels, 2021, 5, 4680-4689.	4.9	14
48	Photocatalytic and Thermocatalytic Conversion of Methane. Solar Rrl, 2021, 5, 2000596.	5.8	16
49	Photocatalytic Hydrogen Production by Stable CsPbBr₃@PANI Nanoparticles in Aqueous Solution. ChemCatChem, 2021, 13, 1711-1716.	3.7	15
50	Ureaâ€Assisted Synthesis and Tailoring Cobalt Cores for Synergetic Promotion of Hydrogen Evolution Reaction in Acid and Alkaline Media. Advanced Energy and Sustainability Research, 2021, 2, 2000091.	5.8	5
51	Promotion effect of metal phosphides towards electrocatalytic and photocatalytic water splitting. EcoMat, 2021, 3, e12097.	11.9	46
52	Material Design and Surface/Interface Engineering of Photoelectrodes for Solar Water Splitting. Solar Rrl, 2021, 5, 2100100.	5.8	33
53	Elegant Construction of ZnIn₂S₄/BiVO₄ Hierarchical Heterostructures as Direct Z-Scheme Photocatalysts for Efficient CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2021, 13, 15092-15100.	8.0	115
54	3D Hydrangeaâ€like InVO₄/Ti₃C₂T_x Hierarchical Heterosystem Collaborating with 2D/2D Interface Interaction for Enhanced Photocatalytic CO₂ Reduction. ChemNanoMat, 2021, 7, 815-823.	2.8	14

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55	Direct Observation of Heterogeneous Surface Reactivity and Reconstruction on Terminations of Grain Boundaries of Platinum. , 2021, 3, 622-629.		14
56	An ultraviolet-ozone post-treatment to remove the inherent impurities in all-ambient solution-processed CsPbBr3 perovskite films. Applied Physics Letters, 2021, 118, 221604.	3.3	5
57	Suppressing the Defects in CsPbI2Br Perovskite Photovoltaic Films via a Homogeneous Cap-Mediated Annealing Strategy. Energy & Fuels, 2021, 35, 11488-11495.	5.1	4
58	Extraterrestrial artificial photosynthetic materials for in-situ resource utilization. National Science Review, 2021, 8, nwab104.	9.5	17
59	Robust Molecular Dipoleâ€Enabled Defect Passivation and Control of Energyâ€Level Alignment for Highâ€Efficiency Perovskite Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 17664-17670.	13.8	69
60	Direct Electrochemical Protonation of Metal Oxide Particles. Journal of the American Chemical Society, 2021, 143, 9236-9243.	13.7	25
61	Solarâ€Driven Lignocelluloseâ€toâ€H₂ Conversion in Water using 2Dâ€2D MoS₂/TiO₂ Photocatalysts. ChemSusChem, 2021, 14, 2860-2865.	6.8	27
62	Advancing solar energy conversion materials: fuel the future. National Science Review, 2021, 8, nwab128.	9.5	2
63	Vacancy-defect modulated pathway of photoreduction of CO2 on single atomically thin AgInP2S6 sheets into olefiant gas. Nature Communications, 2021, 12, 4747.	12.8	128
64	Hollow InVO₄ Nanocuboid Assemblies toward Promoting Photocatalytic N₂ Conversion Performance. Advanced Materials, 2021, 33, e2006780.	21.0	38
65	2D Highâ€Entropy Hydrotalcites. Small, 2021, 17, e2103412.	10.0	27
66	Vertical Graphene Arrays as Electrodes for Ultraâ€High Energy Density AC Lineâ€Filtering Capacitors. Angewandte Chemie, 2021, 133, 24710-24714.	2.0	7
67	In situ construction of a 2D/2D heterostructured ZnIn₂S₄/Bi₂MoO₆Z-scheme system for boosting the photoreduction activity of Cr(<scp>vi</scp>). Catalysis Science and Technology, 2021, 11, 3885-3893.	4.1	30
68	Lanthanum bismuth oxide photocatalysts for CO₂reduction to CO with high selectivity. Sustainable Energy and Fuels, 2021, 5, 2688-2694.	4.9	6
69	Carrier Mobility Enhancement in (121)-Oriented CsPbBr₃ Perovskite Films Induced by the Microstructure Tailoring of PbBr₂ Precursor Films. ACS Applied Electronic Materials, 2021, 3, 373-384.	4.3	30
70	Constructing spin pathways in LaCoO3 by Mn substitution to promote oxygen evolution reaction. Applied Physics Letters, 2021, 119, .	3.3	12
71	Thermally Stable Allâ€Perovskite Tandem Solar Cells Fully Using Metal Oxide Charge Transport Layers and Tunnel Junction. Solar Rrl, 2021, 5, 2100814.	5.8	24
72	Direct Z-scheme hierarchical heterostructures of oxygen-doped g-C₃N₄/In₂S₃ with efficient photocatalytic Cr(<scp>vi</scp>) reduction activity. Catalysis Science and Technology, 2021, 11, 7963-7972.	4.1	13

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73	Faradaic junction and isoenergetic charge transfer mechanism on semiconductor/semiconductor interfaces. Nature Communications, 2021, 12, 6363.	12.8	14
74	In Situ Determination of Polaron-Mediated Ultrafast Electron Trapping in Rutile TiO₂ Nanorod Photoanodes. Journal of Physical Chemistry Letters, 2021, 12, 10815-10822.	4.6	14
75	Bismuth Vacancy-Induced Efficient CO₂ Photoreduction in BiOCl Directly from Natural Air: A Progressive Step toward Photosynthesis in Nature. Nano Letters, 2021, 21, 10260-10266.	9.1	74
76	Spin unlocking oxygen evolution reaction on antiperovskite nitrides. Journal of Materials Chemistry A, 2021, 9, 25435-25444.	10.3	19
77	Unconventional Route to Oxygenâ€Vacancyâ€Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 1611-1618.	13.8	104
78	Unconventional Route to Oxygenâ€Vacancyâ€Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. Angewandte Chemie, 2020, 132, 1628-1635.	2.0	34
79	Inhibiting Hydrogen Evolution using a Chloride Adlayer for Efficient Electrochemical CO₂ Reduction on Zn Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 4565-4571.	8.0	49
80	Silicon Photoanode Modified with Workâ€functionâ€tuned Ni@Fe_yNi_{1â^'y}(OH)₂ Coreâ€Shell Particles for Water Oxidation. ChemSusChem, 2020, 13, 6037-6044.	6.8	11
81	ALD-grown oxide protective layers on Ta3N5â€“Cu2O nâ€“p nanoarray heterojunction for improved photoelectrochemical water splitting. Applied Physics Letters, 2020, 117, 163902.	3.3	13
82	Curing the fundamental issue of impurity phases in two-step solution-processed CsPbBr3 perovskite films. Science Bulletin, 2020, 65, 726-737.	9.0	34
83	Modulation of Disordered Coordination Degree Based on Surface Defective Metalâ€“Organic Framework Derivatives toward Boosting Oxygen Evolution Electrocatalysis. Small, 2020, 16, e2003630.	10.0	44
84	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.	17.4	49
85	In Situ-Grown Island-Shaped Hollow Graphene on TaON with Spatially Separated Active Sites Achieving Enhanced Visible-Light CO₂ Reduction. ACS Catalysis, 2020, 10, 15083-15091.	11.2	51
86	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured Î±-Fe₂O₃/g-C₃N₄ Z-Scheme System for Efficient CO₂ Reduction into Solar Fuels. ACS Applied Energy Materials, 2020, 3, 6561-6572.	5.1	67
87	Anchoring of black phosphorus quantum dots onto WO₃ nanowires to boost photocatalytic CO₂ conversion into solar fuels. Chemical Communications, 2020, 56, 7777-7780.	4.1	57
88	Mildly regulated intrinsic faradaic layer at the oxide/water interface for improved photoelectrochemical performance. Chemical Science, 2020, 11, 6297-6304.	7.4	15
89	Reversible Charge Transfer and Adjustable Potential Window in Semiconductor/Faradaic Layer/Liquid Junctions. IScience, 2020, 23, 100949.	4.1	17
90	CoS₂@N-doped carbon coreâ€“shell nanorod array grown on Ni foam for enhanced electrocatalytic water oxidation. Journal of Materials Chemistry A, 2020, 8, 6795-6803.	10.3	75

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91	Constructing N-Doped KNb3O8/g-C3N4 Composite for Efficient Photocatalytic H2 Generation and Degradation under Visible Light Irradiation. Catalysis Letters, 2020, 150, 2798-2806.	2.6	5
92	Few-Layer Black Phosphorus Nanosheets: A Metal-Free Cocatalyst for Photocatalytic Nitrogen Fixation. ACS Applied Materials & Interfaces, 2020, 12, 17343-17352.	8.0	74
93	Super stable CsPbBr3@SiO2 tumor imaging reagent by stress-response encapsulation. Nano Research, 2020, 13, 795-801.	10.4	55
94	Paving the road toward the use of Î²-Fe2O3 in solar water splitting: Raman identification, phase transformation and strategies for phase stabilization. National Science Review, 2020, 7, 1059-1067.	9.5	38
95	Polyimide-based photocatalysts: rational design for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 14441-14462.	10.3	38
96	Frontispiz: Unconventional Route to Oxygenâ€Vacancyâ€Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. Angewandte Chemie, 2020, 132, .	2.0	0
97	Suppression of Point Defects for Band Edge Engineering in a Semiconducting Photocatalyst. Journal of Physical Chemistry Letters, 2020, 11, 1708-1713.	4.6	11
98	Room Temperature Surface Modification of Ultrathin FeOOH Cocatalysts on Fe₂O₃ Photoanodes for High Photoelectrochemical Water Splitting. Journal of Nanomaterials, 2020, 2020, 1-7.	2.7	13
99	Frontispiece: Unconventional Route to Oxygenâ€Vacancyâ€Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, .	13.8	1
100	2D Titanium/Niobium Metal Oxideâ€Based Materials for Photocatalytic Application. Solar Rrl, 2020, 4, 2000070.	5.8	34
101	Simultaneous Optimization of Phase and Morphology of CsPbBr 3 Films via Controllable Ostwald Ripening by Ethylene Glycol Monomethylether/Isopropanol Biâ€Solvent Engineering. Advanced Engineering Materials, 2020, 22, 2000162.	3.5	19
102	Facile grafting strategy synthesis of single-atom electrocatalyst with enhanced ORR performance. Nano Research, 2020, 13, 1519-1526.	10.4	60
103	Polaron States as a Massive Electron-Transfer Pathway at Heterojunction Interface. Journal of Physical Chemistry Letters, 2020, 11, 9184-9194.	4.6	14
104	In situ preparation of Bi₂S₃ nanoribbon-anchored BiVO₄ nanoscroll heterostructures for the catalysis of Cr(<scp>vi</scp>) photoreduction. Catalysis Science and Technology, 2020, 10, 3843-3847.	4.1	14
105	Lowâ€Workâ€Function Silver Activating Nâ€doped Graphene as Efficient Oxygen Reduction Catalysts in Acidic Medium. ChemCatChem, 2019, 11, 1033-1038.	3.7	9
106	In situ formed oxy/hydroxide antennas accelerating the water dissociation kinetics on a Co@N-doped carbon coreâ€"shell assembly for hydrogen production in alkaline solution. Dalton Transactions, 2019, 48, 11927-11933.	3.3	6
107	Incorporating pâ€Phenylene as an Electronâ€Donating Group into Graphitic Carbon Nitride for Efficient Charge Separation. ChemSusChem, 2019, 12, 4285-4292.	6.8	22
108	Elegant Molecular Iodine/Antisolvent Solution Engineering To Tune the Fermi Level of Perovskite CH₃NH₃PbI₃. ACS Applied Energy Materials, 2019, 2, 5753-5758.	5.1	7

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109	Coâ€“P Bonds as Atomic-Level Charge Transfer Channel To Boost Photocatalytic H₂ Production of Co₂P/Black Phosphorus Nanosheets Photocatalyst. ACS Catalysis, 2019, 9, 7801-7807.	11.2	124
110	Ta₃N₅nanorods encapsulated into 3D hydrangea-like MoS₂for enhanced photocatalytic hydrogen evolution under visible light irradiation. Dalton Transactions, 2019, 48, 13176-13183.	3.3	27
111	Effect of Bulk Hydrogen on the Photocatalytic Activity of Semiconducting Ta₃N₅: A Hybrid-DFT Viewpoint. Journal of Physical Chemistry C, 2019, 123, 28763-28768.	3.1	7
112	Schottky junction effect enhanced plasmonic photocatalysis by TaON@Ni NP heterostructures. Chemical Communications, 2019, 55, 11754-11757.	4.1	52
113	Near 100% selectivity for visible-light-driven CO2 reduction to CH4 on a dual-metal site photocatalyst. Science China Chemistry, 2019, 62, 1553-1554.	8.2	5
114	Hollow BiVO4/Bi2S3 cruciate heterostructures with enhanced visible-light photoactivity. Catalysis Science and Technology, 2019, 9, 182-187.	4.1	13
115	Lewis acid activated CO₂ reduction over a Ni modified Niâ€“Ge hydroxide driven by visible-infrared light. Dalton Transactions, 2019, 48, 1672-1679.	3.3	12
116	Defect Engineering in Semiconductors: Manipulating Nonstoichiometric Defects and Understanding Their Impact in Oxynitrides for Solar Energy Conversion. Advanced Functional Materials, 2019, 29, 1808389.	14.9	56
117	Boosting the hydrogen evolution performance of a ternary Mo_xCo_{1â^'x}P nanowire array by tuning the Mo/Co ratio. Journal of Materials Chemistry A, 2019, 7, 14842-14848.	10.3	36
118	Three-Dimensional Functionalized Carbon Nanotubes/Graphitic Carbon Nitride Hybrid Composite as the Sulfur Host for High-Performance Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry C, 2019, 123, 15924-15934.	3.1	18
119	Design Principles for Construction of Charge Transport Channels in Particle-Assembled Water-Splitting Photoelectrodes. ACS Sustainable Chemistry and Engineering, 2019, 7, 10509-10515.	6.7	13
120	An Integrated Single-Electrode Method Reveals the Template Roles of Atomic Steps: Disturb Interfacial Water Networks and Thus Affect the Reactivity of Electrocatalysts. Journal of the American Chemical Society, 2019, 141, 8516-8526.	13.7	20
121	Porphyrinâ€containing Polyimide with Enhanced Light Absorption and Photocatalysis Activity. Chemistry - an Asian Journal, 2019, 14, 2138-2148.	3.3	23
122	Highly selective electrochemical CO₂ reduction to CO using a redox-active couple on low-crystallinity mesoporous ZnGa₂O₄ catalyst. Journal of Materials Chemistry A, 2019, 7, 9316-9323.	10.3	30
123	Interfacial Effects on the Band Edges of Ta3N5 Photoanodes in an Aqueous Environment: A Theoretical View. IScience, 2019, 13, 432-439.	4.1	10
124	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO₄ Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO₂ into CO. Journal of the American Chemical Society, 2019, 141, 4209-4213.	13.7	199
125	Ultrathin nanosheet-anchored hexahedral prismatic Bi₂MoO₆ arrays: one-step constructed and crystal facet-based homojunctions boosting photocatalytic CO₂ reduction and N₂ fixation. Catalysis Science and Technology, 2019, 9, 7045-7050.	4.1	11
126	Silicon photoanodes partially covered by Ni@Fe core-shell particles with in situ formed gradient-enhanced junction electric field for photoelectrochemical water oxidation. Applied Physics Letters, 2019, 115, .	3.3	4

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127	Core-Shell Heterostructured and Visible-Light-Driven Titanoniobate/TiO2 Composite for Boosting Photodegradation Performance. Nanomaterials, 2019, 9, 1503.	4.1	6
128	Heterogeneous degradation of organic contaminants in the photo-Fenton reaction employing pure cubic Î²-Fe2O3. Applied Catalysis B: Environmental, 2019, 245, 410-419.	20.2	107
129	Carbon Nanotube@RuO₂ as a High Performance Catalyst for Liâ€"CO₂ Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5146-5151.	8.0	70
130	Reactive Inorganic Vapor Deposition of Perovskite Oxynitride Films for Solar Energy Conversion. Research, 2019, 2019, 9282674.	5.7	17
131	Oriented attachment growth of hundred-nanometer-size LaTaON₂ single crystals in molten salts for enhanced photoelectrochemical water splitting. Journal of Materials Chemistry A, 2018, 6, 7706-7713.	10.3	26
132	Tuning spontaneous polarization to alter water oxidation/reduction activities of LiNbO3. Applied Physics Letters, 2018, 112, .	3.3	11
133	Solvothermal synthesis of porous conjugated polymer with high surface area for efficient adsorption of organic and biomolecules. Journal of Porous Materials, 2018, 25, 1659-1668.	2.6	5
134	Flux synthesis of regular Bi₄TaO₈Cl square nanoplates exhibiting dominant exposure surfaces of {001} crystal facets for photocatalytic reduction of CO₂ to methane. Nanoscale, 2018, 10, 1905-1911.	5.6	41
135	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.	4.1	44
136	Rational design of electrocatalysts for simultaneously promoting bulk charge separation and surface charge transfer in solar water splitting photoelectrodes. Journal of Materials Chemistry A, 2018, 6, 2568-2576.	10.3	56
137	Controllable Conformation Transfer of Conjugated Polymer toward High Photoelectrical Performance: The Role of Solvent in Induced-Crystallization Route. Journal of Physical Chemistry C, 2018, 122, 1037-1043.	3.1	10
138	Unlocking the potential of graphene for water oxidation using an orbital hybridization strategy. Energy and Environmental Science, 2018, 11, 407-416.	30.8	52
139	Promoted photoelectrochemical activity of BiVO4 coupled with LaFeO3 and LaCoO3. Research on Chemical Intermediates, 2018, 44, 1013-1024.	2.7	10
140	Interface Manipulation to Improve Plasmonâ€Coupled Photoelectrochemical Water Splitting on Î±â€Fe₂O₃ Photoanodes. ChemSusChem, 2018, 11, 237-244.	6.8	38
141	Polyhedral 30â€Faceted BiVO₄ Microcrystals Predominantly Enclosed by Highâ€Index Planes Promoting Photocatalytic Waterâ€Splitting Activity. Advanced Materials, 2018, 30, 1703119.	21.0	155
142	Oxygen-Vacancy-Activated CO₂ Splitting over Amorphous Oxide Semiconductor Photocatalyst. ACS Catalysis, 2018, 8, 516-525.	11.2	126
143	Tandem photoelectrochemical cells for solar water splitting. Advances in Physics: X, 2018, 3, 1487267.	4.1	25
144	Two-Step Synthesis of Laminar Vanadate via a Facile Hydrothermal Route and Enhancing the Photocatalytic Reduction of CO₂ into Solar Fuel through Tuning of the Oxygen Vacancies by in Situ Vacuum Illumination Treatment. ACS Applied Energy Materials, 2018, 1, 6857-6864.	5.1	9

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145	Direct storage of holes in ultrathin Ni(OH)₂ on Fe₂O₃ photoelectrodes for integrated solar charging battery-type supercapacitors. Journal of Materials Chemistry A, 2018, 6, 21360-21367.	10.3	44
146	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.	5.0	79
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