

Zou Zhigang

List of Publications by Year in descending order

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284
papers

15,657
citations

19608

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all docs

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16233
citing authors

#	ARTICLE	IF	CITATIONS
1	An Extrinsic Faradaic Layer on CuSn for High-Performance Electrocatalytic CO ₂ Reduction. <i>CCS Chemistry</i> , 2022, 4, 1610-1618.	4.6	12
2	Photosynthetic microorganisms coupled photodynamic therapy for enhanced antitumor immune effect. <i>Bioactive Materials</i> , 2022, 12, 97-106.	8.6	23
3	Selectively triggering photoelectrons for CO ₂ to CH ₄ reduction over SrTiO ₃ {110} facet with dual-metal sites. <i>Nanotechnology</i> , 2022, 33, 100401.	1.3	4
4	Host/Guest Nanostructured Photoanodes Integrated with Targeted Enhancement Strategies for Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2022, 9, e2103744.	5.6	31
5	Effects of Co Doping on the Growth and Photocatalytic Properties of ZnO Particles. <i>Molecules</i> , 2022, 27, 833.	1.7	6
6	A high-voltage solar rechargeable device based on a CoPi/BiVO ₄ faradaic junction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1802-1807.	5.2	6
7	Variable-valence ion and heterointerface accelerated electron transfer kinetics of electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12391-12399.	5.2	21
8	General synthesis of high-entropy alloy and ceramic nanoparticles in nanoseconds. , 2022, 1, 138-146.		91
9	Heat-Driven Electricity Coupling Driven Cascade Oxidation Reaction of Redox Couple and Water. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 49-57.	2.1	8
10	Effects of transition metal doping on electronic structure of metastable γ -Fe ₂ O ₃ photocatalyst for solar-to-hydrogen conversion. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6958-6963.	1.3	3
11	FeVO ₄ nanowires for efficient photocatalytic CO ₂ reduction. <i>Catalysis Science and Technology</i> , 2022, 12, 3289-3294.	2.1	12
12	In situ growth of MOF-derived sulfur vacancy-rich CdS nanoparticles on 2D polymers for highly efficient photocatalytic hydrogen generation. <i>Dalton Transactions</i> , 2022, 51, 5841-5858.	1.6	17
13	N-Doped Graphene-Coated Commercial Pt/C Catalysts toward High-Stability and Antipoisoning in Oxygen Reduction Reaction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2019-2026.	2.1	18
14	Bandgap Engineering and Oxygen Vacancies of Ni _x V ₂ O ₅ (<i>x</i> = 1, 2, 3) for Efficient Visible Light-Driven CO ₂ to CO with Nearly 100% Selectivity. <i>Solar Rrl</i> , 2022, 6, .	3.1	8
15	Single Pd ^S Sites In Situ Coordinated on CdS Surface as Efficient Hydrogen Autotransfer Shuttles for Highly Selective Visible-Light-Driven N Coupling. <i>ACS Catalysis</i> , 2022, 12, 4481-4490.	5.5	28
16	A Water-Soluble Highly Oxidizing Cobalt Molecular Catalyst Designed for Bioinspired Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
17	Symbiotic Algae-Bacteria Dressing for Producing Hydrogen to Accelerate Diabetic Wound Healing. <i>Nano Letters</i> , 2022, 22, 229-237.	4.5	48
18	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 . <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	76

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19	Molybdenum Sulfide Quantum Dots Decorated on TiO ₂ for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2022, 5, 702-709.	2.4	8
20	Boosting photocatalytic CO ₂ reduction <i>via</i> Schottky junction with ZnCr layered double hydroxide nanoflakes aggregated on 2D Ti ₃ C ₂ T _x cocatalyst. Nanoscale, 2022, 14, 7538-7546.	2.8	20
21	In-situ synthesis of nickel/palladium bimetal/ZnIn ₂ S ₄ Schottky heterojunction for efficient photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2022, 623, 205-215.	5.0	29
22	Extraterrestrial photosynthesis by Changâ€™s lunar soil. Joule, 2022, 6, 1008-1014.	11.7	15
23	Deactivation and Stabilization Mechanism of Photothermal CO ₂ Hydrogenation over Black TiO ₂ . ACS Sustainable Chemistry and Engineering, 2022, 10, 6382-6388.	3.2	16
24	Photovoltage memory effect in a portable Faradaic junction solar rechargeable device. Nature Communications, 2022, 13, 2544.	5.8	11
25	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO ₂ . Nature Communications, 2022, 13, 2806.	5.8	89
26	Construction of unique heterojunction photoanodes through <i>in situ</i> quasi-epitaxial growth of FeVO ₄ on Fe ₂ O ₃ nanorod arrays for enhanced photoelectrochemical performance. Catalysis Science and Technology, 2022, 12, 4372-4379.	2.1	4
27	Heat-Triggered Ferri-Paramagnetic Transition Accelerates Redox Couple-Mediated Electrochemical Water Oxidation. Advanced Functional Materials, 2022, 32, .	7.8	8
28	Homogeneous solution assembled Turing structures with near zero strain semi-coherence interface. Nature Communications, 2022, 13, .	5.8	13
29	An energy level alignment strategy to boost the open-circuit voltage via a Mg:TiO ₂ compact layer in the planar heterojunction CsPbBr ₃ solar cells. Applied Physics Letters, 2022, 120, .	1.5	5
30	Centimeter-scale perovskite SrTaO ₂ N single crystals with enhanced photoelectrochemical performance. Science Bulletin, 2022, 67, 1458-1466.	4.3	6
31	Exploring N-Containing Compound Catalyst for H ₂ S Selective Oxidation: Case Study of TaON and Ta ₃ N ₅ . Catalysis Letters, 2021, 151, 1728-1737.	1.4	2
32	A Capacitor-Type Faradaic Junction for Direct Solar Energy Conversion and Storage. Angewandte Chemie - International Edition, 2021, 60, 1390-1395.	7.2	19
33	A Capacitor-Type Faradaic Junction for Direct Solar Energy Conversion and Storage. Angewandte Chemie, 2021, 133, 1410-1415.	1.6	1
34	Beyond C ₃ N ₄ ĩ-conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. Chemical Society Reviews, 2021, 50, 2147-2172.	18.7	118
35	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
36	Ultrathin Z-scheme 2D/2D N-doped HTiNbO ₅ nanosheets/g-C ₃ N ₄ porous composites for efficient photocatalytic degradation and H ₂ generation under visible light. Journal of Colloid and Interface Science, 2021, 583, 58-70.	5.0	59

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37	Shedding light on CO_2 : Catalytic synthesis of solar methanol. <i>EcoMat</i> , 2021, 3, e12078.	6.8	13
38	Bimetallic oxyhydroxide <i>in situ</i> derived from an $\text{Fe}_2\text{Co-MOF}$ for efficient electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13271-13278.	5.2	27
39	Simple fabrication of Z-scheme $\text{MgIn}_2\text{S}_4/\text{Bi}_2\text{WO}_6$ hierarchical heterostructures for enhancing photocatalytic reduction of Cr(VI) . <i>Catalysis Science and Technology</i> , 2021, 11, 6271-6280.	2.1	15
40	Ultrafast Fenton-like reaction route to FeOOH/NiFe-LDH heterojunction electrode for efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21785-21791.	5.2	55
41	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
42	Do Cu Substrates Participate in Bi Electrocatalytic CO_2 Reduction?. <i>ChemNanoMat</i> , 2021, 7, 128-133.	1.5	6
43	Understanding the enhanced catalytic activity of high entropy alloys: from theory to experiment. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19410-19438.	5.2	43
44	$\text{Fe}_2\text{O}_3/\text{Ag/CdS}$ ternary heterojunction photoanode for efficient solar water oxidation. <i>Catalysis Science and Technology</i> , 2021, 11, 5859-5867.	2.1	7
45	A strategy of asymmetric local structure based on mesoporous MoO_2 toward efficient electrocatalysis. <i>Chemical Communications</i> , 2021, 57, 7834-7837.	2.2	3
46	Visible-light-responsive Z-scheme system for photocatalytic lignocellulose-to- H_2 conversion. <i>Chemical Communications</i> , 2021, 57, 9898-9901.	2.2	12
47	Layered $\text{BiOCl/H}^+\text{TiNbO}_5$ heterojunctions for boosting visible-light-driven photocatalytic RhB degradation. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4680-4689.	2.5	14
48	Photocatalytic and Thermocatalytic Conversion of Methane. <i>Solar Rrl</i> , 2021, 5, 2000596.	3.1	16
49	Photocatalytic Hydrogen Production by Stable CsPbBr_3 @PANI Nanoparticles in Aqueous Solution. <i>ChemCatChem</i> , 2021, 13, 1711-1716.	1.8	15
50	Urea-Assisted Synthesis and Tailoring Cobalt Cores for Synergetic Promotion of Hydrogen Evolution Reaction in Acid and Alkaline Media. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000091.	2.8	5
51	Promotion effect of metal phosphides towards electrocatalytic and photocatalytic water splitting. <i>EcoMat</i> , 2021, 3, e12097.	6.8	46
52	Material Design and Surface/Interface Engineering of Photoelectrodes for Solar Water Splitting. <i>Solar Rrl</i> , 2021, 5, 2100100.	3.1	33
53	Elegant Construction of $\text{ZnIn}_2\text{S}_4/\text{BiVO}_4$ 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
54	3D Hydrangea-like $\text{InVO}_4/\text{Ti}_3\text{C}_2\text{T}_x$ Hierarchical Heterosystem Collaborating with 2D/2D Interface Interaction for Enhanced Photocatalytic CO_2 Reduction. <i>ChemNanoMat</i> , 2021, 7, 815-823.	1.5	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 CsPbBr ₃ perovskite films. Applied Physics Letters, 2021, 118, 221604.	1.5	5
57	Suppressing the Defects in CsPbI ₂ Br Perovskite Photovoltaic Films via a Homogeneous Cap-Mediated Annealing Strategy. Energy & Fuels, 2021, 35, 11488-11495.	2.5	4
58	Extraterrestrial artificial photosynthetic materials for <i>in-situ</i> resource utilization. National Science Review, 2021, 8, nwab104.	4.6	17
59	Robust Molecular Dipole-Enabled Defect Passivation and Control of Energy-Level Alignment for High-Efficiency Perovskite Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 17664-17670.	7.2	69
60	Direct Electrochemical Protonation of Metal Oxide Particles. Journal of the American Chemical Society, 2021, 143, 9236-9243.	6.6	25
61	Solar-Driven Lignocellulose-to-H ₂ Conversion in Water using 2D MoS ₂ /TiO ₂ Photocatalysts. ChemSusChem, 2021, 14, 2860-2865.	3.6	27
62	Advancing solar energy conversion materials: fuel the future. National Science Review, 2021, 8, nwab128.	4.6	2
63	Vacancy-defect modulated pathway of photoreduction of CO ₂ on single atomically thin AgInP ₂ S ₆ sheets into olefiant gas. Nature Communications, 2021, 12, 4747.	5.8	128
64	Hollow InVO ₄ Nanocuboid Assemblies toward Promoting Photocatalytic N ₂ Conversion Performance. Advanced Materials, 2021, 33, e2006780.	11.1	38
65	2D High-Entropy Hydrotalcites. Small, 2021, 17, e2103412.	5.2	27
66	Vertical Graphene Arrays as Electrodes for Ultra-High Energy Density AC Line-Filtering Capacitors. Angewandte Chemie, 2021, 133, 24710-24714.	1.6	7
67	<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). Catalysis Science and Technology, 2021, 11, 3885-3893.	2.1	30
68	Lanthanum bismuth oxide photocatalysts for CO ₂ reduction to CO with high selectivity. Sustainable Energy and Fuels, 2021, 5, 2688-2694.	2.5	6
69	Carrier Mobility Enhancement in (121)-Oriented CsPbBr ₃ Perovskite Films Induced by the Microstructure Tailoring of PbBr ₂ Precursor Films. ACS Applied Electronic Materials, 2021, 3, 373-384.	2.0	30
70	Constructing spin pathways in LaCoO ₃ by Mn substitution to promote oxygen evolution reaction. Applied Physics Letters, 2021, 119, .	1.5	12
71	Thermally Stable All-Perovskite Tandem Solar Cells Fully Using Metal Oxide Charge Transport Layers and Tunnel Junction. Solar Rrl, 2021, 5, 2100814.	3.1	24
72	Direct Z-scheme hierarchical heterostructures of oxygen-doped g-C ₃ N ₄ /In ₂ S ₃ with efficient photocatalytic Cr(VI) reduction activity. Catalysis Science and Technology, 2021, 11, 7963-7972.	2.1	13

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73	Faradaic junction and isoenergetic charge transfer mechanism on semiconductor/semiconductor interfaces. <i>Nature Communications</i> , 2021, 12, 6363.	5.8	14
74	In Situ Determination of Polaron-Mediated Ultrafast Electron Trapping in Rutile TiO ₂ Nanorod Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10815-10822.	2.1	14
75	Bismuth Vacancy-Induced Efficient CO ₂ Photoreduction in BiOCl Directly from Natural Air: A Progressive Step toward Photosynthesis in Nature. <i>Nano Letters</i> , 2021, 21, 10260-10266.	4.5	74
76	Spin unlocking oxygen evolution reaction on antiperovskite nitrides. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25435-25444.	5.2	19
77	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
78	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
79	Inhibiting Hydrogen Evolution using a Chloride Adlayer for Efficient Electrochemical CO ₂ Reduction on Zn Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4565-4571.	4.0	49
80	Silicon Photoanode Modified with Work Function Tuned Ni ₂ Fe ₂ Ni _{1-x} (OH) ₂ Core-Shell Particles for Water Oxidation. <i>ChemSusChem</i> , 2020, 13, 6037-6044.	3.6	11
81	ALD-grown oxide protective layers on Ta ₃ N ₅ ∕Cu ₂ O n-p nanoarray heterojunction for improved photoelectrochemical water splitting. <i>Applied Physics Letters</i> , 2020, 117, 163902.	1.5	13
82	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
83	Modulation of Disordered Coordination Degree Based on Surface Defective Metal-Organic Framework Derivatives toward Boosting Oxygen Evolution Electrocatalysis. <i>Small</i> , 2020, 16, e2003630.	5.2	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%. <i>ACS Energy Letters</i> , 2020, 5, 3224-3236.	8.8	49
85	In Situ-Grown Island-Shaped Hollow Graphene on TaON with Spatially Separated Active Sites Achieving Enhanced Visible-Light CO ₂ Reduction. <i>ACS Catalysis</i> , 2020, 10, 15083-15091.	5.5	51
86	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured Fe ₂ O ₃ /g-C ₃ 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
87	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
88	Mildly regulated intrinsic faradaic layer at the oxide/water interface for improved photoelectrochemical performance. <i>Chemical Science</i> , 2020, 11, 6297-6304.	3.7	15
89	Reversible Charge Transfer and Adjustable Potential Window in Semiconductor/Faradaic Layer/Liquid Junctions. <i>IScience</i> , 2020, 23, 100949.	1.9	17
90	CoS ₂ @N-doped carbon core-shell nanorod array grown on Ni foam for enhanced electrocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6795-6803.	5.2	75

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91	Constructing N-Doped KNb ₃ O ₈ /g-C ₃ N ₄ Composite for Efficient Photocatalytic H ₂ Generation and Degradation under Visible Light Irradiation. <i>Catalysis Letters</i> , 2020, 150, 2798-2806.	1.4	5
92	Few-Layer Black Phosphorus Nanosheets: A Metal-Free Cocatalyst for Photocatalytic Nitrogen Fixation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17343-17352.	4.0	74
93	Super stable CsPbBr ₃ @SiO ₂ tumor imaging reagent by stress-response encapsulation. <i>Nano Research</i> , 2020, 13, 795-801.	5.8	55
94	Paving the road toward the use of ⁵⁷ Fe-Fe ₂ O 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
95	Polyimide-based photocatalysts: rational design for energy and environmental applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14441-14462.	5.2	38
96	Frontispiz: Unconventional Route to Oxygen Vacancy Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2020, 132, .	1.6	0
97	Suppression of Point Defects for Band Edge Engineering in a Semiconducting Photocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1708-1713.	2.1	11
98	Room Temperature Surface Modification of Ultrathin FeOOH Cocatalysts on Fe ₂ O ₃ Photoanodes for High Photoelectrochemical Water Splitting. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-7.	1.5	13
99	Frontispiece: Unconventional Route to Oxygen Vacancy Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	7.2	1
100	2D Titanium/Niobium Metal Oxide Based Materials for Photocatalytic Application. <i>Solar Rrl</i> , 2020, 4, 2000070.	3.1	34
101	Simultaneous Optimization of Phase and Morphology of CsPbBr ₃ Films via Controllable Ostwald Ripening by Ethylene Glycol Monomethylether/Isopropanol Bi Solvent Engineering. <i>Advanced Engineering Materials</i> , 2020, 22, 2000162.	1.6	19
102	Facile grafting strategy synthesis of single-atom electrocatalyst with enhanced ORR performance. <i>Nano Research</i> , 2020, 13, 1519-1526.	5.8	60
103	Polaron States as a Massive Electron-Transfer Pathway at Heterojunction Interface. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9184-9194.	2.1	14
104	<i>In situ</i> preparation of Bi ₂ S ₃ nanoribbon-anchored BiVO ₄ nanoscroll heterostructures for the catalysis of Cr(VI) photoreduction. <i>Catalysis Science and Technology</i> , 2020, 10, 3843-3847.	2.1	14
105	Low-Work-Function Silver Activating N-doped Graphene as Efficient Oxygen Reduction Catalysts in Acidic Medium. <i>ChemCatChem</i> , 2019, 11, 1033-1038.	1.8	9
106	<i>In situ</i> formed oxy/hydroxide antennas accelerating the water dissociation kinetics on a Co@N-doped carbon core-shell assembly for hydrogen production in alkaline solution. <i>Dalton Transactions</i> , 2019, 48, 11927-11933.	1.6	6
107	Incorporating <i>p</i> -Phenylene as an Electron-Donating Group into Graphitic Carbon Nitride for Efficient Charge Separation. <i>ChemSusChem</i> , 2019, 12, 4285-4292.	3.6	22
108	Elegant Molecular Iodine/Antisolvent Solution Engineering To Tune the Fermi Level of Perovskite CH ₃ NH ₃ PbI ₃ . <i>ACS Applied Energy Materials</i> , 2019, 2, 5753-5758.	2.5	7

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109	Co ^{II} -P Bonds as Atomic-Level Charge Transfer Channel To Boost Photocatalytic H ₂ Production of Co ₂ P/Black Phosphorus Nanosheets Photocatalyst. ACS Catalysis, 2019, 9, 7801-7807.	5.5	124
110	Ta ₃ N ₅ nanorods encapsulated into 3D hydrangea-like MoS ₂ for enhanced photocatalytic hydrogen evolution under visible light irradiation. Dalton Transactions, 2019, 48, 13176-13183.	1.6	27
111	Effect of Bulk Hydrogen on the Photocatalytic Activity of Semiconducting Ta ₃ N ₅ : A Hybrid-DFT Viewpoint. Journal of Physical Chemistry C, 2019, 123, 28763-28768.	1.5	7
112	Schottky junction effect enhanced plasmonic photocatalysis by TaON@Ni NP heterostructures. Chemical Communications, 2019, 55, 11754-11757.	2.2	52
113	Near 100% selectivity for visible-light-driven CO ₂ reduction to CH ₄ on a dual-metal site photocatalyst. Science China Chemistry, 2019, 62, 1553-1554.	4.2	5
114	Hollow BiVO ₄ /Bi ₂ S ₃ cruciate heterostructures with enhanced visible-light photoactivity. Catalysis Science and Technology, 2019, 9, 182-187.	2.1	13
115	Lewis acid activated CO ₂ reduction over a Ni modified Ni ^{II} -Ge hydroxide driven by visible-infrared light. Dalton Transactions, 2019, 48, 1672-1679.	1.6	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.	7.8	56
117	Boosting the hydrogen evolution performance of a ternary Mo _x Co _{1-x} P nanowire array by tuning the Mo/Co ratio. Journal of Materials Chemistry A, 2019, 7, 14842-14848.	5.2	36
118	Three-Dimensional Functionalized Carbon Nanotubes/Graphitic Carbon Nitride Hybrid Composite as the Sulfur Host for High-Performance Lithium-Sulfur Batteries. Journal of Physical Chemistry C, 2019, 123, 15924-15934.	1.5	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.	3.2	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.	6.6	20
121	Porphyrin ^{II} -containing Polyimide with Enhanced Light Absorption and Photocatalysis Activity. Chemistry - an Asian Journal, 2019, 14, 2138-2148.	1.7	23
122	Highly selective electrochemical CO ₂ reduction to CO using a redox-active couple on low-crystallinity mesoporous ZnGa ₂ O ₄ catalyst. Journal of Materials Chemistry A, 2019, 7, 9316-9323.	5.2	30
123	Interfacial Effects on the Band Edges of Ta ₃ N ₅ Photoanodes in an Aqueous Environment: A Theoretical View. IScience, 2019, 13, 432-439.	1.9	10
124	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO ₄ Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO ₂ into CO. Journal of the American Chemical Society, 2019, 141, 4209-4213.	6.6	199
125	Ultrathin nanosheet-anchored hexahedral prismatic Bi ₂ MoO ₆ arrays: one-step constructed and crystal facet-based homojunctions boosting photocatalytic CO ₂ reduction and N ₂ fixation. Catalysis Science and Technology, 2019, 9, 7045-7050.	2.1	11
126	Silicon photoanodes partially covered by Ni@Fe core-shell particles with <i>in situ</i> formed gradient-enhanced junction electric field for photoelectrochemical water oxidation. Applied Physics Letters, 2019, 115, .	1.5	4

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127	Core-Shell Heterostructured and Visible-Light-Driven Titanoniobate/TiO ₂ Composite for Boosting Photodegradation Performance. <i>Nanomaterials</i> , 2019, 9, 1503.	1.9	6
128	Heterogeneous degradation of organic contaminants in the photo-Fenton reaction employing pure cubic Fe ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2019, 245, 410-419.	10.8	107
129	Carbon Nanotube@RuO ₂ as a High Performance Catalyst for Li-ion CO ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5146-5151.	4.0	70
130	Reactive Inorganic Vapor Deposition of Perovskite Oxynitride Films for Solar Energy Conversion. <i>Research</i> , 2019, 2019, 9282674.	2.8	17
131	Oriented attachment growth of hundred-nanometer-size LaTaO ₂ single crystals in molten salts for enhanced photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7706-7713.	5.2	26
132	Tuning spontaneous polarization to alter water oxidation/reduction activities of LiNbO ₃ . <i>Applied Physics Letters</i> , 2018, 112, .	1.5	11
133	Solvothermal synthesis of porous conjugated polymer with high surface area for efficient adsorption of organic and biomolecules. <i>Journal of Porous Materials</i> , 2018, 25, 1659-1668.	1.3	5
134	Flux synthesis of regular Bi ₄ TaO ₈ Cl square nanoplates exhibiting dominant exposure surfaces of {001} crystal facets for photocatalytic reduction of CO ₂ to methane. <i>Nanoscale</i> , 2018, 10, 1905-1911.	2.8	41
135	Polymerizable ionic liquid as a precursor for N, P co-doped carbon toward the oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2018, 8, 1142-1150.	2.1	44
136	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
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