

Tie-Rui Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

310
papers

42,354
citations

1094

112
h-index

2375

198
g-index

323
all docs

323
docs citations

323
times ranked

30412
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient photocatalytic aerobic oxidation of bisphenol A via gas-liquid-solid triphase interfaces. <i>Materials Today Energy</i> , 2022, 23, 100908.	2.5	12
2	Artificial photocatalytic nitrogen fixation: Where are we now? Where is its future?. <i>Molecular Catalysis</i> , 2022, 518, 112107.	1.0	11
3	Photothermal methane coupling into liquid fuels with hydrogen evolution over nanocatalysts based on layered double hydroxide (LDH). <i>Nanotechnology</i> , 2022, 33, 185401.	1.3	1
4	Atom manufacturing of photocatalyst towards solar CO ₂ reduction. <i>Reports on Progress in Physics</i> , 2022, 85, 026501.	8.1	8
5	Photothermal-Assisted Photocatalytic Nitrogen Oxidation to Nitric Acid on Palladium-Decorated Titanium Oxide. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	34
6	Vertical graphene array for efficient electrocatalytic reduction of oxygen to hydrogen peroxide. <i>Nano Energy</i> , 2022, 96, 107046.	8.2	37
7	Triphase Photocatalytic CO ₂ Reduction over Silver-Decorated Titanium Oxide at a Gas-Water Boundary. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	88
8	Triphase Photocatalytic CO ₂ Reduction over Silver-Decorated Titanium Oxide at a Gas-Water Boundary. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	33
9	A Review on the Bioinspired Photocatalysts and Photocatalytic Systems. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	22
10	Layered Double Hydroxide Engineering for the Photocatalytic Conversion of Inactive Carbon and Nitrogen Molecules. <i>ACS ES&T Engineering</i> , 2022, 2, 1088-1102.	3.7	12
11	Deciphering the Dynamic Structure Evolution of Fe- and Ni-Codoped CoS ₂ for Enhanced Water Oxidation. <i>ACS Catalysis</i> , 2022, 12, 3743-3751.	5.5	59
12	Strain Engineering: A Boosting Strategy for Photocatalysis. <i>Advanced Materials</i> , 2022, 34, e2200868.	11.1	82
13	Ordered PtFeIr Intermetallic Nanowires Prepared through a Silica-Protection Strategy for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	61
14	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	81
15	Fe Single-Atom Catalysts on MOF-Derived Carbon for Efficient Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	150
16	Ordered PtFeIr Intermetallic Nanowires Prepared through a Silica-Protection Strategy for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
17	Interfacial wettability and mass transfer characterizations for gas-liquid-solid triphase catalysis. <i>Exploration</i> , 2022, 2, .	5.4	21
18	Electronically Activated Fe ₅ C ₂ via N-Doped Carbon to Enhance Photothermal Syngas Conversion to Light Olefins. <i>ACS Catalysis</i> , 2022, 12, 5316-5326.	5.5	19

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19	Highly accessible and dense surface single metal FeN ₄ active sites for promoting the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2022, 15, 2619-2628.	15.6	82
20	Tailoring the microenvironment in Fe-N-C electrocatalysts for optimal oxygen reduction reaction performance. <i>Science Bulletin</i> , 2022, 67, 1264-1273.	4.3	36
21	Progress and Prospect of Photothermal Catalysis. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 723-734.	1.3	34
22	NiFe Nanoalloys Derived from Layered Double Hydroxides for Photothermal Synergistic Reforming of CH ₄ with CO ₂ . <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	35
23	Mesopore-Rich Fe-N-C Catalyst with FeN ₄ -O-NC Single-Atom Sites Delivers Remarkable Oxygen Reduction Reaction Performance in Alkaline Media. <i>Advanced Materials</i> , 2022, 34, e2202544.	11.1	168
24	Unveiling the critical role of TiO ₂ -supported atomically dispersed Cu species for enhanced photofixation of N ₂ to nitrate. <i>Fundamental Research</i> , 2022, , .	1.6	1
25	Photodriven CO ₂ Hydrogenation into Diverse Products: Recent Progress and Perspective. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5291-5303.	2.1	18
26	Light-Driven Hydrogen Production from Steam Methane Reforming via Bimetallic PdNi Catalysts Derived from Layered Double Hydroxide Nanosheets. <i>Energy & Fuels</i> , 2022, 36, 11627-11635.	2.5	28
27	Highly dispersed platinum deposited on nitrogen-doped vertical graphene array for efficient electrochemical hydrogen evolution. <i>2D Materials</i> , 2022, 9, 045011.	2.0	5
28	A Reliable and Precise Protocol for Urea Quantification in Photo/Electrocatalysis. <i>Small Methods</i> , 2022, 6, .	4.6	26
29	Vacancy-Rich MXene-Immobilized Ni Single Atoms as a High-Performance Electrocatalyst for the Hydrazine Oxidation Reaction. <i>Advanced Materials</i> , 2022, 34, .	11.1	57
30	Synergistic effect of triphase interface and fluid control for efficient photosynthesis of residue-free H ₂ O ₂ . <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121731.	10.8	10
31	Sub-3 nm Ultrafine Cu ₂ O for Visible Light Driven Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2554-2560.	7.2	134
32	A Metal-Segregation Approach to Generate CoMn Alloy for Enhanced Photothermal Conversion of Syngas to Light Olefins. <i>Solar Rrl</i> , 2021, 5, 2000488.	3.1	16
33	Enhanced solar photoreduction of CO ₂ to liquid fuel over rGO grafted NiO-CeO ₂ heterostructure nanocomposite. <i>Nano Energy</i> , 2021, 79, 105483.	8.2	51
34	Band structure engineering and defect control of Ta ₃ N ₅ with enhanced photoelectrochemical water oxidation performance. <i>Science Bulletin</i> , 2021, 66, 651-652.	4.3	3
35	Substitutionally Dispersed High-Oxidation CoO _x Clusters in the Lattice of Rutile TiO ₂ Triggering Efficient Co/Ti Cooperative Catalytic Centers for Oxygen Evolution Reactions. <i>Advanced Functional Materials</i> , 2021, 31, 2009610.	7.8	82
36	Electrocatalytic Oxygen Reduction to Hydrogen Peroxide: From Homogeneous to Heterogeneous Electrocatalysis. <i>Advanced Energy Materials</i> , 2021, 11, 2003323.	10.2	150

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37	Sub-3 nm Ultrafine Cu ₂ O for Visible Light Driven Nitrogen Fixation. <i>Angewandte Chemie</i> , 2021, 133, 2584-2590.	1.6	13
38	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie</i> , 2021, 133, 3327-3335.	1.6	189
39	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3290-3298.	7.2	254
40	Atomic-Level Charge Separation Strategies in Semiconductor-Based Photocatalysts. <i>Advanced Materials</i> , 2021, 33, e2005256.	11.1	215
41	Research Progress on Triphase Interface Electrocatalytic Carbon Dioxide Reduction. <i>Acta Chimica Sinica</i> , 2021, 79, 369.	0.5	4
42	Fe-Based Catalysts for the Direct Photohydrogenation of CO ₂ to Value-Added Hydrocarbons. <i>Advanced Energy Materials</i> , 2021, 11, 2002783.	10.2	90
43	Solar Photocatalysis. <i>Solar Rrl</i> , 2021, 5, 2100037.	3.1	16
44	Heterostructured MoSe ₂ /Oxygen-Terminated Ti ₃ C ₂ MXene Architectures for Efficient Electrocatalytic Hydrogen Evolution. <i>Energy & Fuels</i> , 2021, 35, 4609-4615.	2.5	76
45	Metal-support interactions in designing noble metal-based catalysts for electrochemical CO ₂ reduction: Recent advances and future perspectives. <i>Nano Research</i> , 2021, 14, 3795-3809.	5.8	80
46	Molten NaCl-Assisted Synthesis of Porous Fe-N Electrochemical Catalysts with a High Density of Catalytically Accessible FeN ₄ Active Sites and Outstanding Oxygen Reduction Reaction Performance. <i>Advanced Energy Materials</i> , 2021, 11, 2100219.	10.2	160
47	Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction. <i>Advanced Energy Materials</i> , 2021, 11, 2100303.	10.2	61
48	Recent Advancements of Porphyrin-Like Single-Atom Catalysts: Synthesis and Applications. <i>Small Structures</i> , 2021, 2, 2100007.	6.9	77
49	Efficient Combination of G ₃ N ₄ and CDs for Enhanced Photocatalytic Performance: A Review of Synthesis, Strategies, and Applications. <i>Small</i> , 2021, 17, e2007523.	5.2	93
50	Noble-metal-free dye-sensitized selective oxidation of methane to methanol with green light (550 nm). <i>Nano Research</i> , 2021, 14, 4584-4590.	5.8	31
51	Recent Advances in Noncontact External-Field-Assisted Photocatalysis: From Fundamentals to Applications. <i>ACS Catalysis</i> , 2021, 11, 4739-4769.	5.5	173
52	Ni-based catalysts derived from layered-double-hydroxide nanosheets for efficient photothermal CO ₂ reduction under flow-type system. <i>Nano Research</i> , 2021, 14, 4828-4832.	5.8	62
53	MIL-101-Derived Mesoporous Carbon Supporting Highly Exposed Fe Single-Atom Sites as Efficient Oxygen Reduction Reaction Catalysts. <i>Advanced Materials</i> , 2021, 33, e2101038.	11.1	327
54	Rationally Designed Ni-Ni ₃ S ₂ Interfaces for Efficient Overall Water Electrolysis. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100078.	2.8	40

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55	Oxygen Reduction Reaction: Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction (Adv. Energy Mater. 17/2021). Advanced Energy Materials, 2021, 11, 2170067.	10.2	2
56	In Situ Detection of Low Amounts of Ammonia. Trends in Chemistry, 2021, 3, 339-341.	4.4	7
57	Layered double hydroxide-based photocatalytic materials toward renewable solar fuels production. Informa Mater, 2021, 3, 719-738.	8.5	105
58	Fe _{1-x} Ni _x C Electrocatalysts with Densely Accessible Fe ₄ Sites for Efficient Oxygen Reduction Reaction. Advanced Functional Materials, 2021, 31, 2102420.	7.8	110
59	Foreword to the Special Issue on Photocatalysis. Transactions of Tianjin University, 2021, 27, 279-279.	3.3	0
60	Nitrogen-doped Zn-Ni oxide for electrochemical reduction of carbon dioxide in sea water. Rare Metals, 2021, 40, 3117.	3.6	22
61	Engineering local coordination environments and site densities for high-performance Fe-N-C oxygen reduction reaction electrocatalysis. SmartMat, 2021, 2, 154-175.	6.4	81
62	Emerging Solar Photocatalysis. Solar Rrl, 2021, 5, 2100252.	3.1	5
63	Room-temperature electrochemical acetylene reduction to ethylene with high conversion and selectivity. Nature Catalysis, 2021, 4, 565-574.	16.1	121
64	Titania-Supported Ni ₂ P/Ni Catalysts for Selective Solar-Driven CO Hydrogenation. Advanced Materials, 2021, 33, e2103248.	11.1	41
65	Revealing Ammonia Quantification Minefield in Photo/Electrocatalysis. Angewandte Chemie - International Edition, 2021, 60, 21728-21731.	7.2	63
66	Revealing Ammonia Quantification Minefield in Photo/Electrocatalysis. Angewandte Chemie, 2021, 133, 21896-21899.	1.6	8
67	Atomic Cation Vacancy Engineering of NiFe Layered Double Hydroxides for Improved Activity and Stability towards the Oxygen Evolution Reaction. Angewandte Chemie, 2021, 133, 24817-24824.	1.6	39
68	Photothermal-Assisted Triphase Photocatalysis Over a Multifunctional Bilayer Paper. Angewandte Chemie - International Edition, 2021, 60, 22963-22969.	7.2	76
69	Enhancing the Supply of Activated Hydrogen to Promote Photocatalytic Nitrogen Fixation. , 2021, 3, 1521-1527.		35
70	Atomic Cation Vacancy Engineering of NiFe Layered Double Hydroxides for Improved Activity and Stability towards the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 24612-24619.	7.2	259
71	Photothermal-Assisted Triphase Photocatalysis Over a Multifunctional Bilayer Paper. Angewandte Chemie, 2021, 133, 23145-23151.	1.6	12
72	Charge localization to optimize reactant adsorption on KCu ₇ S ₄ /CuO interfacial structure toward selective CO ₂ electroreduction. Applied Catalysis B: Environmental, 2021, 298, 120531.	10.8	25

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73	Three-phase electrochemistry for green ethylene production. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100789.	2.5	6
74	Three Phase Interface Engineering for Advanced Catalytic Applications. <i>ACS Applied Energy Materials</i> , 2021, 4, 1045-1052.	2.5	22
75	Flux-Assisted Low Temperature Synthesis of SnNb ₂ O ₆ Nanoplates with Enhanced Visible Light Driven Photocatalytic H ₂ -Production. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23219-23225.	1.5	8
76	A Rhenium Single-Atom Catalyst for the Electrocatalytic Oxygen Reduction Reaction. <i>ChemPlusChem</i> , 2021, 86, 1635-1639.	1.3	7
77	Nanostructured Photothermal Materials for Environmental and Catalytic Applications. <i>Molecules</i> , 2021, 26, 7552.	1.7	12
78	Hierarchical ultrathin carbon encapsulating transition metal doped MoP electrocatalysts for efficient and pH-universal hydrogen evolution reaction. <i>Nano Energy</i> , 2020, 70, 104445.	8.2	118
79	Two-dimensional photocatalyst design: A critical review of recent experimental and computational advances. <i>Materials Today</i> , 2020, 34, 78-91.	8.3	253
80	Manganese Oxide Modified Nickel Catalysts for Photothermal CO Hydrogenation to Light Olefins. <i>Advanced Energy Materials</i> , 2020, 10, 1902860.	10.2	56
81	Wettability controlled photocatalytic reactive oxygen generation and <i>Klebsiella pneumoniae</i> inactivation over triphase systems. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118518.	10.8	52
82	A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. <i>Angewandte Chemie</i> , 2020, 132, 1735-1743.	1.6	40
83	A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1718-1726.	7.2	452
84	Hollow PtFe Alloy Nanoparticles Derived from Pt ₃ O ₄ Dimers through a Silica-Protection Reduction Strategy as Efficient Oxygen Reduction Electrocatalysts. <i>Chemistry - A European Journal</i> , 2020, 26, 4090-4096.	1.7	49
85	Effect of Support on Catalytic Performance of Photothermal Fischer-Tropsch Synthesis to Produce Lower Olefins over Fe ₅ C ₂ -based Catalysts. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1006-1012.	1.3	14
86	Underwater superaerophobic Ni nanoparticle-decorated nickel-molybdenum nitride nanowire arrays for hydrogen evolution in neutral media. <i>Nano Energy</i> , 2020, 78, 105375.	8.2	148
87	Alkali Etching of Layered Double Hydroxide Nanosheets for Enhanced Photocatalytic N ₂ Reduction to NH ₃ . <i>Advanced Energy Materials</i> , 2020, 10, 2002199.	10.2	185
88	Electrochemical urea production directly from N ₂ and CO ₂ in ambient aqueous media. <i>Science China Chemistry</i> , 2020, 63, 1580-1581.	4.2	7
89	Photocatalytic CO ₂ Reduction to CO over Ni Single Atoms Supported on Defect-Rich Zirconia. <i>Advanced Energy Materials</i> , 2020, 10, 2002928.	10.2	263
90	Piezocatalysis and Piezo-Photocatalysis: Catalysts Classification and Modification Strategy, Reaction Mechanism, and Practical Application. <i>Advanced Functional Materials</i> , 2020, 30, 2005158.	7.8	435

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91	Perylene diimide self-assembly: From electronic structural modulation to photocatalytic applications. <i>Journal of Semiconductors</i> , 2020, 41, 091708.	2.0	11
92	Complex alloy nanostructures as advanced catalysts for oxygen electrocatalysis: from materials design to applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23142-23161.	5.2	46
93	Recent Advances in the Development of Single-Atom Catalysts for Oxygen Electrocatalysis and Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2003018.	10.2	181
94	Driving the Future with Photocatalytic Solar Fuels. <i>ChemPhysChem</i> , 2020, 21, 1081-1082.	1.0	0
95	Reassessing effects of Zn ²⁺ toward oxygen electrocatalytic activity in ternary spinel. <i>Science Bulletin</i> , 2020, 65, 974-976.	4.3	2
96	Recent Advances in Conjugated Polymers for Visible-Light-Driven Water Splitting. <i>Advanced Materials</i> , 2020, 32, e1907296.	11.1	279
97	Tubular assemblies of N-doped carbon nanotubes loaded with NiFe alloy nanoparticles as efficient bifunctional catalysts for rechargeable zinc-air batteries. <i>Nanoscale</i> , 2020, 12, 13129-13136.	2.8	110
98	Efficient wettability-controlled electroreduction of CO ₂ to CO at Au/C interfaces. <i>Nature Communications</i> , 2020, 11, 3028.	5.8	294
99	Evolution of Zn(II) single atom catalyst sites during the pyrolysis-induced transformation of ZIF-8 to N-doped carbons. <i>Science Bulletin</i> , 2020, 65, 1743-1751.	4.3	115
100	Revealing active sites in N-doped carbon for CO ₂ electroreduction by well-defined molecular model catalysts. <i>Science Bulletin</i> , 2020, 65, 781-782.	4.3	4
101	Recent advances in niobium-based semiconductors for solar hydrogen production. <i>Coordination Chemistry Reviews</i> , 2020, 419, 213399.	9.5	57
102	Photocatalytic alkane production from fatty acid decarboxylation over hydrogenated catalyst. <i>Science Bulletin</i> , 2020, 65, 870-871.	4.3	2
103	Dynamic changes of single-atom Pt-C ₃ N ₄ photocatalysts. <i>Science Bulletin</i> , 2020, 65, 1055-1056.	4.3	10
104	How to make use of methanol in green catalytic hydrogen production?. <i>Nano Select</i> , 2020, 1, 12-29.	1.9	60
105	Site- and Spatial-Selective Integration of Non-noble Metal Ions into Quantum Dots for Robust Hydrogen Photogeneration. <i>Matter</i> , 2020, 3, 571-585.	5.0	36
106	CoAl-layered double hydroxide nanosheet-based fluorescence assay for fast DNA detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118618.	2.0	13
107	Cooperation of oxygen vacancies and 2D ultrathin structure promoting CO ₂ photoreduction performance of Bi ₄ Ti ₃ O ₁₂ . <i>Science Bulletin</i> , 2020, 65, 934-943.	4.3	151
108	Single-atom Ni integrated gas diffusion electrode for high performance carbon dioxide electroreduction. <i>Science Bulletin</i> , 2020, 65, 696-697.	4.3	2

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109	FeO ₂ –CeO ₂ nanocomposites: an efficient and highly selective catalyst system for photothermal CO ₂ reduction to CO. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	76
110	Facet-charge-induced coupling dependent interfacial photocharge separation: A case of BiOI/g-C ₃ N ₄ p-n junction. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118697.	10.8	202
111	Efficient Photocatalytic Nitrogen Fixation over Cu ⁺ -Modified Defective ZnAl ₂ Layered Double Hydroxide Nanosheets. <i>Advanced Energy Materials</i> , 2020, 10, 1901973.	10.2	173
112	Macroscopic Spontaneous Polarization and Surface Oxygen Vacancies Collaboratively Boosting CO ₂ Photoreduction on BiOI ₃ Single Crystals. <i>Advanced Materials</i> , 2020, 32, e1908350.	11.1	372
113	Designed controllable nitrogen-doped carbon-dots-loaded MoP nanoparticles for boosting hydrogen evolution reaction in alkaline medium. <i>Nano Energy</i> , 2020, 72, 104730.	8.2	171
114	High-Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Single-Atom Catalysts with Tetradentate N ₂ O ₂ Coordination in a Three-Phase Flow Cell. <i>Angewandte Chemie</i> , 2020, 132, 13157-13162.	1.6	16
115	High-Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Single-Atom Catalysts with Tetradentate N ₂ O ₂ Coordination in a Three-Phase Flow Cell. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13057-13062.	7.2	222
116	Selective photocatalytic CO ₂ reduction over Zn-based layered double hydroxides containing tri or tetravalent metals. <i>Science Bulletin</i> , 2020, 65, 987-994.	4.3	205
117	The Journey toward Low Temperature, Low Pressure Catalytic Nitrogen Fixation. <i>Advanced Energy Materials</i> , 2020, 10, 2000659.	10.2	127
118	Porous Ni ₅ P ₄ as a promising cocatalyst for boosting the photocatalytic hydrogen evolution reaction performance. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119144.	10.8	194
119	Energy-Efficient Hydrogen Production via Electrochemical Methanol Oxidation Using a Bifunctional Nickel Nanoparticle-Embedded Carbon Prism-Like Microrod Electrode. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, .	2.2	6
120	(Invited) Nanostructured Layered Double Hydroxide Based Photocatalysts for Solar Fuels and High-Value Chemicals. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1750-1750.	0.0	0
121	Noble-Metal-Free Electrocatalysis. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, .	2.2	1
122	Photocatalytic ammonia synthesis: Recent progress and future. <i>EnergyChem</i> , 2019, 1, 100013.	10.1	204
123	A universal ligand mediated method for large scale synthesis of transition metal single atom catalysts. <i>Nature Communications</i> , 2019, 10, 4585.	5.8	441
124	Self-crosslinking carbon dots loaded ruthenium dots as an efficient and super-stable hydrogen production electrocatalyst at all pH values. <i>Nano Energy</i> , 2019, 65, 104023.	8.2	117
125	Defect Engineering in Photocatalytic Nitrogen Fixation. <i>ACS Catalysis</i> , 2019, 9, 9739-9750.	5.5	286
126	Editorial for rare metals, special issue on photocatalysis. <i>Rare Metals</i> , 2019, 38, 359-360.	3.6	6

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127	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. <i>Angewandte Chemie</i> , 2019, 131, 12754-12761.	1.6	71
128	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12624-12631.	7.2	345
129	A Simple Synthetic Strategy toward Defect-Rich Porous Monolayer NiFe-Layered Double Hydroxide Nanosheets for Efficient Electrocatalytic Water Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1900881.	10.2	363
130	A Photochemical Route towards Metal Sulfide Nanosheets from Layered Metal Thiolate Complexes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8443-8447.	7.2	37
131	A Photochemical Route towards Metal Sulfide Nanosheets from Layered Metal Thiolate Complexes. <i>Angewandte Chemie</i> , 2019, 131, 8531-8535.	1.6	5
132	Supramolecular precursor strategy for the synthesis of holey graphitic carbon nitride nanotubes with enhanced photocatalytic hydrogen evolution performance. <i>Nano Research</i> , 2019, 12, 2385-2389.	5.8	192
133	Three-dimensional porous g-C ₃ N ₄ for highly efficient photocatalytic overall water splitting. <i>Nano Energy</i> , 2019, 59, 644-650.	8.2	553
134	Von Sonnenlicht zu Brennstoffen: aktuelle Fortschritte der C ₁ -Solarchemie. <i>Angewandte Chemie</i> , 2019, 131, 17690-17715.	1.6	31
135	From Solar Energy to Fuels: Recent Advances in Light-Driven C ₁ Chemistry. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17528-17551.	7.2	285
136	Tuning Oxygen Vacancies in Ultrathin TiO ₂ Nanosheets to Boost Photocatalytic Nitrogen Fixation up to 700 nm. <i>Advanced Materials</i> , 2019, 31, e1806482.	11.1	732
137	Intrinsic Carbon-Defect-Driven Electrocatalytic Reduction of Carbon Dioxide. <i>Advanced Materials</i> , 2019, 31, e1808276.	11.1	263
138	Photothermal hydrocarbon synthesis using alumina-supported cobalt metal nanoparticle catalysts derived from layered-double-hydroxide nanosheets. <i>Nano Energy</i> , 2019, 60, 467-475.	8.2	67
139	Pd Single-Atom Catalysts on Nitrogen-Doped Graphene for the Highly Selective Photothermal Hydrogenation of Acetylene to Ethylene. <i>Advanced Materials</i> , 2019, 31, e1900509.	11.1	262
140	Two-dimensional Sn ₂ Ta ₂ O ₇ nanosheets as efficient visible light-driven photocatalysts for hydrogen evolution. <i>Rare Metals</i> , 2019, 38, 397-403.	3.6	49
141	Ammonia Detection Methods in Photocatalytic and Electrocatalytic Experiments: How to Improve the Reliability of NH ₃ Production Rates?. <i>Advanced Science</i> , 2019, 6, 1802109.	5.6	379
142	Two-dimensional-related catalytic materials for solar-driven conversion of CO _x into valuable chemical feedstocks. <i>Chemical Society Reviews</i> , 2019, 48, 1972-2010.	18.7	350
143	Ultrafine monolayer Co-containing layered double hydroxide nanosheets for water oxidation. <i>Journal of Energy Chemistry</i> , 2019, 34, 57-63.	7.1	78
144	(Invited) Layered Double Hydroxide Based Nanostructured Photocatalysts for Efficient Solar Fuels. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

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145	Sub-3 nm Ultrafine Monolayer Layered Double Hydroxide Nanosheets for Electrochemical Water Oxidation. <i>Advanced Energy Materials</i> , 2018, 8, 1703585.	10.2	274
146	Self-assembling and photophysical properties of the organogelators based on cyanostyryl-substituted carbazoles. <i>Comptes Rendus Chimie</i> , 2018, 21, 88-96.	0.2	2
147	Silica-Protected Ultrathin Ni ₃ FeN Nanocatalyst for the Efficient Hydrolytic Dehydrogenation of NH ₃ BH ₃ . <i>Advanced Energy Materials</i> , 2018, 8, 1702780.	10.2	66
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151	3D reduced graphene oxide aerogel-mediated Z-scheme photocatalytic system for highly efficient solar-driven water oxidation and removal of antibiotics. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 562-573.	10.8	231
152	Two-step hydrothermal synthesis of Sn ₂ Nb ₂ O ₇ nanocrystals with enhanced visible-light-driven H ₂ evolution activity. <i>Chinese Journal of Catalysis</i> , 2018, 39, 395-400.	6.9	17
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157	A core-satellite structured Z-scheme catalyst Cd _{0.5} Zn _{0.5} S/BiVO ₄ for highly efficient and stable photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16932-16942.	5.2	154
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