Tie-Rui Zhang

List of Publications by Year in Descending Order

292 papers	28,543 citations	94 h-index	163 g-index
323 ext. papers	35,076 ext. citations	12.8 avg, IF	7.74 L-index

#	Paper	IF	Citations
292	Artificial photocatalytic nitrogen fixation: Where are we now? Where is its future?. *Molecular Catalysis*, **2022**, 518, 112107	3.3	0
291	Vertical Graphene Array for Efficient Electrocatalytic Reduction of Oxygen to Hydrogen Peroxide. *Nano Energy*, **2022**, 107046	17.1	1
290	Deciphering the Dynamic Structure Evolution of Fe- and Ni-Codoped CoS2 for Enhanced Water Oxidation. *ACS Catalysis*, **2022**, 12, 3743-3751	13.1	4
289	Strain Engineering: A Boosting Strategy for Photocatalysis.. *Advanced Materials*, **2022**, e2200868	24	5
288	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. *Advanced Energy Materials*, **2022**, 12, 2103426	21.8	13
287	Fe Single-Atom Catalysts on MOF-5 Derived Carbon for Efficient Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. *Advanced Energy Materials*, **2022**, 12, 2102688	21.8	23
286	Ordered PtFeIr Intermetallic Nanowires Prepared through a Silica-Protection Strategy for the Oxygen Reduction Reaction. *Angewandte Chemie*, **2022**, 134,	3.6	2
285	Mesopore-rich Fe-N-C catalyst with FeN -O-NC Single Atom Sites Delivers Remarkable Oxygen Reduction Reaction Performance in Alkaline Media.. *Advanced Materials*, **2022**, e2202544	24	27
284	Nanostructured Photothermal Materials for Environmental and Catalytic Applications.. *Molecules*, **2021**, 26,	4.8	2
283	Efficient photocatalytic aerobic oxidation of bisphenol A via gas-liquid-solid triphase interfaces. *Materials Today Energy*, **2021**, 100908	7	2
282	A Rhenium Single-Atom Catalyst for the Electrocatalytic Oxygen Reduction Reaction.. *ChemPlusChem*, **2021**, 86, 1635-1639	2.8	1
281	Flux-Assisted Low Temperature Synthesis of SnNb2O6 Nanoplates with Enhanced Visible Light Driven Photocatalytic H2-Production. *Journal of Physical Chemistry C*, **2021**, 125, 23219-23225	3.8	1
280	Molten NaCl-Assisted Synthesis of Porous Fe-N-C Electrocatalysts with a High Density of Catalytically Accessible FeN4 Active Sites and Outstanding Oxygen Reduction Reaction Performance. *Advanced Energy Materials*, **2021**, 11, 2100219	21.8	58
279	Electronically Modified Atomic Sites Within a Multicomponent Co/Cu Composite for Efficient Oxygen Electroreduction. *Advanced Energy Materials*, **2021**, 11, 2100303	21.8	26
278	Recent Advancements of Porphyrin-Like Single-Atom Catalysts: Synthesis and Applications. *Small Structures*, **2021**, 2, 2100007	8.7	34
277	Efficient Combination of G-C N and CDs for Enhanced Photocatalytic Performance: A Review of Synthesis, Strategies, and Applications. *Small*, **2021**, 17, e2007523	11	32
276	Recent Advances in Noncontact External-Field-Assisted Photocatalysis: From Fundamentals to Applications. *ACS Catalysis*, **2021**, 11, 4739-4769	13.1	59

275	MIL-101-Derived Mesoporous Carbon Supporting Highly Exposed Fe Single-Atom Sites as Efficient Oxygen Reduction Reaction Catalysts. *Advanced Materials*, **2021**, 33, e2101038	24	94
274	Rationally Designed Ni□Ni3S2 Interfaces for Efficient Overall Water Electrolysis. *Advanced Energy and Sustainability Research*, **2021**, 2, 2100078	1.6	10
273	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	21.8	0
272	In Situ Detection of Low Amounts of Ammonia. *Trends in Chemistry*, **2021**, 3, 339-341	14.8	1
271	Layered double hydroxide-based photocatalytic materials toward renewable solar fuels production. *Informa□□Materi□y*, **2021**, 3, 719-738	23.1	42
270	Fe?N?C Electrocatalysts with Densely Accessible Fe?N4 Sites for Efficient Oxygen Reduction Reaction. *Advanced Functional Materials*, **2021**, 31, 2102420	15.6	29
269	Foreword to the Special Issue on Photocatalysis. *Transactions of Tianjin University*, **2021**, 27, 279-279	2.9	
268	Nitrogen-doped Zn□Ni oxide for electrochemical reduction of carbon dioxide in sea water. *Rare Metals*, **2021**, 40, 3117	5.5	3
267	Engineering local coordination environments and site densities for high-performance Fe-N-C oxygen reduction reaction electrocatalysis. *SmartMat*, **2021**, 2, 154-175	22.8	33
266	Emerging Solar Photocatalysis. *Solar Rrl*, **2021**, 5, 2100252	7.1	1
265	Sub-3 nm Ultrafine Cu O for Visible Light Driven Nitrogen Fixation. *Angewandte Chemie - International Edition*, **2021**, 60, 2554-2560	16.4	51
264	A Metal-Segregation Approach to Generate CoMn Alloy for Enhanced Photothermal Conversion of Syngas to Light Olefins. *Solar Rrl*, **2021**, 5, 2000488	7.1	8
263	Enhanced solar photoreduction of CO2 to liquid fuel over rGO grafted NiO-CeO2 heterostructure nanocomposite. *Nano Energy*, **2021**, 79, 105483	17.1	18
262	Band structure engineering and defect control of Ta3N5 with enhanced photoelectrochemical water oxidation performance. *Science Bulletin*, **2021**, 66, 651-652	10.6	0
261	Substitutionally Dispersed High-Oxidation CoOx Clusters in the Lattice of Rutile TiO2 Triggering Efficient Co?Ti Cooperative Catalytic Centers for Oxygen Evolution Reactions. *Advanced Functional Materials*, **2021**, 31, 2009610	15.6	38
260	Electrocatalytic Oxygen Reduction to Hydrogen Peroxide: From Homogeneous to Heterogeneous Electrocatalysis. *Advanced Energy Materials*, **2021**, 11, 2003323	21.8	45
259	Sub-3 nm Ultrafine Cu2O for Visible Light Driven Nitrogen Fixation. *Angewandte Chemie*, **2021**, 133, 2584-2590	3.6	5
258	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. *Angewandte Chemie*, **2021**, 133, 3327-3335	3.6	13

257	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. *Angewandte Chemie - International Edition*, **2021**, 60, 3290-3298	16.4	120
256	Atomic-Level Charge Separation Strategies in Semiconductor-Based Photocatalysts. *Advanced Materials*, **2021**, 33, e2005256	24	78
255	Research Progress on Triphase Interface Electrocatalytic Carbon Dioxide Reduction. *Acta Chimica Sinica*, **2021**, 79, 369	3.3	3
254	Fe-Based Catalysts for the Direct Photohydrogenation of CO2 to Value-Added Hydrocarbons. *Advanced Energy Materials*, **2021**, 11, 2002783	21.8	35
253	Solar Photocatalysis. *Solar Rrl*, **2021**, 5, 2100037	7.1	8
252	Heterostructured MoSe2/Oxygen-Terminated Ti3C2 MXene Architectures for Efficient Electrocatalytic Hydrogen Evolution. *Energy & Fuels*, **2021**, 35, 4609-4615	4.1	24
251	Metal-support interactions in designing noble metal-based catalysts for electrochemical CO2 reduction: Recent advances and future perspectives. *Nano Research*, **2021**, 14, 3795	10	16
250	Titania-Supported Ni P/Ni Catalysts for Selective Solar-Driven CO Hydrogenation. *Advanced Materials*, **2021**, 33, e2103248	24	12
249	Revealing Ammonia Quantification Minefield in Photo/Electrocatalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 21728-21731	16.4	10
248	Revealing Ammonia Quantification Minefield in Photo/Electrocatalysis. *Angewandte Chemie*, **2021**, 133, 21896-21899	3.6	3
247	Atomic Cation-Vacancy Engineering of NiFe-Layered Double Hydroxides for Improved Activity and Stability towards the Oxygen Evolution Reaction. *Angewandte Chemie*, **2021**, 133, 24817	3.6	5
246	Photothermal-Assisted Triphase Photocatalysis Over a Multifunctional Bilayer Paper. *Angewandte Chemie - International Edition*, **2021**, 60, 22963-22969	16.4	16
245	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	16.4	31
244	Photothermal-Assisted Triphase Photocatalysis Over a Multifunctional Bilayer Paper. *Angewandte Chemie*, **2021**, 133, 23145	3.6	0
243	Charge localization to optimize reactant adsorption on KCu7S4/CuO interfacial structure toward selective CO2 electroreduction. *Applied Catalysis B: Environmental*, **2021**, 298, 120531	21.8	5
242	Three-phase electrochemistry for green ethylene production. *Current Opinion in Electrochemistry*, **2021**, 30, 100789	7.2	2
241	Three Phase Interface Engineering for Advanced Catalytic Applications. *ACS Applied Energy Materials*, **2021**, 4, 1045-1052	6.1	10
240	Complex alloy nanostructures as advanced catalysts for oxygen electrocatalysis: from materials design to applications. *Journal of Materials Chemistry A*, **2020**, 8, 23142-23161	13	21

239	Recent Advances in the Development of Single-Atom Catalysts for Oxygen Electrocatalysis and Zinc–Air Batteries. *Advanced Energy Materials*, **2020**, 10, 2003018	21.8	72
238	Reassessing effects of Zn2+ toward oxygen electrocatalytic activity in ternary spinel. *Science Bulletin*, **2020**, 65, 974-976	10.6	2
237	Recent Advances in Conjugated Polymers for Visible-Light-Driven Water Splitting. *Advanced Materials*, **2020**, 32, e1907296	24	141
236	Tubular assemblies of N-doped carbon nanotubes loaded with NiFe alloy nanoparticles as efficient bifunctional catalysts for rechargeable zinc-air batteries. *Nanoscale*, **2020**, 12, 13129-13136	7.7	36
235	Efficient wettability-controlled electroreduction of CO to CO at Au/C interfaces. *Nature Communications*, **2020**, 11, 3028	17.4	119
234	Evolution of Zn(II) single atom catalyst sites during the pyrolysis-induced transformation of ZIF-8 to N-doped carbons. *Science Bulletin*, **2020**, 65, 1743-1751	10.6	47
233	Revealing active sites in N-doped carbon for CO2 electroreduction by well-defined molecular model catalysts. *Science Bulletin*, **2020**, 65, 781-782	10.6	2
232	Recent advances in niobium-based semiconductors for solar hydrogen production. *Coordination Chemistry Reviews*, **2020**, 419, 213399	23.2	24
231	Photocatalytic alkane production from fatty acid decarboxylation over hydrogenated catalyst. *Science Bulletin*, **2020**, 65, 870-871	10.6	1
230	Dynamic changes of single-atom Pt-C3N4 photocatalysts. *Science Bulletin*, **2020**, 65, 1055-1056	10.6	7
229	How to make use of methanol in green catalytic hydrogen production?. *Nano Select*, **2020**, 1, 12-29	3.1	23
228	Site- and Spatial-Selective Integration of Non-noble Metal Ions into Quantum Dots for Robust Hydrogen Photogeneration. *Matter*, **2020**, 3, 571-585	12.7	20
227	CoAl-layered double hydroxide nanosheet-based fluorescence assay for fast DNA detection. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 240, 118618	4.4	5
226	Cooperation of oxygen vacancies and 2D ultrathin structure promoting CO2 photoreduction performance of Bi4Ti3O12. *Science Bulletin*, **2020**, 65, 934-943	10.6	74
225	Single-atom Ni integrated gas diffusion electrode for high performance carbon dioxide electroreduction. *Science Bulletin*, **2020**, 65, 696-697	10.6	2
224	FeO–CeO2 nanocomposites: an efficient and highly selective catalyst system for photothermal CO2 reduction to CO. *NPG Asia Materials*, **2020**, 12,	10.3	48
223	Facet-charge-induced coupling dependent interfacial photocharge separation: A case of BiOI/g-C3N4 p-n junction. *Applied Catalysis B: Environmental*, **2020**, 267, 118697	21.8	104
222	Efficient Photocatalytic Nitrogen Fixation over Cu–Modified Defective ZnAl-Layered Double Hydroxide Nanosheets. *Advanced Energy Materials*, **2020**, 10, 1901973	21.8	82

221	Macroscopic Spontaneous Polarization and Surface Oxygen Vacancies Collaboratively Boosting CO Photoreduction on BiOIO Single Crystals. *Advanced Materials*, **2020**, 32, e1908350	24	212
220	Designed controllable nitrogen-doped carbon-dots-loaded MoP nanoparticles for boosting hydrogen evolution reaction in alkaline medium. *Nano Energy*, **2020**, 72, 104730	17.1	105
219	High-Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Single-Atom Catalysts with Tetradentate N2O2 Coordination in a Three-Phase Flow Cell. *Angewandte Chemie*, **2020**, 132, 13157-13162	3.6	8
218	High-Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Single-Atom Catalysts with Tetradentate N O Coordination in a Three-Phase Flow Cell. *Angewandte Chemie - International Edition*, **2020**, 59, 13057-13062	16.4	98
217	Selective photocatalytic CO2 reduction over Zn-based layered double hydroxides containing tri or tetravalent metals. *Science Bulletin*, **2020**, 65, 987-994	10.6	86
216	Energy-Efficient Hydrogen Production via Electrochemical Methanol Oxidation Using a Bifunctional Nickel Nanoparticle-Embedded Carbon Prism-Like Microrod Electrode. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2020**, 2007079-0	3.8	2
215	Porous Ni5P4 as a promising cocatalyst for boosting the photocatalytic hydrogen evolution reaction performance. *Applied Catalysis B: Environmental*, **2020**, 275, 119144	21.8	116
214	Hierarchical ultrathin carbon encapsulating transition metal doped MoP electrocatalysts for efficient and pH-universal hydrogen evolution reaction. *Nano Energy*, **2020**, 70, 104445	17.1	61
213	Two-dimensional photocatalyst design: A critical review of recent experimental and computational advances. *Materials Today*, **2020**, 34, 78-91	21.8	116
212	Manganese Oxide Modified Nickel Catalysts for Photothermal CO Hydrogenation to Light Olefins. *Advanced Energy Materials*, **2020**, 10, 1902860	21.8	28
211	Wettability controlled photocatalytic reactive oxygen generation and Klebsiella pneumoniae inactivation over triphase systems. *Applied Catalysis B: Environmental*, **2020**, 264, 118518	21.8	35
210	A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. *Angewandte Chemie*, **2020**, 132, 1735-1743	3.6	26
209	A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. *Angewandte Chemie - International Edition*, **2020**, 59, 1718-1726	16.4	250
208	Effect of Support on Catalytic Performance of Photothermal Fischer-Tropsch Synthesis to Produce Lower Olefins over Fe5C2-based Catalysts. *Chemical Research in Chinese Universities*, **2020**, 36, 1006-1012	2.2	8
207	Underwater superaerophobic Ni nanoparticle-decorated nickel molybdenum nitride nanowire arrays for hydrogen evolution in neutral media. *Nano Energy*, **2020**, 78, 105375	17.1	58
206	Alkali Etching of Layered Double Hydroxide Nanosheets for Enhanced Photocatalytic N2 Reduction to NH3. *Advanced Energy Materials*, **2020**, 10, 2002199	21.8	78
205	Electrochemical urea production directly from N2 and CO2 in ambient aqueous media. *Science China Chemistry*, **2020**, 63, 1580-1581	7.9	3
204	Photocatalytic CO2 Reduction to CO over Ni Single Atoms Supported on Defect-Rich Zirconia. *Advanced Energy Materials*, **2020**, 10, 2002928	21.8	92

203	Piezocatalysis and Piezo-Photocatalysis: Catalysts Classification and Modification Strategy, Reaction Mechanism, and Practical Application. *Advanced Functional Materials*, **2020**, 30, 2005158	15.6	133
202	Perylene diimide self-assembly: From electronic structural modulation to photocatalytic applications. *Journal of Semiconductors*, **2020**, 41, 091708	2.3	9
201	The Journey toward Low Temperature, Low Pressure Catalytic Nitrogen Fixation. *Advanced Energy Materials*, **2020**, 10, 2000659	21.8	56
200	Defect Engineering in Photocatalytic Nitrogen Fixation. *ACS Catalysis*, **2019**, 9, 9739-9750	13.1	163
199	Editorial for rare metals, special issue on photocatalysis. *Rare Metals*, **2019**, 38, 359-360	5.5	5
198	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. *Angewandte Chemie*, **2019**, 131, 12754-12761	3.6	38
197	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. *Angewandte Chemie - International Edition*, **2019**, 58, 12624-12631	16.4	209
196	A Simple Synthetic Strategy toward Defect-Rich Porous Monolayer NiFe-Layered Double Hydroxide Nanosheets for Efficient Electrocatalytic Water Oxidation. *Advanced Energy Materials*, **2019**, 9, 1900881	21.8	220
195	A Photochemical Route towards Metal Sulfide Nanosheets from Layered Metal Thiolate Complexes. *Angewandte Chemie - International Edition*, **2019**, 58, 8443-8447	16.4	24
194	A Photochemical Route towards Metal Sulfide Nanosheets from Layered Metal Thiolate Complexes. *Angewandte Chemie*, **2019**, 131, 8531	3.6	
193	Supramolecular precursor strategy for the synthesis of holey graphitic carbon nitride nanotubes with enhanced photocatalytic hydrogen evolution performance. *Nano Research*, **2019**, 12, 2385-2389	10	115
192	Three-dimensional porous g-C3N4 for highly efficient photocatalytic overall water splitting. *Nano Energy*, **2019**, 59, 644-650	17.1	347
191	Von Sonnenlicht zu Brennstoffen: aktuelle Fortschritte der C1-Solarchemie. *Angewandte Chemie*, **2019**, 131, 17690-17715	3.6	20
190	From Solar Energy to Fuels: Recent Advances in Light-Driven C Chemistry. *Angewandte Chemie - International Edition*, **2019**, 58, 17528-17551	16.4	181
189	Tuning Oxygen Vacancies in Ultrathin TiO Nanosheets to Boost Photocatalytic Nitrogen Fixation up to 700 nm. *Advanced Materials*, **2019**, 31, e1806482	24	452
188	Intrinsic Carbon-Defect-Driven Electrocatalytic Reduction of Carbon Dioxide. *Advanced Materials*, **2019**, 31, e1808276	24	155
187	Photothermal hydrocarbon synthesis using alumina-supported cobalt metal nanoparticle catalysts derived from layered-double-hydroxide nanosheets. *Nano Energy*, **2019**, 60, 467-475	17.1	43
186	Pd Single-Atom Catalysts on Nitrogen-Doped Graphene for the Highly Selective Photothermal Hydrogenation of Acetylene to Ethylene. *Advanced Materials*, **2019**, 31, e1900509	24	164

185	Photocatalytic ammonia synthesis: Recent progress and future. *EnergyChem*, **2019**, 1, 100013	36.9	109
184	A universal ligand mediated method for large scale synthesis of transition metal single atom catalysts. *Nature Communications*, **2019**, 10, 4585	17.4	219
183	Self-crosslinking carbon dots loaded ruthenium dots as an efficient and super-stable hydrogen production electrocatalyst at all pH values. *Nano Energy*, **2019**, 65, 104023	17.1	80
182	Hollow PtFe Alloy Nanoparticles Derived from Pt-Fe O Dimers through a Silica-Protection Reduction Strategy as Efficient Oxygen Reduction Electrocatalysts. *Chemistry - A European Journal*, **2019**, 26, 4090	4.8	14
181	Two-dimensional Sn2Ta2O7 nanosheets as efficient visible light-driven photocatalysts for hydrogen evolution. *Rare Metals*, **2019**, 38, 397-403	5.5	33
180	Ammonia Detection Methods in Photocatalytic and Electrocatalytic Experiments: How to Improve the Reliability of NH Production Rates?. *Advanced Science*, **2019**, 6, 1802109	13.6	220
179	Two-dimensional-related catalytic materials for solar-driven conversion of CO into valuable chemical feedstocks. *Chemical Society Reviews*, **2019**, 48, 1972-2010	58.5	233
178	Ultrafine monolayer Co-containing layered double hydroxide nanosheets for water oxidation. *Journal of Energy Chemistry*, **2019**, 34, 57-63	12	56
177	Sub-3 nm Ultrafine Monolayer Layered Double Hydroxide Nanosheets for Electrochemical Water Oxidation. *Advanced Energy Materials*, **2018**, 8, 1703585	21.8	190
176	Self-assembling and photophysical properties of the organogelators based on cyanostyryl-substituted carbazoles. *Comptes Rendus Chimie*, **2018**, 21, 88-96	2.7	2
175	Silica-Protected Ultrathin Ni3FeN Nanocatalyst for the Efficient Hydrolytic Dehydrogenation of NH3BH3. *Advanced Energy Materials*, **2018**, 8, 1702780	21.8	48
174	Template-free large-scale synthesis of g-C3N4 microtubes for enhanced visible light-driven photocatalytic H2 production. *Nano Research*, **2018**, 11, 3462-3468	10	149
173	Photothermal CO2 Hydrogenation: Alumina-Supported CoFe Alloy Catalysts Derived from Layered-Double-Hydroxide Nanosheets for Efficient Photothermal CO2 Hydrogenation to Hydrocarbons (Adv. Mater. 3/2018). *Advanced Materials*, **2018**, 30, 1870015	24	2
172	Readily achieving concentration-tunable oxygen vacancies in Bi2O2CO3: Triple-functional role for efficient visible-light photocatalytic redox performance. *Applied Catalysis B: Environmental*, **2018**, 226, 441-450	21.8	108
171	3D reduced graphene oxide aerogel-mediated Z-scheme photocatalytic system for highly efficient solar-driven water oxidation and removal of antibiotics. *Applied Catalysis B: Environmental*, **2018**, 232, 562-573	21.8	189
170	Two-step hydrothermal synthesis of Sn2Nb2O7 nanocrystals with enhanced visible-light-driven H2 evolution activity. *Chinese Journal of Catalysis*, **2018**, 39, 395-400	11.3	12
169	A core□satellite structured Z-scheme catalyst Cd0.5Zn0.5S/BiVO4 for highly efficient and stable photocatalytic water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 16932-16942	13	106
168	Reductive Transformation of Layered-Double-Hydroxide Nanosheets to Fe-Based Heterostructures for Efficient Visible-Light Photocatalytic Hydrogenation of CO. *Advanced Materials*, **2018**, 30, e1803127	24	70

167	Photothermal Catalysis: Co-Based Catalysts Derived from Layered-Double-Hydroxide Nanosheets for the Photothermal Production of Light Olefins (Adv. Mater. 31/2018). *Advanced Materials*, **2018**, 30, 1870230	24	4
166	Anchored Cu(II) tetra(4-carboxylphenyl)porphyrin to P25 (TiO2) for efficient photocatalytic ability in CO2 reduction. *Applied Catalysis B: Environmental*, **2018**, 239, 599-608	21.8	92
165	Black phosphorus quantum dot/g-C3N4 composites for enhanced CO2 photoreduction to CO. *Science China Materials*, **2018**, 61, 1159-1166	7.1	84
164	Co-Based Catalysts Derived from Layered-Double-Hydroxide Nanosheets for the Photothermal Production of Light Olefins. *Advanced Materials*, **2018**, 30, e1800527	24	92
163	Nanocrystals@Hollow Mesoporous Silica Reverse-Bumpy-Ball Structure Nanoreactors by a Versatile Microemulsion-Templated Approach. *Small Methods*, **2018**, 2, 1800105	12.8	17
162	Evolution of thiolate-stabilized Ag nanoclusters from Ag-thiolate cluster intermediates. *Nature Communications*, **2018**, 9, 2379	17.4	39
161	Alumina-Supported CoFe Alloy Catalysts Derived from Layered-Double-Hydroxide Nanosheets for Efficient Photothermal CO Hydrogenation to Hydrocarbons. *Advanced Materials*, **2018**, 30, 1704663	24	208
160	An ion-exchange strategy for I-doped BiOCOOH nanoplates with enhanced visible light photocatalytic NOx removal. *Pure and Applied Chemistry*, **2018**, 90, 353-361	2.1	7
159	Thickness-Dependent Facet Junction Control of Layered BiOIO3 Single Crystals for Highly Efficient CO2 Photoreduction. *Advanced Functional Materials*, **2018**, 28, 1804284	15.6	275
158	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. *Nano Energy*, **2018**, 50, 383-392	17.1	158
157	Naked Magnetically Recyclable Mesoporous Au Fe2O3 Nanocrystal Clusters: A Highly Integrated Catalyst System. *Advanced Functional Materials*, **2017**, 27, 1606215	15.6	71
156	Alkali-Assisted Synthesis of Nitrogen Deficient Graphitic Carbon Nitride with Tunable Band Structures for Efficient Visible-Light-Driven Hydrogen Evolution. *Advanced Materials*, **2017**, 29, 1605148	24	951
155	Catalysts: Naked Magnetically Recyclable Mesoporous Au Fe2O3 Nanocrystal Clusters: A Highly Integrated Catalyst System (Adv. Funct. Mater. 9/2017). *Advanced Functional Materials*, **2017**, 27,	15.6	1
154	Nickel-Cobalt Diselenide 3D Mesoporous Nanosheet Networks Supported on Ni Foam: An All-pH Highly Efficient Integrated Electrocatalyst for Hydrogen Evolution. *Advanced Materials*, **2017**, 29, 1606521	24	301
153	Readily attainable spongy foam photocatalyst for promising practical photocatalysis. *Applied Catalysis B: Environmental*, **2017**, 208, 75-81	21.8	28
152	Photocatalysis: Alkali-Assisted Synthesis of Nitrogen Deficient Graphitic Carbon Nitride with Tunable Band Structures for Efficient Visible-Light-Driven Hydrogen Evolution (Adv. Mater. 16/2017). *Advanced Materials*, **2017**, 29,	24	7
151	Self-Assembled Au/CdSe Nanocrystal Clusters for Plasmon-Mediated Photocatalytic Hydrogen Evolution. *Advanced Materials*, **2017**, 29, 1700803	24	258
150	Defect-Engineered Ultrathin MnO2 Nanosheet Arrays as Bifunctional Electrodes for Efficient Overall Water Splitting. *Advanced Energy Materials*, **2017**, 7, 1700005	21.8	373

149	Electrocatalysts: Nickel□Cobalt Diselenide 3D Mesoporous Nanosheet Networks Supported on Ni Foam: An All-pH Highly Efficient Integrated Electrocatalyst for Hydrogen Evolution (Adv. Mater. 19/2017). *Advanced Materials*, **2017**, 29,	24	43
148	Precursor-reforming protocol to 3D mesoporous g-C3N4 established by ultrathin self-doped nanosheets for superior hydrogen evolution. *Nano Energy*, **2017**, 38, 72-81	17.1	441
147	Graphene with Atomic-Level In-Plane Decoration of h-BN Domains for Efficient Photocatalysis. *Chemistry of Materials*, **2017**, 29, 2769-2776	9.6	50
146	Layered-Double-Hydroxide Nanosheets as Efficient Visible-Light-Driven Photocatalysts for Dinitrogen Fixation. *Advanced Materials*, **2017**, 29, 1703828	24	342
145	Intermediate-mediated strategy to horn-like hollow mesoporous ultrathin g-C3N4 tube with spatial anisotropic charge separation for superior photocatalytic H2 evolution. *Nano Energy*, **2017**, 41, 738-748	17.1	179
144	3D carbon nanoframe scaffold-immobilized Ni3FeN nanoparticle electrocatalysts for rechargeable zinc-air batteries□cathodes. *Nano Energy*, **2017**, 40, 382-389	17.1	116
143	Achieving UV and visible-light photocatalytic activity enhancement of AgI/BiOIO3 heterostructure: Decomposition for diverse industrial contaminants and high mineralization ability. *Chinese Chemical Letters*, **2017**, 28, 2244-2250	8.1	37
142	Water Splitting: Defect-Engineered Ultrathin □MnO2 Nanosheet Arrays as Bifunctional Electrodes for Efficient Overall Water Splitting (Adv. Energy Mater. 18/2017). *Advanced Energy Materials*, **2017**, 7,	21.8	3
141	Recent Progress in Photocatalytic CO2 Reduction Over Perovskite Oxides. *Solar Rrl*, **2017**, 1, 1700126	7.1	163
140	NiFe Layered Double Hydroxide Nanoparticles on Co,N-Codoped Carbon Nanoframes as Efficient Bifunctional Catalysts for Rechargeable Zinc□Air Batteries. *Advanced Energy Materials*, **2017**, 7, 1700467	21.8	280
139	Macroscopic Polarization Enhancement Promoting Photo- and Piezoelectric-Induced Charge Separation and Molecular Oxygen Activation. *Angewandte Chemie - International Edition*, **2017**, 56, 11860-11864	16.1	662
138	Macroscopic Polarization Enhancement Promoting Photo- and Piezoelectric-Induced Charge Separation and Molecular Oxygen Activation. *Angewandte Chemie*, **2017**, 129, 12022-12026	3.6	55
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