Tie-Rui Zhang

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

#	Paper	IF	Citations
292	Alkali-Assisted Synthesis of Nitrogen Deficient Graphitic Carbon Nitride with Tunable Band Structures for Efficient Visible-Light-Driven Hydrogen Evolution. <i>Advanced Materials</i> , 2017 , 29, 160514	8 ²⁴	951
291	Macroscopic Polarization Enhancement Promoting Photo- and Piezoelectric-Induced Charge Separation and Molecular Oxygen Activation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1180	50-9- 1 8	6462
290	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO32Doped Bi2O2CO3. <i>ACS Catalysis</i> , 2015 , 5, 4094-4103	13.1	596
289	Nitrogen-Doped Porous Carbon Nanosheets Templated from g-C3 N4 as Metal-Free Electrocatalysts for Efficient Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2016 , 28, 5080-6	24	573
288	Well-Dispersed ZIF-Derived Co,N-Co-doped Carbon Nanoframes through Mesoporous-Silica-Protected Calcination as Efficient Oxygen Reduction Electrocatalysts. <i>Advanced Materials</i> , 2016 , 28, 1668-74	24	558
287	Permeable silica shell through surface-protected etching. <i>Nano Letters</i> , 2008 , 8, 2867-71	11.5	526
286	Ni3FeN Nanoparticles Derived from Ultrathin NiFe-Layered Double Hydroxide Nanosheets: An Efficient Overall Water Splitting Electrocatalyst. <i>Advanced Energy Materials</i> , 2016 , 6, 1502585	21.8	522
285	Carbon quantum dots/TiO2 composites for efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3344	13	510
284	In situ assembly of BiOI@Bi 12 O 17 Cl 2 p - n junction: charge induced unique front-lateral surfaces coupling heterostructure with high exposure of BiOI {001} active facets for robust and nonselective photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 75-86	21.8	494
283	Smart Utilization of Carbon Dots in Semiconductor Photocatalysis. Advanced Materials, 2016, 28, 9454-	9477	483
282	Tuning Oxygen Vacancies in Ultrathin TiO Nanosheets to Boost Photocatalytic Nitrogen Fixation up to 700 nm. <i>Advanced Materials</i> , 2019 , 31, e1806482	24	452
281	Ultrafine NiO Nanosheets Stabilized by TiO2 from Monolayer NiTi-LDH Precursors: An Active Water Oxidation Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6517-24	16.4	452
280	Defect-Rich Ultrathin ZnAl-Layered Double Hydroxide Nanosheets for Efficient Photoreduction of CO2 to CO with Water. <i>Advanced Materials</i> , 2015 , 27, 7824-31	24	445
279	Precursor-reforming protocol to 3D mesoporous g-C3N4 established by ultrathin self-doped nanosheets for superior hydrogen evolution. <i>Nano Energy</i> , 2017 , 38, 72-81	17.1	441
278	Core-satellite nanocomposite catalysts protected by a porous silica shell: controllable reactivity, high stability, and magnetic recyclability. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8924-8	16.4	421
277	Defect-Engineered Ultrathin EMnO2 Nanosheet Arrays as Bifunctional Electrodes for Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2017 , 7, 1700005	21.8	373
276	Three-dimensional porous g-C3N4 for highly efficient photocatalytic overall water splitting. <i>Nano Energy</i> , 2019 , 59, 644-650	17.1	347

275	Layered-Double-Hydroxide Nanosheets as Efficient Visible-Light-Driven Photocatalysts for Dinitrogen Fixation. <i>Advanced Materials</i> , 2017 , 29, 1703828	24	342
274	Graphene-supported ultrafine metal nanoparticles encapsulated by mesoporous silica: robust catalysts for oxidation and reduction reactions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 250-4	16.4	341
273	Site-specific nucleation and growth kinetics in hierarchical nanosyntheses of branched ZnO crystallites. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10960-8	16.4	340
272	Shape Effects of Cu2O Polyhedral Microcrystals on Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5073-5079	3.8	330
271	A general approach for transferring hydrophobic nanocrystals into water. <i>Nano Letters</i> , 2007 , 7, 3203-7	11.5	325
270	Bi2O2(OH)(NO3) as a desirable [Bi2O2]2+ layered photocatalyst: strong intrinsic polarity, rational band structure and {001} active facets co-beneficial for robust photooxidation capability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24547-24556	13	310
269	Nickel-Cobalt Diselenide 3D Mesoporous Nanosheet Networks Supported on Ni Foam: An All-pH Highly Efficient Integrated Electrocatalyst for Hydrogen Evolution. <i>Advanced Materials</i> , 2017 , 29, 16065	21	301
268	Layered Double Hydroxide Nanostructured Photocatalysts for Renewable Energy Production. <i>Advanced Energy Materials</i> , 2016 , 6, 1501974	21.8	289
267	Formation of hollow silica colloids through a spontaneous dissolution-regrowth process. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5806-11	16.4	283
266	NiFe Layered Double Hydroxide Nanoparticles on Co,N-Codoped Carbon Nanoframes as Efficient Bifunctional Catalysts for Rechargeable ZincAir Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1700467	21.8	280
265	Mediator-free direct Z-scheme photocatalytic system: BiVO4/g-C3N4 organic-inorganic hybrid photocatalyst with highly efficient visible-light-induced photocatalytic activity. <i>Dalton Transactions</i> , 2015 , 44, 4297-307	4.3	275
264	Thickness-Dependent Facet Junction Control of Layered BiOIO3 Single Crystals for Highly Efficient CO2 Photoreduction. <i>Advanced Functional Materials</i> , 2018 , 28, 1804284	15.6	275
263	Template-free precursor-surface-etching route to porous, thin g-C3N4 nanosheets for enhancing photocatalytic reduction and oxidation activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17452-17463	13	260
262	Self-Assembled Au/CdSe Nanocrystal Clusters for Plasmon-Mediated Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2017 , 29, 1700803	24	258
261	In situ co-pyrolysis fabrication of CeO2/g-C3N4 nll type heterojunction for synchronously promoting photo-induced oxidation and reduction properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17120-17129	13	256
260	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	16.4	250
259	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 465-474	21.8	241
258	Two-dimensional-related catalytic materials for solar-driven conversion of CO into valuable chemical feedstocks. <i>Chemical Society Reviews</i> , 2019 , 48, 1972-2010	58.5	233

257	Rational design on 3D hierarchical bismuth oxyiodides via in situ self-template phase transformation and phase-junction construction for optimizing photocatalysis against diverse contaminants. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 879-888	21.8	230
256	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	21.8	220
255	Ammonia Detection Methods in Photocatalytic and Electrocatalytic Experiments: How to Improve the Reliability of NH Production Rates?. <i>Advanced Science</i> , 2019 , 6, 1802109	13.6	220
254	A universal ligand mediated method for large scale synthesis of transition metal single atom catalysts. <i>Nature Communications</i> , 2019 , 10, 4585	17.4	219
253	Single-unit-cell layer established Bi2WO6 3D hierarchical architectures: Efficient adsorption, photocatalysis and dye-sensitized photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 526-537	21.8	217
252	Macroscopic Spontaneous Polarization and Surface Oxygen Vacancies Collaboratively Boosting CO Photoreduction on BiOIO Single Crystals. <i>Advanced Materials</i> , 2020 , 32, e1908350	24	212
251	A Nanozyme with Photo-Enhanced Dual Enzyme-Like Activities for Deep Pancreatic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12624-12631	16.4	209
250	Superparamagnetic composite colloids with anisotropic structures. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8974-5	16.4	209
249	Alumina-Supported CoFe Alloy Catalysts Derived from Layered-Double-Hydroxide Nanosheets for Efficient Photothermal CO Hydrogenation to Hydrocarbons. <i>Advanced Materials</i> , 2018 , 30, 1704663	24	208
248	Metal-Organic-Framework-Derived Mesoporous Carbon Nanospheres Containing Porphyrin-Like Metal Centers for Conformal Phototherapy. <i>Advanced Materials</i> , 2016 , 28, 8379-8387	24	207
247	A Self-Templated Route to Hollow Silica Microspheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3168-	331875	201
246	CdS Nanoparticle-Decorated Cd Nanosheets for Efficient Visible Light-Driven Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016 , 6, 1501241	21.8	193
245	Sub-3 nm Ultrafine Monolayer Layered Double Hydroxide Nanosheets for Electrochemical Water Oxidation. <i>Advanced Energy Materials</i> , 2018 , 8, 1703585	21.8	190
244	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	21.8	189
243	From Solar Energy to Fuels: Recent Advances in Light-Driven C Chemistry. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17528-17551	16.4	181
242	Underwater superoleophobic porous membrane based on hierarchical TiO2 nanotubes: multifunctional integration of oilwater separation, flow-through photocatalysis and self-cleaning. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1279-1286	13	181
241	Intermediate-mediated strategy to horn-like hollow mesoporous ultrathin g-C3N4 tube with spatial anisotropic charge separation for superior photocatalytic H2 evolution. <i>Nano Energy,</i> 2017 , 41, 738-748	17.1	179
240	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	24	164

239	Defect Engineering in Photocatalytic Nitrogen Fixation. ACS Catalysis, 2019, 9, 9739-9750	13.1	163
238	Recent Progress in Photocatalytic CO2 Reduction Over Perovskite Oxides. <i>Solar Rrl</i> , 2017 , 1, 1700126	7.1	163
237	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. <i>Nano Energy</i> , 2018 , 50, 383-392	17.1	158
236	Oxide-Modified Nickel Photocatalysts for the Production of Hydrocarbons in Visible Light. Angewandte Chemie - International Edition, 2016 , 55, 4215-9	16.4	157
235	Intrinsic Carbon-Defect-Driven Electrocatalytic Reduction of Carbon Dioxide. <i>Advanced Materials</i> , 2019 , 31, e1808276	24	155
234	Highly photoluminescent polyoxometaloeuropate-surfactant complexes by ionic self-assembly. <i>Chemistry - A European Journal</i> , 2005 , 11, 1001-9	4.8	153
233	Template-free large-scale synthesis of g-C3N4 microtubes for enhanced visible light-driven photocatalytic H2 production. <i>Nano Research</i> , 2018 , 11, 3462-3468	10	149
232	Facile synthesis of hierarchical ZnIn2S4 submicrospheres composed of ultrathin mesoporous nanosheets as a highly efficient visible-light-driven photocatalyst for H2 production. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4552	13	149
231	Multishelled Ni-Rich Li(Ni Co Mn)O Hollow Fibers with Low Cation Mixing as High-Performance Cathode Materials for Li-Ion Batteries. <i>Advanced Science</i> , 2017 , 4, 1600262	13.6	145
230	Highly luminescent nitrogen-doped carbon quantum dots as effective fluorescent probes for mercuric and iodide ions. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1922-1928	7.1	144
229	CoreBatellite Nanocomposite Catalysts Protected by a Porous Silica Shell: Controllable Reactivity, High Stability, and Magnetic Recyclability. <i>Angewandte Chemie</i> , 2008 , 120, 9056-9060	3.6	143
228	Recent Advances in Conjugated Polymers for Visible-Light-Driven Water Splitting. <i>Advanced Materials</i> , 2020 , 32, e1907296	24	141
227	In Situ Co-Crystallization for Fabrication of g-C3N4/Bi5O7I Heterojunction for Enhanced Visible-Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17156-17165	3.8	138
226	Magnetically recyclable nanocatalysts (MRNCs): a versatile integration of high catalytic activity and facile recovery. <i>Nanoscale</i> , 2012 , 4, 6244-55	7.7	133
225	Piezocatalysis and Piezo-Photocatalysis: Catalysts Classification and Modification Strategy, Reaction Mechanism, and Practical Application. <i>Advanced Functional Materials</i> , 2020 , 30, 2005158	15.6	133
224	Organized Nanostructured Complexes of Polyoxometalates and Surfactants that Exhibit Photoluminescence and Electrochromism. <i>Advanced Functional Materials</i> , 2009 , 19, 642-652	15.6	132
223	A self-templated approach to TiO2 microcapsules. <i>Nano Letters</i> , 2007 , 7, 1832-6	11.5	130
222	Controllable synthesis of multi-responsive ferroelectric layered perovskite-like Bi4Ti3O12: Photocatalysis and piezoelectric-catalysis and mechanism insight. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 550-562	21.8	129

221	Effect of Nitrogen Doping Level on the Performance of N-Doped Carbon Quantum Dot/TiO Composites for Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2017 , 10, 4650-4656	8.3	127
220	Hydrothermal synthesis and structure evolution of hierarchical cobalt sulfide nanostructures. <i>Dalton Transactions</i> , 2011 , 40, 243-8	4.3	124
219	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3290-3298	16.4	120
218	Efficient wettability-controlled electroreduction of CO to CO at Au/C interfaces. <i>Nature Communications</i> , 2020 , 11, 3028	17.4	119
217	Graphene-Supported Ultrafine Metal Nanoparticles Encapsulated by Mesoporous Silica: Robust Catalysts for Oxidation and Reduction Reactions. <i>Angewandte Chemie</i> , 2014 , 126, 254-258	3.6	118
216	3D carbon nanoframe scaffold-immobilized Ni3FeN nanoparticle electrocatalysts for rechargeable zinc-air batterieslæthodes. <i>Nano Energy</i> , 2017 , 40, 382-389	17.1	116
215	Porous Ni5P4 as a promising cocatalyst for boosting the photocatalytic hydrogen evolution reaction performance. <i>Applied Catalysis B: Environmental</i> , 2020 , 275, 119144	21.8	116
214	Two-dimensional photocatalyst design: A critical review of recent experimental and computational advances. <i>Materials Today</i> , 2020 , 34, 78-91	21.8	116
213	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	10	115
212	In situ crystallization for fabrication of a core-satellite structured BiOBr-CdS heterostructure with excellent visible-light-responsive photoreactivity. <i>Nanoscale</i> , 2015 , 7, 11702-11	7.7	115
211	Self-assembly and field-responsive optical diffractions of superparamagnetic colloids. <i>Langmuir</i> , 2008 , 24, 3671-80	4	114
210	Photocatalytic ammonia synthesis: Recent progress and future. <i>EnergyChem</i> , 2019 , 1, 100013	36.9	109
209	Readily achieving concentration-tunable oxygen vacancies in Bi2O2CO3: Triple-functional role for efficient visible-light photocatalytic redox performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 441-450	21.8	108
208	Control over the permeation of silica nanoshells by surface-protected etching with water. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11836-42	3.6	108
207	A coreBatellite structured Z-scheme catalyst Cd0.5Zn0.5S/BiVO4 for highly efficient and stable photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16932-16942	13	106
206	Designed controllable nitrogen-doped carbon-dots-loaded MoP nanoparticles for boosting hydrogen evolution reaction in alkaline medium. <i>Nano Energy</i> , 2020 , 72, 104730	17.1	105
205	Facet-charge-induced coupling dependent interfacial photocharge separation: A case of BiOI/g-C3N4 p-n junction. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118697	21.8	104
204	Spontaneous organization of inorganic nanoparticles into nanovesicles triggered by UV light. <i>Advanced Materials</i> , 2014 , 26, 5613-8	24	104

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203	Synchronously Achieving Plasmonic Bi Metal Deposition and I(-) Doping by Utilizing BiOIO3 as the Self-Sacrificing Template for High-Performance Multifunctional Applications. <i>ACS Applied Materials & Materials (Amp; Interfaces</i> , 2015 , 7, 27925-33	9.5	99	
202	Ni3+ doped monolayer layered double hydroxide nanosheets as efficient electrodes for supercapacitors. <i>Nanoscale</i> , 2015 , 7, 7168-73	7.7	98	
201	High-Efficiency Oxygen Reduction to Hydrogen Peroxide Catalyzed by Nickel Single-Atom Catalysts with Tetradentate N O Coordination in a Three-Phase Flow Cell. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13057-13062	16.4	98	
200	Multifunctional Nanowire Bioscaffolds on Titanium. <i>Chemistry of Materials</i> , 2007 , 19, 4454-4459	9.6	94	
199	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	24	94	
198	Anchored Cu(II) tetra(4-carboxylphenyl)porphyrin to P25 (TiO2) for efficient photocatalytic ability in CO2 reduction. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 599-608	21.8	92	
197	Co-Based Catalysts Derived from Layered-Double-Hydroxide Nanosheets for the Photothermal Production of Light Olefins. <i>Advanced Materials</i> , 2018 , 30, e1800527	24	92	
196	Photocatalytic CO2 Reduction to CO over Ni Single Atoms Supported on Defect-Rich Zirconia. <i>Advanced Energy Materials</i> , 2020 , 10, 2002928	21.8	92	
195	Highly Efficient Bi2O2CO3 Single-Crystal Lamellas with Dominantly Exposed (001) Facets. <i>Crystal Growth and Design</i> , 2015 , 15, 534-537	3.5	88	
194	Selective photocatalytic CO2 reduction over Zn-based layered double hydroxides containing tri or tetravalent metals. <i>Science Bulletin</i> , 2020 , 65, 987-994	10.6	86	
193	Black phosphorus quantum dot/g-C3N4 composites for enhanced CO2 photoreduction to CO. <i>Science China Materials</i> , 2018 , 61, 1159-1166	7.1	84	
192	Controllable Synthesis of Ultrathin Transition-Metal Hydroxide Nanosheets and their Extended Composite Nanostructures for Enhanced Catalytic Activity in the Heck Reaction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2167-70	16.4	83	
191	Efficient Photocatalytic Nitrogen Fixation over Cu\(\textit{H}\)-Modified Defective ZnAl-Layered Double Hydroxide Nanosheets. <i>Advanced Energy Materials</i> , 2020 , 10, 1901973	21.8	82	
190	Facile preparation of black Nb4+ self-doped K4Nb6O17 microspheres with high solar absorption and enhanced photocatalytic activity. <i>Chemical Communications</i> , 2014 , 50, 9554-6	5.8	81	
189	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	17.1	80	
188	Cu2O Film via Hydrothermal Redox Approach: Morphology and Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16335-16343	3.8	79	
187	Alkali Etching of Layered Double Hydroxide Nanosheets for Enhanced Photocatalytic N2 Reduction to NH3. <i>Advanced Energy Materials</i> , 2020 , 10, 2002199	21.8	78	
186	Atomic-Level Charge Separation Strategies in Semiconductor-Based Photocatalysts. <i>Advanced Materials</i> , 2021 , 33, e2005256	24	78	

185	Bubble template synthesis of Sn2Nb2O7 hollow spheres for enhanced visible-light-driven photocatalytic hydrogen production. <i>Chemical Communications</i> , 2013 , 49, 9872-4	5.8	75
184	Cooperation of oxygen vacancies and 2D ultrathin structure promoting CO2 photoreduction performance of Bi4Ti3O12. <i>Science Bulletin</i> , 2020 , 65, 934-943	10.6	74
183	Recent Advances in the Development of Single-Atom Catalysts for Oxygen Electrocatalysis and Zinc Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2003018	21.8	72
182	Naked Magnetically Recyclable Mesoporous Au Fe2O3 Nanocrystal Clusters: A Highly Integrated Catalyst System. <i>Advanced Functional Materials</i> , 2017 , 27, 1606215	15.6	71
181	Reductive Transformation of Layered-Double-Hydroxide Nanosheets to Fe-Based Heterostructures for Efficient Visible-Light Photocatalytic Hydrogenation of CO. <i>Advanced Materials</i> , 2018 , 30, e1803127	24	70
180	Formation of Hollow Silica Colloids through a Spontaneous DissolutionRegrowth Process. <i>Angewandte Chemie</i> , 2008 , 120, 5890-5895	3.6	69
179	Facile synthesis of ultrathin SnNb2O6 nanosheets towards improved visible-light photocatalytic H2-production activity. <i>Chemical Communications</i> , 2016 , 52, 8239-42	5.8	68
178	Mesoporous plasmonic Au-loaded Ta2O5 nanocomposites for efficient visible light photocatalysis. <i>Catalysis Today</i> , 2014 , 225, 158-163	5.3	68
177	Multifunctional, catalytic nanowire membranes and the membrane-based 3D devices. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16819-22	3.4	67
176	Architecture-controlled synthesis of MxOy (M = Ni, Fe, Cu) microfibres from seaweed biomass for high-performance lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22708-22715	13	62
175	Shape-controlled synthesis of polyhedral 50-facet Cu2O microcrystals with high-index facets. CrystEngComm, 2012 , 14, 4431	3.3	62
174	Hierarchical ultrathin carbon encapsulating transition metal doped MoP electrocatalysts for efficient and pH-universal hydrogen evolution reaction. <i>Nano Energy</i> , 2020 , 70, 104445	17.1	61
173	Achieving tunable photocatalytic activity enhancement by elaborately engineering composition-adjustable polynary heterojunctions photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2016 , 194, 62-73	21.8	61
172	Recent Advances in Noncontact External-Field-Assisted Photocatalysis: From Fundamentals to Applications. <i>ACS Catalysis</i> , 2021 , 11, 4739-4769	13.1	59
171	Facile In Situ Self-Sacrifice Approach to Ternary Hierarchical Architecture Ag/AgX (X = Cl, Br, I)/AgIO3 Distinctively Promoting Visible-Light Photocatalysis with Composition-Dependent Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3305-3315	8.3	59
170	Layered MoS2 nanoparticles on TiO2 nanotubes by a photocatalytic strategy for use as high-performance electrocatalysts in hydrogen evolution reactions. <i>Green Chemistry</i> , 2015 , 17, 2764-276	68 ^O	58
169	Nanostructured porous ZnO film with enhanced photocatalytic activity. <i>Thin Solid Films</i> , 2011 , 519, 5673	3±5£78	58
168	Underwater superaerophobic Ni nanoparticle-decorated nickelfholybdenum nitride nanowire arrays for hydrogen evolution in neutral media. <i>Nano Energy</i> , 2020 , 78, 105375	17.1	58

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167	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. <i>Advanced Energy Materials</i> , 2021 , 11, 2100219	21.8	58	
166	Ultrafine monolayer Co-containing layered double hydroxide nanosheets for water oxidation. <i>Journal of Energy Chemistry</i> , 2019 , 34, 57-63	12	56	
165	The Journey toward Low Temperature, Low Pressure Catalytic Nitrogen Fixation. <i>Advanced Energy Materials</i> , 2020 , 10, 2000659	21.8	56	
164	Macroscopic Polarization Enhancement Promoting Photo- and Piezoelectric-Induced Charge Separation and Molecular Oxygen Activation. <i>Angewandte Chemie</i> , 2017 , 129, 12022-12026	3.6	55	
163	Fluorescence signal amplification by cation exchange in ionic nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1588-91	16.4	55	
162	Fabrication of Heterogeneous-Phase Solid-Solution Promoting Band Structure and Charge Separation for Enhancing Photocatalytic CO Reduction: A Case of ZnCaInS. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 27773-27783	9.5	54	
161	Towards functional nanostructures: Ionic self-assembly of polyoxometalates and surfactants. <i>Current Opinion in Colloid and Interface Science</i> , 2009 , 14, 62-70	7.6	52	
160	Sub-3 nm Ultrafine Cu O for Visible Light Driven Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2554-2560	16.4	51	
159	Graphene with Atomic-Level In-Plane Decoration of h-BN Domains for Efficient Photocatalysis. <i>Chemistry of Materials</i> , 2017 , 29, 2769-2776	9.6	50	
158	Amplifying emission enhancement and proton response in a two-component gel. <i>Langmuir</i> , 2013 , 29, 417-25	4	50	
157	lodide surface decoration: a facile and efficacious approach to modulating the band energy level of semiconductors for high-performance visible-light photocatalysis. <i>Chemical Communications</i> , 2016 , 52, 354-7	5.8	49	
156	FeOffeO2 nanocomposites: an efficient and highly selective catalyst system for photothermal CO2 reduction to CO. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	48	
155	Silica-Protected Ultrathin Ni3FeN Nanocatalyst for the Efficient Hydrolytic Dehydrogenation of NH3BH3. <i>Advanced Energy Materials</i> , 2018 , 8, 1702780	21.8	48	
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