

Bin Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

253
papers

26,945
citations

77
h-index

160
g-index

273
ext. papers

32,054
ext. citations

12.8
avg, IF

7.71
L-index

#	Paper	IF	Citations
253	Strong Metal-Support Interaction Boosts Activity, Selectivity, and Stability in Electrosynthesis of HO ₂ . <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	10
252	Constructing partially amorphous borate doped iron-nickel nitrate hydroxide nanoarrays by rapid microwave activation for oxygen evolution. <i>Applied Surface Science</i> , 2022 , 153245	6.7	0
251	Efficient and Selective CO Reduction to Formate on Pd-Doped Pb (CO) (OH) : Dynamic Catalyst Reconstruction and Accelerated CO Protonation.. <i>Small</i> , 2022 , e2107885	11	1
250	Polarization Engineering of Covalent Triazine Frameworks for Highly Efficient Photosynthesis of Hydrogen Peroxide from Molecular Oxygen and Water.. <i>Advanced Materials</i> , 2022 , e2110266	24	6
249	Electrochemical looping hydrogen production at room temperature. <i>Chem Catalysis</i> , 2021 , 1, 1365-1366		1
248	Boosting Hydrogen Evolution Reaction via Electronic Coupling of Cerium Phosphate with Molybdenum Phosphide Nanobelts (Small 40/2021). <i>Small</i> , 2021 , 17, 2170208	11	1
247	Electrochemical Reduction of CO to CO over Transition Metal/N-Doped Carbon Catalysts: The Active Sites and Reaction Mechanism. <i>Advanced Science</i> , 2021 , e2102886	13.6	18
246	Ordered clustering of single atomic Te vacancies in atomically thin PtTe promotes hydrogen evolution catalysis. <i>Nature Communications</i> , 2021 , 12, 2351	17.4	24
245	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. <i>Nature Catalysis</i> , 2021 , 4, 374-384	36.5	96
244	In-Situ doping-induced crystal form transition of amorphous PdB catalyst for robust electrocatalytic hydrodechlorination. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119713	21.8	14
243	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO ₂ Reduction. <i>ACS Catalysis</i> , 2021 , 11, 7292-7301	13.1	14
242	Phosphorus modified carbon fiber cloth as a robust and efficient anode for alkaline water electrolysis. <i>Materials Today Energy</i> , 2021 , 20, 100683	7	2
241	Progress of Nonprecious-Metal-Based Electrocatalysts for Oxygen Evolution in Acidic Media. <i>Advanced Materials</i> , 2021 , 33, e2003786	24	33
240	Orbital coupling of hetero-diatomic nickel-iron site for bifunctional electrocatalysis of CO reduction and oxygen evolution. <i>Nature Communications</i> , 2021 , 12, 4088	17.4	51
239	Van der Waals heterojunction for selective visible-light-driven photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119733	21.8	53
238	Coordination Engineering of Single-Atom Catalysts for the Oxygen Reduction Reaction: A Review. <i>Advanced Energy Materials</i> , 2021 , 11, 2002473	21.8	74
237	Noble metal nanowire arrays as an ethanol oxidation electrocatalyst. <i>Nanoscale Advances</i> , 2021 , 3, 177-181	18.1	2

236	Real-time photoelectrochemical quantification of hydrogen peroxide produced by living cells. <i>Chemical Engineering Journal</i> , 2021 , 407, 127203	14.7	16
235	How does mass transfer influence electrochemical carbon dioxide reduction reaction? A case study of Ni molecular catalyst supported on carbon. <i>Chemical Communications</i> , 2021 , 57, 1384-1387	5.8	6
234	Halide perovskite composites for photocatalysis: A mini review. <i>EcoMat</i> , 2021 , 3, e12079	9.4	23
233	Atomically Dispersed Fe Heteroatom (N, S) Bridge Sites Anchored on Carbon Nanosheets for Promoting Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2021 , 6, 379-386	20.1	49
232	Atomically dispersed Pd electrocatalyst for efficient aqueous phase dechlorination reaction. <i>Electrochimica Acta</i> , 2021 , 391, 138886	6.7	2
231	In situ/operando Mössbauer spectroscopy for probing heterogeneous catalysis. <i>Chem Catalysis</i> , 2021 , 1, 1215-1215		4
230	Boosting Hydrogen Evolution Reaction via Electronic Coupling of Cerium Phosphate with Molybdenum Phosphide Nanobelts. <i>Small</i> , 2021 , 17, e2102413	11	6
229	Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. <i>Nano Letters</i> , 2021 , 21, 7753-7760	11.5	4
228	Dynamic Restructuring of Cu-Doped SnS Nanoflowers for Highly Selective Electrochemical CO Reduction to Formate. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26233-26237	16.4	12
227	Ni P Interlayer and Mn Doping Synergistically Expedite the Hydrogen Evolution Reaction Kinetics of Co P. <i>Chemistry - A European Journal</i> , 2021 , 27, 3536-3541	4.8	5
226	Ultrafine CoWC as an efficient anode catalyst for direct hydrazine fuel cells. <i>Chemical Communications</i> , 2021 , 57, 10415-10418	5.8	1
225	Recent advances in single atom catalysts for the electrochemical carbon dioxide reduction reaction. <i>Chemical Science</i> , 2021 , 12, 6800-6819	9.4	36
224	Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption Energies of Oxygenated Intermediates. <i>ACS Nano</i> , 2020 ,	16.7	19
223	Electron-withdrawing functional ligand promotes CO ₂ reduction catalysis in single atom catalyst. <i>Science China Chemistry</i> , 2020 , 63, 1727-1733	7.9	20
222	Dual single-site catalyst promoter boosts catalytic performance. <i>National Science Review</i> , 2020 , 7, 1841-1842	18.42	0
221	Amorphous Multimetal Alloy Oxygen Evolving Catalysts 2020 , 2, 624-632		25
220	Rational Design of an Iridium-Tungsten Composite with an Iridium-Rich Surface for Acidic Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25991-26001	9.5	13
219	Amorphous versus Crystalline in Water Oxidation Catalysis: A Case Study of NiFe Alloy. <i>Nano Letters</i> , 2020 , 20, 4278-4285	11.5	99

218	Metal organic frameworks for adsorption-based separation of fluorocompounds: a review. <i>Materials Advances</i> , 2020 , 1, 310-320	3.3	18
217	High performance Ni catalysts prepared by freeze drying for efficient dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2020 , 275, 119109	21.8	31
216	Single-Ni-atom catalyzes aqueous phase electrochemical reductive dechlorination reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119057	21.8	22
215	Advances in Thermodynamic-Kinetic Model for Analyzing the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2020 , 10, 8597-8610	13.1	40
214	Tuning reactivity of Fischer-Tropsch synthesis by regulating TiO overlayer over Ru/TiO nanocatalysts. <i>Nature Communications</i> , 2020 , 11, 3185	17.4	43
213	Progress of Electrochemical Hydrogen Peroxide Synthesis over Single Atom Catalysts 2020 , 2, 1008-1024		46
212	Carbon-based cathode materials for rechargeable zinc-air batteries: From current collectors to bifunctional integrated air electrodes 2020 , 2, 370-386		35
211	Design of hierarchical, three-dimensional free-standing single-atom electrode for H ₂ O ₂ production in acidic media 2020 , 2, 276-282		20
210	A general method to construct single-atom catalysts supported on N-doped graphene for energy applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6190-6195	13	24
209	The nonmetal modulation of composition and morphology of g-C ₃ N ₄ -based photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118828	21.8	112
208	In-situ phase transition of WO ₃ boosting electron and hydrogen transfer for enhancing hydrogen evolution on Pt. <i>Nano Energy</i> , 2020 , 71, 104653	17.1	58
207	Enabling Direct H ₂ O ₂ Production in Acidic Media through Rational Design of Transition Metal Single Atom Catalyst. <i>Chem</i> , 2020 , 6, 658-674	16.2	176
206	Plasmon-enhanced photoelectrochemical water splitting by InGaN/GaN nano-photoanodes. <i>Semiconductor Science and Technology</i> , 2020 , 35, 025017	1.8	10
205	Electrostatic self-assembly of a AgI/Bi ₂ Ga ₄ O ₉ p/n junction photocatalyst for boosting superoxide radical generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4083-4090	13	44
204	Pre-deposited Co nanofilms promoting high alloying degree of Pd _x Au nanoparticles as electrocatalysts in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28024-28033	6.7	3
203	Elucidating the Electrocatalytic CO Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 798-803	16.4	187
202	Elucidating the Electrocatalytic CO ₂ Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie</i> , 2020 , 132, 808-813	3.6	22
201	Polyvinyl Chloride-Derived Carbon Spheres for CO Adsorption. <i>ChemSusChem</i> , 2020 , 13, 6426-6432	8.3	3

200	Amorphous/Crystalline Heterostructured Cobalt-Vanadium-Iron (Oxy)hydroxides for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2020 , 10, 2002215	21.8	73
199	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>CheM</i> , 2020 , 6, 3440-3454	16.2	79
198	Boosting oxygen evolution reaction on graphene through engineering electronic structure. <i>Carbon</i> , 2020 , 170, 414-420	10.4	10
197	Adaptive Bifunctional Electrocatalyst of Amorphous CoFe Oxide @ 2D Black Phosphorus for Overall Water Splitting. <i>Angewandte Chemie</i> , 2020 , 132, 21292-21299	3.6	8
196	Adaptive Bifunctional Electrocatalyst of Amorphous CoFe Oxide @ 2D Black Phosphorus for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21106-21113	16.4	69
195	Hybridization of Bimetallic Molybdenum-Tungsten Carbide with Nitrogen-Doped Carbon: A Rational Design of Super Active Porous Composite Nanowires with Tailored Electronic Structure for Boosting Hydrogen Evolution Catalysis. <i>Advanced Functional Materials</i> , 2020 , 30, 2003198	15.6	21
194	Atomically-precise dopant-controlled single cluster catalysis for electrochemical nitrogen reduction. <i>Nature Communications</i> , 2020 , 11, 4389	17.4	52
193	Microenvironment modulation of single-atom catalysts and their roles in electrochemical energy conversion. <i>Science Advances</i> , 2020 , 6,	14.3	86
192	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. <i>Nature Communications</i> , 2020 , 11, 4246	17.4	92
191	Atomically Dispersed Nickel(I) on an Alloy-Encapsulated Nitrogen-Doped Carbon Nanotube Array for High-Performance Electrochemical CO ₂ Reduction Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 12153-12159	3.6	19
190	Atomically Dispersed Nickel(I) on an Alloy-Encapsulated Nitrogen-Doped Carbon Nanotube Array for High-Performance Electrochemical CO Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12055-12061	16.4	56
189	Making fully printed perovskite solar cells stable outdoor with inorganic superhydrophobic coating. <i>Journal of Energy Chemistry</i> , 2020 , 50, 332-338	12	7
188	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019 , 31, e1903909	24	142
187	Bifunctional N-CoSe ₂ /3D-MXene as Highly Efficient and Durable Cathode for Rechargeable Zn/Air Battery 2019 , 1, 432-439		49
186	Photoelectrochemical CO ₂ reduction to adjustable syngas on grain-boundary-mediated a-Si/TiO ₂ /Au photocathodes with low onset potentials. <i>Energy and Environmental Science</i> , 2019 , 12, 923-928	35.4	74
185	Breaking Long-Range Order in Iridium Oxide by Alkali Ion for Efficient Water Oxidation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3014-3023	16.4	172
184	Nanostructuring Confinement for Controllable Interfacial Charge Transfer. <i>Small</i> , 2019 , 15, e1804391	11	10
183	A General Method to Probe Oxygen Evolution Intermediates at Operating Conditions. <i>Joule</i> , 2019 , 3, 1498-1509	27.8	115

182	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , 2019 , 10, 1779	17.4	83
181	Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution. <i>Nano Energy</i> , 2019 , 60, 661-666	17.1	40
180	In Situ/Operando Techniques for Characterization of Single-Atom Catalysts. <i>ACS Catalysis</i> , 2019 , 9, 2521-2531	15.1	173
179	Self-assembly of three-dimensional CdS nanosphere/graphene networks for efficient photocatalytic hydrogen evolution. <i>Journal of Energy Chemistry</i> , 2019 , 31, 34-38	12	20
178	Revealing Energetics of Surface Oxygen Redox from Kinetic Fingerprint in Oxygen Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13803-13811	16.4	87
177	Rational design of carbon-based metal-free catalysts for electrochemical carbon dioxide reduction: A review. <i>Journal of Energy Chemistry</i> , 2019 , 36, 95-105	12	51
176	Nanowire Photoelectrochemistry. <i>Chemical Reviews</i> , 2019 , 119, 9221-9259	68.1	92
175	Supported Noble-Metal Single Atoms for Heterogeneous Catalysis. <i>Advanced Materials</i> , 2019 , 31, e1902031	11	115
174	Catalyst: Single-Atom Catalysis: Directing the Way toward the Nature of Catalysis. <i>CheM</i> , 2019 , 5, 2733-2735	7.5	34
173	Expedient synthesis of α -hydrazone esters and 1-indazole scaffolds through heterogeneous single-atom platinum catalysis. <i>Science Advances</i> , 2019 , 5, eaay1537	14.3	17
172	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. <i>Angewandte Chemie</i> , 2019 , 131, 746-750	3.6	45
171	The Absence and Importance of Operando Techniques for Metal-Free Catalysts. <i>Advanced Materials</i> , 2019 , 31, e1805609	24	18
170	Preparation of Ni(OH) ₂ /TiO ₂ porous film with novel structure and electrochromic property. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 191, 108-116	6.4	16
169	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 736-740	16.4	188
168	Phase interactions in Ni-Cu-Al ₂ O ₃ mixed oxide oxygen carriers for chemical looping applications. <i>Applied Energy</i> , 2019 , 236, 635-647	10.7	20
167	Organic-inorganic hybrid perovskite TiO ₂ nanorod arrays for efficient and stable photoelectrochemical hydrogen evolution from HI splitting. <i>Materials Today Chemistry</i> , 2019 , 12, 1-6	6.2	23
166	Single-Atom Catalysis toward Efficient CO Conversion to CO and Formate Products. <i>Accounts of Chemical Research</i> , 2019 , 52, 656-664	24.3	217
165	N, P dual-doped hollow carbon spheres supported MoS ₂ hybrid electrocatalyst for enhanced hydrogen evolution reaction. <i>Catalysis Today</i> , 2019 , 330, 259-267	5.3	28

164	Holey nickel hydroxide nanosheets for wearable solid-state fiber-supercapacitors. <i>Nanoscale</i> , 2018 , 10, 5442-5448	7.7	39
163	Assembly and photochemical properties of mesoporous networks of spinel ferrite nanoparticles for environmental photocatalytic remediation. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 330-339	21.8	36
162	Anchoring Mn ₃ O ₄ Nanoparticles on Oxygen Functionalized Carbon Nanotubes as Bifunctional Catalyst for Rechargeable Zinc-Air Battery. <i>ACS Applied Energy Materials</i> , 2018 , 1, 963-969	6.1	55
161	Fluorocarbon Separation in a Thermally Robust Zirconium Carboxylate Metal-Organic Framework. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 977-981	4.5	8
160	Identifying Active Sites of Nitrogen-Doped Carbon Materials for the CO ₂ Reduction Reaction. <i>Advanced Functional Materials</i> , 2018 , 28, 1800499	15.6	179
159	In Situ/Operando Characterization Techniques to Probe the Electrochemical Reactions for Energy Conversion. <i>Small Methods</i> , 2018 , 2, 1700395	12.8	90
158	An Earth-Abundant Catalyst-Based Seawater Photoelectrolysis System with 17.9% Solar-to-Hydrogen Efficiency. <i>Advanced Materials</i> , 2018 , 30, e1707261	24	110
157	Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. <i>Small Methods</i> , 2018 , 2, 1800001	12.8	41
156	Atomically dispersed Ni(ii) as the active site for electrochemical CO ₂ reduction. <i>Nature Energy</i> , 2018 , 3, 140-147	62.3	1046
155	Ultrasmall Transition Metal Carbide Nanoparticles Encapsulated in N, S-Doped Graphene for All-pH Hydrogen Evolution. <i>Small Methods</i> , 2018 , 2, 1700353	12.8	43
154	High-Performance Ni ₃ Fe Redox Catalysts for Selective CH ₄ to Syngas Conversion via Chemical Looping. <i>ACS Catalysis</i> , 2018 , 8, 1748-1756	13.1	47
153	Plasmon-Dictated Photo-Electrochemical Water Splitting for Solar-to-Chemical Energy Conversion: Current Status and Future Perspectives. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701098	4.6	59
152	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1441-1445	3.9	19
151	Surface Rutilization of Anatase TiO ₂ for Efficient Electron Extraction and Stable P _{max} Output of Perovskite Solar Cells. <i>CheM</i> , 2018 , 4, 911-923	16.2	20
150	Hydrogenated TiO ₂ nanosheet based flowerlike architectures: Enhanced sensing performances and sensing mechanism. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 543-555	5.7	11
149	Fabrication of 3D mesoporous networks of assembled CoO nanoparticles for efficient photocatalytic reduction of aqueous Cr(VI). <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 635-644	21.8	68
148	Iron Vacancies Induced Bifunctionality in Ultrathin Feroxyhyte Nanosheets for Overall Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1803144	24	160
147	In situ growth of single-layered Ni(OH) ₂ nanosheets on a carbon cloth for highly efficient electrocatalytic oxidation of urea. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13867-13873	13	51

146	Unique role of Mössbauer spectroscopy in assessing structural features of heterogeneous catalysts. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 518-532	21.8	58
145	Homologous Co ₃ O ₄ /CoP nanowires grown on carbon cloth as a high-performance electrode pair for triclosan degradation and hydrogen evolution. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 323-330	7.8	27
144	Boosting oxygen reaction activity by coupling sulfides for high-performance rechargeable metal-air battery. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21162-21166	13	26
143	Nitrogen and sulfur Co-doped graphene inlaid with cobalt clusters for efficient oxygen reduction reaction. <i>Materials Today Energy</i> , 2018 , 10, 184-190	7	15
142	Shape-Controlled Synthesis of Metal-Organic Frameworks with Adjustable Fenton-Like Catalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38051-38056	9.5	24
141	Aqueous-phase hydrodechlorination of 4-chlorophenol on palladium nanocrystals: Identifying the catalytic sites and unraveling the reaction mechanism. <i>Journal of Catalysis</i> , 2018 , 368, 336-344	7.3	25
140	Unraveling the Active Site on Metal-Free, Carbon-Based Catalysts for Multifunctional Applications 2018 , 251-283		
139	Single Cobalt Atoms Anchored on Porous N-Doped Graphene with Dual Reaction Sites for Efficient Fenton-like Catalysis. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12469-12475	16.4	551
138	Molecular modulation of fluorene-dibenzothiophene-S,S-dioxide-based conjugated polymers for enhanced photoelectrochemical water oxidation under visible light. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2021-2025	7.8	7
137	Novel design of photoelectrochemical device by dual BiVO ₄ photoelectrode with abundant oxygen vacancy. <i>Science Bulletin</i> , 2018 , 63, 1027-1028	10.6	4
136	Mesoporous implantable Pt/SrTiO ₃ :C,N nanocuboids delivering enhanced photocatalytic H ₂ -production activity via plasmon-induced interfacial electron transfer. <i>Applied Catalysis B: Environmental</i> , 2018 , 236, 338-347	21.8	28
135	Adsorption separation of R134a, R125, and R143a fluorocarbon mixtures using 13X and surface modified 5A zeolites. <i>AIChE Journal</i> , 2018 , 64, 640-648	3.6	11
134	Unraveling Oxygen Evolution Reaction on Carbon-Based Electrocatalysts: Effect of Oxygen Doping on Adsorption of Oxygenated Intermediates. <i>ACS Energy Letters</i> , 2017 , 2, 294-300	20.1	100
133	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, 16065-16074	24	301
132	Use of Platinum as the Counter Electrode to Study the Activity of Nonprecious Metal Catalysts for the Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , 2017 , 2, 1070-1075	20.1	270
131	Highly efficient and durable MoNiNC catalyst for hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 37, 1-6	17.1	66
130	Enhanced visible-light photocatalytic hydrogen production activity of three-dimensional mesoporous p-CuS/n-CdS nanocrystal assemblies. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 433-441	6.8	33
129	Direct and selective hydrogenation of CO ₂ to ethylene and propene by bifunctional catalysts. <i>Catalysis Science and Technology</i> , 2017 , 7, 5602-5607	5.5	81

128	In situ etching-induced self-assembly of metal cluster decorated one-dimensional semiconductors for solar-powered water splitting: unraveling cooperative synergy by photoelectrochemical investigations. <i>Nanoscale</i> , 2017 , 9, 17118-17132	7.7	68
127	Separation of Au Nanoplates and Nanoparticles through Density Gradient Centrifugation. <i>Chemistry Letters</i> , 2017 , 46, 1570-1572	1.7	1
126	Highly Concentrated, Ultrathin Nickel Hydroxide Nanosheet Ink for Wearable Energy Storage Devices. <i>Advanced Materials</i> , 2017 , 29, 1703455	24	46
125	Fabricating efficient CdSe/CdS photocatalyst systems by spatially resetting water splitting sites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20131-20135	13	18
124	Unraveling the Intrinsic Structures that Influence the Transport of Charges in TiO ₂ Electrodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1700886	21.8	19
123	Effects of structure and size of Ni nanocatalysts on hydrogen selectivity via water-gas-shift reaction: a first-principles-based kinetic study. <i>Catalysis Today</i> , 2017 , 280, 210-219	5.3	19
122	An ambipolar azaacene as a stable photocathode for metal-free light-driven water reduction. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 495-498	7.8	26
121	Revisiting one-dimensional TiO ₂ based hybrid heterostructures for heterogeneous photocatalysis: a critical review. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 231-250	7.8	55
120	Layer-by-layer assembly of nitrogen-doped graphene quantum dots monolayer decorated one-dimensional semiconductor nanoarchitectures for solar-driven water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16383-16393	13	51
119	A Molecular Relay-Modified CdS-Sensitized Photoelectrochemical Cell for Overall Water Splitting. <i>ChemElectroChem</i> , 2016 , 3, 1471-1477	4.3	4
118	Identification of Surface Reactivity Descriptor for Transition Metal Oxides in Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9978-85	16.4	232
117	Tuning chemical bonding of MnO ₂ through transition-metal doping for enhanced CO oxidation. <i>Journal of Catalysis</i> , 2016 , 341, 82-90	7.3	100
116	Adsorption Separation of R-22, R-32 and R-125 Fluorocarbons using 4A Molecular Sieve Zeolite. <i>ChemistrySelect</i> , 2016 , 1, 3718-3722	1.8	10
115	Modulation of Crystal Surface and Lattice by Doping: Achieving Ultrafast Metal-Ion Insertion in Anatase TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29186-29193	9.5	13
114	Sulfur-Mediated Self-Templating Synthesis of Tapered C-PAN/g-C ₃ N ₄ Composite Nanotubes toward Efficient Photocatalytic H ₂ Evolution. <i>ACS Energy Letters</i> , 2016 , 1, 969-975	20.1	62
113	In Situ Spectroscopic Identification of EDO Bridging on Spinel CoO Water Oxidation Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4847-4853	6.4	99
112	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. <i>Science Advances</i> , 2016 , 2, e1501122	14.3	884
111	Iridium Oxide-Assisted Plasmon-Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers. <i>Advanced Energy Materials</i> , 2016 , 6, 1501339	21.8	74

110	Cadmium selenide-sensitized upright-standing mesoporous zinc oxide nanosheets for efficient photoelectrochemical H ₂ production. <i>Journal of Energy Chemistry</i> , 2016 , 25, 371-374	12	13
109	Niobium Doping Enhances Charge Transport in TiO ₂ Nanorods. <i>ChemNanoMat</i> , 2016 , 2, 660-664	3.5	9
108	Linker-assisted assembly of 1D TiO ₂ nanobelts/3D CdS nanospheres hybrid heterostructure as efficient visible light photocatalyst. <i>Applied Catalysis A: General</i> , 2016 , 521, 50-56	5.1	21
107	Hierarchical carbon@Ni ₃ S ₂ @MoS ₂ double core-shell nanorods for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1319-1325	13	75
106	Achieving stable and efficient water oxidation by incorporating NiFe layered double hydroxide nanoparticles into aligned carbon nanotubes. <i>Nanoscale Horizons</i> , 2016 , 1, 156-160	10.8	84
105	Metal-Organic Frameworks as Promising Photosensitizers for Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2016 , 3, 1500243	13.6	74
104	Layer-by-layer assembly of versatile nanoarchitectures with diverse dimensionality: a new perspective for rational construction of multilayer assemblies. <i>Chemical Society Reviews</i> , 2016 , 45, 3088-3121	58.5	244
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