Yang Hou

List of Publications by Year in Descending Order

224 papers	15,428 citations	65 h-index	120 g-index
236 ext. papers	18,646 ext. citations	12 avg, IF	7.08 L-index

#	Paper	IF	Citations
224	Binder free construction of hollow hierarchical MnCoP nanoarrays on nickel foam as an efficient bifunctional electrocatalyst for overall water splitting. *Sustainable Energy and Fuels*, **2022**, 6, 851-860	5.8	0
223	Electrochemically exfoliated Ni-doped MoS2 nanosheets for highly efficient hydrogen evolution and Zn-H2O battery. *Chinese Chemical Letters*, **2022**,	8.1	2
222	Tuning Two-Electron Oxygen-Reduction Pathways for H O Electrosynthesis via Engineering Atomically Dispersed Single Metal Site Catalysts.. *Advanced Materials*, **2022**, e2107954	24	10
221	Squid inspired elastomer marine coating with efficient antifouling strategies: Hydrophilized defensive surface and lower modulus.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 213, 112392	6	3
220	Efficient production of lycopene from CO2 via microbial electrosynthesis. *Chemical Engineering Journal*, **2022**, 430, 132943	14.7	5
219	Layered bismuth oxide/bismuth sulfide supported on carrageenan derived carbon for efficient carbon dioxide electroreduction to formate. *Chinese Journal of Chemical Engineering*, **2022**, 43, 116-123	3.2	1
218	Local Spin-state Tuning of Iron Single-Atom Electrocatalyst by S-coordinated Doping for Kinetics-boosted Ammonia Synthesis.. *Advanced Materials*, **2022**, e2202240	24	10
217	Bridging heterogeneous and homogeneous catalysts by ultrathin metal-polyphthalocyanine-based nanosheets from electron-coupled transalkylation delamination. *Nano Energy*, **2022**, 98, 107297	17.1	0
216	A heterostructured ZnAl-LDH@ZIF-8 hybrid as a bifunctional photocatalyst/adsorbent for CO2 reduction under visible light irradiation. *Chemical Engineering Journal*, **2022**, 137003	14.7	1
215	Atomically Dispersed Zinc(I) Active Sites to Accelerate Nitrogen Reduction Kinetics for Ammonia Electrosynthesis. *Advanced Materials*, **2021**, e2103548	24	19
214	Designing flexible, smart and self-sustainable supercapacitors for portable/wearable electronics: from conductive polymers. *Chemical Society Reviews*, **2021**, 50, 12702-12743	58.5	32
213	Promoting CO2 Electroreduction Kinetics on Atomically Dispersed Monovalent Zn(I) Sites by Rationally Engineering Proton-feeding Centers. *Angewandte Chemie - International Edition*, **2021**,	16.4	7
212	Enhanced photocatalytic CO-reduction activity to form CO and CH on S-scheme heterostructured ZnFeO/BiMoO photocatalyst. *Journal of Colloid and Interface Science*, **2021**,	9.3	3
211	Boosting Electroreduction Kinetics of Nitrogen to Ammonia via Tuning Electron Distribution of Single-Atomic Iron Sites. *Angewandte Chemie*, **2021**, 133, 9160-9167	3.6	8
210	Boosting Electroreduction Kinetics of Nitrogen to Ammonia via Tuning Electron Distribution of Single-Atomic Iron Sites. *Angewandte Chemie - International Edition*, **2021**, 60, 9078-9085	16.4	60
209	Proton Capture Strategy for Enhancing Electrochemical CO2 Reduction on Atomically Dispersed Metal Nitrogen Active Sites**. *Angewandte Chemie*, **2021**, 133, 12066-12072	3.6	8
208	Alternating current enhanced bioremediation of petroleum hydrocarbon-contaminated soils. *Environmental Science and Pollution Research*, **2021**, 28, 47562-47573	5.1	0

207	Proton Capture Strategy for Enhancing Electrochemical CO Reduction on Atomically Dispersed Metal-Nitrogen Active Sites*. *Angewandte Chemie - International Edition*, **2021**, 60, 11959-11965	16.4	57
206	Bioelectrochemical sulfate reduction enhanced nitrogen removal from industrial wastewater containing ammonia and sulfate. *AICHE Journal*, **2021**, 67, e17309	3.6	2
205	Bioanode-driven CO2 electroreduction in a redox-medium-assisted system with high energy efficiency. *AICHE Journal*, **2021**, 67, e17283	3.6	0
204	Bimetallic Oxyhydroxide as a High-Performance Water Oxidation Electrocatalyst under Industry-Relevant Conditions. *Engineering*, **2021**, 7, 1306-1306	9.7	3
203	Comparative investigation of visible-light-induced benzene degradation on M-ferrite/hematite (M□=□Ca, Mg, Zn) nanospheres by in situ FTIR: Intermediates and reaction mechanism. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 618, 126501	5.1	3
202	Deciphering Single-Bacterium Adhesion Behavior Modulated by Extracellular Electron Transfer. *Nano Letters*, **2021**, 21, 5105-5115	11.5	0
201	Thiophen-basierte konjugierte acetylenische Polymere mit dualen aktiven Zentren f□ effiziente Cokatalysator-freie photoelektrochemische Wasserreduktion im alkalischen Medium. *Angewandte Chemie*, **2021**, 133, 19025-19031	3.6	0
200	A Self-Healable Polyelectrolyte Binder for Highly Stabilized Sulfur, Silicon, and Silicon Oxides Electrodes. *Advanced Functional Materials*, **2021**, 31, 2104433	15.6	8
199	Thiophene-Based Conjugated Acetylenic Polymers with Dual Active Sites for Efficient Co-Catalyst-Free Photoelectrochemical Water Reduction in Alkaline Medium. *Angewandte Chemie - International Edition*, **2021**, 60, 18876-18881	16.4	7
198	Interface coupling 2D/2D SnSe2/graphene heterostructure as long-cycle anode for all-climate lithium-ion battery. *Chemical Engineering Journal*, **2021**, 407, 126973	14.7	21
197	Graphene-modified graphite paper cathode for the efficient bioelectrochemical removal of chromium. *Chemical Engineering Journal*, **2021**, 405, 126545-126545	14.7	6
196	Thiophene-Bridged Donor-Acceptor sp -Carbon-Linked 2D Conjugated Polymers as Photocathodes for Water Reduction. *Advanced Materials*, **2021**, 33, e2006274	24	37
195	Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 4192-4198	16.4	75
194	Elucidation of the Synergistic Effect of Dopants and Vacancies on Promoted Selectivity for CO Electroreduction to Formate. *Advanced Materials*, **2021**, 33, e2005113	24	41
193	Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO2 Reduction. *Angewandte Chemie*, **2021**, 133, 4238-4244	3.6	10
192	An exfoliated iron phosphorus trisulfide nanosheet with rich sulfur vacancy for efficient dinitrogen fixation and Zn-N2 battery. *Nano Energy*, **2021**, 81, 105613	17.1	20
191	Facile synthesis of GO as middle carrier modified flower-like BiOBr and C3N4 nanosheets for simultaneous treatment of chromium(VI) and tetracycline. *Chinese Chemical Letters*, **2021**, 32, 2187-2191	8.1	10
190	Efficient mineralization of sulfanilamide over oxygen vacancy-rich NiFe-LDH nanosheets array during electro-fenton process. *Chemosphere*, **2021**, 268, 129272	8.4	10

189	In situ identification of the electrocatalytic water oxidation behavior of a nickel-based metal-organic framework nanoarray. *Materials Horizons*, **2021**, 8, 556-564	14.4	31
188	Electrocatalysis for CO conversion: from fundamentals to value-added products. *Chemical Society Reviews*, **2021**, 50, 4993-5061	58.5	157
187	Solvent-mediated engineering of copper-metalated acetylenic polymer scaffolds with enhanced photoelectrochemical performance. *Journal of Materials Chemistry A*, **2021**, 9, 9729-9734	13	0
186	Recent progress and perspective of electrochemical CO2 reduction towards C2-C5 products over non-precious metal heterogeneous electrocatalysts. *Nano Research*, **2021**, 14, 3188-3207	10	25
185	Highly Boosted Reaction Kinetics in Carbon Dioxide Electroreduction by Surface-Introduced Electronegative Dopants. *Advanced Functional Materials*, **2021**, 31, 2008146	15.6	38
184	Hierarchical Cross-Linked Carbon Aerogels with Transition Metal-Nitrogen Sites for Highly Efficient Industrial-Level CO2 Electroreduction. *Advanced Functional Materials*, **2021**, 31, 2104377	15.6	20
183	Synergistic Effect of Atomically Dispersed Ni-Zn Pair Sites for Enhanced CO Electroreduction. *Advanced Materials*, **2021**, 33, e2102212	24	33
182	Highly Efficient Self-Repairing Slippery Liquid-Infused Surface with Promising Anti-Icing and Anti-Fouling Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 40032-40041	9.5	14
181	An integrated bioelectrochemical system coupled CO2 electroreduction device based on atomically dispersed iron electrocatalysts. *Nano Energy*, **2021**, 87, 106187	17.1	7
180	An ultra-stable anode material for high/low-temperature workable super-fast charging sodium-ion batteries. *Chemical Engineering Journal*, **2021**, 422, 130054	14.7	10
179	Improved NH3-N conversion efficiency to N2 activated by BDD substrate on NiCu electrocatalysis process. *Separation and Purification Technology*, **2021**, 276, 119350	8.3	1
178	Hydrothermal combined with electrodeposition construction of a stable Co9S8/Ni3S2@NiFe-LDH heterostructure electrocatalyst for overall water splitting. *Sustainable Energy and Fuels*, **2021**, 5, 1429-1438	5.8	9
177	A Superaerophobic Bimetallic Selenides Heterostructure for Efficient Industrial-Level Oxygen Evolution at Ultra-High Current Densities. *Nano-Micro Letters*, **2020**, 12, 104	19.5	56
176	A Universal Principle to Accurately Synthesize Atomically Dispersed Metal-N Sites for CO Electroreduction. *Nano-Micro Letters*, **2020**, 12, 108	19.5	30
175	Highly Effective Electrochemical Exfoliation of Ultrathin Tantalum Disulfide Nanosheets for Energy-Efficient Hydrogen Evolution Electrocatalysis. *ACS Applied Materials & Interfaces*, **2020**, 12, 24675-24682	9.5	15
174	Gas Diffusion Strategy for Inserting Atomic Iron Sites into Graphitized Carbon Supports for Unusually High-Efficient CO Electroreduction and High-Performance Zn-CO Batteries. *Advanced Materials*, **2020**, 32, e2002430	24	80
173	High-Performance Metal-Free Nanosheets Array Electrocatalyst for Oxygen Evolution Reaction in Acid. *Advanced Functional Materials*, **2020**, 30, 2003000	15.6	22
172	Bi/Bi2O3 nanoparticles supported on N-doped reduced graphene oxide for highly efficient CO2 electroreduction to formate. *Chinese Chemical Letters*, **2020**, 31, 1415-1421	8.1	25

171	Nanoconfined Tin Oxide within N-Doped Nanocarbon Supported on Electrochemically Exfoliated Graphene for Efficient Electroreduction of CO to Formate and C1 Products. *ACS Applied Materials & Interfaces*, **2020**, 12, 16178-16185	9.5	27
170	Ultrathin tin monosulfide nanosheets with the exposed (001) plane for efficient electrocatalytic conversion of CO into formate. *Chemical Science*, **2020**, 11, 3952-3958	9.4	34
169	Exfoliated metallic niobium disulfate nanosheets for enhanced electrochemical ammonia synthesis and Zn-N2 battery. *Applied Catalysis B: Environmental*, **2020**, 270, 118892	21.8	21
168	Strongly coupling of amorphous/crystalline reduced FeOOH/Ni(OH) heterostructure for extremely efficient water oxidation at ultra-high current density. *Journal of Colloid and Interface Science*, **2020**, 579, 340-346	9.3	16
167	Boosting alkaline hydrogen evolution and Zn–H2O cell induced by interfacial electron transfer. *Nano Energy*, **2020**, 71, 104621	17.1	48
166	Construction of Defect-Rich Ni-Fe-Doped K MnO Cubic Nanoflowers via Etching Prussian Blue Analogue for Efficient Overall Water Splitting. *Small*, **2020**, 16, e1905223	11	25
165	Cerium oxide embedded bilayer separator enabling fast polysulfide conversion for high-performance lithium-sulfur batteries. *Chemical Engineering Journal*, **2020**, 388, 124120	14.7	34
164	Porous metal-porphyrin triazine-based frameworks for efficient CO2 electroreduction. *Applied Catalysis B: Environmental*, **2020**, 270, 118908	21.8	34
163	Tuning d-band center of tungsten carbide via Mo doping for efficient hydrogen evolution and Zn–H2O cell over a wide pH range. *Nano Energy*, **2020**, 74, 104850	17.1	69
162	Atomically Defined Undercoordinated Active Sites for Highly Efficient CO2 Electroreduction. *Advanced Functional Materials*, **2020**, 30, 1907658	15.6	115
161	Nitrogen-doped carbon nanotube-encapsulated nickel nanoparticles assembled on graphene for efficient CO2 electroreduction. *Chinese Chemical Letters*, **2020**, 31, 1438-1442	8.1	9
160	One-step synthesis of rice husk carbon with dangling CC bonds loaded g-C3N4 for enhanced photocatalytic degradation. *Journal of Cleaner Production*, **2020**, 272, 122625	10.3	10
159	Electrospinning MoS2-Decorated Porous Carbon Nanofibers for High-Performance Lithium–Sulfur Batteries. *ACS Applied Energy Materials*, **2020**, 3, 11893-11899	6.1	12
158	Understanding the Efficiency and Selectivity of Two-Electron Production of Metalloporphyrin-Embedded Zirconium-Pyrogallol Scaffolds in Electrochemical CO Reduction. *ACS Applied Materials & Interfaces*, **2020**, 12, 52588-52594	9.5	2
157	RuS2-x quantum dots/rGO as bifunctional hydrogen electrocatalysts for harvesting electrochemical neutralization energy. *Journal of Power Sources*, **2020**, 472, 228625	8.9	12
156	3D porous carbon nanofibers with CeO2-decorated as cathode matrix for high performance lithium-sulfur batteries. *Journal of Power Sources*, **2020**, 473, 228588	8.9	40
155	Designing 3d dual transition metal electrocatalysts for oxygen evolution reaction in alkaline electrolyte: Beyond oxides. *Nano Energy*, **2020**, 77, 105162	17.1	58
154	Controllably Engineering Mesoporous Surface and Dimensionality of SnO2 toward High-Performance CO2 Electroreduction. *Advanced Functional Materials*, **2020**, 30, 2002092	15.6	44

153	Acidic Electrolytes: High-Performance Metal-Free Nanosheets Array Electrocatalyst for Oxygen Evolution Reaction in Acid (Adv. Funct. Mater. 31/2020). *Advanced Functional Materials*, **2020**, 30, 2070210	15.6	1
152	Platinum Atomic Clusters Embedded in Defects of Anatase/Graphene for Efficient Electro- and Photocatalytic Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2020**, 12, 40204-40212	9.5	13
151	Biomass-Derived, Water-Induced Self-Recoverable Composite Aerogels with Robust Superwettability for Water Treatment. *Langmuir*, **2020**, 36, 10960-10969	4	12
150	Iron clusters boosted performance in electrocatalytic carbon dioxide conversion. *Journal of Materials Chemistry A*, **2020**, 8, 21661-21667	13	6
149	Conjugated Acetylenic Polymers Grafted Cuprous Oxide as an Efficient Z-Scheme Heterojunction for Photoelectrochemical Water Reduction. *Advanced Materials*, **2020**, 32, e2002486	24	15
148	Nanocarbon-Based Hybrids as Electrocatalysts for Hydrogen and Oxygen Evolution From Water Splitting **2020**, 379-418		2
147	Promotional effect of nitrogen-doping on a ceria unary oxide catalyst with rich oxygen vacancies for selective catalytic reduction of NO with NH3. *Chemical Engineering Journal*, **2020**, 379, 122302	14.7	27
146	Nanocarbon-Enhanced 2D Photoelectrodes: A New Paradigm in Photoelectrochemical Water Splitting. *Nano-Micro Letters*, **2020**, 13, 24	19.5	28
145	High-index faceted binary-metal selenide nanosheet arrays as efficient 3D electrodes for alkaline hydrogen evolution. *Nanoscale*, **2019**, 11, 17571-17578	7.7	19
144	Beyond lotus: Plasma nanostructuring enables efficient energy and water conversion and use. *Nano Energy*, **2019**, 66, 104125	17.1	21
143	A strongly coupled 3D ternary Fe2O3@Ni2P/Ni(PO3)2 hybrid for enhanced electrocatalytic oxygen evolution at ultra-high current densities. *Journal of Materials Chemistry A*, **2019**, 7, 965-971	13	123
142	Atomic Ni Anchored Covalent Triazine Framework as High Efficient Electrocatalyst for Carbon Dioxide Conversion. *Advanced Functional Materials*, **2019**, 29, 1806884	15.6	139
141	Water-Plasma Assisted Synthesis of Oxygen-Enriched NiFe Layered Double Hydroxide Nanosheets for Efficient Oxygen Evolution Reaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4247-4254	8.3	43
140	Electrochemical exfoliation of ultrathin ternary molybdenum sulfoselenide nanosheets to boost the energy-efficient hydrogen evolution reaction. *Nanoscale*, **2019**, 11, 16200-16207	7.7	18
139	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. *Angewandte Chemie*, **2019**, 131, 10476-10482	3.6	5
138	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 10368-10374	16.4	24
137	Integrated System of Solar Cells with Hierarchical NiCoO Battery-Supercapacitor Hybrid Devices for Self-Driving Light-Emitting Diodes. *Nano-Micro Letters*, **2019**, 11, 42	19.5	39
136	Highly active metallic nickel sites confined in N-doped carbon nanotubes toward significantly enhanced activity of CO2 electroreduction. *Carbon*, **2019**, 150, 52-59	10.4	54

135	ZIF-Derived Carbon Nanoarchitecture as a Bifunctional pH-Universal Electrocatalyst for Energy-Efficient Hydrogen Evolution. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10044-10051	8.3	40
134	Carbon-Rich Nonprecious Metal Single Atom Electrocatalysts for CO2 Reduction and Hydrogen Evolution. *Small Methods*, **2019**, 3, 1900210	12.8	105
133	Modeling phonon thermal conductivity in spatially confined GaN nanofilms under stress fields and phonon surface scattering. *AIP Advances*, **2019**, 9, 015024	1.5	6
132	NiCoMo Hydroxide Nanosheet Arrays Synthesized via Chloride Corrosion for Overall Water Splitting. *ACS Energy Letters*, **2019**, 4, 952-959	20.1	152
131	Scalable Production of Few-Layer Niobium Disulfide Nanosheets via Electrochemical Exfoliation for Energy-Efficient Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2019**, 11, 13205-13213	9.5	38
130	Zeolitic Imidazolate Framework-Derived Core-Shell-Structured CoS2/CoS2-N-C Supported on Electrochemically Exfoliated Graphene Foil for Efficient Oxygen Evolution. *Batteries and Supercaps*, **2019**, 2, 348-354	5.6	19
129	Atomically dispersed nickel-nitrogen-sulfur species anchored on porous carbon nanosheets for efficient water oxidation. *Nature Communications*, **2019**, 10, 1392	17.4	280
128	Poly(1,4-Diethynylbenzene) Gradient Homojunction with Enhanced Charge Carrier Separation for Photoelectrochemical Water Reduction. *Advanced Materials*, **2019**, 31, e1900961	24	35
127	Hollow black TiAlO nanocomposites for solar thermal desalination. *Nanoscale*, **2019**, 11, 9958-9968	7.7	14
126	In Situ Growth of Nitrogen-Doped Carbon-Coated □-Fe2O3 Nanoparticles on Carbon Fabric for Electrochemical N2 Fixation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8853-8859	8.3	41
125	Kinetics and mechanism of low-concentration CO2 adsorption on solid amine in a humid confined space. *Canadian Journal of Chemical Engineering*, **2019**, 97, 697-701	2.3	2
124	Efficient alkaline hydrogen evolution on atomically dispersed Ni□Nx Species anchored porous carbon with embedded Ni nanoparticles by accelerating water dissociation kinetics. *Energy and Environmental Science*, **2019**, 12, 149-156	35.4	299
123	Effects of surface charges on phonon properties and thermal conductivity in GaN nanofilms. *Chinese Physics B*, **2019**, 28, 086501	1.2	2
122	Interfacial engineering of Ru-S-Sb/antimonene electrocatalysts for highly efficient electrolytic hydrogen generation in neutral electrolyte. *Chemical Communications*, **2019**, 55, 10884-10887	5.8	17
121	Nitrogen-Doped Carbon-Encased Bimetallic Selenide for High-Performance Water Electrolysis. *Nano-Micro Letters*, **2019**, 11, 67	19.5	44
120	Strongly Coupled 3D N-Doped MoO/NiS Hybrid for High Current Density Hydrogen Evolution Electrocatalysis and Biomass Upgrading. *ACS Applied Materials & Interfaces*, **2019**, 11, 27743-27750	9.5	52
119	Incorporating p-Phenylene as an Electron-Donating Group into Graphitic Carbon Nitride for Efficient Charge Separation. *ChemSusChem*, **2019**, 12, 4285-4292	8.3	13
118	Nanostructured Carbon Based Heterogeneous Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. *ChemCatChem*, **2019**, 11, 5855-5874	5.2	49

117	CuSn Alloy Nanoparticles on Nitrogen-Doped Graphene for Electrocatalytic CO2 Reduction. *ChemElectroChem*, **2019**, 6, 5951-5957	4.3	37
116	Single Atom Electrocatalysts: Carbon-Rich Nonprecious Metal Single Atom Electrocatalysts for CO2 Reduction and Hydrogen Evolution (Small Methods 10/2019). *Small Methods*, **2019**, 3, 1970033	12.8	3
115	Bioinspired Binders Actively Controlling Ion Migration and Accommodating Volume Change in High Sulfur Loading Lithium–Sulfur Batteries. *Advanced Energy Materials*, **2019**, 9, 1902938	21.8	42
114	Dual Cross-Linked Fluorinated Binder Network for High-Performance Silicon and Silicon Oxide Based Anodes in Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 46800-46807	9.5	30
113	Confined carburization-engineered synthesis of ultrathin nickel oxide/nickel heterostructured nanosheets for enhanced oxygen evolution reaction. *Nanoscale*, **2019**, 11, 22261-22269	7.7	8
112	Boron and nitrogen co-doped porous carbon nanofibers as metal-free electrocatalysts for highly efficient ammonia electrosynthesis. *Journal of Materials Chemistry A*, **2019**, 7, 26272-26278	13	40
111	Emerging nanostructured carbon-based non-precious metal electrocatalysts for selective electrochemical CO2 reduction to CO. *Journal of Materials Chemistry A*, **2019**, 7, 25191-25202	13	57
110	Noble metal-free two dimensional carbon-based electrocatalysts for water splitting. *BMC Materials*, **2019**, 1,	6.7	15
109	Porous carbon nanosheets: Synthetic strategies and electrochemical energy related applications. *Nano Today*, **2019**, 24, 103-119	17.9	241
108	Hydrogen-Mediated Electron Transfer in Hybrid Microbial–Inorganic Systems and Application in Energy and the Environment. *Energy Technology*, **2019**, 7, 1800987	3.5	12
107	Fast expansion of graphite into superior three-dimensional anode for microbial fuel cells. *Journal of Power Sources*, **2019**, 412, 86-92	8.9	19
106	Microporous Framework Induced Synthesis of Single-Atom Dispersed Fe-N-C Acidic ORR Catalyst and Its in Situ Reduced Fe-N4 Active Site Identification Revealed by X-ray Absorption Spectroscopy. *ACS Catalysis*, **2018**, 8, 2824-2832	13.1	306
105	Designed synthesis of anatase–TiO2 (B) biphase nanowire/ZnO nanoparticle heterojunction for enhanced photocatalysis. *Journal of Materials Chemistry A*, **2018**, 6, 8289-8298	13	82
104	Nitrogen Vacancy Structure Driven Photoeletrocatalytic Degradation of 4-Chlorophenol Using Porous Graphitic Carbon Nitride Nanosheets. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 6497-6506	8.3	49
103	Highly Selective Electrochemical Conversion of CO2 to HCOOH on Dendritic Indium Foams. *ChemElectroChem*, **2018**, 5, 215-215	4.3	1
102	The Effect of CNTs on Performance Improvement of rGO Supported Fe-Nx/C Electrocatalysts for the Oxygen Reduction Reaction. *Journal of the Electrochemical Society*, **2018**, 165, F401-F407	3.9	6
101	Porous Cobalt Oxynitride Nanosheets for Efficient Electrocatalytic Water Oxidation. *ChemSusChem*, **2018**, 11, 1479-1485	8.3	24
100	Effects of solids retention time on the performance and microbial community structures in membrane bioreactors treating synthetic oil refinery wastewater. *Chemical Engineering Journal*, **2018**, 344, 462-468	14.7	35

99	Copper-surface-mediated synthesis of acetylenic carbon-rich nanofibers for active metal-free photocathodes. *Nature Communications*, **2018**, 9, 1140	17.4	84
98	Fe?N4 Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium. *Advanced Energy Materials*, **2018**, 8, 1801912	21.8	149
97	3D Edge-Enriched Fe C@C Nanocrystals with a Core-Shell Structure Grown on Reduced Graphene Oxide Networks for Efficient Oxygen Reduction Reaction. *ChemSusChem*, **2018**, 11, 3292-3298	8.3	21
96	S-enriched porous polymer derived N-doped porous carbons for electrochemical energy storage and conversion. *Frontiers of Chemical Science and Engineering*, **2018**, 12, 346-357	4.5	5
95	In situ growing of Bi/Bi2O2CO3 on Bi2WO6 nanosheets for improved photocatalytic performance. *Catalysis Today*, **2018**, 314, 2-9	5.3	40
94	Highly Selective Electrochemical Conversion of CO2 to HCOOH on Dendritic Indium Foams. *ChemElectroChem*, **2018**, 5, 253-259	4.3	57
93	Nanostructured Ternary Metal Tungstate-Based Photocatalysts for Environmental Purification and Solar Water Splitting: A Review. *Nano-Micro Letters*, **2018**, 10, 69	19.5	110
92	Efficient Electrocatalytic Oxygen Evolution at Extremely High Current Density over 3D Ultrasmall Zero-Valent Iron-Coupled Nickel Sulfide Nanosheets. *ChemElectroChem*, **2018**, 5, 3866-3872	4.3	37
91	Evidence of the Strong Metal Support Interaction in a Palladium-Ceria Hybrid Electrocatalyst for Enhancement of the Hydrogen Evolution Reaction. *Journal of the Electrochemical Society*, **2018**, 165, F1147-F1153	3.9	18
90	Oxygen Evolution: Fe?N4 Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium (Adv. Energy Mater. 26/2018). *Advanced Energy Materials*, **2018**, 8, 1870119	21.8	2
89	An ultrathin cobalt-based zeolitic imidazolate framework nanosheet array with a strong synergistic effect towards the efficient oxygen evolution reaction. *Journal of Materials Chemistry A*, **2018**, 6, 18877-18883	12	65
88	Embedding Co2P Nanoparticles in N-Doped Carbon Nanotubes Grown on Porous Carbon Polyhedra for High-Performance Lithium-Ion Batteries. *Industrial & Engineering Chemistry Research*, **2018**, 57, 13019-13025	3.9	18
87	Water Splitting-Biosynthetic Hybrid System for CO Conversion using Nickel Nanoparticles Embedded in N-Doped Carbon Nanotubes. *ChemSusChem*, **2018**, 11, 2382-2387	8.3	24
86	Recent Advances in Earth-Abundant Heterogeneous Electrocatalysts for Photoelectrochemical Water Splitting. *Small Methods*, **2017**, 1, 1700090	12.8	85
85	Self-templated formation of ZnFe2O4 double-shelled hollow microspheres for photocatalytic degradation of gaseous o-dichlorobenzene. *Journal of Materials Chemistry A*, **2017**, 5, 8909-8915	13	73
84	CuS/RGO hybrid by one-pot hydrothermal method for efficient electrochemical sensing of hydrogen peroxide. *Chinese Chemical Letters*, **2017**, 28, 1306-1311	8.1	14
83	Deformable and flexible electrospun nanofiber-supported cross-linked gel polymer electrolyte membranes for high safety lithium-ion batteries. *RSC Advances*, **2017**, 7, 22728-22734	3.7	22
82	Integrated Hierarchical Cobalt Sulfide/Nickel Selenide Hybrid Nanosheets as an Efficient Three-dimensional Electrode for Electrochemical and Photoelectrochemical Water Splitting. *Nano Letters*, **2017**, 17, 4202-4209	11.5	216

81	Scalable and low-cost synthesis of black amorphous Al-Ti-O nanostructure for high-efficient photothermal desalination. *Nano Energy*, **2017**, 41, 600-608	17.1	107
80	Temperature-dependent Crystallization of MoS Nanoflakes on Graphene Nanosheets for Electrocatalysis. *Nanoscale Research Letters*, **2017**, 12, 479	5	23
79	Ternary Porous Cobalt Phosphoselenide Nanosheets: An Efficient Electrocatalyst for Electrocatalytic and Photoelectrochemical Water Splitting. *Advanced Materials*, **2017**, 29, 1701589	24	192
78	Tunable Synthesis of Yolk-Shell Porous Silicon@Carbon for Optimizing Si/C-Based Anode of Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 42084-42092	9.5	135
77	Flexible All-Solid-State Supercapacitors with High Volumetric Capacitances Boosted by Solution Processable MXene and Electrochemically Exfoliated Graphene. *Advanced Energy Materials*, **2017**, 7, 1601847	21.8	298
76	Efficient Electrochemical and Photoelectrochemical Water Splitting by a 3D Nanostructured Carbon Supported on Flexible Exfoliated Graphene Foil. *Advanced Materials*, **2017**, 29, 1604480	24	139
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