Shuhui Sun

List of Publications by Year in Descending Order

253 papers	11,113 citations	54 h-index	95 g-index
272 ext. papers	13,958 ext. citations	10.1 avg, IF	6.81 L-index

#	Paper	IF	Citations
253	Electronic Metal-Support Interaction Modulation of Single-Atom Electrocatalysts for Rechargeable Zinc-Air Batteries.. *Small Methods*, **2022**, e2100947	12.8	3
252	In-Situ Silica Xerogel Assisted Facile Synthesis of Fe-N-C Catalysts with Dense Fe-N Active Sites for Efficient Oxygen Reduction.. *Small*, **2022**, e2104934	11	2
251	Multi-metallic catalysts for the electroreduction of carbon dioxide: Recent advances and perspectives. *Renewable and Sustainable Energy Reviews*, **2022**, 155, 111922	16.2	6
250	Interface Engineering of NiS@MnOH Nanorods to Efficiently Enhance Overall-Water-Splitting Activity and Stability.. *Nano-Micro Letters*, **2022**, 14, 120	19.5	10
249	Atomically Dispersed Transition Metal-Nitrogen-Carbon Bifunctional Oxygen Electrocatalysts for Zinc-Air Batteries: Recent Advances and Future Perspectives.. *Nano-Micro Letters*, **2021**, 14, 36	19.5	11
248	C-F bonding in fluorinated N-Doped carbons. *Applied Surface Science*, **2021**, 151721	6.7	3
247	Fe-N4 Doped Carbon Nanotube Cathode Catalyst for PEM Fuel Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 48923-48933	9.5	1
246	High-entropy alloy stabilized active Ir for highly efficient acidic oxygen evolution. *Chemical Engineering Journal*, **2021**, 431, 133251	14.7	4
245	Isolated Palladium Atoms Dispersed on Silicoaluminophosphate-31 (SAPO-31) for the Semihydrogenation of Alkynes. *ACS Applied Nano Materials*, **2021**, 4, 861-868	5.6	5
244	MoSe2@CNT Core–Shell Nanostructures as Grain Promoters Featuring a Direct Li2O2 Formation/Decomposition Catalytic Capability in Lithium-Oxygen Batteries. *Advanced Energy Materials*, **2021**, 11, 2003263	21.8	28
243	Engineering of electrocatalyst/electrolyte interface for ambient ammonia synthesis. *SusMat*, **2021**, 1, 150-173		8
242	An Emerging Energy Storage System: Advanced Na-Se Batteries. *ACS Nano*, **2021**, 15, 5876-5903	16.7	15
241	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. *Angewandte Chemie*, **2021**, 133, 11582-11587	3.6	5
240	Proton Exchange Membrane (PEM) Fuel Cells with Platinum Group Metal (PGM)-Free Cathode. *Automotive Innovation*, **2021**, 4, 131-143	1.7	4
239	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. *Angewandte Chemie - International Edition*, **2021**, 60, 11481-11486	16.4	51
238	N, P-Codoped Graphene Dots Supported on N-Doped 3D Graphene as Metal-Free Catalysts for Oxygen Reduction. *ACS Applied Materials & Interfaces*, **2021**, 13, 30512-30523	9.5	13
237	Ni/Mn and Al Dual Concentration-Gradients To Mitigate Voltage Decay and Capacity Fading of Li-Rich Layered Cathodes. *ACS Energy Letters*, **2021**, 6, 2755-2764	20.1	9

236	Cobalt-Phthalocyanine-Derived Molecular Isolation Layer for Highly Stable Lithium Anode. *Angewandte Chemie*, **2021**, 133, 20005-20012	3.6	1
235	Graphitic-shell encapsulated FeNi alloy/nitride nanocrystals on biomass-derived N-doped carbon as an efficient electrocatalyst for rechargeable Zn-air battery **2021**, 3, 176-187		34
234	Well-Defined Nanostructures for Electrochemical Energy Conversion and Storage. *Advanced Energy Materials*, **2021**, 11, 2001537	21.8	47
233	Green gradient multi-shell CuInSe2/(CuInSexS1-x)5/CuInS2 quantum dots for photo-electrochemical hydrogen generation. *Applied Catalysis B: Environmental*, **2021**, 280, 119402	21.8	21
232	Advances and perspectives on transitional metal layered oxides for potassium-ion battery. *Energy Storage Materials*, **2021**, 34, 211-228	19.4	17
231	Efficient and stable photoelectrochemical hydrogen generation using optimized colloidal heterostructured quantum dots. *Nano Energy*, **2021**, 79, 105416	17.1	15
230	Cobalt (II) oxide nanosheets with rich oxygen vacancies as highly efficient bifunctional catalysts for ultra-stable rechargeable Zn-air flow battery. *Nano Energy*, **2021**, 79, 105409	17.1	27
229	Polymer gel electrolytes for flexible supercapacitors: Recent progress, challenges, and perspectives. *Energy Storage Materials*, **2021**, 34, 320-355	19.4	30
228	A semi-scaled experiment for metals separating and recovering from waste printed circuit boards by slurry electrolysis. *Chemical Engineering Research and Design*, **2021**, 147, 37-44	5.5	8
227	Self-Templated Hierarchically Porous Carbon Nanorods Embedded with Atomic Fe-N4 Active Sites as Efficient Oxygen Reduction Electrocatalysts in Zn-Air Batteries. *Advanced Functional Materials*, **2021**, 31, 2008085	15.6	47
226	Defect Electrocatalysts and Alkaline Electrolyte Membranes in Solid-State Zinc-Air Batteries: Recent Advances, Challenges, and Future Perspectives.. *Small Methods*, **2021**, 5, e2000868	12.8	16
225	Plasma Synthesized Trilayered RhodiumPlatinumTin Oxide Nanostructures with Enhanced Tolerance to CO Poisoning and High Electroactivity for Ethanol Oxidation. *Energy Technology*, **2021**, 9, 2000949	3.5	0
224	Thermodynamically driven metal diffusion strategy for controlled synthesis of high-entropy alloy electrocatalysts. *Chemical Communications*, **2021**, 57, 10027-10030	5.8	4
223	Reply to the Comment on Non-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC_Ar + NH3 catalyst by Xi Yin, Edward F. Holby and Piotr Zelenay, Energy Environ. Sci., 10.1039/D0EE02069A. *Energy and Environmental Science*, **2021**, 14, 1034-1041	35.4	4
222	A General Carboxylate-Assisted Approach to Boost the ORR Performance of ZIF-Derived Fe/N/C Catalysts for Proton Exchange Membrane Fuel Cells. *Advanced Functional Materials*, **2021**, 31, 2009645	15.6	36
221	Regenerative fuel cells: Recent progress, challenges, perspectives and their applications for space energy system. *Applied Energy*, **2021**, 283, 116376	10.7	14
220	Cobalt-Phthalocyanine-Derived Molecular Isolation Layer for Highly Stable Lithium Anode. *Angewandte Chemie - International Edition*, **2021**, 60, 19852-19859	16.4	11
219	Two-Dimensional Protective Layers of MX3 to Stabilize Lithium and Sodium Metal Anodes. *ACS Applied Energy Materials*, **2021**, 4, 8653-8659	6.1	0

218	Novel rare earth metal□doped one-dimensional TiO2 nanostructures: Fundamentals and multifunctional applications. *Materials Today Sustainability*, **2021**, 13, 100066	5	20
217	Non-PGM Electrocatalysts for PEM Fuel Cells: Thermodynamic Stability of Potential ORR CoNx-C Electrocatalytic Sites. *Journal of the Electrochemical Society*, **2021**, 168, 094502	3.9	3
216	Electrocatalytic Oxygen Evolution Reaction in Acidic Conditions: Recent Progress and Perspectives. *ChemSusChem*, **2021**, 14, 4636-4657	8.3	5
215	Nanostructured Metal Borides for Energy-Related Electrocatalysis: Recent Progress, Challenges, and Perspectives.. *Small Methods*, **2021**, 5, e2100699	12.8	10
214	In Situ Fabrication of Electrospun Carbon Nanofibers□Binary Metal Sulfides as Freestanding Electrode for Electrocatalytic Water Splitting. *Advanced Fiber Materials*, **2021**, 3, 117-127	10.9	23
213	Atomically Dispersed Fe-Co Bimetallic Catalysts for the Promoted Electroreduction of Carbon Dioxide. *Nano-Micro Letters*, **2021**, 14, 25	19.5	4
212	MnO -Decorated Nickel-Iron Phosphides Nanosheets: Interface Modifications for Robust Overall Water Splitting at Ultra-High Current Densities. *Small*, **2021**, e2105803	11	8
211	Low-dimensional catalysts for oxygen reduction reaction. *Progress in Natural Science: Materials International*, **2020**, 30, 787-795	3.6	7
210	Engineering of a Low-Cost, Highly Active, and Durable Tantalate□Graphene Hybrid Electrocatalyst for Oxygen Reduction. *Advanced Energy Materials*, **2020**, 10, 2000075	21.8	14
209	Cu Nanoclusters/FeN Amorphous Composites with Dual Active Sites in N-Doped Graphene for High-Performance Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 31340-31350	9.5	42
208	Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe?N as Active Sites for Electrochemical Hydrazine Oxidation Reaction. *Small*, **2020**, 16, e2002203	11	19
207	Surface engineering by doping manganese into cobalt phosphide towards highly efficient bifunctional HER and OER electrocatalysis. *Applied Surface Science*, **2020**, 515, 146059	6.7	56
206	Strategies for Engineering High-Performance PGM-Free Catalysts toward Oxygen Reduction and Evolution Reactions. *Small Methods*, **2020**, 4, 2000016	12.8	37
205	PGM-Free Fe/N/C and Ultralow Loading Pt/C Hybrid Cathode Catalysts with Enhanced Stability and Activity in PEM Fuel Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 13739-13749	9.5	27
204	Ultrafast Plasma Electron Dynamics: A Route to Terahertz Pulse Shaping. *Physical Review Applied*, **2020**, 13,	4.3	1
203	Recent Developments of Planar Micro-Supercapacitors: Fabrication, Properties, and Applications. *Advanced Functional Materials*, **2020**, 30, 1910000	15.6	38
202	Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. *ACS Applied Materials & Interfaces*, **2020**, 12, 11737-11744	9.5	24
201	Red phosphorus confined in N-doped multi-cavity mesoporous carbon for ultrahigh-performance sodium-ion batteries. *Journal of Power Sources*, **2020**, 450, 227696	8.9	17

200	Stabilizing lithium metal anode by octaphenyl polyoxyethylene-lithium complexation. *Nature Communications*, **2020**, 11, 643	17.4	84
199	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. *Nano-Micro Letters*, **2020**, 12, 21	19.5	83
198	Flexible self-supported bi-metal electrode as a highly stable carbon- and binder-free cathode for large-scale solid-state zinc-air batteries. *Applied Catalysis B: Environmental*, **2020**, 272, 118953	21.8	38
197	Indiscrete metal/metal-N-C synergic active sites for efficient and durable oxygen electrocatalysis toward advanced Zn-air batteries. *Applied Catalysis B: Environmental*, **2020**, 272, 118967	21.8	53
196	Synthesis of free-standing ternary Rh-Pt-SnO-carbon nanotube nanostructures as a highly active and robust catalyst for ethanol oxidation.. *RSC Advances*, **2020**, 10, 45149-45158	3.7	
195	Photocatalytic interlayer spacing adjustment of a graphene oxide/zinc oxide hybrid membrane for efficient water filtration. *Desalination*, **2020**, 475, 114174	10.3	13
194	MoS2-supported on free-standing TiO2-nanotubes for efficient hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2020**, 45, 4468-4480	6.7	13
193	Rechargeable Zn-ion batteries with high power and energy densities: a two-electron reaction pathway in birnessite MnO2 cathode materials. *Journal of Materials Chemistry A*, **2020**, 8, 1975-1985	13	50
192	Nanocellulose-assisted synthesis of ultrafine Co nanoparticles-loaded bimodal micro-mesoporous N-rich carbon as bifunctional oxygen electrode for Zn-air batteries. *Journal of Power Sources*, **2020**, 450, 227640	8.9	30
191	Multi-component nanoporous alloy/(oxy)hydroxide for bifunctional oxygen electrocatalysis and rechargeable Zn-air batteries. *Applied Catalysis B: Environmental*, **2020**, 268, 118431	21.8	38
190	A self-supported electrode as a high-performance binder- and carbon-free cathode for rechargeable hybrid zinc batteries. *Energy Storage Materials*, **2020**, 24, 272-280	19.4	41
189	SiO2-Fe/N/C catalyst with enhanced mass transport in PEM fuel cells. *Applied Catalysis B: Environmental*, **2020**, 264, 118523	21.8	44
188	A novel and efficient ammonia leaching method for recycling waste lithium ion batteries. *Journal of Cleaner Production*, **2020**, 251, 119665	10.3	28
187	Electrode Engineering by Atomic Layer Deposition for Sodium-Ion Batteries: From Traditional to Advanced Batteries. *Advanced Functional Materials*, **2020**, 30, 1906890	15.6	19
186	Emerging applications of atomic layer deposition for lithium-sulfur and sodium-sulfur batteries. *Energy Storage Materials*, **2020**, 26, 513-533	19.4	20
185	Progress and Challenges Toward the Rational Design of Oxygen Electrocatalysts Based on a Descriptor Approach. *Advanced Science*, **2020**, 7, 1901614	13.6	81
184	Heterostructure design of Cu2O/Cu2S core/shell nanowires for solar-driven photothermal water vaporization towards desalination. *Sustainable Energy and Fuels*, **2020**, 4, 6023-6029	5.8	6
183	Prospects of membraneless mixed-reactant microfluidic fuel cells: Evolution through numerical simulation. *Renewable and Sustainable Energy Reviews*, **2020**, 134, 110045	16.2	8

182	Defect Engineering of Carbon-based Electrocatalysts for Rechargeable Zinc-air Batteries. *Chemistry - an Asian Journal*, **2020**, 15, 3737-3751	4.5	7
181	Low-Cost, Air-Processed Quantum Dot Solar Cells via Diffusion-Controlled Synthesis. *ACS Applied Materials & Interfaces*, **2020**, 12, 36301-36310	9.5	5
180	Hybrid surface passivation of PbS/CdS quantum dots for efficient photoelectrochemical hydrogen generation. *Applied Surface Science*, **2020**, 530, 147252	6.7	12
179	Nanostructured Cobalt-Based Electrocatalysts for CO Reduction: Recent Progress, Challenges, and Perspectives. *Small*, **2020**, 16, e2004158	11	13
178	Cu/S-Occupation Bifunctional Oxygen Catalysts for Advanced Rechargeable Zinc-Air Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 52836-52844	9.5	9
177	Nanostructured shrub-like bimetallic PtxRh100-x alloys grown on carbon paper for the oxidative removal of adsorbed carbon monoxide for ethanol fuel cells reaction. *Electrochimica Acta*, **2020**, 355, 136823	6.7	5
176	Exploiting a High-Performance "Double-Carbon" Structure CoS/GN Bifunctional Catalysts for Rechargeable Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 38202-38210	9.5	18
175	Copper extraction from waste printed circuit boards by glycine. *Separation and Purification Technology*, **2020**, 253, 117463	8.3	8
174	Graphene oxide/reduced graphene oxide films as protective barriers on lead against differential aeration corrosion induced by water drops. *Nanoscale Advances*, **2020**, 2, 5412-5420	5.1	2
173	Particle size effect on the photocatalytic kinetics of barium titanate powders. *Catalysis Science and Technology*, **2020**, 10, 6274-6284	5.5	3
172	Synergistic Effect of Plasmonic Gold Nanoparticles Decorated Carbon Nanotubes in Quantum Dots/TiO for Optoelectronic Devices. *Advanced Science*, **2020**, 7, 2001864	13.6	18
171	Accurate Control of Initial Coulombic Efficiency for Lithium-rich Manganese-based Layered Oxides by Surface Multicomponent Integration. *Angewandte Chemie - International Edition*, **2020**, 59, 23061-23066	16.4	36
170	Biomass-derived nonprecious metal catalysts for oxygen reduction reaction: The demand-oriented engineering of active sites and structures **2020**, 2, 561-581		28
169	Metal-organic framework derived carbon materials for electrocatalytic oxygen reactions: Recent progress and future perspectives. *Carbon*, **2020**, 156, 77-92	10.4	102
168	Enhanced Photocurrent Generation in Proton-Irradiated Giant CdSe/CdS Core/Shell Quantum Dots. *Advanced Functional Materials*, **2019**, 29, 1904501	15.6	9
167	Visible and Near-Infrared, Multiparametric, Ultrasensitive Nanothermometer Based on Dual-Emission Colloidal Quantum Dots. *ACS Photonics*, **2019**, 6, 2479-2486	6.3	20
166	Effect of ionic liquid [MIm]HSO on WPCB metal-enriched scraps refined by slurry electrolysis. *Environmental Science and Pollution Research*, **2019**, 26, 33260-33268	5.1	7
165	Emerging applications of atomic layer deposition for the rational design of novel nanostructures for surface-enhanced Raman scattering. *Journal of Materials Chemistry C*, **2019**, 7, 1447-1471	7.1	18

164	Recent Progress on Novel Ag□TiO2 Nanocomposites for Antibacterial Applications. *Nanotechnology in the Life Sciences*, **2019**, 121-143	1.1	4
163	Use of a bilayer platinum-silver cathode to selectively perform the oxygen reduction reaction in a high concentration mixed-reactant microfluidic direct ethanol fuel cell. *International Journal of Hydrogen Energy*, **2019**, 44, 18372-18381	6.7	15
162	Direct dimethyl ether fuel cells with low platinum-group-metal loading at anode: Investigations of operating temperatures and anode Pt/Ru ratios. *Journal of Power Sources*, **2019**, 433, 126690	8.9	9
161	Cellulose Nanofibers/Reduced Graphene Oxide/Polypyrrole Aerogel Electrodes for High-Capacitance Flexible All-Solid-State Supercapacitors. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11175-11185	8.3	77
160	Transforming reed waste into a highly active metal-free catalyst for oxygen reduction reaction. *Nano Energy*, **2019**, 62, 700-708	17.1	28
159	Iron (II) phthalocyanine/N-doped graphene: A highly efficient non-precious metal catalyst for oxygen reduction. *International Journal of Hydrogen Energy*, **2019**, 44, 18103-18114	6.7	26
158	Rational design of multifunctional air electrodes for rechargeable Zn□Air batteries: Recent progress and future perspectives. *Energy Storage Materials*, **2019**, 21, 253-286	19.4	102
157	Efficient solar-driven hydrogen generation using colloidal heterostructured quantum dots. *Journal of Materials Chemistry A*, **2019**, 7, 14079-14088	13	22
156	Non-PGM Electrocatalysts for PEM Fuel Cells: Thermodynamic Stability and DFT Evaluation of Fluorinated FeN4-Based ORR Catalysts. *Journal of the Electrochemical Society*, **2019**, 166, F3277-F3286	3.9	21
155	Synthesis of high performing Cu0.31Ni0.69O/rGO hybrid for oxygen reduction reaction in alkaline medium. *International Journal of Hydrogen Energy*, **2019**, 44, 13345-13353	6.7	9
154	Incorporation of CeF3 on single-atom dispersed Fe/N/C with oxophilic interface as highly durable electrocatalyst for proton exchange membrane fuel cell. *Journal of Catalysis*, **2019**, 374, 43-50	7.3	23
153	Epitaxial BiFeCrO Multiferroic Thin-Film Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. *ACS Applied Materials & Interfaces*, **2019**, 11, 13185-13193	9.5	22
152	Laser-Induced Selective Metallization on Polymer Substrates Using Organocopper for Portable Electronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 13714-13723	9.5	17
151	LiFePO□Graphene Composites as High-Performance Cathodes for Lithium-Ion Batteries: The Impact of Size and Morphology of Graphene. *Materials*, **2019**, 12,	3.5	9
150	Plasmon enhanced upconverting core@triple-shell nanoparticles as recyclable panchromatic initiators (blue to infrared) for radical polymerization. *Nanoscale Horizons*, **2019**, 4, 907-917	10.8	17
149	Ultra-small colloidal heavy-metal-free nanoplatelets for efficient hydrogen generation. *Applied Catalysis B: Environmental*, **2019**, 250, 234-241	21.8	11
148	Ultra-long life rechargeable zinc-air battery based on high-performance trimetallic nitride and NCNT hybrid bifunctional electrocatalysts. *Nano Energy*, **2019**, 61, 86-95	17.1	82
147	Ferroelectric Fe□r Codoped BaTiO3 Nanoparticles for the Photocatalytic Oxidation of Azo Dyes. *ACS Applied Nano Materials*, **2019**, 2, 2890-2901	5.6	15

146	Nanoporous high-entropy alloys for highly stable and efficient catalysts. *Journal of Materials Chemistry A*, **2019**, 7, 6499-6506	13	105
145	Rational Design of Novel Catalysts with Atomic Layer Deposition for the Reduction of Carbon Dioxide. *Advanced Energy Materials*, **2019**, 9, 1900889	21.8	33
144	Near-Infrared Colloidal Manganese-Doped Quantum Dots: Photoluminescence Mechanism and Temperature Response. *ACS Photonics*, **2019**, 6, 2421-2431	6.3	12
143	Chemical vapour deposition of graphene: layer control, the transfer process, characterisation, and related applications. *International Reviews in Physical Chemistry*, **2019**, 38, 149-199	7	28
142	Multiphase NbTiCo alloys: The significant impact of surface corrosion on the structural stability and hydrogen permeation behaviour. *International Journal of Hydrogen Energy*, **2019**, 44, 16684-16697	6.7	8
141	B-site modified photoferroic Cr-doped barium titanate nanoparticles: microwave-assisted hydrothermal synthesis, photocatalytic and electrochemical properties.. *RSC Advances*, **2019**, 9, 20806-20817	3.7	13
140	Effect of electrolyte reuse on metal recovery from waste CPU slots by slurry electrolysis. *Waste Management*, **2019**, 95, 370-376	8.6	12
139	Non-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC_Ar + NH3 catalyst. *Energy and Environmental Science*, **2019**, 12, 3015-3037	35.4	42
138	Noble Metal-Free Nanoporous High-Entropy Alloys as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction **2019**, 1, 526-533		93
137	A Lactate/Oxygen Biofuel Cell: The Coupled Lactate Oxidase Anode and PGM-Free Fe-N-C Cathode. *ACS Applied Materials & Interfaces*, **2019**, 11, 42744-42750	9.5	5
136	Nanoporous Al-Ni-Co-Ir-Mo High-Entropy Alloy for Record-High Water Splitting Activity in Acidic Environments. *Small*, **2019**, 15, e1904180	11	113
135	3D Graphene and Its Nanocomposites: From Synthesis to Multifunctional Applications. *Carbon Nanostructures*, **2019**, 363-388	0.6	1
134	6. Rational Design of Highly Efficient Non-precious Metal Catalysts for Oxygen Reduction in Fuel Cells and MetalAir Batteries **2019**, 161-182		
133	Competitive Adsorption of Uranyl and Toxic Trace Metal Ions at MFe2O4-montmorillonite (M = Mn, Fe, Zn, Co, or Ni) Interfaces. *Clays and Clay Minerals*, **2019**, 67, 291-305	2.1	4
132	DFT and 2D-CA methods unravelling the mechanism of interfacial interaction between amino acids and Ca-montmorillonite. *Applied Clay Science*, **2019**, 183, 105356	5.2	4
131	Graphene oxide/cobalt-based nanohybrid electrodes for robust hydrogen generation. *Applied Catalysis B: Environmental*, **2019**, 245, 167-176	21.8	15
130	Copper and gold recovery from CPU sockets by one-step slurry electrolysis. *Journal of Cleaner Production*, **2019**, 213, 673-679	10.3	37
129	Rare-earth metal oxide hybridized PtFe nanocrystals synthesized via microfluidic process for enhanced electrochemical catalytic performance. *Electrochimica Acta*, **2019**, 299, 80-88	6.7	18

128	Interfacial engineering in colloidal Giant Quantum dots for high-performance photovoltaics. *Nano Energy*, **2019**, 55, 377-388	17.1	27
127	Controlled synthesis of graphene via electrochemical route and its use as efficient metal-free catalyst for oxygen reduction. *Applied Catalysis B: Environmental*, **2019**, 243, 373-380	21.8	28
126	Rational design of novel nanostructured arrays based on porous AAO templates for electrochemical energy storage and conversion. *Nano Energy*, **2019**, 55, 234-259	17.1	41
125	Delicate topotactic conversion of coordination polymers to Pd porous nanosheets for high-efficiency electrocatalysis. *Applied Catalysis B: Environmental*, **2019**, 243, 86-93	21.8	42
124	Nanostructured Mn2O3/Pt/CNTs selective electrode for oxygen reduction reaction and methanol tolerance in mixed-reactant membraneless micro-DMFC. *Electrochimica Acta*, **2019**, 297, 230-239	6.7	31
123	Three-dimensional interconnected network few-layered MoS2/N, S co-doped graphene as anodes for enhanced reversible lithium and sodium storage. *Electrochimica Acta*, **2019**, 293, 47-59	6.7	31
122	Heterostructured quantum dot architectures for efficient and stable photoelectrochemical hydrogen production. *Journal of Materials Chemistry A*, **2018**, 6, 6822-6829	13	34
121	Pt/TiSi -NCNT Novel Janus Nanostructure: A New Type of High-Performance Electrocatalyst. *ACS Applied Materials & Interfaces*, **2018**, 10, 10771-10777	9.5	6
120	Single-Atom Au/NiFe Layered Double Hydroxide Electrocatalyst: Probing the Origin of Activity for Oxygen Evolution Reaction. *Journal of the American Chemical Society*, **2018**, 140, 3876-3879	16.4	560
119	Noble metals-TiO2 nanocomposites: From fundamental mechanisms to photocatalysis, surface enhanced Raman scattering and antibacterial applications. *Applied Materials Today*, **2018**, 11, 82-135	6.6	148
118	Advanced Phosphorus-Based Materials for Lithium/Sodium-Ion Batteries: Recent Developments and Future Perspectives. *Advanced Energy Materials*, **2018**, 8, 1703058	21.8	119
117	Phosphor Polymer Nanocomposite: ZnO:Tb3+ Embedded Polystyrene Nanocomposite Thin Films for Solid-State Lighting Applications. *ACS Applied Nano Materials*, **2018**, 1, 977-988	5.6	29
116	Near-Infrared, Heavy Metal-Free Colloidal Giant Core/Shell Quantum Dots. *Advanced Energy Materials*, **2018**, 8, 1701432	21.8	68
115	Highly stable photoelectrochemical cells for hydrogen production using a SnO-TiO/quantum dot heterostructured photoanode. *Nanoscale*, **2018**, 10, 15273-15284	7.7	23
114	Polarization-independent two-dimensional diffraction metal-dielectric grating. *Applied Physics Letters*, **2018**, 113, 041905	3.4	4
113	High-Performance Reversible Aqueous Zn-Ion Battery Based on Porous MnOx Nanorods Coated by MOF-Derived N-Doped Carbon. *Advanced Energy Materials*, **2018**, 8, 1801445	21.8	284
112	Morphology controlled synthesis of SmMn2O5 nanocrystals via a surfactant-free route for Zn-air batteries. *Journal of Power Sources*, **2018**, 396, 754-763	8.9	20
111	Biosynthesized magnetite-perovskite (XFe2O4-BiFeO3) interfaces for toxic trace metal removal from aqueous solution. *Ceramics International*, **2018**, 44, 21210-21220	5.1	2

110	Efficient and stable tandem luminescent solar concentrators based on carbon dots and perovskite quantum dots. *Nano Energy*, **2018**, 50, 756-765	17.1	113
109	Completely separating metals and nonmetals from waste printed circuit boards by slurry electrolysis. *Separation and Purification Technology*, **2018**, 205, 302-307	8.3	17
108	A specific demetalation of FeN4 catalytic sites in the micropores of NC_Ar + NH3 is at the origin of the initial activity loss of the highly active Fe/N/C catalyst used for the reduction of oxygen in PEM fuel cells. *Energy and Environmental Science*, **2018**, 11, 365-382	35.4	189
107	Litchi-like porous Fe/N/C spheres with atomically dispersed FeNx promoted by sulfur as highly efficient oxygen electrocatalysts for Zn–air batteries. *Journal of Materials Chemistry A*, **2018**, 6, 4605-4610	13	43
106	Fe/Co Double Hydroxide/Oxide Nanoparticles on N-Doped CNTs as Highly Efficient Electrocatalyst for Rechargeable Liquid and Quasi-Solid-State Zinc–Air Batteries. *Advanced Energy Materials*, **2018**, 8, 1801836	21.8	70
105	Development of Nb-Ti-Co alloy for high-performance hydrogen separating membrane. *Journal of Membrane Science*, **2018**, 565, 411-424	9.6	16
104	Photochemical Synthesis of Radiate Titanium Oxide Microrods Arrays Supporting Platinum Nanoparticles for Photoassisted Electrooxidation of Methanol. *Advanced Materials Interfaces*, **2018**, 5, 1800748	4.6	6
103	An active and robust Si-Fe/N/C catalyst derived from waste reed for oxygen reduction. *Applied Catalysis B: Environmental*, **2018**, 237, 85-93	21.8	62
102	Optoelectronic Properties in Near-Infrared Colloidal Heterostructured Pyramidal "Giant" Core/Shell Quantum Dots. *Advanced Science*, **2018**, 5, 1800656	13.6	49
101	Aligned copper nanorod arrays for highly efficient generation of intense ultra-broadband THz pulses. *Scientific Reports*, **2017**, 7, 40058	4.9	23
100	RRDE experiments on noble-metal and noble-metal-free catalysts: Impact of loading on the activity and selectivity of oxygen reduction reaction in alkaline solution. *Applied Catalysis B: Environmental*, **2017**, 206, 115-126	21.8	46
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