

# Xin-Bo Zhang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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.

226  
papers

25,643  
citations

90  
h-index

158  
g-index

237  
ext. papers

28,238  
ext. citations

13.5  
avg, IF

7.56  
L-index

#	Paper	IF	Citations
226	Three Birds with One Stone: An Integrated Cathode-Electrolyte Structure for High-Performance Solid-State Lithium-Oxygen Batteries.. <i>Small</i> , <b>2022</b> , e2107833	11	1
225	Soluble and Perfluorinated Polyelectrolyte for Safe and High-Performance Li-O Batteries.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202116635	16.4	6
224	Hydrogen Bond-Assisted Solution Discharge in Aprotic Li-O Battery.. <i>Advanced Materials</i> , <b>2022</b> , e21104164	16.4	8
223	Hybrid solid electrolyte enabled dendrite-free Li anodes for high-performance quasi-solid-state lithium-oxygen batteries. <i>National Science Review</i> , <b>2021</b> , 8, nwaa150	10.8	20
222	Lithium-Air Batteries: Air-Electrochemistry and Anode Stabilization. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 632-641	24.3	33
221	Solvation Effect on the Improved Sodium Storage Performance of N-Heteropentacenequinone for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26806-26812	16.4	2
220	Recent progress on transition metal oxides as advanced materials for energy conversion and storage. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 317-369	19.4	21
219	Electrode Protection in High-Efficiency Li-O Batteries. <i>ACS Central Science</i> , <b>2020</b> , 6, 2136-2148	16.8	19
218	The Stabilization Effect of CO in Lithium-Oxygen/CO Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16661-16667	16.4	37
217	Interface between Lithium Metal and Garnet Electrolyte: Recent Progress and Perspective. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 1006-1015	5.6	9
216	The Stabilization Effect of CO <sub>2</sub> in Lithium Oxygen/CO <sub>2</sub> Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16804-16813	3.6	6
215	An Adjustable-Porosity Plastic Crystal Electrolyte Enables High-Performance All-Solid-State Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9468-9473	3.6	5
214	An Adjustable-Porosity Plastic Crystal Electrolyte Enables High-Performance All-Solid-State Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9382-9387	16.4	21
213	Ethnopharmacology of Hypericum species in China: A comprehensive review on ethnobotany, phytochemistry and pharmacology. <i>Journal of Ethnopharmacology</i> , <b>2020</b> , 254, 112686	5	25
212	Challenges and perspectives for manganese-based oxides for advanced aqueous zinc-ion batteries. <i>Information Materials</i> , <b>2020</b> , 2, 237-260	23.1	136
211	High-Capacity and Stable Li-O Batteries Enabled by a Trifunctional Soluble Redox Mediator. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19311-19319	16.4	30
210	Copper tetrazolate based metal-organic frameworks as highly efficient catalysts for artificially chemical and electrochemical CO <sub>2</sub> conversion. <i>Nano Select</i> , <b>2020</b> , 1, 311-319	3.1	9

209	A renaissance of N,N-dimethylacetamide-based electrolytes to promote the cycling stability of Li-O <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3075-3081	35.4	39
208	In Situ Designing a Gradient Li Capture and Quasi-Spontaneous Diffusion Anode Protection Layer toward Long-Life Li-O Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004157	24	62
207	High-Capacity and Stable Li-O <sub>2</sub> Batteries Enabled by a Trifunctional Soluble Redox Mediator. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19473-19481	3.6	11
206	Lithium and Stannum Hybrid Anodes for Flexible Wire-Type Lithium-Oxygen Batteries. <i>Small Structures</i> , <b>2020</b> , 1, 2000015	8.7	20
205	Flexible 1D Batteries: Recent Progress and Prospects. <i>Advanced Materials</i> , <b>2020</b> , 32, e1901961	24	69
204	Structural Optimization of Metal Oxyhalide for CO <sub>2</sub> Reduction with High Selectivity and Current Density. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 1752-1756	4.9	3
203	In Situ Coupling of Colloidal Silica and Li Salt Anion toward Stable Li Anode for Long-Cycle-Life Li-O <sub>2</sub> Batteries. <i>Matter</i> , <b>2019</b> , 1, 881-892	12.7	29
202	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9464-9469	16.4	178
201	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9564-9569	3.6	30
200	Highly efficient and selective CO <sub>2</sub> electro-reduction with atomic Fe-C-N hybrid coordination on porous carbon nanosheet. <i>Nano Research</i> , <b>2019</b> , 12, 2318-2323	10	30
199	Integrated Bismuth Oxide Ultrathin Nanosheets/Carbon Foam Electrode for Highly Selective and Energy-Efficient Electrocatalytic Conversion of CO to HCOOH. <i>Chemistry - A European Journal</i> , <b>2019</b> , 26, 4013	4.8	7
198	An Illumination-Assisted Flexible Self-Powered Energy System Based on a Li-O Battery. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16411-16415	16.4	52
197	Protecting the Lithium Metal Anode for a Safe Flexible Lithium-Air Battery in Ambient Air. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18240-18245	16.4	49
196	Silver-Intermediated Perovskite La <sub>0.9</sub> FeO <sub>3</sub> toward High-Performance Cathode Catalysts for Nonaqueous Lithium-Oxygen Batteries. <i>ACS Catalysis</i> , <b>2019</b> , 9, 11743-11752	13.1	22
195	Imine-Rich Poly(o-phenylenediamine) as High-Capacity Trifunctional Organic Electrode for Alkali-Ion Batteries. <i>CCS Chemistry</i> , <b>2019</b> , 1, 365-372	7.2	17
194	Reconstructed Orthorhombic V <sub>2</sub> O <sub>5</sub> Polyhedra for Fast Ion Diffusion in K-Ion Batteries. <i>Chem</i> , <b>2019</b> , 5, 168-179	16.2	123
193	Prevention of dendrite growth and volume expansion to give high-performance aprotic bimetallic Li-Na alloy-O <sub>2</sub> batteries. <i>Nature Chemistry</i> , <b>2019</b> , 11, 64-70	17.6	198
192	Designing a self-healing protective film on a lithium metal anode for long-cycle-life lithium-oxygen batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 18, 382-388	19.4	64

191	Alkali Metal Anodes for Rechargeable Batteries. <i>Chem</i> , <b>2019</b> , 5, 313-338	16.2	103
190	N-Doped C@Zn B O as a Low Cost and Environmentally Friendly Anode Material for Na-Ion Batteries: High Performance and New Reaction Mechanism. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805432	24	63
189	Anchoring Iron-EDTA Complex on Graphene toward the Synthesis of Highly Efficient Fe-N-C Oxygen Reduction Electrocatalyst for Fuel Cells. <i>Chinese Journal of Chemistry</i> , <b>2018</b> , 36, 287-292	4.9	15
188	High-Energy-Density Flexible Potassium-Ion Battery Based on Patterned Electrodes. <i>Joule</i> , <b>2018</b> , 2, 736-746	24.6	158
187	Decorating carbon nanofibers with Mo <sub>2</sub> C nanoparticles towards hierarchically porous and highly catalytic cathode for high-performance Li-O <sub>2</sub> batteries. <i>Science Bulletin</i> , <b>2018</b> , 63, 433-440	10.6	25
186	Superior Oxygen Reduction Electrocatalyst: Hollow Porous Spinel Microsphere. <i>Chem</i> , <b>2018</b> , 4, 196-198	16.2	27
185	Hybrid electrolyte with robust garnet-ceramic electrolyte for lithium anode protection in lithium-oxygen batteries. <i>Nano Research</i> , <b>2018</b> , 11, 3434-3441	10	38
184	Suppressing Sodium Dendrites by Multifunctional Polyvinylidene Fluoride (PVDF) Interlayers with Nonthrough Pores and High Flux/Affinity of Sodium Ions toward Long Cycle Life Sodium Oxygen-Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1703931	15.6	42
183	Photoinduced decoration of NiO nanosheets/Ni foam with Pd nanoparticles towards a carbon-free and self-standing cathode for a lithium-oxygen battery with a low overpotential and long cycle life. <i>Materials Horizons</i> , <b>2018</b> , 5, 298-302	14.4	23
182	Blood-Capillary-Inspired, Free-Standing, Flexible, and Low-Cost Super-Hydrophobic N-CNTs@SS Cathodes for High-Capacity, High-Rate, and Stable Li-Air Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702242	21.8	88
181	Complete Dehydrogenation of N <sub>2</sub> H <sub>4</sub> BH <sub>3</sub> over Noble-Metal-Free Ni <sub>0.5</sub> Fe <sub>0.5</sub> O <sub>x</sub> /MIL-101 with High Activity and 100% H <sub>2</sub> Selectivity. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800625	21.8	30
180	Functional and stability orientation synthesis of materials and structures in aprotic Li-O batteries. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 2921-3004	58.5	206
179	Engineering Ultrathin C <sub>3</sub> N <sub>4</sub> Quantum Dots on Graphene as a Metal-Free Water Reduction Electrocatalyst. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3965-3970	13.1	99
178	Advanced catalysts for sustainable hydrogen generation and storage via hydrogen evolution and carbon dioxide/nitrogen reduction reactions. <i>Progress in Materials Science</i> , <b>2018</b> , 92, 64-111	42.2	161
177	The PVDF-HFP gel polymer electrolyte for Li-O <sub>2</sub> battery. <i>Solid State Ionics</i> , <b>2018</b> , 318, 88-94	3.3	60
176	Synthesis of porous and metallic CoB nanosheets towards a highly efficient electrocatalyst for rechargeable NaO <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2833-2838	35.4	25
175	Recent Advances toward the Rational Design of Efficient Bifunctional Air Electrodes for Rechargeable Zn-Air Batteries. <i>Small</i> , <b>2018</b> , 14, e1703843	11	115
174	In Situ CVD Derived Co-N-C Composite as Highly Efficient Cathode for Flexible Li-O Batteries. <i>Small</i> , <b>2018</b> , 14, e1800590	11	47

173	Non-noble-metal bismuth nanoparticle-decorated bismuth vanadate nanoarray photoanode for efficient water splitting. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 1799-1804	7.8	12
172	Flexible Lithium-Air Batteries <b>2018</b> , 183-213		
171	Organic Carbonyl Compounds for Sodium-Ion Batteries: Recent Progress and Future Perspectives. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 18235-18245	4.8	39
170	Cation Segregation of A-Site Deficiency Perovskite LaFeO Nanoparticles toward High-Performance Cathode Catalysts for Rechargeable Li-O Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 25463-25472	8.5	20
169	Achieving of High Density/Utilization of Active Groups via Synergic Integration of C=N and C=O Bonds for Ultra-Stable and High-Rate Lithium-Ion Batteries. <i>Research</i> , <b>2018</b> , 2018, 1936735	7.8	22
168	Three-dimensional interconnected Ni(Fe)OxHy nanosheets on stainless steel mesh as a robust integrated oxygen evolution electrode. <i>Nano Research</i> , <b>2018</b> , 11, 1294-1300	10	76
167	Non-noble metals applied to solar water splitting. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3128-3156	5.4	85
166	Recent Progresses and Prospects of Cathode Materials for Non-aqueous Potassium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 548-566	29.3	32
165	Stretchable Electrode Breakthrough: Archimedean Spiral Coil Lithium Anode. <i>Joule</i> , <b>2018</b> , 2, 1654-1656	27.8	4
164	Introduction to Metal-Air Batteries: Theory and Basic Principles <b>2018</b> , 1-9		4
163	Zn-Air Batteries <b>2018</b> , 265-291		1
162	Flexible Metal-Air Batteries <b>2018</b> , 367-396		2
161	Perspectives on the Development of Metal-Air Batteries <b>2018</b> , 397-406		
160	Stabilization of Lithium-Metal Anode in Rechargeable Lithium-Air Batteries <b>2018</b> , 11-40		1
159	Li-Air Batteries: Discharge Products <b>2018</b> , 41-63		
158	Electrolytes for LiO2 Batteries <b>2018</b> , 65-94		
157	LiOxygen Battery: Parasitic Reactions <b>2018</b> , 95-124		
156	Li-Air Battery: Electrocatalysts <b>2018</b> , 125-149		

155	Spatiotemporal Operando X-ray Diffraction Study on LiAir Battery <b>2018</b> , 207-232		
154	P3-type K <sub>0.32</sub> Fe <sub>0.35</sub> Mn <sub>0.65</sub> O <sub>2</sub> ·0.39H <sub>2</sub> O: a promising cathode for Na-ion full batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13075-13081	13	19
153	Flexible MetalAir Batteries: Progress, Challenges, and Perspectives. <i>Small Methods</i> , <b>2018</b> , 2, 1700231	12.8	118
152	Materials Design and System Construction for Conventional and New-Concept Supercapacitors. <i>Advanced Science</i> , <b>2017</b> , 4, 1600382	13.6	289
151	Iron-chelated hydrogel-derived bifunctional oxygen electrocatalyst for high-performance rechargeable ZnAir batteries. <i>Nano Research</i> , <b>2017</b> , 10, 4436-4447	10	82
150	Decorating Waste Cloth via Industrial Wastewater for Tube-Type Flexible and Wearable Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603719	24	105
149	In Situ Construction of Stable Tissue-Directed/Reinforced Bifunctional Separator/Protection Film on Lithium Anode for Lithium-Oxygen Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606552	24	148
148	High-Performance Integrated Self-Package Flexible Li-O Battery Based on Stable Composite Anode and Flexible Gas Diffusion Layer. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700378	24	67
147	Reversible Nitrogen Fixation Based on a Rechargeable Lithium-Nitrogen Battery for Energy Storage. <i>Chem</i> , <b>2017</b> , 2, 525-532	16.2	102
146	Hydronium Ion Batteries: A Sustainable Energy Storage Solution. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6378-6380	16.4	39
145	Hydroniumionenbatterien: eine nachhaltige Lösung zur Energiespeicherung. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 6476-6478	3.6	14
144	Transformation of Rusty Stainless-Steel Meshes into Stable, Low-Cost, and Binder-Free Cathodes for High-Performance Potassium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7989-7993	3.6	44
143	Recent advances in metalNitrogenCarbon catalysts for electrochemical water splitting. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2155-2173	7.8	92
142	Transformation of Rusty Stainless-Steel Meshes into Stable, Low-Cost, and Binder-Free Cathodes for High-Performance Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7881-7885 <sup>191</sup>	16.4	191
141	Nanoengineered Ultralight and Robust All-Metal Cathode for High-Capacity, Stable Lithium-Oxygen Batteries. <i>ACS Central Science</i> , <b>2017</b> , 3, 598-604	16.8	95
140	In Situ Coupling FeM (M = Ni, Co) with Nitrogen-Doped Porous Carbon toward Highly Efficient Trifunctional Electrocatalyst for Overall Water Splitting and Rechargeable ZnAir Battery. <i>Advanced Sustainable Systems</i> , <b>2017</b> , 1, 1700020	5.9	102
139	Composition-tunable synthesis of CleanHyngas via a one-step synthesis of metal-free pyridinic-N-enriched self-supported CNTs: the synergy of electrocatalyst pyrolysis temperature and potential. <i>Green Chemistry</i> , <b>2017</b> , 19, 4284-4288	10	44
138	Flexible Electrodes for Sodium-Ion Batteries: Recent Progress and Perspectives. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703012	24	126

137	Recent Progress in Electrocatalyst for Li-O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700875	21.8	187
136	P3-type K <sub>0.33</sub> Co <sub>0.53</sub> Mn <sub>0.47</sub> O <sub>2</sub> ·0.39H <sub>2</sub> O: a novel bifunctional electrode for Na-ion batteries. <i>Materials Horizons</i> , <b>2017</b> , 4, 1122-1127	14.4	35
135	CeO <sub>2</sub> @NiCo <sub>2</sub> O <sub>4</sub> nanowire arrays on carbon textiles as high performance cathode for Li-O <sub>2</sub> batteries. <i>Science China Chemistry</i> , <b>2017</b> , 60, 1540-1545	7.9	21
134	Electrochemical Reduction of N under Ambient Conditions for Artificial N Fixation and Renewable Energy Storage Using N /NH Cycle. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604799	24	762
133	Ultrathin, Lightweight, and Wearable Li-O Battery with High Robustness and Gravimetric/Volumetric Energy Density. <i>Small</i> , <b>2017</b> , 13, 1602952	11	61
132	Progress of rechargeable lithium metal batteries based on conversion reactions. <i>National Science Review</i> , <b>2017</b> , 4, 54-70	10.8	102
131	Surfactant-Free Aqueous Synthesis of Pure Single-Crystalline SnSe Nanosheet Clusters as Anode for High Energy- and Power-Density Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602469	24	192
130	Co-embedded N-doped carbon fibers as highly efficient and binder-free cathode for NaO <sub>2</sub> batteries. <i>Energy Storage Materials</i> , <b>2017</b> , 6, 1-8	19.4	47
129	Recent Progress on the Development of Metal-Air Batteries. <i>Advanced Sustainable Systems</i> , <b>2017</b> , 1, 1700036	9.9	62
128	Cathode Surface-Induced, Solvation-Mediated, Micrometer-Sized Li O Cycling for Li-O Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 9620-9628	24	192
127	In Situ Coupling of Strung Co <sub>4</sub> N and Intertwined N-C Fibers toward Free-Standing Bifunctional Cathode for Robust, Efficient, and Flexible Zn-Air Batteries. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10226-31	16.4	710
126	In Situ Activating Ubiquitous Rust towards Low-Cost, Efficient, Free-Standing, and Recoverable Oxygen Evolution Electrodes. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9937-41	16.4	142
125	In Situ Activating Ubiquitous Rust towards Low-Cost, Efficient, Free-Standing, and Recoverable Oxygen Evolution Electrodes. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10091-10095	3.6	44
124	Reactive Multifunctional Template-Induced Preparation of Fe-N-Doped Mesoporous Carbon Microspheres Towards Highly Efficient Electrocatalysts for Oxygen Reduction. <i>Advanced Materials</i> , <b>2016</b> , 28, 7948-7955	24	279
123	Designing multi-shelled metal oxides: towards high energy-density lithium-ion batteries. <i>Science China Materials</i> , <b>2016</b> , 59, 521-522	7.1	12
122	Growth of Ru-Modified Co <sub>3</sub> O <sub>4</sub> Nanosheets on Carbon Textiles toward Flexible and Efficient Cathodes for Flexible LiO <sub>2</sub> Batteries. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 500-505	3.1	31
121	Macroporous Interconnected Hollow Carbon Nanofibers Inspired by Golden-Toad Eggs toward a Binder-Free, High-Rate, and Flexible Electrode. <i>Advanced Materials</i> , <b>2016</b> , 28, 7494-500	24	145
120	Hybrid Film from Nickel Oxide and Oxygenated Carbon Nanotube as Flexible Electrodes for Pseudocapacitors. <i>ChemNanoMat</i> , <b>2016</b> , 2, 698-703	3.5	8

119	Integrated Three-Dimensional Carbon Paper/Carbon Tubes/Cobalt-Sulfide Sheets as an Efficient Electrode for Overall Water Splitting. <i>ACS Nano</i> , <b>2016</b> , 10, 2342-8	16.7	471
118	Integrating 3D Flower-Like Hierarchical Cu <sub>2</sub> NiSnS <sub>4</sub> with Reduced Graphene Oxide as Advanced Anode Materials for Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9178-84	9.5	57
117	Green and Facile Fabrication of MWNTs@Sb <sub>2</sub> S <sub>3</sub> @PPy Coaxial Nanocables for High-Performance Na-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 493-499	3.1	62
116	Cable-Type Water-Survivable Flexible Li-O <sub>2</sub> Battery. <i>Small</i> , <b>2016</b> , 12, 3101-5	11	94
115	N,O-codoped porous carbon nanosheets for capacitors with ultra-high capacitance. <i>Science China Materials</i> , <b>2016</b> , 59, 547-557	7.1	18
114	Optimized nitrogen-doped carbon with a hierarchically porous structure as a highly efficient cathode for NaO <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10008-10013	13	26
113	In situ anchoring of Co <sub>9</sub> S <sub>8</sub> nanoparticles on N and S co-doped porous carbon tube as bifunctional oxygen electrocatalysts. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e308-e308	10.3	147
112	A binder-free, flexible cathode for rechargeable Na-O <sub>2</sub> batteries. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 1172-1179	11.3	15
111	A Flexible and Wearable Lithium-Oxygen Battery with Record Energy Density achieved by the Interlaced Architecture inspired by Bamboo Slips. <i>Advanced Materials</i> , <b>2016</b> , 28, 8413-8418	24	114
110	A Biodegradable Polydopamine-Derived Electrode Material for High-Capacity and Long-Life Lithium-Ion and Sodium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10820-10824	3.6	121
109	A Biodegradable Polydopamine-Derived Electrode Material for High-Capacity and Long-Life Lithium-Ion and Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10662-6	16.4	254
108	Pure Single-Crystalline NaVO Nanobelts as Superior Cathode Materials for Rechargeable Sodium-Ion Batteries. <i>Advanced Science</i> , <b>2015</b> , 2, 1400018	13.6	99
107	Flexible lithium-oxygen battery based on a recoverable cathode. <i>Nature Communications</i> , <b>2015</b> , 6, 7892	17.4	259
106	Electrospun materials for lithium and sodium rechargeable batteries: from structure evolution to electrochemical performance. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1660-1681	35.4	326
105	Gelatin-derived sustainable carbon-based functional materials for energy conversion and storage with controllability of structure and component. <i>Science Advances</i> , <b>2015</b> , 1, e1400035	14.3	130
104	Multi-ring aromatic carbonyl compounds enabling high capacity and stable performance of sodium-organic batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3160-3165	35.4	133
103	C and N Hybrid Coordination Derived Co-C-N Complex as a Highly Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15070-3	16.4	315
102	Flexible and Foldable Li-O <sub>2</sub> Battery Based on Paper-Ink Cathode. <i>Advanced Materials</i> , <b>2015</b> , 27, 8095-10124	12.4	101



101	Synergistic Effect between Metal-Nitrogen-Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Water-Oxidation Performance. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 10676-10680	3.6	50
100	Artificial Protection Film on Lithium Metal Anode toward Long-Cycle-Life Lithium-Oxygen Batteries. <i>Advanced Materials</i> , <b>2015</b> , 27, 5241-7	24	383
99	Synergistic Effect between Metal-Nitrogen-Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Water-Oxidation Performance. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 10530-4	16.4	257
98	Recent Progress on Stability Enhancement for Cathode in Rechargeable Non-Aqueous Lithium-Oxygen Battery. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500633	21.8	117
97	Hierarchical Co <sub>3</sub> O <sub>4</sub> porous nanowires as an efficient bifunctional cathode catalyst for long life Li-O <sub>2</sub> batteries. <i>Nano Research</i> , <b>2015</b> , 8, 576-583	10	58
96	Electrostatic induced stretch growth of homogeneous Ni(OH) <sub>2</sub> on graphene with enhanced high-rate cycling for supercapacitors. <i>Scientific Reports</i> , <b>2014</b> , 4, 3669	4.9	197
95	Tailored Aromatic Carbonyl Derivative Polyimides for High-Power and Long-Cycle Sodium-Organic Batteries. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301651	21.8	267
94	Direct electrodeposition of cobalt oxide nanosheets on carbon paper as free-standing cathode for LiO <sub>2</sub> battery. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6081-6085	13	80
93	Oxygen electrocatalysts in metal-air batteries: from aqueous to nonaqueous electrolytes. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 7746-86	58.5	1073
92	3D ordered macroporous LaFeO <sub>3</sub> as efficient electrocatalyst for LiO <sub>2</sub> batteries with enhanced rate capability and cyclic performance. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2213	35.4	306
91	ZIF-8 derived graphene-based nitrogen-doped porous carbon sheets as highly efficient and durable oxygen reduction electrocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 14235-9	16.4	724
90	In situ generated Fe <sub>3</sub> in homogeneous iron matrix toward high-performance cathode material for sodium-ion batteries. <i>Nano Energy</i> , <b>2014</b> , 10, 295-304	17.1	90
89	Dendritic Ni-P-coated melamine foam for a lightweight, low-cost, and amphiphatic three-dimensional current collector for binder-free electrodes. <i>Advanced Materials</i> , <b>2014</b> , 26, 7264-70	24	94
88	Advances and challenges for flexible energy storage and conversion devices and systems. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2101	35.4	650
87	Engraving copper foil to give large-scale binder-free porous CuO arrays for a high-performance sodium-ion battery anode. <i>Advanced Materials</i> , <b>2014</b> , 26, 2273-9, 2284	24	395
86	Electrodes: Engraving Copper Foil to Give Large-Scale Binder-Free Porous CuO Arrays for a High-Performance Sodium-Ion Battery Anode (Adv. Mater. 14/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 2284-2284	24	8
85	ZIF-8 Derived Graphene-Based Nitrogen-Doped Porous Carbon Sheets as Highly Efficient and Durable Oxygen Reduction Electrocatalysts. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 14459-14463	3.6	69
84	CO <sub>2</sub> -expanded ethanol chemical synthesis of a Fe <sub>3</sub> O <sub>4</sub> @graphene composite and its good electrochemical properties as anode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 3954	13	54

83	Facile synthesis of a Co <sub>3</sub> O <sub>4</sub> /carbon nanotube composite and its superior performance as an anode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1141-1147	13	157
82	Trace amounts of water-induced distinct growth behaviors of NiO nanostructures on graphene in CO <sub>2</sub> -expanded ethanol and their applications in lithium-ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 7065-71	9.5	26
81	The developments and challenges of cerium half-cell in zinc/cerium redox flow battery for energy storage. <i>Electrochimica Acta</i> , <b>2013</b> , 90, 695-704	6.7	63
80	Efficient PdNi and PdNi@Pd-catalyzed hydrogen generation via formic acid decomposition at room temperature. <i>Chemical Communications</i> , <b>2013</b> , 49, 10028-30	5.8	110
79	Tailoring deposition and morphology of discharge products towards high-rate and long-life lithium-oxygen batteries. <i>Nature Communications</i> , <b>2013</b> , 4, 2438	17.4	478
78	Investigation of Pt nanoparticles with controlled size supported on carbon for dimethyl ether electrooxidation. <i>Journal of Power Sources</i> , <b>2013</b> , 225, 231-239	8.9	6
77	The development and challenges of rechargeable non-aqueous lithium/air batteries. <i>International Journal of Smart and Nano Materials</i> , <b>2013</b> , 4, 27-46	3.6	24
76	Nitrogen-doped porous carbon nanosheets as low-cost, high-performance anode material for sodium-ion batteries. <i>ChemSusChem</i> , <b>2013</b> , 6, 56-60	8.3	558
75	In situ fabrication of porous graphene electrodes for high-performance energy storage. <i>ACS Nano</i> , <b>2013</b> , 7, 2422-30	16.7	374
74	An efficient three-dimensional oxygen evolution electrode. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5248-53	16.4	284
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71	pH-switched luminescence and sensing properties of a carbon dot/polyaniline composite. <i>RSC Advances</i> , <b>2013</b> , 3, 5475	3.7	31
70	An Efficient Three-Dimensional Oxygen Evolution Electrode. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 5356-5361	3.6	81
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61	In situ synthesis of magnetically recyclable graphene-supported Pd@Co core-shell nanoparticles as efficient catalysts for hydrolytic dehydrogenation of ammonia borane. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12468		136
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32	Electrochemical oxidation of ammonia borane on gold electrode. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 174-179	6.7	32
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16	Crystallographic and electrochemical characteristics of La <sub>0.7</sub> Mg <sub>0.3</sub> Ni <sub>3.5</sub> (Al <sub>0.5</sub> Mo <sub>0.5</sub> ) <sub>x</sub> (x=0.8) hydrogen storage alloys. <i>Journal of Power Sources</i> , <b>2006</b> , 154, 290-297	8.9	66
15	Structures and electrochemical characteristics of several kinds of alloys. <i>Research on Chemical Intermediates</i> , <b>2006</b> , 32, 403-417	2.8	
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10	Effect of La/Ce ratio on the structure and electrochemical characteristics of La <sub>0.7</sub> Ce <sub>x</sub> Mg <sub>0.3</sub> Ni <sub>2.8</sub> Co <sub>0.5</sub> (x = 0.1-0.5) hydrogen storage alloys. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 1957-1964	6.7	32
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