

# Ping He

## List of Publications by Citations

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14,209  
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#	Paper	IF	Citations
230	Raising the cycling stability of aqueous lithium-ion batteries by eliminating oxygen in the electrolyte. <i>Nature Chemistry</i> , <b>2010</b> , 2, 760-5	17.6	679
229	Core-shell-structured CNT@RuO(2) composite as a high-performance cathode catalyst for rechargeable Li-O(2) batteries. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 442-6	16.4	453
228	Nano active materials for lithium-ion batteries. <i>Nanoscale</i> , <b>2010</b> , 2, 1294-305	7.7	443
227	Layered lithium transition metal oxide cathodes towards high energy lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3680		361
226	Critical Challenges in Rechargeable Aprotic LiO <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502303	21.8	305
225	Preparation of mesocellular carbon foam and its application for lithium/oxygen battery. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1127-1130	5.1	296
224	Olivine LiFePO <sub>4</sub> : development and future. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 805-817	35.4	273
223	Constructing a Super-Saturated Electrolyte Front Surface for Stable Rechargeable Aqueous Zinc Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9377-9381	16.4	234
222	High-energy 'composite' layered manganese-rich cathode materials via controlling Li <sub>2</sub> MnO <sub>3</sub> phase activation for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 6584-95	3.6	232
221	Li-CO <sub>2</sub> Electrochemistry: A New Strategy for CO <sub>2</sub> Fixation and Energy Storage. <i>Joule</i> , <b>2017</b> , 1, 359-370	27.8	207
220	A reversible lithium-O <sub>2</sub> battery with Ru nanoparticles as a cathode catalyst. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 972-978	35.4	201
219	Direct Visualization of the Reversible O <sub>2</sub> /O Redox Process in Li-Rich Cathode Materials. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705197	24	190
218	A self-defense redox mediator for efficient lithium-O <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1024-1030	35.4	185
217	The water catalysis at oxygen cathodes of lithium-oxygen cells. <i>Nature Communications</i> , <b>2015</b> , 6, 7843	17.4	178
216	Rechargeable Solid-State Li <sub>2</sub> Air and LiS Batteries: Materials, Construction, and Challenges. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701602	21.8	165
215	Activated carbon with ultrahigh specific surface area synthesized from natural plant material for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15889-15896	13	161
214	Simultaneously Inhibiting Lithium Dendrites Growth and Polysulfides Shuttle by a Flexible MOF-Based Membrane in LiS Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802130	21.8	158

213	Status and prospects of polymer electrolytes for solid-state LiO <sub>2</sub> (air) batteries. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 860-884	35.4	153
212	Germanium Thin Film Protected Lithium Aluminum Germanium Phosphate for Solid-State Li Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702374	21.8	146
211	High-surface vanadium oxides with large capacities for lithium-ion batteries: from hydrated aerogel to nanocrystalline VO <sub>2</sub> (B), V <sub>6</sub> O <sub>13</sub> and V <sub>2</sub> O <sub>5</sub> . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10999		143
210	Developing a "Water-Defendable" and "Dendrite-Free" Lithium-Metal Anode Using a Simple and Promising GeCl Pretreatment Method. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705711	24	142
209	Exploring the electrochemical reaction mechanism of carbonate oxidation in Li <sub>2</sub> Sr/CO <sub>2</sub> battery through tracing missing oxygen. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1650-1654	35.4	140
208	Superior Performance of a LiO <sub>2</sub> Battery with Metallic RuO <sub>2</sub> Hollow Spheres as the Carbon-Free Cathode. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500294	21.8	122
207	Lithium Metal Extraction from Seawater. <i>Joule</i> , <b>2018</b> , 2, 1648-1651	27.8	121
206	Li-Redox Flow Batteries Based on Hybrid Electrolytes: At the Cross Road between Li-ion and Redox Flow Batteries. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 770-779	21.8	119
205	Mesoporous NiO with a single-crystalline structure utilized as a noble metal-free catalyst for non-aqueous LiO <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16177-16182	13	116
204	MOF-Based Separator in an LiO <sub>2</sub> Battery: An Effective Strategy to Restrain the Shuttling of Dual Redox Mediators. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 463-468	20.1	116
203	Solid-State Electrolytes for Lithium-Ion Batteries: Fundamentals, Challenges and Perspectives. <i>Electrochemical Energy Reviews</i> , <b>2019</b> , 2, 574-605	29.3	113
202	Enabling catalytic oxidation of Li <sub>2</sub> O <sub>2</sub> at the liquid-solid interface: the evolution of an aprotic Li-O <sub>2</sub> battery. <i>ChemSusChem</i> , <b>2015</b> , 8, 600-2	8.3	111
201	A Concentrated Ternary-Salts Electrolyte for High Reversible Li Metal Battery with Slight Excess Li. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803372	21.8	108
200	From O to HO : Reducing By-Products and Overpotential in Li-O Batteries by Water Addition. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 4960-4964	16.4	107
199	A Polyaniline-Intercalated Layered Manganese Oxide Nanocomposite Prepared by an Inorganic/Organic Interface Reaction and Its High Electrochemical Performance for Li Storage. <i>Advanced Materials</i> , <b>2008</b> , 20, 2166-2170	24	106
198	An oxygen cathode with stable full discharge-charge capability based on 2D conducting oxide. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1992-1997	35.4	103
197	A Li-air fuel cell with recycle aqueous electrolyte for improved stability. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 1686-1689	5.1	100
196	Investigation on capacity fading of LiFePO <sub>4</sub> in aqueous electrolyte. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2351-2357	23.57	98

- 195 High-Loading Nano-SnO<sub>2</sub> Encapsulated in situ in Three-Dimensional Rigid Porous Carbon for Superior Lithium-Ion Batteries. *Chemistry - A European Journal*, **2016**, 22, 4915-23 4.8 98
- 194 The effect of oxygen vacancies on the structure and electrochemistry of LiTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> for lithium-ion batteries: A combined experimental and theoretical study. *Journal of Power Sources*, **2009**, 194, 1075-1080 8.9 93
- 193 Highly Connected Silicon-Copper Alloy Mixture Nanotubes as High-Rate and Durable Anode Materials for Lithium-Ion Batteries. *Advanced Functional Materials*, **2016**, 26, 524-531 15.6 92
- 192 Single-crystal H<sub>2</sub>V<sub>3</sub>O<sub>8</sub> nanowires: a competitive anode with large capacity for aqueous lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 1780-1787 90
- 191 Stabilization of polysulfides via lithium bonds for LiS batteries. *Journal of Materials Chemistry A*, **2016**, 4, 5406-5409 13 87
- 190 Li<sub>2</sub>CO<sub>3</sub>-free Li<sub>2</sub>O/CO<sub>2</sub> battery with peroxide discharge product. *Energy and Environmental Science*, **2018**, 11, 1211-1217 35.4 84
- 189 Li-CO and Na-CO Batteries: Toward Greener and Sustainable Electrical Energy Storage. *Advanced Materials*, **2020**, 32, e1903790 24 82
- 188 A lithium-air capacitor battery based on a hybrid electrolyte. *Energy and Environmental Science*, **2011**, 4, 4994 35.4 82
- 187 A Metal-Organic Framework as a Multifunctional Ionic Sieve Membrane for Long-Life Aqueous Zinc-Iodide Batteries. *Advanced Materials*, **2020**, 32, e2004240 24 82
- 186 Lithium-Air Batteries with Hybrid Electrolytes. *Journal of Physical Chemistry Letters*, **2016**, 7, 1267-80 6.4 78
- 185 The development of a new type of rechargeable batteries based on hybrid electrolytes. *ChemSusChem*, **2010**, 3, 1009-19 8.3 78
- 184 A comprehensive survey on the reliability of mobile wireless sensor networks: Taxonomy, challenges, and future directions. *Information Fusion*, **2018**, 44, 188-204 16.7 77
- 183 Progress in research on Li<sub>2</sub>O<sub>2</sub> batteries: Mechanism, catalyst and performance. *Chinese Journal of Catalysis*, **2016**, 37, 1016-1024 11.3 77
- 182 Transient, in situ synthesis of ultrafine ruthenium nanoparticles for a high-rate Li<sub>2</sub>O<sub>2</sub> battery. *Energy and Environmental Science*, **2019**, 12, 1100-1107 35.4 77
- 181 A Dual-Ion Organic Symmetric Battery Constructed from Phenazine-Based Artificial Bipolar Molecules. *Angewandte Chemie - International Edition*, **2019**, 58, 9902-9906 16.4 76
- 180 Fabrication and Performance of All-Solid-State Li-Air Battery with SWCNTs/LAGP Cathode. *ACS Applied Materials & Interfaces*, **2015**, 7, 17307-10 9.5 76
- 179 Lithium-Ion Intercalation Behavior of LiFePO<sub>4</sub> in Aqueous and Nonaqueous Electrolyte Solutions. *Journal of the Electrochemical Society*, **2008**, 155, A144 3.9 76
- 178 Robust adaptive synchronization of uncertain complex networks with multiple time-varying coupled delays. *Complexity*, **2015**, 20, 62-73 1.6 75

177	Robust decentralized adaptive synchronization of general complex networks with coupling delayed and uncertainties. <i>Complexity</i> , <b>2014</b> , 19, 10-26	1.6	74
176	Ruthenium functionalized graphene aerogels with hierarchical and three-dimensional porosity as a free-standing cathode for rechargeable lithium-oxygen batteries. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e239-e239 <sup>10.3</sup>		73
175	Manganese-Based Na-Rich Materials Boost Anionic Redox in High-Performance Layered Cathodes for Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807770	24	72
174	Unraveling the Complex Role of Iodide Additives in LiO <sub>2</sub> Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1869-1878 <sup>10.1</sup>		72
173	Materials for advanced Li-O <sub>2</sub> batteries: Explorations, challenges and prospects. <i>Materials Today</i> , <b>2019</b> , 26, 87-99	21.8	70
172	Hierarchical Porous Nickel Cobaltate Nanoneedle Arrays as Flexible Carbon-Protected Cathodes for High-Performance Lithium-Oxygen Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8427-35	9.5	69
171	Binder-free carbonized bacterial cellulose-supported ruthenium nanoparticles for Li-O <sub>2</sub> batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 7302-4	5.8	67
170	Titanium nitride catalyst cathode in a Li-air fuel cell with an acidic aqueous solution. <i>Chemical Communications</i> , <b>2011</b> , 47, 10701-3	5.8	66
169	Research progresses on materials and electrode design towards key challenges of Li-air batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 13, 29-48	19.4	63
168	Improvement of electrochemical properties of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> by coating with V <sub>2</sub> O <sub>5</sub> layer. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 552, 76-82	5.7	62
167	A Liquid Electrolyte with De-Solvated Lithium Ions for Lithium-Metal Battery. <i>Joule</i> , <b>2020</b> , 4, 1776-1789	27.8	62
166	Advances in Lithium-Containing Anodes of Aprotic LiO <sub>2</sub> Batteries: Challenges and Strategies for Improvements. <i>Small Methods</i> , <b>2017</b> , 1, 1700135	12.8	61
165	The effect of alkalinity and temperature on the performance of lithium-air fuel cell with hybrid electrolytes. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5611-5616	8.9	59
164	Restraining Oxygen Loss and Suppressing Structural Distortion in a Newly Ti-Substituted Layered Oxide P <sub>2</sub> -Na <sub>0.66</sub> Li <sub>0.22</sub> Ti <sub>0.15</sub> Mn <sub>0.63</sub> O <sub>2</sub> . <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2409-2417	20.1	58
163	Developing A "Polysulfide-Phobic" Strategy to Restrain Shuttle Effect in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11774-11778	16.4	58
162	Ruthenium oxide coated ordered mesoporous carbon nanofiber arrays: a highly bifunctional oxygen electrocatalyst for rechargeable Zn air batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6282-6289 <sup>13</sup>		52
161	Intensive Study on the Catalytical Behavior of N-Methylphenothiazine as a Soluble Mediator to Oxidize the LiO Cathode of the Li-O Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3733-3739 <sup>9.5</sup>		51
160	Cation-mixing stabilized layered oxide cathodes for sodium-ion batteries. <i>Science Bulletin</i> , <b>2018</b> , 63, 376-384 <sup>10.4</sup>		50

159	Nano- and micro-sized TiN as the electrocatalysts for ORR in Li <sup>air</sup> fuel cell with alkaline aqueous electrolyte. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15549		50
158	Boosting the Cycle Life of LiO <sub>2</sub> Batteries at Elevated Temperature by Employing a Hybrid Polymer/Ceramic Solid Electrolyte. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1378-1384	20.1	49
157	Core/Shell-Structured CNT@RuO <sub>2</sub> Composite as a High-Performance Cathode Catalyst for Rechargeable LiO <sub>2</sub> Batteries. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 452-456	3.6	49
156	Organic hydrogen peroxide-driven low charge potentials for high-performance lithium-oxygen batteries with carbon cathodes. <i>Nature Communications</i> , <b>2017</b> , 8, 15607	17.4	49
155	Beyond the concentrated electrolyte: further depleting solvent molecules within a Li <sup>+</sup> solvation sheath to stabilize high-energy-density lithium metal batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4122-4131	35.4	48
154	Ordered mesoporous TiC-C composites as cathode materials for Li-O <sub>2</sub> batteries. <i>Chemical Communications</i> , <b>2016</b> , 52, 2713-6	5.8	46
153	Study on structure, mechanical property and cell cytocompatibility of electrospun collagen nanofibers crosslinked by common agents. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 113, 476-486	7.9	44
152	Three-Dimensional Honeycomb-Structural LiAlO-Modified LiMnPO Composite with Superior High Rate Capability as Li-Ion Battery Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10786-10793	9.5	44
151	Finite-time mixed outer synchronization of complex networks with coupling time-varying delay. <i>Chaos</i> , <b>2012</b> , 22, 043151	3.3	44
150	A novel LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /MnO <sub>2</sub> hybrid supercapacitor in lithium sulfate aqueous electrolyte. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 8128-8133	6.7	44
149	Ultra-fine surface solid-state electrolytes for long cycle life all-solid-state lithium <sup>air</sup> batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21248-21254	13	43
148	A current collector covering nanostructured villous oxygen-deficient NiO fabricated by rapid laser-scan for Li-O <sub>2</sub> batteries. <i>Nano Energy</i> , <b>2018</b> , 51, 83-90	17.1	41
147	Suppressed the High-Voltage Phase Transition of P2-Type Oxide Cathode for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14848-14853	9.5	40
146	A Versatile Halide Ester Enabling Li-Anode Stability and a High Rate Capability in Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2355-2359	16.4	40
145	Direct synthesis of mesoporous carbon nanowires in nanotubes using MnO(2) nanotubes as a template and their application in supercapacitors. <i>Chemical Communications</i> , <b>2009</b> , 6813-5	5.8	37
144	Reducing Water Activity by Zeolite Molecular Sieve Membrane for Long-Life Rechargeable Zinc Battery. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102415	24	37
143	A phase-transition-free cathode for sodium-ion batteries with ultralong cycle life. <i>Nano Energy</i> , <b>2018</b> , 52, 88-94	17.1	36
142	Solar-driven efficient Li <sub>2</sub> O <sub>2</sub> oxidation in solid-state Li-ion O <sub>2</sub> batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 11, 170-175	19.4	35

141	Noise tolerance leader-following of high-order nonlinear dynamical multi-agent systems with switching topology and communication delay. <i>Journal of the Franklin Institute</i> , <b>2016</b> , 353, 108-143	4	33
140	A Design of Solid-State Li-S Cell with Evaporated Lithium Anode To Eliminate Shuttle Effects. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33735-33739	9.5	32
139	Reversible Lithium-Ion Uptake in Poly(methylmethacrylate) Thin-Film via Lithiation/Delithiation at In Situ Formed Intramolecular Cyclopentanedione. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601375	21.8	32
138	Research Progress for the Development of Li-Air Batteries: Addressing Parasitic Reactions Arising from Air Composition. <i>Energy and Environmental Materials</i> , <b>2018</b> , 1, 61-74	13	32
137	Carbon-Free O Cathode with Three-Dimensional Ultralight Nickel Foam-Supported Ruthenium Electrocatalysts for Li-O Batteries. <i>ChemSusChem</i> , <b>2017</b> , 10, 2714-2719	8.3	31
136	Constructing a Super-Saturated Electrolyte Front Surface for Stable Rechargeable Aqueous Zinc Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9463-9467	3.6	31
135	A stable high-voltage lithium-ion battery realized by an in-built water scavenger. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1197-1204	35.4	31
134	Electrochemical kinetics study of Li-ion in Cu <sub>6</sub> Sn <sub>5</sub> electrode of lithium batteries by PITT and EIS. <i>Journal of Electroanalytical Chemistry</i> , <b>2008</b> , 624, 161-166	4.1	30
133	Capturing Reversible Cation Migration in Layered Structure Materials for Na-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900189	21.8	29
132	An ultra-stable and enhanced reversibility lithium metal anode with a sufficient O <sub>2</sub> design for Li-O <sub>2</sub> battery. <i>Energy Storage Materials</i> , <b>2018</b> , 12, 176-182	19.4	29
131	Facile synthesis of carbon-LiMnPO <sub>4</sub> nanorods with hierarchical architecture as a cathode for high-performance Li-ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 289, 415-421	6.7	28
130	A bottom-up synthetic hierarchical buffer structure of copper silicon nanowire hybrids as ultra-stable and high-rate lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7877-7886	13	27
129	Advances and Challenges for Aprotic Lithium-Oxygen Batteries using Redox Mediators. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 803-819	5.6	26
128	Oxygen-Deficient Ferric Oxide as an Electrochemical Cathode Catalyst for High-Energy Lithium-Sulfur Batteries. <i>Small</i> , <b>2020</b> , 16, e2000870	11	26
127	A Review of Solid-State Lithium Sulfur Battery: Ion Transport and Polysulfide Chemistry. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 11942-11961	4.1	26
126	Intensive investigation on all-solid-state Li-air batteries with cathode catalysts of single-walled carbon nanotube/RuO <sub>2</sub> . <i>Journal of Power Sources</i> , <b>2018</b> , 395, 439-443	8.9	26
125	A High-Crystalline NaV <sub>1.25</sub> Ti <sub>0.75</sub> O <sub>4</sub> Anode for Wide-Temperature Sodium-Ion Battery. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801162	21.8	23
124	A novel direct borohydride fuel cell using an acid-alkaline hybrid electrolyte. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1515	35.4	23

- 123 NaCl-Template Assisted Synthesis of 3D Honeycomb-Like LiMnPO<sub>4</sub>/C with High Rate and Stable Performance as Lithium-Ion Battery Cathodes. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16683-16691<sup>8.3</sup>
- 122 A Li-ion oxygen battery with Li-Si alloy anode prepared by a mechanical method. *Electrochemistry Communications*, **2017**, 78, 11-15 5.1 21
- 121 Clean Electrocatalysis in a Li<sub>2</sub>O<sub>2</sub> Redox-Based Li<sub>2</sub>O<sub>2</sub> Battery Built with a Hydrate-Melt Electrolyte. *ACS Catalysis*, **2018**, 8, 1082-1089 13.1 21
- 120 A novel rechargeable Li-AgO battery with hybrid electrolytes. *Chemical Communications*, **2010**, 46, 2055-2058 3.8 21
- 119 Controllable hydrogen generation from water. *ChemSusChem*, **2010**, 3, 571-4 8.3 21
- 118 Synthesis of hierarchical and bridging carbon-coated LiMn<sub>0.9</sub>Fe<sub>0.1</sub>PO<sub>4</sub> nanostructure as cathode material with improved performance for lithium ion battery. *Journal of Power Sources*, **2017**, 359, 408-414<sup>8.9</sup> 21
- 117 From O<sub>2</sub> to HO<sub>2</sub>—Reducing By-Products and Overpotential in Li-O<sub>2</sub> Batteries by Water Addition. *Angewandte Chemie*, **2017**, 129, 5042-5046 3.6 20
- 116 Revealing the Critical Role of Titanium in Layered Manganese-Based Oxides toward Advanced Sodium-Ion Batteries via a Combined Experimental and Theoretical Study. *Small Methods*, **2019**, 3, 1800183<sup>12.8</sup> 20
- 115 Exploring a high capacity O<sub>3</sub>-type cathode for sodium-ion batteries and its structural evolution during an electrochemical process. *Chemical Communications*, **2018**, 54, 12167-12170 5.8 20
- 114 A Dual-Ion Organic Symmetric Battery Constructed from Phenazine-Based Artificial Bipolar Molecules. *Angewandte Chemie*, **2019**, 131, 10007-10011 3.6 19
- 113 Solar-driven all-solid-state lithium-air batteries operating at extreme low temperatures. *Energy and Environmental Science*, **2020**, 13, 1205-1211 35.4 19
- 112 In situ X-ray diffraction and thermal analysis of LiNi<sub>0.8</sub>Co<sub>0.15</sub>Al<sub>0.05</sub>O<sub>2</sub> synthesized via co-precipitation method. *Journal of Energy Chemistry*, **2018**, 27, 1655-1660 12 19
- 111 Developing A Polysulfide-Phobic Strategy to Restrain Shuttle Effect in Lithium Sulfur Batteries. *Angewandte Chemie*, **2019**, 131, 11900-11904 3.6 18
- 110 Killing two birds with one stone: a Cu ion redox mediator for a non-aqueous Li<sub>2</sub>O<sub>2</sub> battery. *Journal of Materials Chemistry A*, **2019**, 7, 17261-17265 13 18
- 109 A Safe Organic Oxygen Battery Built with Li-Based Liquid Anode and MOFs Separator. *Advanced Energy Materials*, **2020**, 10, 1903953 21.8 18
- 108 A lithium-ion oxygen battery with a Si anode lithiated in situ by a LiN-containing cathode. *Chemical Communications*, **2018**, 54, 1069-1072 5.8 18
- 107 MnCo<sub>2</sub>O<sub>4</sub> decorated Magn<sub>2</sub> phase titanium oxide as a carbon-free cathode for Li<sub>2</sub>O<sub>2</sub> batteries. *Journal of Materials Chemistry A*, **2017**, 5, 19991-19996 13 18
- 106 Research on Effective Oxygen Window Influencing the Capacity of Li-O<sub>2</sub> Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 10375-82 9.5 18



105	Rational Design of a Gel-Polymer-Inorganic Separator with Uniform Lithium-Ion Deposition for Highly Stable Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35788-35795	9.5	17
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103	An Appraisal of Lung Nodules Automatic Classification Algorithms for CT Images. <i>Sensors</i> , <b>2019</b> , 19,	3.8	17
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