

Andrew Lushington

List of Publications by Year in Descending Order

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

250
papers

22,468
citations

80
h-index

142
g-index

252
ext. papers

26,646
ext. citations

15
avg, IF

7.46
L-index

#	Paper	IF	Citations
250	Antiperovskite Electrolytes for Solid-State Batteries.. <i>Chemical Reviews</i> , 2022 ,	68.1	18
249	Advanced Support Materials and Interactions for Atomically Dispersed Noble-Metal Catalysts: From Support Effects to Design Strategies. <i>Advanced Energy Materials</i> , 2022 , 12, 2102556	21.8	8
248	Recent progress and perspectives on designing high-performance thick electrodes for all-solid-state lithium batteries. <i>ETransportation</i> , 2022 , 11, 100152	12.7	7
247	Characterization of Supported Metal Single-Atom Catalysts 2022 , 169-198		2
246	COFs-based electrolyte accelerates the Na ⁺ diffusion and restrains dendrite growth in quasi-solid-state organic batteries. <i>Nano Energy</i> , 2021 , 106756	17.1	8
245	Electron and Ion Co-Conductive Catalyst Achieving Instant Transformation of Lithium Polysulfide towards Li S. <i>Advanced Materials</i> , 2021 , e2105362	24	7
244	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. <i>Advanced Functional Materials</i> , 2021 , 31, 2010526	15.6	13
243	Deciphering Interfacial Chemical and Electrochemical Reactions of Sulfide-Based All-Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100210	21.8	20
242	Immobilization and kinetic promotion of polysulfides by molybdenum carbide in lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 411, 128563	14.7	14
241	Constructing high-rate and long-life phosphorus/carbon anodes for potassium-ion batteries through rational nanoconfinement. <i>Nano Energy</i> , 2021 , 83, 105772	17.1	24
240	Realizing Solid-Phase Reaction in LiS Batteries via Localized High-Concentration Carbonate Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2101004	21.8	9
239	Recent Development of Electrocatalytic CO Reduction Application to Energy Conversion. <i>Small</i> , 2021 , 17, e2100323	11	12
238	Recent progress and prospects of Li-CO ₂ batteries: Mechanisms, catalysts and electrolytes. <i>Energy Storage Materials</i> , 2021 , 34, 148-170	19.4	31
237	Insight into cathode surface to boost the performance of solid-state batteries. <i>Energy Storage Materials</i> , 2021 , 35, 661-668	19.4	16
236	Recent advances and perspectives on thin electrolytes for high-energy-density solid-state lithium batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 643-671	35.4	71
235	Atomic/molecular layer deposition for energy storage and conversion. <i>Chemical Society Reviews</i> , 2021 , 50, 3889-3956	58.5	39
234	Regulated lithium plating and stripping by a nano-scale gradient inorganicorganic coating for stable lithium metal anodes. <i>Energy and Environmental Science</i> , 2021 , 14, 4085-4094	35.4	15

233	A flexible electron-blocking interfacial shield for dendrite-free solid lithium metal batteries. <i>Nature Communications</i> , 2021 , 12, 176	17.4	47
232	All-solid-state lithium batteries enabled by sulfide electrolytes: from fundamental research to practical engineering design. <i>Energy and Environmental Science</i> , 2021 , 14, 2577-2619	35.4	49
231	New Insight of Pyrrole-Like Nitrogen for Boosting Hydrogen Evolution Activity and Stability of Pt Single Atoms. <i>Small</i> , 2021 , 17, e2004453	11	15
230	Reviving Anode Protection Layer in Na-O ₂ Batteries: Failure Mechanism and Resolving Strategy. <i>Advanced Energy Materials</i> , 2021 , 11, 2003789	21.8	6
229	Insight into MoS ₂ /MoN Heterostructure to Accelerate Polysulfide Conversion toward High-Energy-Density Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003314	21.8	60
228	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2100836	21.8	17
227	Realizing High-Performance Li-S Batteries through Additive Manufactured and Chemically Enhanced Cathodes.. <i>Small Methods</i> , 2021 , 5, e2100176	12.8	5
226	Composite Nanostructure Construction on the Grain Surface of Li-Rich Layered Oxides. <i>Advanced Materials</i> , 2020 , 32, e1906070	24	38
225	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000030	24	81
224	Recent Advances of Bimetallic Sulfide Anodes for Sodium Ion Batteries. <i>Frontiers in Chemistry</i> , 2020 , 8, 353	5	13
223	Enabling ultrafast ionic conductivity in Br-based lithium argyrodite electrolytes for solid-state batteries with different anodes. <i>Energy Storage Materials</i> , 2020 , 30, 238-249	19.4	21
222	Understanding the Critical Role of Binders in Phosphorus/Carbon Anode for Sodium-Ion Batteries through Unexpected Mechanism. <i>Advanced Functional Materials</i> , 2020 , 30, 2000060	15.6	15
221	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2001139	21.8	21
220	Controllable Synthesis of Co@CoO/Helical Nitrogen-Doped Carbon Nanotubes toward Oxygen Reduction Reaction as Binder-free Cathodes for Al-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16512-16520	9.5	13
219	Interrogation of the Reaction Mechanism in a Na-O Battery Using Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 , 14, 3669-3677	16.7	22
218	Eliminating the Detrimental Effects of Conductive Agents in Sulfide-Based Solid-State Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1243-1251	20.1	38
217	Site-Occupation-Tuned Superionic LiScClHalide Solid Electrolytes for All-Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7012-7022	16.4	97
216	Dendrite-free lithium metal solid battery with a novel polyester based triblock copolymer solid-state electrolyte. <i>Nano Energy</i> , 2020 , 72, 104690	17.1	40

215	3D Printing of Free-Standing O_2 Breathable Air Electrodes for High-Capacity and Long-Life NaO_2 Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 3018-3027	9.6	20
214	Sodium-Oxygen Batteries: Recent Developments and Remaining Challenges. <i>Trends in Chemistry</i> , 2020 , 2, 241-253	14.8	17
213	Towards high-performance solid-state Li-S batteries: from fundamental understanding to engineering design. <i>Chemical Society Reviews</i> , 2020 , 49, 2140-2195	58.5	175
212	Advanced characterization techniques for solid state lithium battery research. <i>Materials Today</i> , 2020 , 36, 139-157	21.8	50
211	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of $10 \text{ mA cm}^{-2}/20 \text{ mAh cm}^{-2}$ Realized by Selective Nucleation within Microchannel Walls. <i>Advanced Energy Materials</i> , 2020 , 10, 1903753	21.8	44
210	A Versatile Sn-Substituted Argyrodite Sulfide Electrolyte for All-Solid-State Li Metal Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903422	21.8	81
209	$\text{Li}_{10}\text{Ge}(\text{P}_{1-x}\text{Sbx})_2\text{S}_{12}$ Lithium-Ion Conductors with Enhanced Atmospheric Stability. <i>Chemistry of Materials</i> , 2020 , 32, 2664-2672	9.6	50
208	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001118	15.6	25
207	Dual-functional interfaces for highly stable Ni-rich layered cathodes in sulfide all-solid-state batteries. <i>Energy Storage Materials</i> , 2020 , 27, 117-123	19.4	59
206	Design of a mixed conductive garnet/Li interface for dendrite-free solid lithium metal batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 127-134	35.4	150
205	Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage LiCoO_2 batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2769-2776	13	38
204	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state LiSe batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 278-286	13	22
203	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. <i>Nano Energy</i> , 2020 , 69, 104396	17.1	40
202	Reversible hybrid sodium- CO_2 batteries with low charging voltage and long-life. <i>Nano Energy</i> , 2020 , 68, 104318	17.1	49
201	Engineering the Low Coordinated Pt Single Atom to Achieve the Superior Electrocatalytic Performance toward Oxygen Reduction. <i>Small</i> , 2020 , 16, e2003096	11	36
200	Tuning the dual-active sites of ZIF-67 derived porous nanomaterials for boosting oxygen catalysis and rechargeable Zn-air batteries. <i>Nano Research</i> , 2020 , 14, 2353	10	18
199	Stabilizing and understanding the interface between nickel-rich cathode and PEO-based electrolyte by lithium niobium oxide coating for high-performance all-solid-state batteries. <i>Nano Energy</i> , 2020 , 78, 105107	17.1	38
198	Tuning bifunctional interface for advanced sulfide-based all-solid-state batteries. <i>Energy Storage Materials</i> , 2020 , 33, 139-146	19.4	17

197	Interfaces in Garnet-Based All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001318.8	18.8	37
196	Converting a thick electrode into vertically aligned thin electrodes by 3D-Printing for designing thickness independent Li-S cathode. <i>Energy Storage Materials</i> , 2020 , 24, 682-688	19.4	40
195	Highly stable Ni-rich layered oxide cathode enabled by a thick protective layer with bio-tissue structure. <i>Energy Storage Materials</i> , 2020 , 24, 291-296	19.4	28
194	Air-stable Li ₃ InCl ₆ electrolyte with high voltage compatibility for all-solid-state batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2665-2671	35.4	158
193	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , 2019 , 9, 9350-9358	13.1	61
192	Highly Exposed Active Sites of Defect-Enriched Derived MOFs for Enhanced Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17855-17862	8.3	35
191	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. <i>Matter</i> , 2019 , 1, 1215-1231	12.7	72
190	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2480-2488	20.1	85
189	Cobalt-Doped SnS ₂ with Dual Active Centers of Synergistic Absorption-Catalysis Effect for High-S Loading Li-S Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1806724	15.6	139
188	In situ formation of highly controllable and stable Na ₃ PS ₄ as a protective layer for Na metal anode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4119-4125	13	29
187	Recent progress on solid-state hybrid electrolytes for solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019 , 21, 308-334	19.4	117
186	Three-dimensional Composite Catalysts for Al-O Batteries Composed of CoMnO Nanoneedles Supported on Nitrogen-Doped Carbon Nanotubes/Graphene. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21526-21535	9.5	25
185	Optimized ALD-derived MgO coating layers enhancing silicon anode performance for lithium ion batteries. <i>Journal of Materials Research</i> , 2019 , 34, 2425-2434	2.5	6
184	Novel amorphous CoSnO ₃ @rGO nanocomposites highly enhancing sodium storage. <i>Electrochimica Acta</i> , 2019 , 316, 236-247	6.7	13
183	In-situ formed Li ₂ CO ₃ -free garnet/Li interface by rapid acid treatment for dendrite-free solid-state batteries. <i>Nano Energy</i> , 2019 , 61, 119-125	17.1	159
182	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019 , 9, 5365-5374	13.1	21
181	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900261	12.8	60
180	Rational design of porous structures via molecular layer deposition as an effective stabilizer for enhancing Pt ORR performance. <i>Nano Energy</i> , 2019 , 60, 111-118	17.1	41

179	Visualizing the Oxidation Mechanism and Morphological Evolution of the Cubic-Shaped Superoxide Discharge Product in Na ⁺ Air Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1808332	15.6	20
178	Suppressing Corrosion of Aluminum Foils via Highly Conductive Graphene-like Carbon Coating in High-Performance Lithium-Based Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32826-32832	9.5	17
177	Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. <i>Nano Energy</i> , 2019 , 65, 103988	17.1	25
176	Insight into the Microstructure and Ionic Conductivity of Cold Sintered NASICON Solid Electrolyte for Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27890-27896	9.5	34
175	Unveiling the Interfacial Instability of the Phosphorus/Carbon Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30763-30773	9.5	16
174	The application of carbon materials in nonaqueous Na-O ₂ batteries 2019 , 1, 141-164		33
173	ALD derived Fe ³⁺ - doping toward high performance P ₂ N _a 0.75Ni0.2Co0.2Mn0.6O ₂ cathode material for sodium ion batteries. <i>Materials Today Energy</i> , 2019 , 14, 100353	7	11
172	O ₂ /O ₂ ⁻ Crossover- and Dendrite-Free Hybrid Solid-State NaO ₂ Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 9024-9031	9.6	14
171	Stabilizing Sulfur Cathode in Carbonate and Ether Electrolytes: Excluding Long-Chain Lithium Polysulfide Formation and Switching Lithiation/Delithiation Route. <i>Chemistry of Materials</i> , 2019 , 31, 2002-2009	9.6	18
170	Efficient Trapping and Catalytic Conversion of Polysulfides by VS ₄ Nanosites for LiS Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 755-762	20.1	122
169	Engineering a Nanonet [®] -reinforced polymer electrolyte for long-life LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24947-24952	13	13
168	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. <i>Small</i> , 2019 , 15, e1904740	11	69
167	Nanomechanical elasticity and fracture studies of lithium phosphate (LPO) and lithium tantalate (LTO) solid-state electrolytes. <i>Nanoscale</i> , 2019 , 11, 18730-18738	7.7	11
166	A metal-organic framework-derived bifunctional catalyst for hybrid sodium-air batteries. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 407-414	21.8	73
165	Mitigating the Interfacial Degradation in Cathodes for High-Performance Oxide-Based Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4954-4961	9.5	50
164	Designing a highly efficient polysulfide conversion catalyst with paramontroseite for high-performance and long-life lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 57, 230-240	17.1	134
163	Chemical speciation and mapping of the Si in Si doped LFP ingot with synchrotron radiation technique. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2211-2217	2.3	3
162	Design of a 3D-Porous Structure with Residual Carbon for High-Performance Ni-Rich Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2500-2506	9.5	15

161	A Novel Organic "Polyurea" Thin Film for Ultralong-Life Lithium-Metal Anodes via Molecular-Layer Deposition. <i>Advanced Materials</i> , 2019 , 31, e1806541	24	129
160	Molecular Layer Deposition for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2018 , 3, 899-914	20.1	96
159	Formation of size-dependent and conductive phase on lithium iron phosphate during carbon coating. <i>Nature Communications</i> , 2018 , 9, 929	17.4	35
158	Highly interconnected hollow graphene nanospheres as an advanced high energy and high power cathode for sodium metal batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9846-9853	13	26
157	High Capacity, Dendrite-Free Growth, and Minimum Volume Change Na Metal Anode. <i>Small</i> , 2018 , 14, e1703717	11	75
156	Robust Metallic Lithium Anode Protection by the Molecular-Layer-Deposition Technique. <i>Small Methods</i> , 2018 , 2, 1700417	12.8	65
155	Metal-Organic Frameworks-Derived CoP@N-C@rGO with Dual Protection Layers for Improved Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14641-14648	9.5	83
154	Promising Dual-Doped Graphene Aerogel/SnS Nanocrystal Building High Performance Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2637-2648	9.5	165
153	Aligning the binder effect on sodium-air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1473-1484	13	18
152	Origin of phase inhomogeneity in lithium iron phosphate during carbon coating. <i>Nano Energy</i> , 2018 , 45, 52-60	17.1	12
151	Synchrotron-Based X-ray Absorption Fine Structures, X-ray Diffraction, and X-ray Microscopy Techniques Applied in the Study of Lithium Secondary Batteries. <i>Small Methods</i> , 2018 , 2, 1700341	12.8	44
150	A liquid anode for rechargeable sodium-air batteries with low voltage gap and high safety. <i>Nano Energy</i> , 2018 , 49, 574-579	17.1	40
149	High Tap Density Co and Ni Containing P2-Na _{0.66} MnO ₂ Buckyballs: A Promising High Voltage Cathode for Stable Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1801898	15.6	33
148	Novel High-Energy-Density Rechargeable Hybrid Sodium-Air Cell with Acidic Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23748-23756	9.5	17
147	Recent developments and insights into the understanding of Na metal anodes for Na-metal batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2673-2695	35.4	257
146	Designing High-Performance Nanostructured P2-type Cathode Based on a Template-free Modified Pechini Method for Sodium-Ion Batteries. <i>ACS Omega</i> , 2018 , 3, 8309-8316	3.9	11
145	Paper with Power: Engraving 2D Materials on 3D Structures for Printed, High-Performance, Binder-Free, and All-Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803600	15.6	26
144	On the Cycling Performance of Na-O ₂ Cells: Revealing the Impact of the Superoxide Crossover toward the Metallic Na Electrode. <i>Advanced Functional Materials</i> , 2018 , 28, 1801904	15.6	28

143	Non Noble Metal Catalyst for Oxygen Reduction Reaction and Its Characterization by Simulated Fuel Cell Test. <i>Journal of the Electrochemical Society</i> , 2018 , 165, J3008-J3015	3.9	10
142	High-performance all-solid-state Li ₈ Fe batteries induced by sulfide electrolytes. <i>Energy and Environmental Science</i> , 2018 , 11, 2828-2832	35.4	69
141	Dendrite-free and minimum volume change Li metal anode achieved by three-dimensional artificial interlayers. <i>Energy Storage Materials</i> , 2018 , 15, 415-421	19.4	31
140	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31240-31248	9.5	125
139	Stabilizing interface between Li ₁₀ SnP ₂ S ₁₂ and Li metal by molecular layer deposition. <i>Nano Energy</i> , 2018 , 53, 168-174	17.1	84
138	Minimizing Polysulfide Shuttle Effect in Lithium-Ion Sulfur Batteries by Anode Surface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21965-21972	9.5	16
137	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1654-1661	9.5	63
136	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. <i>Nano Energy</i> , 2018 , 43, 368-375	17.1	103
135	Significantly improving cycling performance of cathodes in lithium ion batteries: The effect of Al ₂ O ₃ and LiAlO ₂ coatings on LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ . <i>Nano Energy</i> , 2018 , 44, 111-120	17.1	374
134	Stabilization of all-solid-state Li ₈ batteries with a polymer/ceramic sandwich electrolyte by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23712-23719	13	51
133	Thermal Stability of Alumina-Overcoated Au ₂₅ Clusters for Catalysis. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6904-6911	5.6	5
132	Addressing Interfacial Issues in Liquid-Based and Solid-State Batteries by Atomic and Molecular Layer Deposition. <i>Joule</i> , 2018 , 2, 2583-2604	27.8	138
131	A green and template-free synthesis process of superior carbon material with ellipsoidal structure as enhanced material for supercapacitors. <i>Journal of Power Sources</i> , 2018 , 405, 80-88	8.9	31
130	Toward High Areal Energy and Power Density Electrode for Li-Ion Batteries via Optimized 3D Printing Approach. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39794-39801	9.5	70
129	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. <i>Nature Communications</i> , 2018 , 9, 4509	17.4	123
128	Origin of achieving the enhanced activity and stability of Pt electrocatalysts with strong metal-support interactions via atomic layer deposition. <i>Nano Energy</i> , 2018 , 53, 716-725	17.1	31
127	Surface and Subsurface Reactions of Lithium Transition Metal Oxide Cathode Materials: An Overview of the Fundamental Origins and Remedying Approaches. <i>Advanced Energy Materials</i> , 2018 , 8, 1802057	21.8	146
126	High-Performance and Recyclable Al-Air Coin Cells Based on Eco-friendly Chitosan Hydrogel Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19730-19738	9.5	30

125	Recent Advances on Sodium-Oxygen Batteries: A Chemical Perspective. <i>Accounts of Chemical Research</i> , 2018 , 51, 1532-1540	24.3	41
124	Revealing the charge/discharge mechanism of NaO ₂ cells by in situ soft X-ray absorption spectroscopy. <i>Energy and Environmental Science</i> , 2018 , 11, 2073-2077	35.4	29
123	Graphene Oxide-Template Controlled Cuboid-Shaped High-Capacity VS ₄ Nanoparticles as Anode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1801806	15.6	94
122	Interface Design and Development of Coating Materials in LithiumSulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1801323	15.6	69
121	Development of the cold sintering process and its application in solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018 , 393, 193-203	8.9	53
120	Structural Design of LithiumSulfur Batteries: From Fundamental Research to Practical Application. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 239-293	29.3	197
119	Tailoring grain boundary structures and chemistry of Ni-rich layered cathodes for enhanced cycle stability of lithium-ion batteries. <i>Nature Energy</i> , 2018 , 3, 600-605	62.3	402
118	Revealing the Chemical Mechanism of NaO ₂ Decomposition by In Situ Raman Imaging. <i>Chemistry of Materials</i> , 2018 , 30, 5156-5160	9.6	19
117	Superior performance of ordered macroporous TiNb ₂ O ₇ anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. <i>Nano Energy</i> , 2017 , 34, 15-25	17.1	264
116	Superior sodium storage of novel VO ₂ nano-microspheres encapsulated into crumpled reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4850-4860	13	67
115	Ultrasml MoS ₂ embedded in carbon nanosheets-coated Sn/SnO _x as anode material for high-rate and long life Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4576-4582	13	68
114	Highly stable Li _{1.2} Mn _{0.54} Co _{0.13} Ni _{0.13} O ₂ enabled by novel atomic layer deposited AlPO ₄ coating. <i>Nano Energy</i> , 2017 , 34, 120-130	17.1	137
113	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. <i>Advanced Materials</i> , 2017 , 29, 1606663	24	221
112	Inkjet-printed silicon as high performance anodes for Li-ion batteries. <i>Nano Energy</i> , 2017 , 36, 313-321	17.1	71
111	Atomic layer deposited tantalum oxide to anchor Pt/C for a highly stable catalyst in PEMFCs. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9760-9767	13	33
110	Tracking the Effect of Sodium Insertion/Extraction in Amorphous and Anatase TiO ₂ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11773-11782	3.8	19
109	Orientation and Ordering of Organic and Hybrid InorganicOrganic Polyurea Films Using Molecular Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11757-11764	3.8	13
108	New insight into atomic-scale engineering of electrode surface for long-life and safe high voltage lithium ion cathodes. <i>Nano Energy</i> , 2017 , 38, 19-27	17.1	39

107	Engineering the Pores of Biomass-Derived Carbon: Insights for Achieving Ultrahigh Stability at High Power in High-Energy Supercapacitors. <i>ChemSusChem</i> , 2017 , 10, 2805-2815	8.3	75
106	A bifunctional solid state catalyst with enhanced cycling stability for Na and LiO ₂ cells: revealing the role of solid state catalysts. <i>Energy and Environmental Science</i> , 2017 , 10, 286-295	35.4	47
105	Origin of the high oxygen reduction reaction of nitrogen and sulfur co-doped MOF-derived nanocarbon electrocatalysts. <i>Materials Horizons</i> , 2017 , 4, 900-907	14.4	79
104	Dual-phase Spinel MnCo ₂ O ₄ Nanocrystals with Nitrogen-doped Reduced Graphene Oxide as Potential Catalyst for Hybrid Na-Air Batteries. <i>Electrochimica Acta</i> , 2017 , 244, 222-229	6.7	45
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