

Andrew Lushington

List of Publications by Citations

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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	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. <i>Nature Communications</i> , 2016 , 7, 13638	17.4	1085
249	High oxygen-reduction activity and durability of nitrogen-doped graphene. <i>Energy and Environmental Science</i> , 2011 , 4, 760	35.4	1073
248	Understanding and recent development of carbon coating on LiFePO ₄ cathode materials for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 5163-5185	35.4	729
247	Recent Developments and Understanding of Novel Mixed Transition-Metal Oxides as Anodes in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502175	21.8	600
246	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013 , 3,	4.9	589
245	Emerging applications of atomic layer deposition for lithium-ion battery studies. <i>Advanced Materials</i> , 2012 , 24, 3589-615	24	436
244	Ultrathin MoS ₂ /Nitrogen-Doped Graphene Nanosheets with Highly Reversible Lithium Storage. <i>Advanced Energy Materials</i> , 2013 , 3, 839-844	21.8	417
243	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
242	Nitrogen doping effects on the structure of graphene. <i>Applied Surface Science</i> , 2011 , 257, 9193-9198	6.7	400
241	Metal organic frameworks for energy storage and conversion. <i>Energy Storage Materials</i> , 2016 , 2, 35-62	19.4	386
240	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
239	Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage. <i>Advanced Functional Materials</i> , 2012 , 22, 1647-1654	15.6	359
238	Olivine LiFePO ₄ : the remaining challenges for future energy storage. <i>Energy and Environmental Science</i> , 2015 , 8, 1110-1138	35.4	323
237	Significant impact of 2D graphene nanosheets on large volume change tin-based anodes in lithium-ion batteries: A review. <i>Journal of Power Sources</i> , 2015 , 274, 869-884	8.9	307
236	Challenges and opportunities of nanostructured materials for aprotic rechargeable lithium-ion batteries. <i>Nano Energy</i> , 2013 , 2, 443-467	17.1	285
235	Atomic layer deposition of solid-state electrolyte coated cathode materials with superior high-voltage cycling behavior for lithium ion battery application. <i>Energy and Environmental Science</i> , 2014 , 7, 768-778	35.4	284
234	Superior cycle stability of nitrogen-doped graphene nanosheets as anodes for lithium ion batteries. <i>Electrochemistry Communications</i> , 2011 , 13, 822-825	5.1	280

233	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
232	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
231	From Lithium-Oxygen to Lithium-Air Batteries: Challenges and Opportunities. <i>Advanced Energy Materials</i> , 2016 , 6, 1502164	21.8	237
230	Nitrogen-doped carbon nanotubes as cathode for lithium-air batteries. <i>Electrochemistry Communications</i> , 2011 , 13, 668-672	5.1	237
229	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. <i>Advanced Materials</i> , 2017 , 29, 1606663	24	221
228	Extremely stable platinum nanoparticles encapsulated in a zirconia nanocage by area-selective atomic layer deposition for the oxygen reduction reaction. <i>Advanced Materials</i> , 2015 , 27, 277-81	24	206
227	Structural Design of Lithium-Sulfur Batteries: From Fundamental Research to Practical Application. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 239-293	29.3	197
226	Inorganic-Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. <i>Nano Letters</i> , 2017 , 17, 5653-5659	11.5	183
225	Significant impact on cathode performance of lithium-ion batteries by precisely controlled metal oxide nanocoatings via atomic layer deposition. <i>Journal of Power Sources</i> , 2014 , 247, 57-69	8.9	178
224	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
223	Sodium-Oxygen Batteries: A Comparative Review from Chemical and Electrochemical Fundamentals to Future Perspective. <i>Advanced Materials</i> , 2016 , 28, 7065-93	24	172
222	A comprehensive review on recent progress in aluminum-air batteries. <i>Green Energy and Environment</i> , 2017 , 2, 246-277	5.7	171
221	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
220	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
219	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
218	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
217	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
216	Controlled SnO ₂ Crystallinity Effectively Dominating Sodium Storage Performance. <i>Advanced Energy Materials</i> , 2016 , 6, 1502057	21.8	143

215	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
214	High concentration nitrogen doped carbon nanotube anodes with superior Li ⁺ storage performance for lithium rechargeable battery application. <i>Journal of Power Sources</i> , 2012 , 197, 238-245	8.9	138
213	Rational design of atomic-layer-deposited LiFePO ₄ as a high-performance cathode for lithium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 6472-7	24	138
212	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
211	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
210	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
209	On rechargeability and reaction kinetics of sodium-air batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 3747-3757	35.4	132
208	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
207	Hierarchically porous LiFePO ₄ /nitrogen-doped carbon nanotubes composite as a cathode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7537		126
206	Safe and Durable High-Temperature Lithium-Sulfur Batteries via Molecular Layer Deposited Coating. <i>Nano Letters</i> , 2016 , 16, 3545-9	11.5	126
205	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
204	Defect-Rich Crystalline SnO ₂ Immobilized on Graphene Nanosheets with Enhanced Cycle Performance for Li Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22149-22156	3.8	125
203	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
202	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
201	Nitrogen-doped carbon nanotubes with high activity for oxygen reduction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 2258-2265	6.7	118
200	Recent progress on solid-state hybrid electrolytes for solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019 , 21, 308-334	19.4	117
199	Going Beyond Lithium Hybrid Capacitors: Proposing a New High-Performing Sodium Hybrid Capacitor System for Next-Generation Hybrid Vehicles Made with Bio-Inspired Activated Carbon. <i>Advanced Energy Materials</i> , 2016 , 6, 1502199	21.8	112
198	Crumpled reduced graphene oxide conformally encapsulated hollow V ₂ O ₅ nano/microsphere achieving brilliant lithium storage performance. <i>Nano Energy</i> , 2016 , 24, 32-44	17.1	111

197	Sulfur/Nitrogen Dual-doped Porous Graphene Aerogels Enhancing Anode Performance of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 205, 188-197	6.7	110
196	Superior catalytic activity of nitrogen-doped graphene cathodes for high energy capacity sodium-air batteries. <i>Chemical Communications</i> , 2013 , 49, 11731-3	5.8	107
195	Elegant design of electrode and electrode/electrolyte interface in lithium-ion batteries by atomic layer deposition. <i>Nanotechnology</i> , 2015 , 26, 024001	3.4	106
194	Atomic Layer Deposition of Lithium Tantalate Solid-State Electrolytes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20260-20267	3.8	106
193	Chemical Structure of Nitrogen-Doped Graphene with Single Platinum Atoms and Atomic Clusters as a Platform for the PEMFC Electrode. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3890-3900	3.8	105
192	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
191	Atomic scale enhancement of metal-support interactions between Pt and ZrC for highly stable electrocatalysts. <i>Energy and Environmental Science</i> , 2015 , 8, 1450-1455	35.4	101
190	Soft X-ray XANES studies of various phases related to LiFePO ₄ based cathode materials. <i>Energy and Environmental Science</i> , 2012 , 5, 7007	35.4	101
189	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
188	Molecular Layer Deposition for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2018 , 3, 899-914	20.1	96
187	Structurally tailored graphene nanosheets as lithium ion battery anodes: an insight to yield exceptionally high lithium storage performance. <i>Nanoscale</i> , 2013 , 5, 12607-15	7.7	96
186	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
185	Ultrathin atomic layer deposited ZrO ₂ coating to enhance the electrochemical performance of Li ₄ Ti ₅ O ₁₂ as an anode material. <i>Electrochimica Acta</i> , 2013 , 93, 195-201	6.7	93
184	Enhanced Performance of P ₂ -Na _{0.66} (Mn _{0.54} Co _{0.13} Ni _{0.13})O ₂ Cathode for Sodium-Ion Batteries by Ultrathin Metal Oxide Coatings via Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2017 , 27, 1701870	15.6	92
183	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. <i>Advanced Materials</i> , 2017 , 29, 1703764	24	91
182	Unravelling the Role of Electrochemically Active FePO Coating by Atomic Layer Deposition for Increased High-Voltage Stability of LiNiMnO Cathode Material. <i>Advanced Science</i> , 2015 , 2, 1500022	13.6	89
181	Novel approach toward a binder-free and current collector-free anode configuration: highly flexible nanoporous carbon nanotube electrodes with strong mechanical strength harvesting improved lithium storage. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18847		88
180	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

179	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
178	Surface aging at olivine LiFePO ₄ : a direct visual observation of iron dissolution and the protection role of nano-carbon coating. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1579-1586	13	84
177	Recent Progress on MOF-Derived Nanomaterials as Advanced Electrocatalysts in Fuel Cells. <i>Catalysts</i> , 2016 , 6, 116	4	84
176	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
175	Cu-doped P ₂ -Na _{0.5} Ni _{0.33} Mn _{0.67} O ₂ encapsulated with MgO as a novel high voltage cathode with enhanced Na-storage properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8408-8415	13	82
174	Controllable synthesis of graphene-based titanium dioxide nanocomposites by atomic layer deposition. <i>Nanotechnology</i> , 2011 , 22, 165602	3.4	82
173	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000030	24	81
172	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
171	Tunable porous structure of metal organic framework derived carbon and the application in lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016 , 302, 174-179	8.9	81
170	Highly stable Na _{2/3} (Mn _{0.54} Ni _{0.13} Co _{0.13})O ₂ cathode modified by atomic layer deposition for sodium-ion batteries. <i>ChemSusChem</i> , 2015 , 8, 2537-43	8.3	80
169	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
168	Three-Dimensional Nanostructured Air Electrode for Sodium-Oxygen Batteries: A Mechanism Study toward the Cyclability of the Cell. <i>Chemistry of Materials</i> , 2015 , 27, 3040-3047	9.6	79
167	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
166	High Capacity, Dendrite-Free Growth, and Minimum Volume Change Na Metal Anode. <i>Small</i> , 2018 , 14, e1703717	11	75
165	Printing nanostructured carbon for energy storage and conversion applications. <i>Carbon</i> , 2015 , 92, 150-176	16.4	74
164	Nitrogen-doped carbon nanotubes coated by atomic layer deposited SnO ₂ with controlled morphology and phase. <i>Carbon</i> , 2011 , 49, 1133-1144	10.4	74
163	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
162	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

161	Inkjet-printed silicon as high performance anodes for Li-ion batteries. <i>Nano Energy</i> , 2017 , 36, 313-321	17.1	71
160	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
159	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
158	Oxygen-containing Functional Groups Enhancing Electrochemical Performance of Porous Reduced Graphene Oxide Cathode in Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015 , 174, 762-769	6.7	69
157	High-performance all-solid-state LiSe batteries induced by sulfide electrolytes. <i>Energy and Environmental Science</i> , 2018 , 11, 2828-2832	35.4	69
156	Self-stacked nitrogen-doped carbon nanotubes as long-life air electrode for sodium-air batteries: Elucidating the evolution of discharge product morphology. <i>Nano Energy</i> , 2015 , 12, 698-708	17.1	69
155	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
154	Interface Design and Development of Coating Materials in Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1801323	15.6	69
153	Ultrasmall 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
152	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
151	Atomic layer deposition of lithium phosphates as solid-state electrolytes for all-solid-state microbatteries. <i>Nanotechnology</i> , 2014 , 25, 504007	3.4	67
150	Robust Metallic Lithium Anode Protection by the Molecular-Layer-Deposition Technique. <i>Small Methods</i> , 2018 , 2, 1700417	12.8	65
149	Tailoring interactions of carbon and sulfur in LiS battery cathodes: significant effects of carbon-heteroatom bonds. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12866	13	65
148	Detection of Electrochemical Reaction Products from the Sodium-Oxygen Cell with Solid-State Na NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 595-598	16.4	64
147	Atomic layer deposited coatings to significantly stabilize anodes for Li ion batteries: effects of coating thickness and the size of anode particles. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2306	13	63
146	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
145	Size-dependent surface phase change of lithium iron phosphate during carbon coating. <i>Nature Communications</i> , 2014 , 5, 3415	17.4	62
144	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

143	Electrocatalysts by atomic layer deposition for fuel cell applications. <i>Nano Energy</i> , 2016 , 29, 220-242	17.1	61
142	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900261	12.8	60
141	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
140	Imaging Nitrogen in Individual Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1709-1713	13.3	59
139	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
138	Toward a Sodium-Air Battery: Revealing the Critical Role of Humidity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13433-13441	3.8	58
137	Microwave-assisted hydrothermal synthesis of nanostructured spinel Li ₄ Ti ₅ O ₁₂ as anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2012 , 63, 100-104	6.7	54
136	Atomic layer deposition derived amorphous TiO ₂ thin film decorating graphene nanosheets with superior rate capability. <i>Electrochemistry Communications</i> , 2015 , 57, 43-47	5.1	54
135	Fe ₂ O ₃ @CNTs Anode Materials for Lithium Ion Batteries Investigated by Electron Energy Loss Spectroscopy. <i>Chemistry of Materials</i> , 2017 , 29, 3499-3506	9.6	53
134	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
133	Amorphous SnO ₂ /graphene aerogel nanocomposites harvesting superior anode performance for lithium energy storage. <i>Applied Energy</i> , 2016 , 175, 529-535	10.7	51
132	Superior stable sulfur cathodes of Li-S batteries enabled by molecular layer deposition. <i>Chemical Communications</i> , 2014 , 50, 9757-60	5.8	51
131	Carbon black cathodes for lithium oxygen batteries: Influence of porosity and heteroatom-doping. <i>Carbon</i> , 2013 , 64, 170-177	10.4	51
130	Stabilization of all-solid-state LiS batteries with a polymer/ceramic sandwich electrolyte by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23712-23719	13	51
129	Advanced characterization techniques for solid state lithium battery research. <i>Materials Today</i> , 2020 , 36, 139-157	21.8	50
128	Li ₁₀ Ge(P _{1-x} Sbx) ₂ S ₁₂ Lithium-Ion Conductors with Enhanced Atmospheric Stability. <i>Chemistry of Materials</i> , 2020 , 32, 2664-2672	9.6	50
127	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
126	Reversible hybrid sodium-CO ₂ batteries with low charging voltage and long-life. <i>Nano Energy</i> , 2020 , 68, 104318	17.1	49

125	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
124	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
123	Atomic layer deposited Li ₄ Ti ₅ O ₁₂ on nitrogen-doped carbon nanotubes. <i>RSC Advances</i> , 2013 , 3, 7285	3.7	47
122	A flexible electron-blocking interfacial shield for dendrite-free solid lithium metal batteries. <i>Nature Communications</i> , 2021 , 12, 176	17.4	47
121	Influence of paper thickness on the electrochemical performances of graphene papers as an anode for lithium ion batteries. <i>Electrochimica Acta</i> , 2013 , 91, 227-233	6.7	46
120	Interaction of Carbon Coating on LiFePO ₄ : A Local Visualization Study of the Influence of Impurity Phases. <i>Advanced Functional Materials</i> , 2013 , 23, 806-814	15.6	46
119	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
118	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm ² /20 mAh cm ² Realized by Selective Nucleation within Microchannel Walls. <i>Advanced Energy Materials</i> , 2020 , 10, 1903753	21.8	44
117	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
116	Nitrogen-doped carbon nanotubes with tunable structure and high yield produced by ultrasonic spray pyrolysis. <i>Applied Surface Science</i> , 2011 , 257, 7837-7844	6.7	44
115	High stability and activity of Pt electrocatalyst on atomic layer deposited metal oxide/nitrogen-doped graphene hybrid support. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15967-15974	6.7	43
114	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31786-31793	9.5	43
113	Atomic layer deposition of amorphous iron phosphates on carbon nanotubes as cathode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015 , 162, 275-281	6.7	42
112	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
111	Fabrication of MoS ₂ -Graphene Nanocomposites by Layer-by-Layer Manipulation for High-Performance Lithium Ion Battery Anodes. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, M3034-M3039	2	41
110	Recent Advances on Sodium-Oxygen Batteries: A Chemical Perspective. <i>Accounts of Chemical Research</i> , 2018 , 51, 1532-1540	24.3	41
109	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
108	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

107	All-Organic Sodium Hybrid Capacitor: A New, High-Energy, High-Power Energy Storage System Bridging Batteries and Capacitors. <i>Chemistry of Materials</i> , 2017 , 29, 7122-7130	9.6	40
106	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. <i>Nano Energy</i> , 2020 , 69, 104396	17.1	40
105	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
104	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
103	Observation of lithiation-induced structural variations in TiO ₂ nanotube arrays by X-ray absorption fine structure. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 412-419	13	39
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