

# Andrew Lushington

## List of Publications by Year in descending order

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250  
papers

30,960  
citations

2795

94  
h-index

5101

166  
g-index

252  
all docs

252  
docs citations

252  
times ranked

24108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. Nature Communications, 2016, 7, 13638.	5.8	1,521
2	High oxygen-reduction activity and durability of nitrogen-doped graphene. Energy and Environmental Science, 2011, 4, 760.	15.6	1,153
3	Understanding and recent development of carbon coating on LiFePO <sub>4</sub> cathode materials for lithium-ion batteries. Energy and Environmental Science, 2012, 5, 5163-5185.	15.6	839
4	Recent Developments and Understanding of Novel Mixed Transition-Metal Oxides as Anodes in Lithium Ion Batteries. Advanced Energy Materials, 2016, 6, 1502175.	10.2	756
5	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. Scientific Reports, 2013, 3, .	1.6	719
6	Tailoring grain boundary structures and chemistry of Ni-rich layered cathodes for enhanced cycle stability of lithium-ion batteries. Nature Energy, 2018, 3, 600-605.	19.8	613
7	Significantly improving cycling performance of cathodes in lithium ion batteries: The effect of Al <sub>2</sub> O <sub>3</sub> and LiAlO <sub>2</sub> coatings on LiNi <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> O <sub>2</sub> . Nano Energy, 2018, 44, 111-120.	8.2	536
8	Emerging Applications of Atomic Layer Deposition for Lithium-Ion Battery Studies. Advanced Materials, 2012, 24, 3589-3615.	11.1	493
9	Metal organic frameworks for energy storage and conversion. Energy Storage Materials, 2016, 2, 35-62.	9.5	483
10	Nitrogen doping effects on the structure of graphene. Applied Surface Science, 2011, 257, 9193-9198.	3.1	476
11	Ultrathin MoS <sub>2</sub> /Nitrogen-Doped Graphene Nanosheets with Highly Reversible Lithium Storage. Advanced Energy Materials, 2013, 3, 839-844.	10.2	440
12	Olivine LiFePO <sub>4</sub> : the remaining challenges for future energy storage. Energy and Environmental Science, 2015, 8, 1110-1138.	15.6	412
13	Recent developments and insights into the understanding of Na metal anodes for Na-metal batteries. Energy and Environmental Science, 2018, 11, 2673-2695.	15.6	388
14	Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage. Advanced Functional Materials, 2012, 22, 1647-1654.	7.8	384
15	Atomic layer deposition of solid-state electrolyte coated cathode materials with superior high-voltage cycling behavior for lithium ion battery application. Energy and Environmental Science, 2014, 7, 768-778.	15.6	363
16	Superior performance of ordered macroporous TiNb <sub>2</sub> O <sub>7</sub> anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. Nano Energy, 2017, 34, 15-25.	8.2	351
17	Air-stable Li <sub>3</sub> InCl <sub>6</sub> electrolyte with high voltage compatibility for all-solid-state batteries. Energy and Environmental Science, 2019, 12, 2665-2671.	15.6	345
18	Significant impact of 2D graphene nanosheets on large volume change tin-based anodes in lithium-ion batteries: A review. Journal of Power Sources, 2015, 274, 869-884.	4.0	343

#	ARTICLE	IF	CITATIONS
19	Towards high-performance solid-state Li <sup>+</sup> S batteries: from fundamental understanding to engineering design. <i>Chemical Society Reviews</i> , 2020, 49, 2140-2195.	18.7	337
20	Superior cycle stability of nitrogen-doped graphene nanosheets as anodes for lithium ion batteries. <i>Electrochemistry Communications</i> , 2011, 13, 822-825.	2.3	315
21	Challenges and opportunities of nanostructured materials for aprotic rechargeable lithium <sup>+</sup> air batteries. <i>Nano Energy</i> , 2013, 2, 443-467.	8.2	315
22	Structural Design of Lithium <sup>+</sup> Sulfur Batteries: From Fundamental Research to Practical Application. <i>Electrochemical Energy Reviews</i> , 2018, 1, 239-293.	13.1	298
23	From Lithium <sup>+</sup> Oxygen to Lithium <sup>+</sup> Air Batteries: Challenges and Opportunities. <i>Advanced Energy Materials</i> , 2016, 6, 1502164.	10.2	296
24	In-situ formed Li <sub>2</sub> CO <sub>3</sub> -free garnet/Li interface by rapid acid treatment for dendrite-free solid-state batteries. <i>Nano Energy</i> , 2019, 61, 119-125.	8.2	281
25	A comprehensive review on recent progress in aluminum <sup>+</sup> air batteries. <i>Green Energy and Environment</i> , 2017, 2, 246-277.	4.7	280
26	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. <i>Advanced Materials</i> , 2017, 29, 1606663.	11.1	273
27	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.	15.6	269
28	Nitrogen-doped carbon nanotubes as cathode for lithium <sup>+</sup> air batteries. <i>Electrochemistry Communications</i> , 2011, 13, 668-672.	2.3	261
29	Site-Occupation-Tuned Superionic Li <sub>x</sub> ScCl <sub>3+x</sub> Halide Solid Electrolytes for All-Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 7012-7022.	6.6	260
30	Inorganic <sup>+</sup> Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. <i>Nano Letters</i> , 2017, 17, 5653-5659.	4.5	243
31	Extremely Stable Platinum Nanoparticles Encapsulated in a Zirconia Nanocage by Area <sup>+</sup> Selective Atomic Layer Deposition for the Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2015, 27, 277-281.	11.1	238
32	Recent progress on solid-state hybrid electrolytes for solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019, 21, 308-334.	9.5	221
33	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.	4.0	212
34	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.	10.2	207
35	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31240-31248.	4.0	207
36	A Novel Organic $\alpha$ -Polyurea <sup>+</sup> Thin Film for Ultralong <sup>+</sup> Life Lithium <sup>+</sup> Metal Anodes via Molecular <sup>+</sup> Layer Deposition. <i>Advanced Materials</i> , 2019, 31, e1806541.	11.1	204

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37	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.	15.6	201
38	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.	15.6	200
39	Sodium-Oxygen Batteries: A Comparative Review from Chemical and Electrochemical Fundamentals to Future Perspective. <i>Advanced Materials</i> , 2016, 28, 7065-7093.	11.1	198
40	Addressing Interfacial Issues in Liquid-Based and Solid-State Batteries by Atomic and Molecular Layer Deposition. <i>Joule</i> , 2018, 2, 2583-2604.	11.7	198
41	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.	8.2	190
42	Highly stable Li <sub>1.2</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> enabled by novel atomic layer deposited AlPO <sub>4</sub> coating. <i>Nano Energy</i> , 2017, 34, 120-130.	8.2	188
43	Cobalt-Doped SnS <sub>2</sub> with Dual Active Centers of Synergistic Absorption-Catalysis Effect for High-Rate Loading Li-S Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806724.	7.8	186
44	Promising Dual-Doped Graphene Aerogel/SnS <sub>2</sub> Nanocrystal Building High Performance Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2637-2648.	4.0	185
45	Efficient Trapping and Catalytic Conversion of Polysulfides by VS <sub>4</sub> Nanosites for Li-S Batteries. <i>ACS Energy Letters</i> , 2019, 4, 755-762.	8.8	185
46	A Versatile Sn-Substituted Argyrodite Sulfide Electrolyte for All-Solid-State Li Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903422.	10.2	183
47	Controlled SnO <sub>2</sub> Crystallinity Effectively Dominating Sodium Storage Performance. <i>Advanced Energy Materials</i> , 2016, 6, 1502057.	10.2	180
48	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. <i>Nature Communications</i> , 2018, 9, 4509.	5.8	175
49	Rational Design of Atomic Layer-Deposited LiFePO <sub>4</sub> as a High-Performance Cathode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 6472-6477.	11.1	161
50	Insight into MoS <sub>2</sub> -MoN Heterostructure to Accelerate Polysulfide Conversion toward High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003314.	10.2	159
51	High concentration nitrogen doped carbon nanotube anodes with superior Li <sup>+</sup> storage performance for lithium rechargeable battery application. <i>Journal of Power Sources</i> , 2012, 197, 238-245.	4.0	158
52	Safe and Durable High-Temperature Lithium-Sulfur Batteries via Molecular Layer Deposited Coating. <i>Nano Letters</i> , 2016, 16, 3545-3549.	4.5	157
53	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e2000030.	11.1	156
54	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.	8.8	154

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55	On rechargeability and reaction kinetics of sodium-air batteries. <i>Energy and Environmental Science</i> , 2014, 7, 3747-3757.	15.6	150
56	Defect-Rich Crystalline SnO <sub>2</sub> Immobilized on Graphene Nanosheets with Enhanced Cycle Performance for Li Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22149-22156.	1.5	138
57	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.	10.2	137
58	A flexible electron-blocking interfacial shield for dendrite-free solid lithium metal batteries. <i>Nature Communications</i> , 2021, 12, 176.	5.8	136
59	Hierarchically porous LiFePO <sub>4</sub> /nitrogen-doped carbon nanotubes composite as a cathode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 7537.	6.7	135
60	Sulfur/Nitrogen Dual-doped Porous Graphene Aerogels Enhancing Anode Performance of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016, 205, 188-197.	2.6	133
61	Crumpled reduced graphene oxide conformally encapsulated hollow V <sub>2</sub> O <sub>5</sub> nano/microsphere achieving brilliant lithium storage performance. <i>Nano Energy</i> , 2016, 24, 32-44.	8.2	132
62	Stabilizing interface between Li <sub>10</sub> SnP <sub>2</sub> S <sub>12</sub> and Li metal by molecular layer deposition. <i>Nano Energy</i> , 2018, 53, 168-174.	8.2	132
63	Nitrogen-doped carbon nanotubes with high activity for oxygen reduction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 2258-2265.	3.8	128
64	Enhanced Performance of P <sub>2</sub> Na <sub>0.66</sub> (Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> )O <sub>2</sub> Cathode for Sodium-Ion Batteries by Ultrathin Metal Oxide Coatings via Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2017, 27, 1701870.	7.8	128
65	Toward High Areal Energy and Power Density Electrode for Li-Ion Batteries via Optimized 3D Printing Approach. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39794-39801.	4.0	126
66	Graphene Oxide-Template Controlled Cuboid-Shaped High-Capacity VS <sub>4</sub> Nanoparticles as Anode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1801806.	7.8	125
67	Li <sub>10</sub> Ge(P <sub>1-x</sub> Sb <sub>x</sub> ) <sub>2</sub> S <sub>12</sub> Lithium-Ion Conductors with Enhanced Atmospheric Stability. <i>Chemistry of Materials</i> , 2020, 32, 2664-2672.	3.2	125
68	Atomic Layer Deposition of Lithium Tantalate Solid-State Electrolytes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20260-20267.	1.5	123
69	Elegant design of electrode and electrode/electrolyte interface in lithium-ion batteries by atomic layer deposition. <i>Nanotechnology</i> , 2015, 26, 024001.	1.3	123
70	Molecular Layer Deposition for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2018, 3, 899-914.	8.8	123
71	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.	1.5	121
72	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. <i>Small</i> , 2019, 15, e1904740.	5.2	121

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73	Atomic scale enhancement of metalâ€‘support interactions between Pt and ZrC for highly stable electrocatalysts. <i>Energy and Environmental Science</i> , 2015, 8, 1450-1455.	15.6	120
74	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. <i>Matter</i> , 2019, 1, 1215-1231.	5.0	120
75	Superior catalytic activity of nitrogen-doped graphene cathodes for high energy capacity sodiumâ€‘air batteries. <i>Chemical Communications</i> , 2013, 49, 11731.	2.2	119
76	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as Highâ€‘Performance Cathode. <i>Advanced Materials</i> , 2017, 29, 1703764.	11.1	119
77	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. <i>Nano Energy</i> , 2018, 43, 368-375.	8.2	117
78	Soft X-ray XANES studies of various phases related to LiFePO <sub>4</sub> based cathode materials. <i>Energy and Environmental Science</i> , 2012, 5, 7007.	15.6	116
79	Engineering the Low Coordinated Pt Single Atom to Achieve the Superior Electrocatalytic Performance toward Oxygen Reduction. <i>Small</i> , 2020, 16, e2003096.	5.2	110
80	Cu-doped P <sub>2</sub> -Na <sub>0.5</sub> Ni <sub>0.33</sub> Mn <sub>0.67</sub> O <sub>2</sub> 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.	5.2	109
81	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.	9.5	109
82	Atomic/molecular layer deposition for energy storage and conversion. <i>Chemical Society Reviews</i> , 2021, 50, 3889-3956.	18.7	109
83	Unravelling the Role of Electrochemically Active FePO <sub>4</sub> Coating by Atomic Layer Deposition for Increased Highâ€‘Voltage Stability of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathode Material. <i>Advanced Science</i> , 2015, 2, 1500022.	5.6	108
84	Structurally tailored graphene nanosheets as lithium ion battery anodes: an insight to yield exceptionally high lithium storage performance. <i>Nanoscale</i> , 2013, 5, 12607.	2.8	107
85	Inkjet-printed silicon as high performance anodes for Li-ion batteries. <i>Nano Energy</i> , 2017, 36, 313-321.	8.2	107
86	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , 2019, 9, 9350-9358.	5.5	106
87	Recent Progress on MOF-Derived Nanomaterials as Advanced Electrocatalysts in Fuel Cells. <i>Catalysts</i> , 2016, 6, 116.	1.6	105
88	High Capacity, Dendriteâ€‘Free Growth, and Minimum Volume Change Na Metal Anode. <i>Small</i> , 2018, 14, e1703717.	5.2	104
89	Tunable porous structure of metal organic framework derived carbon and the application in lithiumâ€‘sulfur batteries. <i>Journal of Power Sources</i> , 2016, 302, 174-179.	4.0	100
90	Metalâ€‘Organic Frameworks-Derived Co <sub>2</sub> P@N-C@rGO with Dual Protection Layers for Improved Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 14641-14648.	4.0	100

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91	Ultrathin atomic layer deposited ZrO <sub>2</sub> coating to enhance the electrochemical performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as an anode material. <i>Electrochimica Acta</i> , 2013, 93, 195-201.	2.6	99
92	High-performance all-solid-state Li-Se batteries induced by sulfide electrolytes. <i>Energy and Environmental Science</i> , 2018, 11, 2828-2832.	15.6	99
93	Highly Stable Na <sub>2/3</sub> (Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> )O <sub>2</sub> Cathode Modified by Atomic Layer Deposition for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2015, 8, 2537-2543.	3.6	97
94	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.	3.6	96
95	Antiperovskite Electrolytes for Solid-State Batteries. <i>Chemical Reviews</i> , 2022, 122, 3763-3819.	23.0	96
96	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.	6.4	95
97	Surface aging at olivine LiFePO <sub>4</sub> : 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.	5.2	93
98	Development of the cold sintering process and its application in solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018, 393, 193-203.	4.0	92
99	A metal-organic framework-derived bifunctional catalyst for hybrid sodium-air batteries. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 407-414.	10.8	92
100	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.	6.7	91
101	Interface Design and Development of Coating Materials in Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1801323.	7.8	91
102	Controllable synthesis of graphene-based titanium dioxide nanocomposites by atomic layer deposition. <i>Nanotechnology</i> , 2011, 22, 165602.	1.3	90
103	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900261.	4.6	90
104	Printing nanostructured carbon for energy storage and conversion applications. <i>Carbon</i> , 2015, 92, 150-176.	5.4	89
105	Ultrasmall MoS <sub>2</sub> embedded in carbon nanosheets-coated Sn/SnO <sub>x</sub> as anode material for high-rate and long life Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4576-4582.	5.2	89
106	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.	8.2	88
107	Recent progress and prospects of Li-CO <sub>2</sub> batteries: Mechanisms, catalysts and electrolytes. <i>Energy Storage Materials</i> , 2021, 34, 148-170.	9.5	88
108	Atomic layer deposition of lithium phosphates as solid-state electrolytes for all-solid-state microbatteries. <i>Nanotechnology</i> , 2014, 25, 504007.	1.3	87



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109	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.	2.6	86
110	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.	3.2	86
111	Advanced characterization techniques for solid state lithium battery research. <i>Materials Today</i> , 2020, 36, 139-157.	8.3	86
112	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1654-1661.	4.0	85
113	Interfaces in Garnet-Based All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001318.	10.2	85
114	Robust Metallic Lithium Anode Protection by the Molecular-Layer-Deposition Technique. <i>Small Methods</i> , 2018, 2, 1700417.	4.6	84
115	Mitigating the Interfacial Degradation in Cathodes for High-Performance Oxide-Based Solid-State Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4954-4961.	4.0	83
116	Detection of Electrochemical Reaction Products from the Sodium-Oxygen Cell with Solid-State <sup>23</sup> Na NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 595-598.	6.6	81
117	Nitrogen-doped carbon nanotubes coated by atomic layer deposited SnO <sub>2</sub> with controlled morphology and phase. <i>Carbon</i> , 2011, 49, 1133-1144.	5.4	80
118	Eliminating the Detrimental Effects of Conductive Agents in Sulfide-Based Solid-State Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1243-1251.	8.8	80
119	Electrocatalysts by atomic layer deposition for fuel cell applications. <i>Nano Energy</i> , 2016, 29, 220-242.	8.2	79
120	Superior sodium storage of novel VO <sub>2</sub> nano-microspheres encapsulated into crumpled reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4850-4860.	5.2	79
121	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.	5.2	78
122	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.	10.2	78
123	Stabilization of all-solid-state Li-S batteries with a polymer-ceramic sandwich electrolyte by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23712-23719.	5.2	77
124	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. <i>Nano Energy</i> , 2020, 69, 104396.	8.2	76
125	Dendrite-free lithium metal solid battery with a novel polyester based triblock copolymer solid-state electrolyte. <i>Nano Energy</i> , 2020, 72, 104690.	8.2	76
126	Tailoring interactions of carbon and sulfur in Li-S battery cathodes: significant effects of carbon-heteroatom bonds. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12866.	5.2	75



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127	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.	8.2	75
128	Composite Nanostructure Construction on the Grain Surface of Li-Rich Layered Oxides. <i>Advanced Materials</i> , 2020, 32, e1906070.	11.1	74
129	$\text{Fe}_2\text{O}_3$ @CNTs Anode Materials for Lithium Ion Batteries Investigated by Electron Energy Loss Spectroscopy. <i>Chemistry of Materials</i> , 2017, 29, 3499-3506.	3.2	73
130	Insight into the Microstructure and Ionic Conductivity of Cold Sintered NASICON Solid Electrolyte for Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27890-27896.	4.0	72
131	Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage $\text{LiCoO}_2$ batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2769-2776.	5.2	72
132	Reversible hybrid sodium-CO <sub>2</sub> batteries with low charging voltage and long-life. <i>Nano Energy</i> , 2020, 68, 104318.	8.2	70
133	Size-dependent surface phase change of lithium iron phosphate during carbon coating. <i>Nature Communications</i> , 2014, 5, 3415.	5.8	66
134	Toward a Sodium-Air Battery: Revealing the Critical Role of Humidity. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13433-13441.	1.5	66
135	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.	3.2	66
136	Tuning the dual-active sites of ZIF-67 derived porous nanomaterials for boosting oxygen catalysis and rechargeable Zn-air batteries. <i>Nano Research</i> , 2021, 14, 2353.	5.8	66
137	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021, 11, 2100836.	10.2	64
138	Imaging Nitrogen in Individual Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1709-1713.	2.1	63
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