

# Xiao-Dong Guo

## List of Publications by Citations

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155  
ext. papers

5,557  
ext. citations

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#	Paper	IF	Citations
151	Na-doped Ni-rich LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> cathode material with both high rate capability and high tap density for lithium ion batteries. <i>Dalton Transactions</i> , <b>2014</b> , 43, 14824-32	4.3	152
150	Improving cycling performance and rate capability of Ni-rich LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> cathode materials by Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> coating. <i>Electrochimica Acta</i> , <b>2018</b> , 268, 358-365	6.7	135
149	Carbon-Coated Na Fe (P O ) Cathode Material for High-Rate and Long-Life Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605535	24	123
148	Polyanion and cation co-doping stabilized Ni-rich NiCoAl material as cathode with enhanced electrochemical performance for Li-ion battery. <i>Nano Energy</i> , <b>2019</b> , 63, 103818	17.1	123
147	A Stable Layered Oxide Cathode Material for High-Performance Sodium-Ion Battery. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803978	21.8	118
146	Construction of homogeneously Al <sup>3+</sup> doped Ni rich Ni-Co-Mn cathode with high stable cycling performance and storage stability via scalable continuous precipitation. <i>Electrochimica Acta</i> , <b>2018</b> , 291, 84-94	6.7	106
145	High-Abundance and Low-Cost Metal-Based Cathode Materials for Sodium-Ion Batteries: Problems, Progress, and Key Technologies. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803609	21.8	104
144	Highly Stabilized Ni-Rich Cathode Material with Mo Induced Epitaxially Grown Nanostructured Hybrid Surface for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16629-16638	9.5	101
143	Exposing {010} Active Facets by Multiple-Layer Oriented Stacking Nanosheets for High-Performance Capacitive Sodium-Ion Oxide Cathode. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803765	24	92
142	A Layered Tunnel Intergrowth Structure for High-Performance Sodium-Ion Oxide Cathode. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800492	21.8	85
141	Construction of 3D pomegranate-like Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /conducting carbon composites for high-power sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9833-9841	13	77
140	FeP nanorod arrays on carbon cloth: a high-performance anode for sodium-ion batteries. <i>Chemical Communications</i> , <b>2018</b> , 54, 9341-9344	5.8	76
139	Uncovering a facile large-scale synthesis of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> nanoflowers for high power lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 200-206	8.9	73
138	Design and Synthesis of Layered NaTiO and Tunnel NaTiO Hybrid Structures with Enhanced Electrochemical Behavior for Sodium-Ion Batteries. <i>Advanced Science</i> , <b>2018</b> , 5, 1800519	13.6	71
137	Synergy of doping and coating induced heterogeneous structure and concentration gradient in Ni-rich cathode for enhanced electrochemical performance. <i>Journal of Power Sources</i> , <b>2019</b> , 423, 144-151	8.9	68
136	Layered Oxide Cathodes Promoted by Structure Modulation Technology for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001334	15.6	66
135	Cu Dual-Doped Layer-Tunnel Hybrid NaMnCu O as a Cathode of Sodium-Ion Battery with Enhanced Structure Stability, Electrochemical Property, and Air Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10147-10156	9.5	66

134	Recent progress on iron- and manganese-based anodes for sodium-ion and potassium-ion batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 19, 163-178	19.4	62
133	Development and Investigation of a NASICON-Type High-Voltage Cathode Material for High-Power Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2449-2456	16.4	60
132	Rational design of carbon materials as anodes for potassium-ion batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 34, 483-507	19.4	59
131	Synthesis of FeS@C-N hierarchical porous microspheres for the applications in lithium/sodium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 790-797	5.7	57
130	Organic Cross-Linker Enabling a 3D Porous Skeleton-Supported Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /Carbon Composite for High Power Sodium-Ion Battery Cathode. <i>Small Methods</i> , <b>2019</b> , 3, 1800169	12.8	57
129	A comparative study of crystalline and amorphous Li <sub>0.5</sub> La <sub>0.5</sub> TiO <sub>3</sub> as surface coating layers to enhance the electrochemical performance of LiNi <sub>0.815</sub> Co <sub>0.15</sub> Al <sub>0.035</sub> O <sub>2</sub> cathode. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 740, 428-435	5.7	55
128	K-doped layered LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> cathode material: Towards the superior rate capability and cycling performance. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 699, 358-365	5.7	54
127	Effect of niobium doping on the structure and electrochemical performance of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> cathode materials for lithium ion batteries. <i>Ceramics International</i> , <b>2017</b> , 43, 3866-3872	5.1	54
126	Deciphering an Abnormal Layered-Tunnel Heterostructure Induced by Chemical Substitution for the Sodium Oxide Cathode. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1491-1495	16.4	52
125	Lithium/Oxygen Incorporation and Microstructural Evolution during Synthesis of Li-Rich Layered Li[Li <sub>0.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> ]O <sub>2</sub> Oxides. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803094	21.8	52
124	Mn-Based Cathode with Synergetic Layered-Tunnel Hybrid Structures and Their Enhanced Electrochemical Performance in Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21267-21275	9.5	48
123	Insight into Preparation of Fe-Doped NaV(PO) <sub>4</sub> @C from Aspects of Particle Morphology Design, Crystal Structure Modulation, and Carbon Graphitization Regulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 12421-12430	9.5	46
122	Shape-controlled synthesis of hierarchically layered lithium transition-metal oxide cathode materials by shear exfoliation in continuous stirred-tank reactors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 25391-25400	13	46
121	Interfacial Regulation of Ni-Rich Cathode Materials with an Ion-Conductive and Pillaring Layer by Infusing Gradient Boron for Improved Cycle Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10240-10251	9.5	45
120	Cauliflower-like MnO@C/N composites with multiscale, expanded hierarchical ordered structures as electrode materials for Lithium- and Sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 246, 931-940	6.7	41
119	Promoting the electrochemical performance of LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> cathode via LaAlO <sub>3</sub> coating. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 766, 546-555	5.7	41
118	Core-Shell MOF@COF Motif Hybridization: Selectively Functionalized Precursors for Titanium Dioxide Nanoparticle-Embedded Nitrogen-Rich Carbon Architectures with Superior Capacitive Deionization Performance. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1657-1666	9.6	41
117	Unravelling the growth mechanism of hierarchically structured Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> (OH) <sub>2</sub> and their application as precursors for high-power cathode materials. <i>Electrochimica Acta</i> , <b>2017</b> , 232, 123-131	6.7	37

116	Dual-site lattice modification regulated cationic ordering for Ni-rich cathode towards boosted structural integrity and cycle stability. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126314	14.7	37
115	Hard carbon for sodium storage: mechanism and optimization strategies toward commercialization. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2244-2262	35.4	35
114	MoC-Embedded Carambola-like N,S-Rich Carbon Framework as the Interlayer Material for High-Rate Lithium-Sulfur Batteries in a Wide Temperature Range. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 22971-22980	9.5	34
113	Enhancing performance of LiS batteries by coating separator with MnO @ yeast-derived carbon spheres. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 817, 152723	5.7	34
112	N, O co-doped chlorella-based biomass carbon modified separator for lithium-sulfur battery with high capacity and long cycle performance. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 585, 43-50	9.3	31
111	Hydrangea-Like CuS with Irreversible Amorphization Transition for High-Performance Sodium-Ion Storage. <i>Advanced Science</i> , <b>2020</b> , 7, 1903279	13.6	30
110	Preparation of sodium trimetaphosphate and its application as an additive agent in a novel polyvinylidene fluoride based gel polymer electrolyte in lithium sulfur batteries. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 1619-1626	4.9	29
109	Dual Elements Coupling Effect Induced Modification from the Surface into the Bulk Lattice for Ni-Rich Cathodes with Suppressed Capacity and Voltage Decay. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 8146-8156	9.5	28
108	Enhanced sodium storage property of sodium vanadium phosphate via simultaneous carbon coating and Nb <sup>5+</sup> doping. <i>Chemical Engineering Journal</i> , <b>2020</b> , 386, 123953	14.7	28
107	A Novel NASICON-Typed Na <sub>4</sub> V <sub>2</sub> Mn <sub>0.5</sub> Fe <sub>0.5</sub> (PO <sub>4</sub> ) <sub>3</sub> Cathode for High-Performance Na-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100729	21.8	28
106	Progress and perspective of metal phosphide/carbon heterostructure anodes for rechargeable ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11879-11907	13	28
105	Insight into the Origin of Capacity Fluctuation of NaTiO Anode in Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43596-43602	9.5	27
104	Micro-nano structure Na <sub>2</sub> MnPO <sub>4</sub> F/C as cathode material with excellent sodium storage properties. <i>Materials Letters</i> , <b>2015</b> , 145, 269-272	3.3	27
103	Suppressing Manganese Dissolution via Exposing Stable {111} Facets for High-Performance Lithium-Ion Oxide Cathode. <i>Advanced Science</i> , <b>2019</b> , 6, 1801908	13.6	25
102	Enhanced constraint and catalysed conversion of lithium polysulfides via composite oxides from spent layered cathodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17867-17875	13	25
101	NiP Nanosheets on Carbon Cloth: An Efficient Flexible Electrode for Sodium-Ion Batteries. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 6579-6583	5.1	24
100	Platelet-like CuS impregnated with twin crystal structures for high performance sodium-ion storage. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8049-8057	13	24
99	Compared investigation of carbon-decorated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> with saccharides of different molecular weights as cathode of sodium ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 286, 231-241	6.7	24

98	An Approach towards Synthesis of Nanoarchitected LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> Cathode Material for Lithium Ion Batteries. <i>Chinese Journal of Chemistry</i> , <b>2015</b> , 33, 261-267	4.9	24
97	A review of cathode materials in lithium-sulfur batteries. <i>Ionics</i> , <b>2020</b> , 26, 5299-5318	2.7	24
96	Boosting the reactivity of Ni <sup>2+</sup> /Ni <sup>3+</sup> redox couple via fluorine doping of high performance Na <sub>0.6</sub> Mn <sub>0.95</sub> Ni <sub>0.05</sub> O <sub>2</sub> -F cathode. <i>Electrochimica Acta</i> , <b>2019</b> , 308, 64-73	6.7	23
95	Interpreting Abnormal Charge-Discharge Plateau Migration in Cu S during Long-Term Cycling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3961-3970	9.5	23
94	A functional binder—Sulfonated poly(ether ether ketone) for sulfur cathode of LiS batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 77937-77943	3.7	22
93	Facile synthesis of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C nano-flakes with high-rate performance as cathode material for Li-ion battery. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 215-221	2.6	21
92	Hierarchical hollow structured lithium nickel cobalt manganese oxide microsphere synthesized by template-sacrificial route as high performance cathode for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 434-442	5.7	21
91	Chemical and Structural Evolution during the Synthesis of Layered Li(Ni,Co,Mn)O <sub>2</sub> Oxides. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4984-4997	9.6	20
90	Employing MnO as multifunctional polysulfide reservoirs for enhanced-performance Li-S batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 748, 100-110	5.7	19
89	Unexpected effects of zirconium-doping in the high performance sodium manganese-based layer-tunnel cathode. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13934-13942	13	19
88	Trapping polysulfides by chemical adsorption barrier of Li <sub>x</sub> LaTiO <sub>3</sub> for enhanced performance in lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 894-903	6.7	19
87	Tuning the component ratio and corresponding sodium storage properties of layer-tunnel hybrid Na <sub>0.6</sub> Mn <sub>1-x</sub> Ni <sub>x</sub> O <sub>2</sub> cathode by a simple cationic Ni <sup>2+</sup> doping strategy. <i>Electrochimica Acta</i> , <b>2018</b> , 273, 63-70	6.7	17
86	Ion-Doping-Site-Variation-Induced Composite Cathode Adjustment: A Case Study of Layer-Tunnel NaMnO with Mg Doping at Na/Mn Site. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26938-26945	9.5	17
85	Poly(ethylene oxide)/Poly(vinylidene fluoride)/Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub> composite electrolyte with a stable interface for high performance solid state lithium metal batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 472, 228461	8.9	17
84	A Ge/Carbon Atomic-Scale Hybrid Anode Material: A Micro-Nano Gradient Porous Structure with High Cycling Stability. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12539-12546	16.4	17
83	Vacuum induced self-assembling nanoporous LiMn <sub>2</sub> O <sub>4</sub> for lithium ion batteries with superior high rate capability. <i>Electrochimica Acta</i> , <b>2015</b> , 186, 253-261	6.7	16
82	A fundamental understanding of the Fe/Ti doping induced structure formation process to realize controlled synthesis of layer-tunnel Na <sub>0.6</sub> MnO <sub>2</sub> cathode. <i>Nano Energy</i> , <b>2020</b> , 70, 104539	17.1	16
81	Synthesis of a novel tunnel Na <sub>0.5</sub> K <sub>0.1</sub> MnO <sub>2</sub> composite as a cathode for sodium ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 54404-54409	3.7	16

80	Stabilizing the Structure of Nickel-Rich Lithiated Oxides via Cr Doping as Cathode with Boosted High-Voltage/Temperature Cycling Performance for Li-Ion Battery. <i>Energy Technology</i> , <b>2020</b> , 8, 1900498 <sup>3.5</sup>	16
79	A novel binder-sulfonated polystyrene for the sulfur cathode of Li-S batteries. <i>Ionics</i> , <b>2017</b> , 23, 2251-2258 <sup>7</sup>	15
78	Large-Scale Synthesis of the Stable Co-Free Layered Oxide Cathode by the Synergetic Contribution of Multielement Chemical Substitution for Practical Sodium-Ion Battery. <i>Research</i> , <b>2020</b> , 2020, 1469301 <sup>7.8</sup>	15
77	Synthesis and electrochemical performance of micro-mesoporous carbon-sulfur composite cathode for LiS batteries. <i>Ionics</i> , <b>2017</b> , 23, 2951-2960	2.7 14
76	Influence of vanadium compound coating on lithium-rich layered oxide cathode for lithium-ion batteries. <i>RSC Advances</i> , <b>2014</b> , 4, 56273-56278	3.7 14
75	Preparation of carbon aerogel by ambient pressure drying and its application in lithium/sulfur battery. <i>Journal of Applied Electrochemistry</i> , <b>2013</b> , 43, 65-72	2.6 14
74	Deciphering an Abnormal Layered-Tunnel Heterostructure Induced by Chemical Substitution for the Sodium Oxide Cathode. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1507-1511	3.6 14
73	Review of the application of biomass-derived porous carbon in lithium-sulfur batteries. <i>Ionics</i> , <b>2020</b> , 26, 4765-4781	2.7 14
72	The direct application of spent graphite as a functional interlayer with enhanced polysulfide trapping and catalytic performance for LiS batteries. <i>Green Chemistry</i> , <b>2021</b> , 23, 942-950	10 14
71	Structural elucidation of the degradation mechanism of nickel-rich layered cathodes during high-voltage cycling. <i>Chemical Communications</i> , <b>2020</b> , 56, 4886-4889	5.8 13
70	A novel Mn-based P2/tunnel/O3Qri-phase composite cathode with enhanced sodium storage properties. <i>Chemical Communications</i> , <b>2020</b> , 56, 2921-2924	5.8 13
69	Carbon dioxide solid-phase embedding reaction of silicon-carbon nanoporous composites for lithium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 423, 130127	14.7 13
68	Simultaneous Component Ratio and Particle Size Optimization for High-Performance and High Tap Density P2/P3 Composite Cathode of Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 5155-5161	4.3 12
67	Mn-Rich Phosphate Cathodes for Na-Ion Batteries with Superior Rate Performance. <i>ACS Energy Letters</i> , <b>2021</b> , 97-107	20.1 12
66	A MnS/FeS <sub>2</sub> heterostructure with a high degree of lattice matching anchored into carbon skeleton for ultra-stable sodium-ion storage. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 24024-24035	13 12
65	NaS Treatment and Coherent Interface Modification of the Li-Rich Cathode to Address Capacity and Voltage Decay. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 42660-42668	9.5 12
64	Novel Bifunctional Separator with a Self-Assembled FeOOH/Coated g-CN/KB Bilayer in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57859-57869	9.5 12
63	A rational design of the coupling mechanism of physical adsorption and chemical charge effect for high-performance lithium-sulfur batteries.. <i>RSC Advances</i> , <b>2019</b> , 9, 12710-12717	3.7 11



62	Novel Interlayer on the Separator with the Cr <sub>3</sub> C <sub>2</sub> Compound as a Robust Polysulfide Anchor for Lithium-Sulfur Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 7538-7545	3.9	11
61	Investigating the influence of sodium sources towards improved Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode of sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 815, 152430	5.7	11
60	Structure and electrochemical performance modulation of a LiNiCoMnO cathode material by anion and cation co-doping for lithium ion batteries.. <i>RSC Advances</i> , <b>2019</b> , 9, 36849-36857	3.7	11
59	Rapid in-situ fabrication of Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>7</sub> S <sub>8</sub> @C composite as anode materials for lithium-ion batteries. <i>Materials Research Bulletin</i> , <b>2021</b> , 133, 111021	5.1	11
58	Nitrogen-doped sheet VO <sub>2</sub> modified separator to enhanced long-cycle performance lithium-sulfur battery. <i>Journal of Power Sources</i> , <b>2021</b> , 501, 230040	8.9	11
57	SiO Anode: From Fundamental Mechanism toward Industrial Application. <i>Small</i> , <b>2021</b> , e2102641	11	11
56	Cobalt-doped lithium-rich cathode with superior electrochemical performance for lithium-ion batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 2947-2951	3.7	10
55	3D hierarchical rose-like NiP@rGO assembled from interconnected nanoflakes as anode for lithium ion batteries.. <i>RSC Advances</i> , <b>2020</b> , 10, 3936-3945	3.7	10
54	Synthesis of hierarchical Sn/SnO nanosheets assembled by carbon-coated hollow nanospheres as anode materials for lithium/sodium ion batteries.. <i>RSC Advances</i> , <b>2020</b> , 10, 6035-6042	3.7	10
53	General Synthesis of M <sub>x</sub> S (M = Co, Cu) Hollow Spheres with Enhanced Sodium-Ion Storage Property in Ether-Based Electrolyte. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 1568-1577	3.9	10
52	Self-supported cobalt phosphate nanoarray with pseudocapacitive behavior: An efficient 3D anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 848, 156285	5.7	10
51	A Simple Gas-Solid Treatment for Surface Modification of Li-Rich Oxides Cathodes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23248-23255	16.4	10
50	The influences of sodium sources on the structure evolution and electrochemical performances of layered-tunnel hybrid Na <sub>0.6</sub> MnO <sub>2</sub> cathode. <i>Ceramics International</i> , <b>2017</b> , 43, 6303-6311	5.1	9
49	Relieving capacity decay and voltage fading of Li <sub>1.2</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> Mn <sub>0.54</sub> O <sub>2</sub> by Mg <sup>2+</sup> and PO <sub>4</sub> <sup>3-</sup> -dual doping. <i>Materials Research Bulletin</i> , <b>2020</b> , 130, 110923	5.1	9
48	Synergistic effect of uniform lattice cation/anion doping to improve structural and electrochemical performance stability for Li-rich cathode materials. <i>Nanotechnology</i> , <b>2020</b> , 31, 455704	3.4	9
47	Synthesis of spinel LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> as advanced cathode via a modified oxalate co-precipitation method. <i>Ionics</i> , <b>2016</b> , 22, 1361-1368	2.7	9
46	Lithium-Ion Batteries: Suppressing Manganese Dissolution via Exposing Stable {111} Facets for High-Performance Lithium-Ion Oxide Cathode (Adv. Sci. 13/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970076	13.6	9
45	LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> hollow nano-micro hierarchical microspheres as advanced cathode for lithium ion batteries. <i>Ionics</i> , <b>2017</b> , 23, 27-34	2.7	9

44	A Li-substituted hydrostable layered oxide cathode material with oriented stacking nanoplate structure for high-performance sodium-ion battery. <i>Chemical Engineering Journal</i> , <b>2021</b> , 412, 128719	14.7	9
43	The structural origin of enhanced stability of Na <sub>3.32</sub> Fe <sub>2.11</sub> Ca <sub>0.23</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> cathode for Na-ion batteries. <i>Nano Energy</i> , <b>2021</b> , 79, 105417	17.1	9
42	Novel functional separator with self-assembled MnO layer via a simple and fast method in lithium-sulfur battery. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 666-676	9.3	9
41	Suppressing capacity fading and voltage decay of Ni-rich cathode material by dual-ion doping for lithium-ion batteries. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 2347-2359	4.3	8
40	Three-Dimensional Chestnut-Like Architecture Assembled from NaTiO(OH)@HO@N-Doped Carbon Nanosheets with Enhanced Sodium Storage Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43740-43748	9.5	8
39	A Unique Structure of Highly Stable Interphase and Self-Consistent Stress Distribution Radial-Gradient Porous for Silicon Anode. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2107897	15.6	8
38	Surface modification of layer-tunnel hybrid Na <sub>0.6</sub> MnO <sub>2</sub> cathode with open tunnel structure Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> . <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 849, 156441	5.7	7
37	Exposing microstructure evolution of Ni-Rich Ni-Co-Al hydroxide precursor. <i>Chemical Engineering Science</i> , <b>2021</b> , 233, 116337	4.4	7
36	Nickel-Rich Layered Cathode Materials for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 4249-4269	4.8	7
35	Recent advance in structure regulation of high-capacity Ni-rich layered oxide cathodes. <i>EcoMat</i> , <b>2021</b> , 3, e12141	9.4	7
34	Structural Reconstruction Driven by Oxygen Vacancies in Layered Ni-Rich Cathodes. <i>Advanced Energy Materials</i> , 2200022	21.8	7
33	Reversible Activation of V 4+ /V 5+ Redox Couples in NASICON Phosphate Cathodes. <i>Advanced Energy Materials</i> , 2200966	21.8	7
32	MoO@C modified separator as an interlayer for high performance lithium-sulfur batteries. <i>Nanotechnology</i> , <b>2021</b> , 32, 105206	3.4	6
31	Nanowire of WP as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 971-975	4.8	6
30	Integrating Multi-Heterointerfaces in a 1D@2D@1D Hierarchical Structure via Autocatalytic Pyrolysis for Ultra-Efficient Microwave Absorption Performance.. <i>Small</i> , <b>2022</b> , e2105411	11	5
29	Enabling Superior Electrochemical Performance of Lithium-Rich Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> Cathode Materials by Surface Integration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 19312-19321	3.9	5
28	Effective enhancement of electrochemical performance for low-cost cathode material Li <sub>1.231</sub> Mn <sub>0.615</sub> Ni <sub>0.154</sub> O <sub>2</sub> via a novel facile hydrothermal modification. <i>Journal of Power Sources</i> , <b>2014</b> , 246, 569-573	8.9	4
27	Facile Combustion Synthesis and Electrochemical Performance of the Cathode Material Li <sub>1.231</sub> Mn <sub>0.615</sub> Ni <sub>0.154</sub> O <sub>2</sub> . <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 5436-5442	2.3	4



26	TiO <sub>2</sub> @Chlorella-Based Biomass Carbon Modified Separator for High-Rate Lithium-Sulfur Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 1761-1772	3.9	4
25	Research Progress on Improving the Sulfur Conversion Efficiency on the Sulfur Cathode Side in Lithium-Sulfur Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 20979-21000	3.9	4
24	Inhibition of the shuttle effect of lithium-sulfur batteries a tannic acid-metal one-step chemical film-forming modified separator. <i>Nanoscale</i> , <b>2021</b> , 13, 5058-5068	7.7	4
23	A compared investigation of different biogum polymer binders for silicon anode of lithium-ion batteries. <i>Ionics</i> , <b>2021</b> , 27, 1829-1836	2.7	4
22	Research progress in O3-type phase Fe/Mn/Cu-based layered cathode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> ,	13	3
21	Synergistic Effect of Microstructure Engineering and Local Crystal Structure Tuning to Improve the Cycling Stability of Ni-Rich Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 48720-48729	9.5	3
20	Suppressing the Shuttling of Polysulfide by a Self-Assembled FeOOH Separator in LiS Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 21066-21076	3.9	3
19	Three-Dimensional SnS <sub>2</sub> Nanoarrays with Enhanced Lithium-Ion Storage Properties. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4484-4491	4.3	3
18	Key Parameter Optimization for the Continuous Synthesis of Ni-Rich NiCoAl Cathode Materials for Lithium-Ion Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 22549-22558	3.9	3
17	A Ge/Carbon Atomic-Scale Hybrid Anode Material: A Micro/Nano Gradient Porous Structure with High Cycling Stability. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12647-12654	3.6	3
16	Synthesis and lithium-ion storage performances of LiFe <sub>0.5</sub> Co <sub>0.5</sub> PO <sub>4</sub> /C nanoplatelets and nanorods. <i>Ionics</i> , <b>2018</b> , 24, 2275-2285	2.7	3
15	In Operando Investigation of the Structural Evolution during Calcination and Corresponding Enhanced Performance of Three-Dimensional Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> @C Hierarchical Microflowers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 17430-17436	3.9	3
14	Facile In Situ Chemical Cross-Linking Gel Polymer Electrolyte, which Confines the Shuttle Effect with High Ionic Conductivity and Li-Ion Transference Number for Quasi-Solid-State Lithium-Sulfur Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44497-44508	9.5	3
13	Is it universal that the layered-spinel structure can improve electrochemical performance?. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 64, 344-353	12	3
12	Dual-Modified Compact Layer and Superficial Ti Doping for Reinforced Structural Integrity and Thermal Stability of Ni-Rich Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54997-55006	9.5	2
11	Promoting electrochemical kinetics of Li-S batteries with C@SnS <sub>2</sub> modified separator via synergic effect between porous carbon matrix and polar SnS <sub>2</sub> . <i>Electrochimica Acta</i> , <b>2021</b> , 390, 138829	6.7	2
10	Unveiling the abnormal capacity rising mechanism of MoS anode during long-term cycling for sodium-ion batteries.. <i>RSC Advances</i> , <b>2021</b> , 11, 28488-28495	3.7	2
9	Revisit the Progress of Binders for a Silicon-Based Anode from the Perspective of Designed Binder Structure and Special Sized Silicon Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> ,	3.9	2

8	New Insights into the Mechanism of Enhanced Performance of Li[NiCoMn]O with a Polyacrylic Acid-Modified Binder. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10064-10070	9.5	1
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