

# Zhen-Guo Wu

## 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.

157  
papers

3,643  
citations

34  
h-index

52  
g-index

164  
ext. papers

5,042  
ext. citations

8  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
157	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
156	A high strength asymmetric polymer/Inorganic composite solid electrolyte for solid-state Li-ion batteries. <i>Electrochimica Acta</i> , <b>2022</b> , 404, 139701	6.7	3
155	Polyrrole-encapsulated Cu <sub>2</sub> Se nanosheets in situ grown on Cu mesh for high stability sodium-ion battery anode. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134477	14.7	5
154	Improving the intrinsic electronic conductivity of NiMoO <sub>4</sub> anodes by phosphorous doping for high lithium storage. <i>Nano Research</i> , <b>2022</b> , 15, 186	10	18
153	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
152	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
151	Understanding of the Irreversible Phase Transition and Zr-Doped Modification Strategy for a Nickel-Rich Cathode under a High Voltage. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 3651-3660	8.3	0
150	A polyethylene oxide/metal-organic framework composite solid electrolyte with uniform Li deposition and stability for lithium anode by immobilizing anions.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 620, 47-56	9.3	1
149	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
148	New Insight into High-Rate Performance Lithium-Rich Cathode Synthesis through Controlling the Reaction Pathways by Low-Temperature Intermediates. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 453-463	3.9	1
147	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
146	An integrated cathode and solid electrolyte polymerization with significantly reduced interface resistance. <i>Chemical Communications</i> , <b>2021</b> , 57, 13004-13007	5.8	
145	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
144	MoO@C modified separator as an interlayer for high performance lithium-sulfur batteries. <i>Nanotechnology</i> , <b>2021</b> , 32, 105206	3.4	6
143	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
142	Exposing microstructure evolution of Ni-Rich Ni-Co-Al hydroxide precursor. <i>Chemical Engineering Science</i> , <b>2021</b> , 233, 116337	4.4	7
141	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

140	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
139	Directionally Tailoring Macroporous Honeycomb-Like Structured Carbon Nanofibers toward High-Capacitive Potassium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30693-30702	9.5	7
138	Direct conversion of ester bond-rich waste plastics into hard carbon for high-performance sodium storage. <i>Carbon</i> , <b>2021</b> , 173, 253-261	10.4	7
137	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
136	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
135	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
134	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
133	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
132	Synthesis of N-doped straw sheaf-like porous MnO@C composite as anode of advanced lithium-/sodium-ion batteries. <i>Ionics</i> , <b>2021</b> , 27, 551-559	2.7	3
131	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
130	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
129	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
128	Silicon/graphite composite anode with constrained swelling and a stable solid electrolyte interphase enabled by spent graphite. <i>Green Chemistry</i> , <b>2021</b> , 23, 4531-4539	10	7
127	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
126	Preparation of intergrown P/O-type biphasic layered oxides as high-performance cathodes for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13151-13160	13	6
125	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
124	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
123	CoreShell 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

122	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
121	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
120	Solid Electrolyte Interphase Composition Regulation via Coating AlF <sub>3</sub> for a High-Performance Hard Carbon Anode in Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8242-8251	6.1	1
119	Microstructure-Controlled Li-Rich Mn-Based Cathodes by a Gas-Solid Interface Reaction for Tackling the Continuous Activation of LiMnO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40995-41003	8.5	0
118	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
117	Constructing cycle-stable Si/TiSi <sub>2</sub> composites as anode materials for lithium ion batteries through direct utilization of low-purity Si and Ti-bearing blast furnace slag. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 876, 160125	5.7	4
116	A novel Si/TiSi <sub>2</sub> /G@C composite as anode material with excellent lithium storage performances. <i>Materials Letters</i> , <b>2021</b> , 299, 130078	3.3	1
115	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
114	A Simple Gas-Solid Treatment for Surface Modification of Li-Rich Oxides Cathodes. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23436	3.6	1
113	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
112	SiO Anode: From Fundamental Mechanism toward Industrial Application. <i>Small</i> , <b>2021</b> , e2102641	11	11
111	Recent advance in structure regulation of high-capacity Ni-rich layered oxide cathodes. <i>EcoMat</i> , <b>2021</b> , 3, e12141	9.4	7
110	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
109	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
108	Recent advances in electrospun one-dimensional carbon nanofiber structures/heterostructures as anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11493-11510	13	69
107	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
106	MoO nanoparticles embedded in N-doped hydrangea-like carbon as a sulfur host for high-performance lithium-sulfur batteries.. <i>RSC Advances</i> , <b>2020</b> , 10, 20173-20183	3.7	5
105	Novel Interlayer on the Separator with the Cr <sub>3</sub> C <sub>2</sub> Compound as a Robust Polysulfide Anchor for LithiumSulfur Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 7538-7545	3.9	11

104	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
103	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
102	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
101	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
100	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
99	Optimization of the electrochemical properties of LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> cathode material by titanium doping. <i>Ionics</i> , <b>2020</b> , 26, 3223-3230	2.7	3
98	General Synthesis of MxS (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
97	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
96	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
95	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
94	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
93	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
92	Research Progress on Improving the Sulfur Conversion Efficiency on the Sulfur Cathode Side in LithiumSulfur Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 20979-21000	3.9	4
91	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
90	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
89	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
88	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	3.5	16
87	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

86	Enhanced sodium storage property of sodium vanadium phosphate via simultaneous carbon coating and Nb5+ doping. <i>Chemical Engineering Journal</i> , <b>2020</b> , 386, 123953	14.7	28
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	Alleviating the shuttle effect via bifunctional MnFe <sub>2</sub> O <sub>4</sub> /AB modified separator for high performance lithium sulfur battery. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136704	6.7	13
83	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
82	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
81	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
80	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
79	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
78	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
77	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
76	A review of cathode materials in lithium-sulfur batteries. <i>Ionics</i> , <b>2020</b> , 26, 5299-5318	2.7	24
75	Facile Utilization of Spent LiCoO <sub>2</sub> in Separator Decoration of Lithium-Sulfur Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 17911-17917	3.9	0
74	Key Parameter Optimization for the Continuous Synthesis of Ni-Rich Ni <sub>1-x</sub> Co <sub>x</sub> O <sub>2</sub> Cathode Materials for Lithium-Ion Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 22549-22558	3.9	3
73	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
72	Polyanion and cation co-doping stabilized Ni-rich Ni <sub>1-x</sub> Co <sub>x</sub> O <sub>2</sub> material as cathode with enhanced electrochemical performance for Li-ion battery. <i>Nano Energy</i> , <b>2019</b> , 63, 103818	17.1	123
71	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
70	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
69	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



68	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
67	Revealing of the Activation Pathway and Cathode Electrolyte Interphase Evolution of Li-Rich 0.5LiMnO <sub>2</sub> .5LiNiCoMnO Cathode by in Situ Electrochemical Quartz Crystal Microbalance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16214-16222	9.5	17
66	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
65	Layer-Based Heterostructured Cathodes for Lithium-Ion and Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808522	15.6	61
64	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
63	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
62	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
61	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
60	Microwave-assisted rheological phase synthesis of LiFe <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> PO <sub>4</sub> /C cathode materials for lithium ion batteries. <i>Materials Research Express</i> , <b>2019</b> , 6, 035003	1.7	
59	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
58	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
57	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
56	Rational design and synthesis of advanced Na <sub>3</sub> B <sub>2</sub> Fe <sub>2</sub> B <sub>4</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> cathode with multiple-dimensional N-doped carbon matrix. <i>Journal of Power Sources</i> , <b>2019</b> , 412, 350-358	8.9	9
55	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
54	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
53	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
52	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
51	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

50	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
49	Effect of Na <sub>2</sub> S treatment on the structural and electrochemical properties of Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> cathode material. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 547-554 <sup>2.6</sup>		4
48	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
47	Constructing a Protective Pillaring Layer by Incorporating Gradient Mn to Stabilize the Surface/Interfacial Structure of LiNiCoAlO Cathode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27821-27830	9.5	80
46	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
45	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
44	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
43	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
42	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> @CN Hierarchical Microflowers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 17430-17436	3.9	3
41	Three-Dimensional Chestnut-Like Architecture Assembled from NaTiO(OH) <sub>2</sub> 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
40	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
39	Insight into the Multirole of Graphene in Preparation of High Performance Na <sub>2+2x</sub> Fe <sub>2x</sub> (SO <sub>4</sub> ) <sub>3</sub> Cathodes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 16105-16112	8.3	15
38	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
37	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
36	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
35	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
34	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
33	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



32	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
31	Layered/Spinel Heterostructured and Hierarchical Micro/Nanostructured Li-Rich Cathode Materials with Enhanced Electrochemical Properties for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21065-21070	9.5	65
30	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
29	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
28	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
27	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
26	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
25	Layered Li <sub>1.3</sub> Mn <sub>0.58</sub> Ni <sub>0.12</sub> Co <sub>0.11</sub> O <sub>2</sub> + $\Gamma$ Cathode Material for Lithium-Ion Batteries with High Reversible Capacity. <i>ChemElectroChem</i> , <b>2016</b> , 3, 2027-2030	4.3	8
24	A Synergistic Effect in a Composite Cathode Consisting of Spinel and Layered Structures To Increase the Electrochemical Performance for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25647-25656	3.8	12
23	High Stability Induced by the TiN/Ti Interlayer in Three-Dimensional Si/Ge Nanorod Arrays as Anode in Micro Lithium Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7806-10	9.5	15
22	Layered/spinel heterostructured Li-rich materials synthesized by a one-step solvothermal strategy with enhanced electrochemical performance for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 257-263	13	97
21	Improving the Electrochemical Performance of Li <sub>1.14</sub> Ni <sub>0.18</sub> Mn <sub>0.62</sub> O <sub>2</sub> by Modulating Structure Defects via a Molten Salt Method. <i>ChemElectroChem</i> , <b>2016</b> , 3, 98-104	4.3	12
20	Suppressing the voltage-fading of layered lithium-rich cathode materials via an aqueous binder for Li-ion batteries. <i>Chemical Communications</i> , <b>2016</b> , 52, 4683-6	5.8	64
19	Understanding Performance Differences from Various Synthesis Methods: A Case Study of Spinel LiCrNiMnO Cathode Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26051-26057	9.5	9
18	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
17	P2-type Na <sub>0.67</sub> Mn <sub>0.72</sub> Ni <sub>0.14</sub> Co <sub>0.14</sub> O <sub>2</sub> with K <sup>+</sup> doping as new high rate performance cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 216, 51-57	6.7	48
16	Synthesis of Core-Shell Structured LiFe <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> PO <sub>4</sub> @C with Remarkable Electrochemical Performance as the Cathode of a Lithium-Ion Battery. <i>ChemElectroChem</i> , <b>2015</b> , 2, 896-902	4.3	13
15	High-performance porous spherical cathode materials based on CaCO <sub>3</sub> -template synthesis of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> for lithium-ion batteries. <i>Ionics</i> , <b>2015</b> , 21, 3151-3158	2.7	11

14	A further electrochemical investigation on solutions to high energetical power sources: isomeric compound $0.75\text{Li}1.2\text{Ni}0.2\text{Mn}0.6\text{O}_2\text{D}_0.25\text{LiNi}0.5\text{Mn}1.5\text{O}_4$ . <i>RSC Advances</i> , <b>2015</b> , 5, 37330-37339	3.7	16
13	Subunits controlled synthesis of $\text{Fe}_2\text{O}_3$ multi-shelled core-shell microspheres and their effects on lithium/sodium ion battery performances. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10092-10099	13	82
12	Hierarchical $\text{MnO}$ Hollow Microspheres as Anode Material of Lithium Ion Battery and Its Conversion Reaction Mechanism Investigated by XANES. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8488-94	9.5	100
11	Synthesis of hierarchical worm-like $\text{SnO}_2@\text{C}$ aggregates and their enhanced lithium storage properties. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 620, 407-412	5.7	14
10	Enhanced reversible lithium storage in germanium nano-island coated 3D hexagonal bottle-like Si nanorod arrays. <i>Nanoscale</i> , <b>2014</b> , 6, 1817-22	7.7	31
9	L-Histidine-assisted template-free hydrothermal synthesis of $\text{Fe}_2\text{O}_3$ porous multi-shelled hollow spheres with enhanced lithium storage properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12361-12367	12	31
8	Si/Ge core-shell nanoarrays as the anode material for 3D lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14344	13	54
7	Second-Stokes generation in diode-side-pumped Nd:Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> /BaWO <sub>4</sub> Raman laser. <i>Optics Communications</i> , <b>2013</b> , 301-302, 52-55	2	
6	1st-Stokes and 2nd-Stokes dual-wavelength operation and mode-locking modulation in diode-side-pumped Nd:YAG/BaWO <sub>4</sub> Raman laser. <i>Optics Express</i> , <b>2012</b> , 20, 17823-32	3.3	22
5	Second-Stokes dual-wavelength operation at 1321 and 1325 nm ceramic Nd:YAG/BaWO <sub>4</sub> Raman laser. <i>Optics Letters</i> , <b>2012</b> , 37, 4519-21	3	16
4	Research progress in O <sub>3</sub> -type phase Fe/Mn/Cu-based layered cathode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> ,	13	3
3	Revisiting the Preparation Progress of Nano-Structured Si Anodes toward Industrial Application from the Perspective of Cost and Scalability. <i>Advanced Energy Materials</i> , 2102181	21.8	11
2	Structural Reconstruction Driven by Oxygen Vacancies in Layered Ni-Rich Cathodes. <i>Advanced Energy Materials</i> , 2200022	21.8	7
1	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