

Xiaodong Guo

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.

148 papers	4,204 citations	37 h-index	58 g-index
159 ext. papers	5,893 ext. citations	9 avg, IF	5.98 L-index

#	Paper	IF	Citations
148	TiO ₂ @Chlorella-Based Biomass Carbon Modified Separator for High-Rate Lithium-Sulfur Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 1761-1772	3.9	4
147	Integrating Multi-Heterointerfaces in a 1D@2D@1D Hierarchical Structure via Autocatalytic Pyrolysis for Ultra-Efficient Microwave Absorption Performance.. <i>Small</i> , 2022 , e2105411	11	5
146	Improving the intrinsic electronic conductivity of NiMoO ₄ anodes by phosphorous doping for high lithium storage. <i>Nano Research</i> , 2022 , 15, 186	10	18
145	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> , 2022 , 606, 666-676	9.3	9
144	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> , 2022 , 10, 3651-3660	8.3	0
143	A Unique Structure of Highly Stable Interphase and Self-Consistent Stress Distribution Radial-Gradient Porous for Silicon Anode. <i>Advanced Functional Materials</i> , 2022 , 32, 2107897	15.6	8
142	New Insight into High-Rate Performance Lithium-Rich Cathode Synthesis through Controlling the Reaction Pathways by Low-Temperature Intermediates. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 453-463	3.9	1
141	Mn-Rich Phosphate Cathodes for Na-Ion Batteries with Superior Rate Performance. <i>ACS Energy Letters</i> , 2021 , 97-107	20.1	12
140	An integrated cathode and solid electrolyte polymerization with significantly reduced interface resistance. <i>Chemical Communications</i> , 2021 , 57, 13004-13007	5.8	
139	A MnS/FeS ₂ 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> , 2021 , 9, 24024-24035	13	12
138	Synergistic Effect of Microstructure Engineering and Local Crystal Structure Tuning to Improve the Cycling Stability of Ni-Rich Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48720-48729	9.5	3
137	MoO@C modified separator as an interlayer for high performance lithium-sulfur batteries. <i>Nanotechnology</i> , 2021 , 32, 105206	3.4	6
136	A Ge/Carbon Atomic-Scale Hybrid Anode Material: A Micro-Nano Gradient Porous Structure with High Cycling Stability. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12539-12546	16.4	17
135	N-doped carbon nanotubes supported CoSe nanoparticles: A highly efficient and stable catalyst for HO electrosynthesis in acidic media. <i>Nano Research</i> , 2021 , 15, 1-6	10	19
134	Exposing microstructure evolution of Ni-Rich Ni-Co-Al hydroxide precursor. <i>Chemical Engineering Science</i> , 2021 , 233, 116337	4.4	7
133	A Novel NASICON-Typed Na ₄ VMn _{0.5} Fe _{0.5} (PO ₄) ₃ Cathode for High-Performance Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100729	21.8	28
132	A Ge/Carbon Atomic-Scale Hybrid Anode Material: A Micro-Nano Gradient Porous Structure with High Cycling Stability. <i>Angewandte Chemie</i> , 2021 , 133, 12647-12654	3.6	3

131	Directionally Tailoring Macroporous Honeycomb-Like Structured Carbon Nanofibers toward High-Capacitive Potassium Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30693-30702	9.5	7
130	Direct conversion of ester bond-rich waste plastics into hard carbon for high-performance sodium storage. <i>Carbon</i> , 2021 , 173, 253-261	10.4	7
129	Rapid in-situ fabrication of Fe ₃ O ₄ /Fe ₇ S ₈ @C composite as anode materials for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2021 , 133, 111021	5.1	11
128	Dual-site lattice modification regulated cationic ordering for Ni-rich cathode towards boosted structural integrity and cycle stability. <i>Chemical Engineering Journal</i> , 2021 , 403, 126314	14.7	37
127	The structural origin of enhanced stability of Na _{3.32} Fe _{2.11} Ca _{0.23} (P ₂ O ₇) ₂ cathode for Na-ion batteries. <i>Nano Energy</i> , 2021 , 79, 105417	17.1	9
126	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> , 2021 , 56, 2347-2359	4.3	8
125	Rational design of carbon materials as anodes for potassium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 34, 483-507	19.4	59
124	Synthesis of N-doped straw sheaf-like porous MnO@C composite as anode of advanced lithium-/sodium-ion batteries. <i>Ionics</i> , 2021 , 27, 551-559	2.7	3
123	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> , 2021 , 585, 43-50	9.3	31
122	A review of rational design and investigation of binders applied in silicon-based anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021 , 485, 229331	8.9	32
121	The direct application of spent graphite as a functional interlayer with enhanced polysulfide trapping and catalytic performance for LiS batteries. <i>Green Chemistry</i> , 2021 , 23, 942-950	10	14
120	Inhibition of the shuttle effect of lithium-sulfur batteries a tannic acid-metal one-step chemical film-forming modified separator. <i>Nanoscale</i> , 2021 , 13, 5058-5068	7.7	4
119	Silicon/graphite composite anode with constrained swelling and a stable solid electrolyte interphase enabled by spent graphite. <i>Green Chemistry</i> , 2021 , 23, 4531-4539	10	7
118	Hard carbon for sodium storage: mechanism and optimization strategies toward commercialization. <i>Energy and Environmental Science</i> , 2021 , 14, 2244-2262	35.4	35
117	Preparation of intergrown P/O-type biphasic layered oxides as high-performance cathodes for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13151-13160	13	6
116	Progress and perspective of metal phosphide/carbon heterostructure anodes for rechargeable ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11879-11907	13	28
115	New Insights into the Mechanism of Enhanced Performance of Li[NiCoMn]O with a Polyacrylic Acid-Modified Binder. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10064-10070	9.5	1
114	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> , 2021 , 33, 1657-1666	9.6	41

113	A compared investigation of different biogum polymer binders for silicon anode of lithium-ion batteries. <i>Ionics</i> , 2021 , 27, 1829-1836	2.7	4
112	Solid Electrolyte Interphase Composition Regulation via Coating AlF ₃ for a High-Performance Hard Carbon Anode in Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8242-8251	6.1	1
111	Microstructure-Controlled Li-Rich Mn-Based Cathodes by a Gas-Solid Interface Reaction for Tackling the Continuous Activation of LiMnO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40995-41003	8.5	0
110	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 & Interfaces</i> , 2021 , 13, 44497-44508	9.5	3
109	Constructing cycle-stable Si/TiSi ₂ 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> , 2021 , 876, 160125	5.7	4
108	A novel Si/TiSi ₂ /G@C composite as anode material with excellent lithium storage performances. <i>Materials Letters</i> , 2021 , 299, 130078	3.3	1
107	A Simple Gas-Solid Treatment for Surface Modification of Li-Rich Oxides Cathodes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23248-23255	16.4	10
106	A Simple GasSolid Treatment for Surface Modification of Li-Rich Oxides Cathodes. <i>Angewandte Chemie</i> , 2021 , 133, 23436	3.6	1
105	SiO Anode: From Fundamental Mechanism toward Industrial Application. <i>Small</i> , 2021 , e2102641	11	11
104	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25263-25268	16.4	42
103	Recent advance in structure regulation of high-capacity Ni-rich layered oxide cathodes. <i>EcoMat</i> , 2021 , 3, e12141	9.4	7
102	Carbon dioxide solid-phase embedding reaction of silicon-carbon nanoporous composites for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 423, 130127	14.7	13
101	Unveiling the abnormal capacity rising mechanism of MoS ₂ anode during long-term cycling for sodium-ion batteries.. <i>RSC Advances</i> , 2021 , 11, 28488-28495	3.7	2
100	Recent advances in electrospun one-dimensional carbon nanofiber structures/heterostructures as anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11493-11510	13	69
99	Relieving capacity decay and voltage fading of Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ by Mg ²⁺ and PO ₄ ³⁻ dual doping. <i>Materials Research Bulletin</i> , 2020 , 130, 110923	5.1	9
98	Chemical and Structural Evolution during the Synthesis of Layered Li(Ni,Co,Mn)O ₂ Oxides. <i>Chemistry of Materials</i> , 2020 , 32, 4984-4997	9.6	20
97	Synergistic effect of uniform lattice cation/anion doping to improve structural and electrochemical performance stability for Li-rich cathode materials. <i>Nanotechnology</i> , 2020 , 31, 455704	3.4	9
96	Novel Interlayer on the Separator with the Cr ₃ C ₂ Compound as a Robust Polysulfide Anchor for LithiumSulfur Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7538-7545	3.9	11

95	Structural elucidation of the degradation mechanism of nickel-rich layered cathodes during high-voltage cycling. <i>Chemical Communications</i> , 2020 , 56, 4886-4889	5.8	13
94	3D hierarchical rose-like NiP@rGO assembled from interconnected nanoflakes as anode for lithium ion batteries.. <i>RSC Advances</i> , 2020 , 10, 3936-3945	3.7	10
93	Synthesis of hierarchical Sn/SnO nanosheets assembled by carbon-coated hollow nanospheres as anode materials for lithium/sodium ion batteries.. <i>RSC Advances</i> , 2020 , 10, 6035-6042	3.7	10
92	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 & Interfaces</i> , 2020 , 12, 10240-10251	9.5	45
91	A novel Mn-based P2/tunnel/O3R tri-phase composite cathode with enhanced sodium storage properties. <i>Chemical Communications</i> , 2020 , 56, 2921-2924	5.8	13
90	General Synthesis of MxS (M = Co, Cu) Hollow Spheres with Enhanced Sodium-Ion Storage Property in Ether-Based Electrolyte. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 1568-1577	3.9	10
89	A fundamental understanding of the Fe/Ti doping induced structure formation process to realize controlled synthesis of layer-tunnel Na0.6MnO2 cathode. <i>Nano Energy</i> , 2020 , 70, 104539	17.1	16
88	Layered Oxide Cathodes Promoted by Structure Modulation Technology for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001334	15.6	66
87	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 & Interfaces</i> , 2020 , 12, 22971-22980	9.5	34
86	Hydrangea-Like CuS with Irreversible Amorphization Transition for High-Performance Sodium-Ion Storage. <i>Advanced Science</i> , 2020 , 7, 1903279	13.6	30
85	Platelet-like CuS impregnated with twin crystal structures for high performance sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8049-8057	13	24
84	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> , 2020 , 2020, 1469301	7.8	15
83	Research Progress on Improving the Sulfur Conversion Efficiency on the Sulfur Cathode Side in Lithium Sulfur Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20979-21000	3.9	4
82	Deciphering an Abnormal Layered-Tunnel Heterostructure Induced by Chemical Substitution for the Sodium Oxide Cathode. <i>Angewandte Chemie</i> , 2020 , 132, 1507-1511	3.6	14
81	Deciphering an Abnormal Layered-Tunnel Heterostructure Induced by Chemical Substitution for the Sodium Oxide Cathode. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1491-1495	16.4	52
80	Development and Investigation of a NASICON-Type High-Voltage Cathode Material for High-Power Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 2470-2477	3.6	15
79	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> , 2020 , 8, 1900498	3.5	16
78	Development and Investigation of a NASICON-Type High-Voltage Cathode Material for High-Power Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2449-2456	16.4	60

77	Enhanced sodium storage property of sodium vanadium phosphate via simultaneous carbon coating and Nb5+ doping. <i>Chemical Engineering Journal</i> , 2020 , 386, 123953	14.7	28
76	Poly(ethylene oxide)/Poly(vinylidene fluoride)/Li ₆ .4La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ composite electrolyte with a stable interface for high performance solid state lithium metal batteries. <i>Journal of Power Sources</i> , 2020 , 472, 228461	8.9	17
75	Suppressing the Shuttling of Polysulfide by a Self-Assembled FeOOH Separator in LiS Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 21066-21076	3.9	3
74	Self-supported cobalt phosphate nanorarray with pseudocapacitive behavior: An efficient 3D anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 156285	5.7	10
73	Review of the application of biomass-derived porous carbon in lithium-sulfur batteries. <i>Ionics</i> , 2020 , 26, 4765-4781	2.7	14
72	Enabling electrochemical conversion of N ₂ to NH ₃ under ambient conditions by a CoP ₃ nanoneedle array. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17956-17959	13	35
71	Rational synthesis of a ZIF-67@Co-Ni LDH heterostructure and derived heterogeneous carbon-based framework as a highly efficient multifunctional sulfur host. <i>Dalton Transactions</i> , 2020 , 49, 12686-12694	4.3	13
70	Three-Dimensional SnS ₂ Nanoarrays with Enhanced Lithium-Ion Storage Properties. <i>ChemElectroChem</i> , 2020 , 7, 4484-4491	4.3	3
69	Enabling Superior Electrochemical Performance of Lithium-Rich Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ Cathode Materials by Surface Integration. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19312-19321	3.9	5
68	NaS Treatment and Coherent Interface Modification of the Li-Rich Cathode to Address Capacity and Voltage Decay. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42660-42668	9.5	12
67	Key Parameter Optimization for the Continuous Synthesis of Ni-Rich Ni _{0.8} Co _{0.2} Al Cathode Materials for Lithium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 22549-22558	3.9	3
66	Novel Bifunctional Separator with a Self-Assembled FeOOH/Coated g-CN/KB Bilayer in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57859-57869	9.5	12
65	Synthesis Strategies and Structural Design of Porous Carbon-Incorporated Anodes for Sodium-Ion Batteries. <i>Small Methods</i> , 2020 , 4, 1900163	12.8	30
64	TiS ₂ nanosheets for efficient electrocatalytic N ₂ fixation to NH ₃ under ambient conditions. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1986-1989	6.8	14
63	Polyanion and cation co-doping stabilized Ni-rich Ni _{0.8} Co _{0.2} Al material as cathode with enhanced electrochemical performance for Li-ion battery. <i>Nano Energy</i> , 2019 , 63, 103818	17.1	123
62	Highly Stabilized Ni-Rich Cathode Material with Mo Induced Epitaxially Grown Nanostructured Hybrid Surface for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16629-16638	9.5	101
61	NiP Nanosheets on Carbon Cloth: An Efficient Flexible Electrode for Sodium-Ion Batteries. <i>Inorganic Chemistry</i> , 2019 , 58, 6579-6583	5.1	24
60	A rational design of the coupling mechanism of physical adsorption and chemical charge effect for high-performance lithium-sulfur batteries.. <i>RSC Advances</i> , 2019 , 9, 12710-12717	3.7	11

59	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> , 2019 , 423, 144-151	8.9	68
58	A Stable Layered Oxide Cathode Material for High-Performance Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2019 , 9, 1803978	21.8	118
57	Boosting the reactivity of Ni ²⁺ /Ni ³⁺ redox couple via fluorine doping of high performance Na _{0.6} Mn _{0.95} Ni _{0.05} O ₂ -F cathode. <i>Electrochimica Acta</i> , 2019 , 308, 64-73	6.7	23
56	High-Abundance and Low-Cost Metal-Based Cathode Materials for Sodium-Ion Batteries: Problems, Progress, and Key Technologies. <i>Advanced Energy Materials</i> , 2019 , 9, 1803609	21.8	104
55	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 & Interfaces</i> , 2019 , 11, 26938-26945	9.5	17
54	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> , 2019 , 6, 1970076	13.6	9
53	Enhanced constraint and catalysed conversion of lithium polysulfides via composite oxides from spent layered cathodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17867-17875	13	25
52	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> , 2019 , 6, 5155-5161	4.3	12
51	Structure and electrochemical performance modulation of a LiNiCoMnO cathode material by anion and cation co-doping for lithium ion batteries.. <i>RSC Advances</i> , 2019 , 9, 36849-36857	3.7	11
50	Boron-Doped TiO ₂ for Efficient Electrocatalytic N ₂ Fixation to NH ₃ at Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 117-122	8.3	94
49	Interpreting Abnormal Charge-Discharge Plateau Migration in Cu S during Long-Term Cycling. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3961-3970	9.5	23
48	Organic Cross-Linker Enabling a 3D Porous Skeleton-Supported Na ₃ V ₂ (PO ₄) ₃ /Carbon Composite for High Power Sodium-Ion Battery Cathode. <i>Small Methods</i> , 2019 , 3, 1800169	12.8	57
47	Enabling the electrocatalytic fixation of N ₂ to NH ₃ by C-doped TiO ₂ nanoparticles under ambient conditions. <i>Nanoscale Advances</i> , 2019 , 1, 961-964	5.1	29
46	Nanowire of WP as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2019 , 25, 971-975	4.8	6
45	Lithium/Oxygen Incorporation and Microstructural Evolution during Synthesis of Li-Rich Layered Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ Oxides. <i>Advanced Energy Materials</i> , 2019 , 9, 1803094	21.8	52
44	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 & Interfaces</i> , 2018 , 10, 10147-10156	9.5	66
43	Efficient Hydrogen Evolution Electrocatalysis at Alkaline pH by Interface Engineering of NiP-CeO. <i>Inorganic Chemistry</i> , 2018 , 57, 548-552	5.1	63
42	Co(OH) Nanoparticle-Encapsulating Conductive Nanowires Array: Room-Temperature Electrochemical Preparation for High-Performance Water Oxidation Electrocatalysis. <i>Advanced Materials</i> , 2018 , 30, 1705366	24	240

41	Synthesis and electrochemical performance of $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ by organic solvent replacement drying method. <i>Ionics</i> , 2018 , 24, 385-391	2.7	0
40	Effect of Na_2S treatment on the structural and electrochemical properties of $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ cathode material. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 547-554 ^{2.6}	4	
39	FeP nanorod arrays on carbon cloth: a high-performance anode for sodium-ion batteries. <i>Chemical Communications</i> , 2018 , 54, 9341-9344	5.8	76
38	Promoting the electrochemical performance of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ cathode via LaAlO_3 coating. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 546-555	5.7	41
37	Enabling Effective Electrocatalytic N Conversion to NH_3 by the TiO_2 Nanosheets Array under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28251-28255	9.5	174
36	Exposing {010} Active Facets by Multiple-Layer Oriented Stacking Nanosheets for High-Performance Capacitive Sodium-Ion Oxide Cathode. <i>Advanced Materials</i> , 2018 , 30, e1803765	24	92
35	Synthesis and lithium-ion storage performances of $\text{LiFe}_{0.5}\text{Co}_{0.5}\text{PO}_4/\text{C}$ nanoplatelets and nanorods. <i>Ionics</i> , 2018 , 24, 2275-2285	2.7	3
34	In Operando Investigation of the Structural Evolution during Calcination and Corresponding Enhanced Performance of Three-Dimensional $\text{Na}_2\text{Ti}_6\text{O}_{13}@\text{CN}$ Hierarchical Microflowers. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 17430-17436	3.9	3
33	Three-Dimensional Chestnut-Like Architecture Assembled from $\text{NaTiO}(\text{OH})_2/\text{HO@N}$ -Doped Carbon Nanosheets with Enhanced Sodium Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43740-43748	9.5	8
32	Construction of homogeneously Al^{3+} doped Ni rich Ni-Co-Mn cathode with high stable cycling performance and storage stability via scalable continuous precipitation. <i>Electrochimica Acta</i> , 2018 , 291, 84-94	6.7	106
31	Insight into the Multirole of Graphene in Preparation of High Performance $\text{Na}_{2+2x}\text{Fe}_2\text{S}(\text{SO}_4)_3$ Cathodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16105-16112	8.3	15
30	A Layered Tunnel Intergrowth Structure for High-Performance Sodium-Ion Oxide Cathode. <i>Advanced Energy Materials</i> , 2018 , 8, 1800492	21.8	85
29	Design and Synthesis of Layered NaTiO and Tunnel NaTiO Hybrid Structures with Enhanced Electrochemical Behavior for Sodium-Ion Batteries. <i>Advanced Science</i> , 2018 , 5, 1800519	13.6	71
28	Unravelling the growth mechanism of hierarchically structured $\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}(\text{OH})_2$ and their application as precursors for high-power cathode materials. <i>Electrochimica Acta</i> , 2017 , 232, 123-131	6.7	37
27	Construction of 3D pomegranate-like $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{conducting carbon composites}$ for high-power sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9833-9841	13	77
26	Mn-Based Cathode with Synergetic Layered-Tunnel Hybrid Structures and Their Enhanced Electrochemical Performance in Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21267-21275	9.5	48
25	Cauliflower-like $\text{MnO}@\text{C}/\text{N}$ composites with multiscale, expanded hierarchical ordered structures as electrode materials for Lithium- and Sodium-ion batteries. <i>Electrochimica Acta</i> , 2017 , 246, 931-940	6.7	41
24	Carbon-Coated $\text{NaFe}(\text{PO}_4)_2$ Cathode Material for High-Rate and Long-Life Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1605535	24	123

23	Effect of niobium doping on the structure and electrochemical performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode materials for lithium ion batteries. <i>Ceramics International</i> , 2017 , 43, 3866-3872	5.1	54
22	Insight into the Origin of Capacity Fluctuation of NaTiO Anode in Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43596-43602	9.5	27
21	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> , 2017 , 5, 25391-25400	13	46
20	LiNi _{0.5} Mn _{1.5} O ₄ hollow nano-micro hierarchical microspheres as advanced cathode for lithium ion batteries. <i>Ionics</i> , 2017 , 23, 27-34	2.7	9
19	Hollow Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ micro-spheres synthesized by a co-precipitation method as a high-performance cathode material for Li-ion batteries. <i>RSC Advances</i> , 2016 , 6, 70091-70098	3.7	15
18	Synthesis of spinel LiNi _{0.5} Mn _{1.5} O ₄ as advanced cathode via a modified oxalate co-precipitation method. <i>Ionics</i> , 2016 , 22, 1361-1368	2.7	9
17	Understanding Performance Differences from Various Synthesis Methods: A Case Study of Spinel LiCrNiMnO Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26051-26057	9.5	9
16	Synthesis of FeS@C-N hierarchical porous microspheres for the applications in lithium/sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 790-797	5.7	57
15	P2-type Na _{0.67} Mn _{0.72} Ni _{0.14} Co _{0.14} O ₂ with K ⁺ doping as new high rate performance cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2016 , 216, 51-57	6.7	48
14	Cobalt-doped lithium-rich cathode with superior electrochemical performance for lithium-ion batteries. <i>RSC Advances</i> , 2015 , 5, 2947-2951	3.7	10
13	Synthesis of Core-shell Structured LiFe _{0.5} Mn _{0.3} Co _{0.2} PO ₄ @C with Remarkable Electrochemical Performance as the Cathode of a Lithium-Ion Battery. <i>ChemElectroChem</i> , 2015 , 2, 896-902	4.3	13
12	Subunits controlled synthesis of Fe ₂ O ₃ multi-shelled core-shell microspheres and their effects on lithium/sodium ion battery performances. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10092-10099	13	82
11	Uncovering a facile large-scale synthesis of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ nanoflowers for high power lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 275, 200-206	8.9	73
10	An Approach towards Synthesis of Nanoarchitected LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathode Material for Lithium Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2015 , 33, 261-267	4.9	24
9	Synthesis of hierarchical worm-like SnO ₂ @C aggregates and their enhanced lithium storage properties. <i>Journal of Alloys and Compounds</i> , 2015 , 620, 407-412	5.7	14
8	Facile synthesis of Li ₃ V ₂ (PO ₄) ₃ /C nano-flakes with high-rate performance as cathode material for Li-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 215-221	2.6	21
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