

Jianming Zheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4755118/publications.pdf>

Version: 2024-02-01

153
papers

21,856
citations

12597

71
h-index

10129

145
g-index

154
all docs

154
docs citations

154
times ranked

15181
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning interface stability of nickel-rich LiNi _{0.9} Co _{0.05} Mn _{0.05} O ₂ cathode via a novel bis(vinylsulphonyl)methane additive. Journal of Power Sources, 2022, 521, 230917.	4.0	18
2	Improving interfacial stability of high voltage LiCoO ₂ -based cells with 4-methylmorpholine-2,6-dione additive. Journal of Power Sources, 2022, 524, 231049.	4.0	15
3	Highly stable operation of LiCoO ₂ at cut-off \approx 4.6 V enabled by synergistic structural and interfacial manipulation. Energy Storage Materials, 2022, 46, 406-416.	9.5	48
4	Synergistical Stabilization of Li Metal Anodes and LiCoO ₂ Cathodes in High-Voltage Li ⁺ /LiCoO ₂ Batteries by Potassium Selenocyanate (KSeCN) Additive. ACS Energy Letters, 2022, 7, 1364-1373.	8.8	49
5	Pushing Lithium Cobalt Oxides to 4.7 V by Lattice-Matched Interfacial Engineering. Advanced Energy Materials, 2022, 12, .	10.2	77
6	Boosting high voltage cycling of LiCoO ₂ cathode via triisopropanolamine cyclic borate electrolyte additive. Journal of Power Sources, 2022, 532, 231372.	4.0	14
7	Dictating the interfacial stability of nickel-rich LiNi _{0.90} Co _{0.05} Mn _{0.05} O ₂ via a diazacyclo electrolyte additive "2-Fluoropyrazine. Journal of Colloid and Interface Science, 2022, 618, 431-441.	5.0	10
8	Stable cycling and fast charging of high-voltage lithium metal batteries enabled by functional solvation chemistry. Chemical Engineering Journal, 2022, 442, 136351.	6.6	23
9	Substantially Promoted Energy Density of Li ⁺ CF _x Primary Battery Enabled by Li ⁺ -DMP Coordinated Structure. ACS Sustainable Chemistry and Engineering, 2022, 10, 6217-6229.	3.2	9
10	In Situ Construction of a LiF-Enriched Interfacial Modification Layer for Stable All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2022, 14, 29878-29885.	4.0	5
11	Revealing the correlation between structure evolution and electrochemical performance of high-voltage lithium cobalt oxide. Journal of Energy Chemistry, 2021, 54, 786-794.	7.1	36
12	Research progress of fluorine-containing electrolyte additives for lithium ion batteries. Journal of Power Sources Advances, 2021, 7, 100043.	2.6	55
13	Enhanced Cycle Life and Rate Capability of Single-Crystal, Ni-Rich LiNi _{0.9} Co _{0.05} Mn _{0.05} O ₂ Enabled by 1,2,4-1 <i>H</i> -Triazole Additive. ACS Applied Materials & Interfaces, 2021, 13, 16427-16436.	4.0	53
14	Stabilizing Ni-Rich LiNi _{0.83} Co _{0.12} Mn _{0.05} O ₂ with Cyclopentyl Isocyanate as a Novel Electrolyte Additive. ACS Applied Materials & Interfaces, 2021, 13, 12069-12078.	4.0	43
15	Interfacial Enhancement of Silicon-Based Anode by a Lactam-Type Electrolyte Additive. ACS Applied Energy Materials, 2021, 4, 10323-10332.	2.5	14
16	Enhanced Interfacial Stability of a LiNi _{0.9} Co _{0.05} Mn _{0.05} O ₂ Cathode by a Diboron Additive. ACS Applied Energy Materials, 2021, 4, 11051-11061.	2.5	18
17	Stabilizing the LiCoO ₂ Interface at High Voltage with an Electrolyte Additive 2,4,6-Tris(4-fluorophenyl)boroxin. ACS Sustainable Chemistry and Engineering, 2021, 9, 15042-15052.	3.2	22
18	Electrolyte Additive <i>cis</i> -1,2,3,6-Tetrahydrophthalic Anhydride Enhanced the Cycle Life of Nickel-Rich LiNi _{0.9} Co _{0.05} Mn _{0.05} O ₂ . ACS Applied Energy Materials, 2021, 4, 12275-12284.	2.5	15

#	ARTICLE	IF	CITATIONS
19	A novel trimethylsilyl 2-(fluorosulfonyl)difluoroacetate additive for stabilizing the Ni-rich LiNi _{0.9} Co _{0.05} Mn _{0.05} O ₂ /electrolyte interface. <i>Journal of Power Sources</i> , 2021, 515, 230618.	4.0	30
20	Boosting the Energy Density of Li CF _x Primary Batteries Using a 1,3-Dimethyl-2-imidazolidinone-Based Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57470-57480.	4.0	21
21	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. <i>Chemistry of Materials</i> , 2020, 32, 1002-1010.	3.2	44
22	Enhancing Chemical Interaction of Polysulfide and Carbon through Synergetic Nitrogen and Phosphorus Doping. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 806-813.	3.2	11
23	Direct Observation of Defect-Aided Structural Evolution in a Nickel-Rich Layered Cathode. <i>Angewandte Chemie</i> , 2020, 132, 22276-22283.	1.6	15
24	Direct Observation of Defect-Aided Structural Evolution in a Nickel-Rich Layered Cathode. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22092-22099.	7.2	75
25	Optimized Al Doping Improves Both Interphase Stability and Bulk Structural Integrity of Ni-Rich NMC Cathode Materials. <i>ACS Applied Energy Materials</i> , 2020, 3, 3369-3377.	2.5	66
26	Performance enhanced high-nickel lithium metal batteries through stable cathode and anode electrolyte interfaces. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2875-2883.	2.5	2
27	The Role of Secondary Particle Structures in Surface Phase Transitions of Ni-Rich Cathodes. <i>Chemistry of Materials</i> , 2020, 32, 2884-2892.	3.2	60
28	Atomic scale insight into the fundamental mechanism of Mn doped LiFePO ₄ . <i>Sustainable Energy and Fuels</i> , 2020, 4, 2741-2751.	2.5	17
29	Armoring LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathode with Reliable Fluorinated Organic-Inorganic Hybrid Interphase Layer toward Durable High Rate Battery. <i>Advanced Functional Materials</i> , 2020, 30, 2000396.	7.8	74
30	Unlocking the passivation nature of the cathode-air interfacial reactions in lithium ion batteries. <i>Nature Communications</i> , 2020, 11, 3204.	5.8	55
31	Controlling Surface Phase Transition and Chemical Reactivity of O3-Layered Metal Oxide Cathodes for High-Performance Na-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1718-1725.	8.8	64
32	Atomic layer deposition of Al ₂ O ₃ on LiNi _{0.68} Co _{0.10} Mn _{0.22} O ₂ for enhanced electrochemical performance. <i>Materials Letters</i> , 2020, 271, 127771.	1.3	5
33	First Atomic-Scale Insight into Degradation in Lithium Iron Phosphate Cathodes by Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4608-4617.	2.1	16
34	High-Efficiency Lithium Metal Anode Enabled by a Concentrated/Fluorinated Ester Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27794-27802.	4.0	31
35	Applications of XPS in the characterization of Battery materials. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 231, 2-10.	0.8	101
36	A functional SrF ₂ coated separator enabling a robust and dendrite-free solid electrolyte interphase on a lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21349-21361.	5.2	47

#	ARTICLE	IF	CITATIONS
37	Injection of oxygen vacancies in the bulk lattice of layered cathodes. <i>Nature Nanotechnology</i> , 2019, 14, 602-608.	15.6	321
38	Dual Carbonaceous Materials Synergetic Protection Silicon as a High-Performance Free-Standing Anode for Lithium-Ion Battery. <i>Nanomaterials</i> , 2019, 9, 650.	1.9	18
39	Self-supporting lithium titanate nanorod/carbon nanotube/reduced graphene oxide flexible electrode for high performance hybrid lithium-ion capacitor. <i>Journal of Alloys and Compounds</i> , 2019, 790, 1157-1166.	2.8	13
40	Self-assembly encapsulation of Si in N-doped reduced graphene oxide for use as a lithium ion battery anode with significantly enhanced electrochemical performance. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1427-1438.	2.5	32
41	Highly Stable Oxygen Electrodes Enabled by Catalyst Redistribution through an In Situ Electrochemical Method. <i>Advanced Energy Materials</i> , 2019, 9, 1803598.	10.2	6
42	In situ catalytic growth 3D multi-layers graphene sheets coated nano-silicon anode for high performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019, 356, 895-903.	6.6	131
43	Hierarchical Microspheres of Aggregated Silicon Nanoparticles with Nanometre Gaps as the Anode for Lithium-Ion Batteries with Excellent Cycling Stability. <i>ChemElectroChem</i> , 2019, 6, 1139-1148.	1.7	8
44	Designing principle for Ni-rich cathode materials with high energy density for practical applications. <i>Nano Energy</i> , 2018, 49, 434-452.	8.2	400
45	Dendrite-Free and Performance-Enhanced Lithium Metal Batteries through Optimizing Solvent Compositions and Adding Combinational Additives. <i>Advanced Energy Materials</i> , 2018, 8, 1703022.	10.2	123
46	Insights into the Electrochemical Reaction Mechanism of a Novel Cathode Material $\text{CuNi}_{2}(\text{PO}_{4})_{2}/\text{C}$ for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3522-3529.	4.0	7
47	Effects of Imide-Orthoborate Dual-Salt Mixtures in Organic Carbonate Electrolytes on the Stability of Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2469-2479.	4.0	110
48	Enhanced Cyclability of Lithium-Oxygen Batteries with Electrodes Protected by Surface Films Induced via In Situ Electrochemical Process. <i>Advanced Energy Materials</i> , 2018, 8, 1702340.	10.2	38
49	Extremely Stable Sodium Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>ACS Energy Letters</i> , 2018, 3, 315-321.	8.8	373
50	Simultaneous Stabilization of $\text{LiNi}_{0.76}\text{Mn}_{0.14}\text{Co}_{0.10}\text{O}_{2}$ Cathode and Lithium Metal Anode by Lithium Bis(oxalato)borate as Additive. <i>ChemSusChem</i> , 2018, 11, 2211-2220.	3.6	89
51	Effect of calcination temperature on the electrochemical properties of nickel-rich $\text{LiNi}_{0.76}\text{Mn}_{0.14}\text{Co}_{0.10}\text{O}_{2}$ cathodes for lithium-ion batteries. <i>Nano Energy</i> , 2018, 49, 538-548.	8.2	213
52	High Voltage Operation of Ni-Rich NMC Cathodes Enabled by Stable Electrode/Electrolyte Interphases. <i>Advanced Energy Materials</i> , 2018, 8, 1800297.	10.2	298
53	High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>Advanced Materials</i> , 2018, 30, e1706102.	11.1	761
54	Fundamental Insight into Zr Modification of Li- and Mn-Rich Cathodes: Combined Transmission Electron Microscopy and Electrochemical Impedance Spectroscopy Study. <i>Chemistry of Materials</i> , 2018, 30, 2566-2573.	3.2	106

#	ARTICLE	IF	CITATIONS
55	Accurate Determination of Coulombic Efficiency for Lithium Metal Anodes and Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702097.	10.2	704
56	Self-supporting activated carbon/carbon nanotube/reduced graphene oxide flexible electrode for high performance supercapacitor. <i>Carbon</i> , 2018, 129, 236-244.	5.4	244
57	Behavior of Lithium Metal Anodes under Various Capacity Utilization and High Current Density in Lithium Metal Batteries. <i>Joule</i> , 2018, 2, 110-124.	11.7	280
58	Dual functions of zirconium modification on improving the electrochemical performance of Ni-rich $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$. <i>Sustainable Energy and Fuels</i> , 2018, 2, 413-421.	2.5	135
59	Tubular titanium oxide/reduced graphene oxide-sulfur composite for improved performance of lithium sulfur batteries. <i>Carbon</i> , 2018, 128, 63-69.	5.4	43
60	Solid-Liquid Interfacial Reaction Triggered Propagation of Phase Transition from Surface into Bulk Lattice of Ni-Rich Layered Cathode. <i>Chemistry of Materials</i> , 2018, 30, 7016-7026.	3.2	80
61	Extending the limits of powder diffraction analysis: Diffraction parameter space, occupancy defects, and atomic form factors. <i>Review of Scientific Instruments</i> , 2018, 89, 093002.	0.6	18
62	Revealing Cycling Rate-Dependent Structure Evolution in Ni-Rich Layered Cathode Materials. <i>ACS Energy Letters</i> , 2018, 3, 2433-2440.	8.8	92
63	Li-Rich $\text{Li}[\text{Li}_{1/6}\text{Fe}_{1/6}\text{Ni}_{1/6}\text{Mn}_{1/2}]\text{O}_2$ (LFNMO) Cathodes: Atomic Scale Insight on the Mechanisms of Cycling Decay and of the Improvement due to Cobalt Phosphate Surface Modification. <i>Small</i> , 2018, 14, e1802570.	5.2	41
64	High-Efficiency Lithium Metal Batteries with Fire-Retardant Electrolytes. <i>Joule</i> , 2018, 2, 1548-1558.	11.7	436
65	A novel approach to synthesize micrometer-sized porous silicon as a high performance anode for lithium-ion batteries. <i>Nano Energy</i> , 2018, 50, 589-597.	8.2	191
66	Optimal synthetic conditions for a novel and high performance Ni-rich cathode material of $\text{LiNi}_{0.68}\text{Co}_{0.10}\text{Mn}_{0.22}\text{O}_2$. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1772-1780.	2.5	27
67	Lithium-Metal Batteries: High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes (<i>Adv. Mater.</i> 21/2018). <i>Advanced Materials</i> , 2018, 30, 1870144.	11.1	4
68	Stable cycling of high-voltage lithium metal batteries in ether electrolytes. <i>Nature Energy</i> , 2018, 3, 739-746.	19.8	767
69	Coupling of electrochemically triggered thermal and mechanical effects to aggravate failure in a layered cathode. <i>Nature Communications</i> , 2018, 9, 2437.	5.8	200
70	Tailoring grain boundary structures and chemistry of Ni-rich layered cathodes for enhanced cycle stability of lithium-ion batteries. <i>Nature Energy</i> , 2018, 3, 600-605.	19.8	613
71	Observation of Solid-Liquid Interfacial Reactions Controlled Bulk Phase Transition of Ni-rich Layered Cathode. <i>Microscopy and Microanalysis</i> , 2018, 24, 1522-1523.	0.2	1
72	Minimizing Polysulfide Shuttle Effect in Lithium-Ion Sulfur Batteries by Anode Surface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21965-21972.	4.0	18

#	ARTICLE	IF	CITATIONS
73	Enabling High-Energy-Density Cathode for Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 23094-23102.	4.0	67
74	Localized High-Concentration Sulfone Electrolytes for High-Efficiency Lithium-Metal Batteries. Chem, 2018, 4, 1877-1892.	5.8	628
75	Intragranular cracking as a critical barrier for high-voltage usage of layer-structured cathode for lithium-ion batteries. Nature Communications, 2017, 8, 14101.	5.8	654
76	Revisiting the Corrosion of the Aluminum Current Collector in Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2017, 8, 1072-1077.	2.1	156
77	Electrolyte additive enabled fast charging and stable cycling lithium metal batteries. Nature Energy, 2017, 2, .	19.8	1,048
78	Atomic Resolution Structural and Chemical Imaging Revealing the Sequential Migration of Ni, Co, and Mn upon the Battery Cycling of Layered Cathode. Nano Letters, 2017, 17, 3946-3951.	4.5	143
79	Wide-Temperature Electrolytes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 18826-18835.	4.0	150
80	Research Progress towards Understanding the Unique Interfaces between Concentrated Electrolytes and Electrodes for Energy Storage Applications. Advanced Science, 2017, 4, 1700032.	5.6	363
81	Li- and Mn-Rich Cathode Materials: Challenges to Commercialization. Advanced Energy Materials, 2017, 7, 1601284.	10.2	383
82	Temperature Dependence of the Oxygen Reduction Mechanism in Nonaqueous Li-O_2 Batteries. ACS Energy Letters, 2017, 2, 2525-2530.	8.8	30
83	Long term stability of Li-S batteries using high concentration lithium nitrate electrolytes. Nano Energy, 2017, 40, 607-617.	8.2	160
84	Suppressed oxygen extraction and degradation of $\text{LiNi}_x\text{Mn}_y\text{Co}_z\text{O}_2$ cathodes at high charge cut-off voltages. Nano Research, 2017, 10, 4221-4231.	5.8	77
85	Yolk-shell structured Sb@C anodes for high energy Na-ion batteries. Nano Energy, 2017, 40, 504-511.	8.2	123
86	S/TEM Study of Fading Mechanism of Lithium Transition Metal Oxide Cathode for Lithium Ion Battery. Microscopy and Microanalysis, 2017, 23, 2016-2017.	0.2	1
87	Li^{+} -Desolvation Dictating Lithium-Ion Battery's Low-Temperature Performances. ACS Applied Materials & Interfaces, 2017, 9, 42761-42768.	4.0	200
88	Atomic scale study of surface orientations and energies of Ti_2O_3 crystals. Applied Physics Letters, 2017, 111, .	1.5	3
89	Highly Stable Operation of Lithium Metal Batteries Enabled by the Formation of a Transient High-Concentration Electrolyte Layer. Advanced Energy Materials, 2016, 6, 1502151.	10.2	236
90	Lithium Metal Batteries: Highly Stable Operation of Lithium Metal Batteries Enabled by the Formation of a Transient High-Concentration Electrolyte Layer (Adv. Energy Mater. 8/2016). Advanced Energy Materials, 2016, 6, .	10.2	1

#	ARTICLE	IF	CITATIONS
91	Electrochemically Formed Ultrafine Metal Oxide Nanocatalysts for High-Performance Lithium-Oxygen Batteries. <i>Nano Letters</i> , 2016, 16, 4932-4939.	4.5	62
92	Ni and Co Segregations on Selective Surface Facets and Rational Design of Layered Lithium Transition-Metal Oxide Cathodes. <i>Advanced Energy Materials</i> , 2016, 6, 1502455.	10.2	100
93	Investigating Side Reactions and Coating Effects on High Voltage Layered Cathodes for Lithium Ion Batteries. <i>Microscopy and Microanalysis</i> , 2016, 22, 1312-1313.	0.2	0
94	Enhanced charging capability of lithium metal batteries based on lithium bis(trifluoromethanesulfonyl)imide-lithium bis(oxalato)borate dual-salt electrolytes. <i>Journal of Power Sources</i> , 2016, 318, 170-177.	4.0	186
95	The roles of oxygen non-stoichiometry on the electrochemical properties of oxide-based cathode materials. <i>Nano Today</i> , 2016, 11, 678-694.	6.2	72
96	Hard carbon coated nano-Si/graphite composite as a high performance anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 329, 323-329.	4.0	73
97	Anode-Free Rechargeable Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 7094-7102.	7.8	495
98	Cathode Materials: Ni and Co Segregations on Selective Surface Facets and Rational Design of Layered Lithium Transition-Metal Oxide Cathodes (<i>Adv. Energy Mater.</i> 9/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	10.2	2
99	A Spinel-Integrated P2-Type Layered Composite: High-Rate Cathode for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A584-A591.	1.3	57
100	The Effect of Entropy and Enthalpy Changes on the Thermal Behavior of Li-Mn-Rich Layered Composite Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2016, 163, A571-A577.	1.3	19
101	Effects of Propylene Carbonate Content in CsPF ₆ -Containing Electrolytes on the Enhanced Performances of Graphite Electrode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5715-5722.	4.0	43
102	Influence of memory effect on the state-of-charge estimation of large-format Li-ion batteries based on LiFePO ₄ cathode. <i>Journal of Power Sources</i> , 2016, 312, 55-59.	4.0	18
103	Atomic to Nanoscale Investigation of Functionalities of an Al ₂ O ₃ Coating Layer on a Cathode for Enhanced Battery Performance. <i>Chemistry of Materials</i> , 2016, 28, 857-863.	3.2	125
104	Charge-Discharge Cycling Induced Structural and Chemical Evolution of Li ₂ MnO ₃ Cathode for Li-ion Batteries. <i>Microscopy and Microanalysis</i> , 2015, 21, 473-474.	0.2	0
105	Interfacial Reaction Dependent Performance of Hollow Carbon Nanosphere @ Sulfur Composite as a Cathode for Li-S Battery. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	3
106	Recent Advances on the Understanding of Structural and Composition Evolution of LMR Cathodes for Li-ion Batteries. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	19
107	Probing the failure mechanism of nanoscale LiFePO ₄ for Li-ion batteries. <i>Applied Physics Letters</i> , 2015, 106, 203902.	1.5	15
108	Structural and Chemical Evolution of Li- and Mn-Rich Layered Cathode Material. <i>Chemistry of Materials</i> , 2015, 27, 1381-1390.	3.2	311

#	ARTICLE	IF	CITATIONS
109	Direct Observation of Sulfur Radicals as Reaction Media in Lithium Sulfur Batteries. Journal of the Electrochemical Society, 2015, 162, A474-A478.	1.3	178
110	Probing the Degradation Mechanism of Li_2MnO_3 Cathode for Li-Ion Batteries. Chemistry of Materials, 2015, 27, 975-982.	3.2	130
111	Enhanced performance of Li LiFePO ₄ cells using CsPF ₆ as an electrolyte additive. Journal of Power Sources, 2015, 293, 1062-1067.	4.0	29
112	Atomic-Resolution Visualization of Distinctive Chemical Mixing Behavior of Ni, Co, and Mn with Li in Layered Lithium Transition-Metal Oxide Cathode Materials. Chemistry of Materials, 2015, 27, 5393-5401.	3.2	108
113	Effects of structural defects on the electrochemical activation of Li_2MnO_3 . Nano Energy, 2015, 16, 143-151.	8.2	73
114	Following the Transient Reactions in Lithium-Sulfur Batteries Using an In Situ Nuclear Magnetic Resonance Technique. Nano Letters, 2015, 15, 3309-3316.	4.5	107
115	Role of Mn Content on the Electrochemical Properties of Nickel-Rich Layered $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ (0.0 at%) 41010.78431	15.0	78431
116	High Energy Density Lithium-Sulfur Batteries: Challenges of Thick Sulfur Cathodes. Advanced Energy Materials, 2015, 5, 1402290.	10.2	483
117	Nanoscale silicon as anode for Li-ion batteries: The fundamentals, promises, and challenges. Nano Energy, 2015, 17, 366-383.	8.2	228
118	Phosphorus Enrichment as a New Composition in the Solid Electrolyte Interphase of High-Voltage Cathodes and Its Effects on Battery Cycling. Chemistry of Materials, 2015, 27, 7447-7451.	3.2	37
119	Evolution of Lattice Structure and Chemical Composition of the Surface Reconstruction Layer in $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ Cathode Material for Lithium Ion Batteries. Nano Letters, 2015, 15, 514-522.	4.5	261
120	Interface modifications by anion receptors for high energy lithium ion batteries. Journal of Power Sources, 2014, 250, 313-318.	4.0	74
121	Reduction Mechanism of Fluoroethylene Carbonate for Stable Solid-Electrolyte Interphase Film on Silicon Anode. ChemSusChem, 2014, 7, 549-554.	3.6	126
122	Optimized Operating Range for Large-Format LiFePO_4 /Graphite Batteries. Journal of the Electrochemical Society, 2014, 161, A336-A341.	1.3	53
123	Mixed salts of LiTFSI and LiBOB for stable LiFePO_4 -based batteries at elevated temperatures. Journal of Materials Chemistry A, 2014, 2, 2346.	5.2	85
124	Manipulating surface reactions in lithium-sulphur batteries using hybrid anode structures. Nature Communications, 2014, 5, 3015.	5.8	290
125	Functioning Mechanism of AlF_3 Coating on the Li- and Mn-Rich Cathode Materials. Chemistry of Materials, 2014, 26, 6320-6327.	3.2	333
126	Lewis Acid-Base Interactions between Polysulfides and Metal Organic Framework in Lithium Sulfur Batteries. Nano Letters, 2014, 14, 2345-2352.	4.5	623

#	ARTICLE	IF	CITATIONS
127	Mitigating Voltage Fade in Cathode Materials by Improving the Atomic Level Uniformity of Elemental Distribution. <i>Nano Letters</i> , 2014, 14, 2628-2635.	4.5	273
128	Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ ∕LiMn _{1.5} Ti _{0.5} O ₄ composite cathodes with improved electrochemical performance for lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 133, 100-106.	2.6	22
129	Corrosion/Fragmentation of Layered Composite Cathode and Related Capacity/Voltage Fading during Cycling Process. <i>Nano Letters</i> , 2013, 13, 3824-3830.	4.5	353
130	Hierarchically structured materials for lithium batteries. <i>Nanotechnology</i> , 2013, 24, 424004.	1.3	30
131	Lattice Mn ³⁺ Behaviors in Li ₄ Ti ₅ O ₁₂ /LiNi _{0.5} Mn _{1.5} O ₄ Full Cells. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1264-A1268.	1.3	35
132	Improved electrochemical performance of Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ cathode material by fluorine incorporation. <i>Electrochimica Acta</i> , 2013, 105, 200-208.	2.6	137
133	Simply AlF ₃ -treated Li ₄ Ti ₅ O ₁₂ composite anode materials for stable and ultrahigh power lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 236, 169-174.	4.0	51
134	Electrochemical Kinetics and Performance of Layered Composite Cathode Material Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ . <i>Journal of the Electrochemical Society</i> , 2013, 160, A2212-A2219.	1.3	104
135	Surface and structural stabilities of carbon additives in high voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 227, 211-217.	4.0	55
136	Formation of the Spinel Phase in the Layered Composite Cathode Used in Li-Ion Batteries. <i>ACS Nano</i> , 2013, 7, 760-767.	7.3	772
137	Ionic liquid-enhanced solid state electrolyte interface (SEI) for lithium∕sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8464.	5.2	229
138	Interplay between two-phase and solid solution reactions in high voltage spinel cathode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 242, 736-741.	4.0	24
139	Novel Phosphamide Additive to Improve Thermal Stability of Solid Electrolyte Interphase on Graphite Anode in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11494-11497.	4.0	42
140	Controlled Nucleation and Growth Process of Li ₂ S ₂ /Li ₂ S in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1992-A1996.	1.3	89
141	How to Obtain Reproducible Results for Lithium Sulfur Batteries?. <i>Journal of the Electrochemical Society</i> , 2013, 160, A2288-A2292.	1.3	149
142	Revisit Carbon/Sulfur Composite for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1624-A1628.	1.3	98
143	Tris(hexafluoro-iso-propyl)phosphate as an SEI-Forming Additive on Improving the Electrochemical Performance of the Li[Li _{0.2} Mn _{0.56} Ni _{0.16} Co _{0.08}]O ₂ Cathode Material. <i>Journal of the Electrochemical Society</i> , 2013, 160, A285-A292.	1.3	112
144	Room Temperature Ionic Liquid as Electrolyte for Lithium-Ion Battery. <i>ECS Transactions</i> , 2013, 50, 57-68.	0.3	3

#	ARTICLE	IF	CITATIONS
145	Enhanced Li ⁺ ion transport in LiNi _{0.5} Mn _{1.5} O ₄ through control of site disorder. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13515.	1.3	167
146	High-performance LiNi _{0.5} Mn _{1.5} O ₄ Spinel Controlled by Mn ³⁺ Concentration and Site Disorder. <i>Advanced Materials</i> , 2012, 24, 2109-2116.	11.1	434
147	The effects of N-methyl-N-butylpyrrolidinium bis(trifluoromethylsulfonyl)imide-based electrolyte on the electrochemical performance of high capacity cathode material Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ . <i>Electrochimica Acta</i> , 2012, 59, 14-22.	2.6	52
148	Reinvestigation on the state-of-the-art nonaqueous carbonate electrolytes for 5V Li-ion battery applications. <i>Journal of Power Sources</i> , 2012, 213, 304-316.	4.0	69
149	Poly(2,5-dihydroxy-1,4-benzoquinonyl sulfide) (PDBS) as a cathode material for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 4125.	6.7	136
150	Sol-gel synthesis and electrochemical properties of fluorophosphates Na ₂ Fe _{1-x} Mn _x PO ₄ F/C (x = 0, 0.1). <i>Tj ETQq0 0 0 rgBT /Overlock</i> 21, 18630.	6.7	88
151	A comparison of preparation method on the electrochemical performance of cathode material Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ for lithium ion battery. <i>Electrochimica Acta</i> , 2011, 56, 3071-3078.	2.6	289
152	The effects of quenching treatment and AlF ₃ coating on LiNi _{0.5} Mn _{0.5} O ₂ cathode materials for lithium-ion battery. <i>Materials Chemistry and Physics</i> , 2010, 119, 519-523.	2.0	43
153	The Effects of AlF ₃ Coating on the Performance of Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ Positive Electrode Material for Lithium-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2008, 155, A775.	1.3	284