Yong Yang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6638960/publications.pdf

Version: 2024-02-01

400	24,127	5268	12946
papers	citations	83 h-index	131 g-index

413	413	413	18547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CMPs as Scaffolds for Constructing Porous Catalytic Frameworks: A Built-in Heterogeneous Catalyst with High Activity and Selectivity Based on Nanoporous Metalloporphyrin Polymers. Journal of the American Chemical Society, 2010, 132, 9138-9143.	13.7	506
2	Reversible multi-electron redox chemistry ofÂΪ€-conjugated N-containing heteroaromatic molecule-based organic cathodes. Nature Energy, 2017, 2, .	39.5	486
3	Recent advances in the research of polyanion-type cathode materials for Li-ion batteries. Energy and Environmental Science, 2011, 4, 3223.	30.8	463
4	Crack-free single-crystalline Ni-rich layered NCM cathode enable superior cycling performance of lithium-ion batteries. Nano Energy, 2020, 70, 104450.	16.0	397
5	Harnessing the concurrent reaction dynamics in active Si and Ge to achieve high performance lithium-ion batteries. Energy and Environmental Science, 2018, 11, 669-681.	30.8	329
6	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. ACS Energy Letters, 2018, 3, 1212-1218.	17.4	321
7	Rational Design of MXene/1Tâ€2H MoS₂â€C Nanohybrids for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1707578.	14.9	309
8	High Voltage Operation of Niâ€Rich NMC Cathodes Enabled by Stable Electrode/Electrolyte Interphases. Advanced Energy Materials, 2018, 8, 1800297.	19.5	298
9	A comparison of preparation method on the electrochemical performance of cathode material Li[Li0.2Mn0.54Ni0.13Co0.13]O2 for lithium ion battery. Electrochimica Acta, 2011, 56, 3071-3078.	5.2	289
10	The Effects of AlF[sub 3] Coating on the Performance of Li[Li[sub 0.2]Mn[sub 0.54]Ni[sub 0.13]Co[sub 0.13]]O[sub 2] Positive Electrode Material for Lithium-Ion Battery. Journal of the Electrochemical Society, 2008, 155, A775.	2.9	284
11	P2-type Na 0.66 Ni 0.33â€“x Zn x Mn 0.67 O 2 as new high-voltage cathode materials for sodium-ion batteries. Journal of Power Sources, 2015, 281, 18-26.	7.8	279
12	The effects of crystallographic orientation and strain of thin Hf0.5Zr0.5O2 film on its ferroelectricity. Applied Physics Letters, 2014, 104, .	3.3	268
13	Origin of Deterioration for LiNiO[sub 2] Cathode Material during Storage in Air. Electrochemical and Solid-State Letters, 2004, 7, A190.	2.2	257
14	Nanostructured Black Phosphorus/Ketjenblackâ€“Multiwalled Carbon Nanotubes Composite as High Performance Anode Material for Sodium-Ion Batteries. Nano Letters, 2016, 16, 3955-3965.	9.1	246
15	The effects of TiO2 coating on the electrochemical performance of Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode material for lithium-ion battery. Solid State Ionics, 2008, 179, 1794-1799.	2.7	231
16	Recent Progress in Research on Highâ€Voltage Electrolytes for Lithiumâ€Ion Batteries. ChemPhysChem, 2014, 15, 1956-1969.	2.1	219
17	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. Nature Communications, 2019, 10, 4244.	12.8	219
18	Li-rich cathodes for rechargeable Li-based batteries: reaction mechanisms and advanced characterization techniques. Energy and Environmental Science, 2020, 13, 4450-4497.	30.8	219

#	Article	IF	Citations
19	Synthesis and characterization of Li2MnSiO4/C nanocomposite cathode material for lithium ion batteries. Journal of Power Sources, 2007, 174, 528-532.	7.8	214
20	A comparison of solid electrolyte interphase (SEI) on the artificial graphite anode of the aged and cycled commercial lithium ion cells. Electrochimica Acta, 2008, 53, 3539-3546.	5.2	206
21	The stability of P2-layered sodium transition metal oxides in ambient atmospheres. Nature Communications, 2020, 11, 3544.	12.8	204
22	Investigation and improvement on the storage property of LiNi0.8Co0.2O2 as a cathode material for lithium-ion batteries. Journal of Power Sources, 2006, 162, 644-650.	7.8	197
23	In situ inorganic conductive network formation in high-voltage single-crystal Ni-rich cathodes. Nature Communications, 2021, 12, 5320.	12.8	197
24	A Highly Efficient and Selfâ€Stabilizing Metallicâ€Glass Catalyst for Electrochemical Hydrogen Generation. Advanced Materials, 2016, 28, 10293-10297.	21.0	195
25	Controlling Surface Oxides in Si/C Nanocomposite Anodes for Highâ€Performance Liâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1801718.	19.5	190
26	Spectroscopic characterization of Au3+ biosorption by waste biomass of Saccharomyces cerevisiae. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 761-765.	3.9	186
27	Silicon nanowires coated with copper layer as anode materials for lithium-ion batteries. Journal of Power Sources, 2011, 196, 6657-6662.	7.8	186
28	Recent Progress in All-Solid-State Lithiumâ"Sulfur Batteries Using High Li-Ion Conductive Solid Electrolytes. Electrochemical Energy Reviews, 2019, 2, 199-230.	25.5	179
29	High Sensitivity, Wearable, Piezoresistive Pressure Sensors Based on Irregular Microhump Structures and Its Applications in Body Motion Sensing. Small, 2016, 12, 3827-3836.	10.0	177
30	Insights into the Effects of Zinc Doping on Structural Phase Transition of P2-Type Sodium Nickel Manganese Oxide Cathodes for High-Energy Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 22227-22237.	8.0	177
31	Synthesis and electrochemical characterization of PEO-based polymer electrolytes with room temperature ionic liquids. Electrochimica Acta, 2007, 52, 5789-5794.	5.2	170
32	Approaching the ideal elastic strain limit in silicon nanowires. Science Advances, 2016, 2, e1501382.	10.3	169
33	Nanostructured Li[sub 2]FeSiO[sub 4] Electrode Material Synthesized through Hydrothermal-Assisted Sol-Gel Process. Electrochemical and Solid-State Letters, 2008, 11, A60.	2.2	164
34	Local Structure and Dynamics in the Na Ion Battery Positive Electrode Material Na₃V₂(PO₄)₂F₃. Chemistry of Materials, 2014, 26, 2513-2521.	6.7	156
35	MXene/Si@SiO_x@C Layer-by-Layer Superstructure with Autoadjustable Function for Superior Stable Lithium Storage. ACS Nano, 2019, 13, 2167-2175.	14.6	154
36	A study of novel anode material CoS2 for lithium ion battery. Journal of Power Sources, 2005, 146, 264-269.	7.8	153

#	Article	IF	Citations
37	Highly Efficient Activation of Molecular Oxygen with Nanoporous Metalloporphyrin Frameworks in Heterogeneous Systems. Advanced Materials, 2011, 23, 3149-3154.	21.0	151
38	A novel Li2FeSiO4/C composite: Synthesis, characterization and high storage capacity. Journal of Materials Chemistry, 2011, 21, 9506.	6.7	150
39	Recent advances and historical developments of high voltage lithium cobalt oxide materials for rechargeable Li-ion batteries. Journal of Power Sources, 2020, 460, 228062.	7.8	150
40	Improved electrochemical performance of Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode material by fluorine incorporation. Electrochimica Acta, 2013, 105, 200-208.	5.2	137
41	Yolk-shell ZnO-C microspheres with enhanced electrochemical performance as anode material for lithium ion batteries. Electrochimica Acta, 2014, 125, 659-665.	5.2	137
42	Poly(2,5-dihydroxy-1,4-benzoquinonyl sulfide) (PDBS) as a cathode material for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 4125.	6.7	136
43	Amorphous Li₂O₂: Chemical Synthesis and Electrochemical Properties. Angewandte Chemie - International Edition, 2016, 55, 10717-10721.	13.8	135
44	Exploring Highly Reversible 1.5-Electron Reactions (V³⁺/V⁴⁺/V⁵⁺) in Na₃VCr(PO₄)₃ Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 43632-43639.	8.0	134
45	Revealing the correlation between structural evolution and Li⁺diffusion kinetics of nickel-rich cathode materials in Li-ion batteries. Journal of Materials Chemistry A, 2020, 8, 8540-8547.	10.3	132
46	Synthetic Control of Kinetic Reaction Pathway and Cationic Ordering in Highâ€Ni Layered Oxide Cathodes. Advanced Materials, 2017, 29, 1606715.	21.0	127
47	P2â€Na_{0.67}Al_xMn_{1â^'x}O₂: Costâ€Effective, Stable and Highâ€Rate Sodium Electrodes by Suppressing Phase Transitions and Enhancing Sodium Cation Mobility. Angewandte Chemie - International Edition, 2019, 58, 18086-18095.	13.8	127
48	Advanced Characterization Techniques for Sodiumâ€Ion Battery Studies. Advanced Energy Materials, 2018, 8, 1702588.	19.5	122
49	Structural and electrochemical characterization of xLi[Li1/3Mn2/3]O2Â·(1â^'x)Li[Ni1/3Mn1/3Co1/3]O2 (0â‰¤xâ‰¤0.9) as cathode materials for lithium ion batteries. Journal of Power Sources, 2008, 184, 414-419.	7.8	121
50	Enabling Stable Highâ€Voltage LiCoO₂ Operation by Using Synergetic Interfacial Modification Strategy. Advanced Functional Materials, 2020, 30, 2004664.	14.9	119
51	Toward a stable solid-electrolyte-interfaces on nickel-rich cathodes: LiPO 2 F 2 salt-type additive and its working mechanism for LiNi 0.5 Mn 0.25 Co 0.25 O 2 cathodes. Journal of Power Sources, 2018, 380, 149-157.	7.8	116
52	Synthesis and Characterization of Li[sub 2]Mn[sub x]Fe[sub 1â^'x]SiO[sub 4] as a Cathode Material for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2006, 9, A542.	2.2	113
53	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}]O₂Cathode Material. Journal of the Electrochemical Society, 2013, 160, A285-A292.	2.9	112
54	Electrochemoâ€Mechanical Effects on Structural Integrity of Niâ€Rich Cathodes with Different Microstructures in All Solidâ€State Batteries. Advanced Energy Materials, 2021, 11, 2003583.	19.5	112

#	Article	IF	Citations
55	Identification of the Solid Electrolyte Interface on the Si/C Composite Anode with FEC as the Additive. ACS Applied Materials & Interfaces, 2019, 11, 14066-14075.	8.0	110
56	Vinyl ethylene sulfite as a new additive in propylene carbonate-based electrolyte for lithium ion batteries. Energy and Environmental Science, 2009, 2, 1102.	30.8	109
57	Correlation between long range and local structural changes in Ni-rich layered materials during charge and discharge process. Journal of Power Sources, 2019, 412, 336-343.	7.8	109
58	Engineering Na+-layer spacings to stabilize Mn-based layered cathodes for sodium-ion batteries. Nature Communications, 2021, 12, 4903.	12.8	109
59	Poly(ethylene oxide)â€“Li₁₀SnP₂S₁₂ Composite Polymer Electrolyte Enables High-Performance All-Solid-State Lithium Sulfur Battery. ACS Applied Materials & Interfaces, 2019, 11, 22745-22753.	8.0	108
60	Enabling Fast Na⁺ Transfer Kinetics in the Wholeâ€Voltageâ€Region of Hardâ€Carbon Anodes for Ultrahighâ€Rate Sodium Storage. Advanced Materials, 2022, 34, e2109282.	21.0	108
61	Toward Understanding the Lithium Transport Mechanism in Garnet-type Solid Electrolytes: Li⁺ Ion Exchanges and Their Mobility at Octahedral/Tetrahedral Sites. Chemistry of Materials, 2015, 27, 6650-6659.	6.7	107
62	Reaction mechanism and kinetics of lithium ion battery cathode material LiNiO2 with CO2. Journal of Power Sources, 2007, 173, 556-561.	7.8	106
63	Structural stabilities, electronic structures and lithium deintercalation in LixMSiO4 (M=Mn, Fe, Co,) Tj ETQq1 1 0.784314 rgBT /Overlo	3.0	106
64	Highly regio- and stereoselective hydrothiolation of acetylenes with thiols catalyzed by a well-defined supported Rh complex. Chemical Communications, 2011, 47, 6557.	4.1	106
65	Chemomechanical Failure Mechanism Study in NASICON-Type Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ Solid-State Lithium Batteries. Chemistry of Materials, 2020, 32, 4998-5008.	6.7	104
66	Stabilizing Li₁₀SnP₂S₁₂/Li Interface via an in Situ Formed Solid Electrolyte Interphase Layer. ACS Applied Materials & Interfaces, 2018, 10, 25473-25482.	8.0	103
67	Synthesis and electrochemical performance of Li2CoSiO4 as cathode material for lithium ion batteries. Journal of Power Sources, 2007, 174, 524-527.	7.8	101
68	Zero-Strain Na₂FeSiO₄ as Novel Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 17233-17238.	8.0	101
69	Mixed-conducting interlayer boosting the electrochemical performance of Ni-rich layered oxide cathode materials for lithium ion batteries. Journal of Power Sources, 2019, 421, 91-99.	7.8	101
70	Highly-stable P2â€“Na0.67MnO2 electrode enabled by lattice tailoring and surface engineering. Energy Storage Materials, 2020, 26, 503-512.	18.0	101
71	Restraining the polarization increase of Ni-rich and low-Co cathodes upon cycling by Al-doping. Journal of Materials Chemistry A, 2020, 8, 6893-6901.	10.3	100
72	A comparative study of LiNi0.8Co0.2O2 cathode materials modified by lattice-doping and surface-coating. Solid State Ionics, 2004, 166, 317-325.	2.7	99

#	Article	IF	Citations
73	Controllable synthesis of Î±- and Î²-MnO₂: cationic effect on hydrothermal crystallization. Nanotechnology, 2008, 19, 225606.	2.6	99
74	Sol-gel synthesis of Na4Fe3(PO4)2(P2O7)/C nanocomposite for sodium ion batteries and new insights into microstructural evolution during sodium extraction. Journal of Power Sources, 2016, 327, 666-674.	7.8	99
75	In Situ Generated Li₂Sâ€“C Nanocomposite for High-Capacity and Long-Life All-Solid-State Lithium Sulfur Batteries with Ultrahigh Areal Mass Loading. Nano Letters, 2019, 19, 3280-3287.	9.1	98
76	A novel NASICON-based glass-ceramic composite electrolyte with enhanced Na-ion conductivity. Energy Storage Materials, 2019, 23, 514-521.	18.0	97
77	Visualizing the growth process of sodium microstructures in sodium batteries by in-situ 23Na MRI and NMR spectroscopy. Nature Nanotechnology, 2020, 15, 883-890.	31.5	95
78	Modeling the SEI-Formation on Graphite Electrodes in LiFePO₄Batteries. Journal of the Electrochemical Society, 2015, 162, A858-A869.	2.9	92
79	Exploring the working mechanism of Li⁺ in O3-type NaLi_{0.1}Ni_{0.35}Mn_{0.55}O₂ cathode materials for rechargeable Na-ion batteries. Journal of Materials Chemistry A, 2016, 4, 9054-9062.	10.3	92
80	Revealing Cycling Rate-Dependent Structure Evolution in Ni-Rich Layered Cathode Materials. ACS Energy Letters, 2018, 3, 2433-2440.	17.4	92
81	Structural, electrochemical and thermal properties of LiNi0.8â^'yTiyCo0.2O2 as cathode materials for lithium ion battery. Electrochimica Acta, 2004, 49, 1151-1159.	5.2	89
82	Simultaneous Stabilization of LiNi_{0.76}Mn_{0.14}Co_{0.10}O₂ Cathode and Lithium Metal Anode by Lithium Bis(oxalato)borate as Additive. ChemSusChem, 2018, 11, 2211-2220.	6.8	89
83	Lithium Host:Advanced architecture components for lithium metal anode. Energy Storage Materials, 2021, 38, 276-298.	18.0	89
84	Solâ€“gel synthesis and electrochemical properties of fluorophosphates Na2Fe1â^'xMnxPO4F/C (x = 0, 0.1,) Tj ETQq0 0 0 rgBT /Overlock 21, 18630.	6.7	88
85	Advanced characterization techniques for solid state lithium battery research. Materials Today, 2020, 36, 139-157.	14.2	86
86	Intrinsic Role of Cationic Substitution in Tuning Li/Ni Mixing in High-Ni Layered Oxides. Chemistry of Materials, 2019, 31, 2731-2740.	6.7	85
87	Interfaces in Garnetâ€Based Allâ€Solidâ€State Lithium Batteries. Advanced Energy Materials, 2020, 10, 2001318.	19.5	85
88	Pillar-beam structures prevent layered cathode materials from destructive phase transitions. Nature Communications, 2021, 12, 13.	12.8	85
89	Quantitatively analyzing the failure processes of rechargeable Li metal batteries. Science Advances, 2021, 7, eabj3423.	10.3	84
90	The synergistic effects of Al and Te on the structure and Li⁺-mobility of garnet-type solid electrolytes. Journal of Materials Chemistry A, 2014, 2, 20271-20279.	10.3	83

#	Article	IF	Citations
91	Understanding the High Capacity of Li₂FeSiO₄: In Situ XRD/XANES Study Combined with First-Principles Calculations. Chemistry of Materials, 2013, 25, 2014-2020.	6.7	82
92	Stable Cycling Lithiumâ€“Sulfur Solid Batteries with Enhanced Li/Li₁₀GeP₂S₁₂ Solid Electrolyte Interface Stability. ACS Applied Materials & Interfaces, 2019, 11, 18436-18447.	8.0	82
93	Synthesis, characterization and electrochemical performance of mesoporous FePO4 as cathode material for rechargeable lithium batteries. Electrochimica Acta, 2008, 53, 2665-2673.	5.2	81
94	Anodic behavior of Al current collector in 1-alkyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl] amide ionic liquid electrolytes. Journal of Power Sources, 2007, 173, 510-517.	7.8	80
95	Hydrothermal synthesis of LiMn2O4/C composite as a cathode for rechargeable lithium-ion battery with excellent rate capability. Electrochimica Acta, 2009, 54, 5363-5367.	5.2	80
96	Solidâ€“Liquid Interfacial Reaction Trigged Propagation of Phase Transition from Surface into Bulk Lattice of Ni-Rich Layered Cathode. Chemistry of Materials, 2018, 30, 7016-7026.	6.7	80
97	Construction of a Stable LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ (NCM811) Cathode Interface by a Multifunctional Organosilicon Electrolyte Additive. ACS Applied Energy Materials, 2020, 3, 2837-2845.	5.1	80
98	Identifying the Structural Evolution of the Sodium Ion Battery Na₂FePO₄F Cathode. Angewandte Chemie - International Edition, 2018, 57, 11918-11923.	13.8	79
99	Electrochemical Performance and Surface Properties of Bare and TiO2-Coated Cathode Materials in Lithium-Ion Batteries. Journal of Physical Chemistry B, 2004, 108, 17546-17552.	2.6	78
100	Electrochemical Characterization of Two Types of PEO-Based Polymer Electrolytes with Room-Temperature Ionic Liquids. Journal of the Electrochemical Society, 2008, 155, A569.	2.9	77
101	Pushing Lithium Cobalt Oxides to 4.7ÂV by Latticeâ€Matched Interfacial Engineering. Advanced Energy Materials, 2022, 12, .	19.5	77
102	Investigation of the anodic behavior of Al current collector in room temperature ionic liquid electrolytes. Electrochimica Acta, 2008, 53, 4764-4772.	5.2	76
103	Mesoporous ZnCo 2 O 4 microspheres composed of ultrathin nanosheets cross-linked with metallic NiSi x nanowires on Ni foam as anodes for lithium ion batteries. Nano Energy, 2014, 10, 245-258.	16.0	76
104	Superior Stability Secured by a Four-Phase Cathode Electrolyte Interface on a Ni-Rich Cathode for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 36742-36750.	8.0	76
105	N-doped carbon layer derived from polydopamine to improve the electrochemical performance of spray-dried Si/graphite composite anode material for lithium ion batteries. Journal of Alloys and Compounds, 2016, 689, 130-137.	5.5	71
106	Atomic Layer Deposition of SrTiO₃ Films with Cyclopentadienyl-Based Precursors for Metalâ€“Insulatorâ€“Metal Capacitors. Chemistry of Materials, 2013, 25, 953-961.	6.7	69
107	Cu(i)-catalyzed aerobic cross-dehydrogenative coupling of terminal alkynes with thiols for the construction of alkynyl sulfides. Green Chemistry, 2013, 15, 3170.	9.0	68
108	Highly stereoselective anti-Markovnikov hydrothiolation of alkynes and electron-deficient alkenes by a supported Cu-NHC complex. Green Chemistry, 2014, 16, 3916-3925.	9.0	68

#	Article	IF	Citations
109	3D hierarchically porous zincâ€“nickelâ€“cobalt oxide nanosheets grown on Ni foam as binder-free electrodes for electrochemical energy storage. Journal of Materials Chemistry A, 2015, 3, 24022-24032.	10.3	67
110	The studies on structural and thermal properties of delithiated LixNi1/3Co1/3Mn1/3O2 (0<xâ‰1) as a cathode material in lithium ion batteries. Solid State Ionics, 2006, 177, 1509-1516.	2.7	66
111	Additives synergy for stable interface formation on rechargeable lithium metal anodes. Energy Storage Materials, 2020, 29, 377-385.	18.0	66
112	Optimized Al Doping Improves Both Interphase Stability and Bulk Structural Integrity of Ni-Rich NMC Cathode Materials. ACS Applied Energy Materials, 2020, 3, 3369-3377.	5.1	66
113	Preparation and Properties of Manganese Oxide/Carbon Composites by Reduction of Potassium Permanganate with Acetylene Black. Journal of the Electrochemical Society, 2007, 154, A26.	2.9	65
114	Atomic Layer Deposition of ZrO2 Thin Films with High Dielectric Constant on TiN Substrates. Electrochemical and Solid-State Letters, 2008, 11, G9.	2.2	65
115	Degradation Mechanisms of C6/LiFePO4 Batteries: Experimental Analyses of Calendar Aging. Electrochimica Acta, 2016, 190, 1124-1133.	5.2	65
116	Effects of preparation methods of LiNi0.8Co0.2O2 cathode materials on their morphology and electrochemical performance. Journal of Power Sources, 2004, 136, 139-144.	7.8	64
117	Nanostructured 0.8Li2FeSiO4/0.4Li2SiO3/C composite cathode material with enhanced electrochemical performance for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 12128.	6.7	64
118	Electrochemical performance and spectroscopic characterization of TiO2-coated LiNi0.8Co0.2O2 cathode materials. Journal of Power Sources, 2004, 129, 101-106.	7.8	63
119	Recent advances in the research of functional electrolyte additives for lithium-ion batteries. Current Opinion in Electrochemistry, 2017, 6, 84-91.	4.8	63
120	Studies on Storage Characteristics of LiNi[sub 0.4]Co[sub 0.2]Mn[sub 0.4]O[sub 2] as Cathode Materials in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2007, 154, A427.	2.9	62
121	Toward a stable electrochemical interphase with enhanced safety on high-voltage LiCoO 2 cathode: A case of phosphazene additives. Journal of Power Sources, 2017, 359, 391-399.	7.8	62
122	Linking the Defects to the Formation and Growth of Li Dendrite in Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2021, 11, 2102148.	19.5	61
123	Toward a durable solid electrolyte film on the electrodes for Li-ion batteries with high performance. Nano Energy, 2019, 63, 103815.	16.0	60
124	Structural and Electronic Properties of Li-Ion Battery Cathode Material FeF₃. Journal of Physical Chemistry C, 2010, 114, 16813-16817.	3.1	59
125	Toward high capacity and stable manganese-spinel electrode materials: A case study of Ti-substituted system. Journal of Power Sources, 2014, 245, 570-578.	7.8	59
126	Unraveling (electro)-chemical stability and interfacial reactions of Li10SnP2S12 in all-solid-state Li batteries. Nano Energy, 2020, 67, 104252.	16.0	59

#	Article	IF	Citations
127	Synthesis and characterization of Nafion/cross-linked PVP semi-interpenetrating polymer network membrane for direct methanol fuel cell. Journal of Membrane Science, 2010, 354, 189-197.	8.2	58
128	Synthesis of micro-nano hierarchical structured LiFePO4/C composite with both superior high-rate performance and high tap density. Nanoscale, 2011, 3, 4434.	5.6	58
129	Growth of Hierarchical 3D Mesoporous NiSi_x/NiCo₂O₄ Core/Shell Heterostructures on Nickel Foam for Lithiumâ€Ion Batteries. ChemSusChem, 2014, 7, 2325-2334.	6.8	58
130	Synthesis and characterization of urchin-like Mn 0.33 Co 0.67 C 2 O 4 for Li-ion batteries: Role of SEI layers for enhanced electrochemical properties. Electrochimica Acta, 2015, 163, 93-101.	5.2	58
131	Exploiting Na₂MnPO₄F as a high-capacity and well-reversible cathode material for Na-ion batteries. RSC Advances, 2014, 4, 40985-40993.	3.6	57
132	Effects of Vinyl Ethylene Carbonate Additive on Elevated-Temperature Performance of Cathode Material in Lithium Ion Batteries. Journal of Physical Chemistry C, 2008, 112, 12550-12556.	3.1	56
133	The application of synchrotron X-ray techniques to the study of rechargeable batteries. Journal of Energy Chemistry, 2018, 27, 1566-1583.	12.9	55
134	Temperature-dependent cycling performance and ageing mechanisms of C6/LiNi1/3Mn1/3Co1/3O2 batteries. Journal of Power Sources, 2018, 396, 444-452.	7.8	55
135	Research progress of fluorine-containing electrolyte additives for lithium ion batteries. Journal of Power Sources Advances, 2021, 7, 100043.	5.1	55
136	Sieving carbons promise practical anodes with extensible low-potential plateaus for sodium batteries. National Science Review, 2022, 9, .	9.5	55
137	Highly crystalline macroporous Î²-MnO2: Hydrothermal synthesis and application in lithium battery. Electrochimica Acta, 2010, 55, 4915-4920.	5.2	54
138	A Peanut Shell Inspired Scalable Synthesis of Three-Dimensional Carbon Coated Porous Silicon Particles as an Anode for Lithium-Ion Batteries. Electrochimica Acta, 2015, 156, 11-19.	5.2	54
139	Spray-Drying Synthesis of Pure Na2CoPO4F as Cathode Material for Sodium Ion Batteries. ECS Electrochemistry Letters, 2015, 4, A53-A55.	1.9	54
140	Research Progress in Multielectron Reactions in Polyanionic Materials for Sodiumâ€Ion Batteries. Small Methods, 2019, 3, 1800221.	8.6	54
141	Al and Fe-containing Mn-based layered cathode with controlled vacancies for high-rate sodium ion batteries. Nano Energy, 2020, 76, 104997.	16.0	54
142	Degradation Mechanisms of C6/LiFePO4 Batteries: Experimental Analyses of Cycling-induced Aging. Electrochimica Acta, 2016, 210, 445-455.	5.2	53
143	Synthesis and Reaction Mechanism of Novel Fluorinated Carbon Fiber as a High-Voltage Cathode Material for Rechargeable Na Batteries. Chemistry of Materials, 2016, 28, 1026-1033.	6.7	53
144	Enhanced Cycle Life and Rate Capability of Single-Crystal, Ni-Rich LiNi_{0.9}Co_{0.05}Mn_{0.05}O₂ Enabled by 1,2,4-1H-Triazole Additive. ACS Applied Materials & Interfaces, 2021, 13, 16427-16436.	8.0	53

#	Article	IF	Citations
145	The effects of N-methyl-N-butylpyrrolidinium bis(trifluoromethylsulfonyl)imideâ€“based electrolyte on the electrochemical performance of high capacity cathode material Li[Li0.2Mn0.54Ni0.13Co0.13]O2. Electrochimica Acta, 2012, 59, 14-22.	5.2	52
146	Total Internal Reflection Sum-Frequency Spectroscopy:Â A Strategy for Studying Molecular Adsorption on Metal Surfaces. Langmuir, 2000, 16, 2343-2350.	3.5	51
147	Economical Synthesis and Promotion of the Electrochemical Performance of Silicon Nanowires as Anode Material in Li-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 1681-1687.	8.0	51
148	In Situ Electrochemical XAFS Studies on an Iron Fluoride High-Capacity Cathode Material for Rechargeable Lithium Batteries. Journal of Physical Chemistry C, 2013, 117, 11498-11505.	3.1	51
149	A high-performance ternary Si composite anode material with crystal graphite core and amorphous carbon shell. Journal of Power Sources, 2018, 384, 328-333.	7.8	51
150	Exploring high-voltage fluorinated carbonate electrolytes for LiNi0.5Mn1.5O4 cathode in Li-ion batteries. Journal of Energy Chemistry, 2020, 42, 62-70.	12.9	51
151	In situ FTIR characterization of the electrooxidation of glassy carbon electrodes. Journal of Applied Electrochemistry, 1995, 25, 259.	2.9	50
152	Immobilization of rhodium complexes ligated with triphenyphosphine analogs on amino-functionalized MCM-41 and MCM-48 for 1-hexene hydroformylation. Journal of Molecular Catalysis A, 2004, 219, 175-181.	4.8	50
153	Pressure effects on structure and dynamics of metallic glass-forming liquid. Journal of Chemical Physics, 2017, 146, 024507.	3.0	49
154	Insights of the anionic redox in P2â€“Na0.67Ni0.33Mn0.67O2. Nano Energy, 2020, 78, 105285.	16.0	49
155	Origin of High Ionic Conductivity of Scâ€Doped Sodiumâ€Rich NASICON Solidâ€State Electrolytes. Advanced Functional Materials, 2021, 31, 2102129.	14.9	49
156	Synergistical Stabilization of Li Metal Anodes and LiCoO₂ Cathodes in High-Voltage Liâ¯LiCoO₂ Batteries by Potassium Selenocyanate (KSeCN) Additive. ACS Energy Letters, 2022, 7, 1364-1373.	17.4	49
157	Silicon nanowires with and without carbon coating as anode materials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 1829-1834.	2.5	48
158	Effects of cobalt precursor on pyrolyzed carbon-supported cobalt-polypyrrole as electrocatalyst toward oxygen reduction reaction. Nanoscale Research Letters, 2013, 8, 478.	5.7	48
159	A Strategy to Improve Cyclic Performance of LiNi_{0.5}Mn_{1.5}O₄in a Wide Voltage Region by Ti-Doping. Journal of the Electrochemical Society, 2013, 160, A3036-A3040.	2.9	48
160	Improved lithium ion battery performance by mesoporous Co3O4 nanosheets grown on self-standing NiSix nanowires on nickel foam. Journal of Materials Chemistry A, 2014, 2, 8483.	10.3	48
161	Highly stable operation of LiCoO2 at cut-off â‰¥ 4.6ÂV enabled by synergistic structural and interfacial manipulation. Energy Storage Materials, 2022, 46, 406-416.	18.0	48
162	Structural properties and energetics of Li2FeSiO4 polymorphs and their delithiated products from first-principles. Physical Chemistry Chemical Physics, 2012, 14, 7346.	2.8	47

#	Article	IF	Citations
163	Hydrothermal synthesis, self-assembly and electrochemical performance of Î±-Fe2O3 microspheres for lithium ion batteries. Ceramics International, 2014, 40, 10283-10290.	4.8	46
164	Carbonate anions controlled morphological evolution of LiMnPO4 crystals. Chemical Communications, 2008, , 1118.	4.1	45
165	Tailoring the interfaces of silicon/carbon nanotube for high rate lithium-ion battery anodes. Journal of Power Sources, 2020, 450, 227593.	7.8	45
166	Synthesis and characterization of mesoporous titanium pyrophosphate as lithium intercalation electrode materials. Microporous and Mesoporous Materials, 2006, 88, 232-237.	4.4	44
167	Mesoporous FePO[sub 4] with Enhanced Electrochemical Performance as Cathode Materials of Rechargeable Lithium Batteries. Electrochemical and Solid-State Letters, 2005, 8, A396.	2.2	43
168	The effects of quenching treatment and AlF3 coating on LiNi0.5Mn0.5O2 cathode materials for lithium-ion battery. Materials Chemistry and Physics, 2010, 119, 519-523.	4.0	43
169	Configuration correlation governs slow dynamics of supercooled metallic liquids. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6375-6380.	7.1	43
170	Capacity fading induced by phase conversion hysteresis within alloying phosphorus anode. Nano Energy, 2019, 58, 560-567.	16.0	43
171	Stabilizing Ni-Rich LiNi_{0.83}Co_{0.12}Mn_{0.05}O₂ with Cyclopentyl Isocyanate as a Novel Electrolyte Additive. ACS Applied Materials & Interfaces, 2021, 13, 12069-12078.	8.0	43
172	Title is missing!. Catalysis Letters, 2003, 88, 219-225.	2.6	42
173	Novel Phosphamide Additive to Improve Thermal Stability of Solid Electrolyte Interphase on Graphite Anode in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 11494-11497.	8.0	42
174	Fluorination effect for stabilizing cationic and anionic redox activities in cation-disordered cathode materials. Energy Storage Materials, 2020, 32, 234-243.	18.0	42
175	Good practice guide for papers on supercapacitors and related hybrid capacitors for the Journal of Power Sources. Journal of Power Sources, 2020, 450, 227636.	7.8	41
176	All solid thick oxide cathodes based on low temperature sintering for high energy solid batteries. Energy and Environmental Science, 2021, 14, 5044-5056.	30.8	41
177	The effects of sintering temperature and time on the structure and electrochemical performance of LiNi 0.8 Co 0.2 O 2 cathode materials derived from sol-gel method. Journal of Solid State Electrochemistry, 2003, 7, 456-462.	2.5	40
178	Synthesis and characterization of in situ Fe2O3-coated FeF3 cathode materials for rechargeable lithium batteries. Journal of Materials Chemistry, 2012, 22, 24769.	6.7	40
179	Synergistic Effects of Suberonitrile-LiBOB Binary Additives on the Electrochemical Performance of High-Voltage LiCoO₂Electrodes. Journal of the Electrochemical Society, 2015, 162, A7015-A7023.	2.9	40
180	Toward understanding of ion dynamics in highly conductive lithium ion conductors: Some perspectives by solid state NMR techniques. Solid State Ionics, 2018, 318, 19-26.	2.7	40

#	Article	IF	Citations
181	Degradation mechanisms of C6/LiNi0.5Mn0.3Co0.2O2 Li-ion batteries unraveled by non-destructive and post-mortem methods. Journal of Power Sources, 2019, 416, 163-174.	7.8	40
182	Solâ€“gel synthesis of Li2CoPO4F/C nanocomposite as a high power cathode material for lithium ion batteries. Journal of Power Sources, 2012, 220, 122-129.	7.8	39
183	Exploring the design of eutectic or near-eutectic multicomponent alloys: From binary to high entropy alloys. Science China Technological Sciences, 2018, 61, 159-167.	4.0	39
184	Structure-Performance Relationship of Zn²⁺ Substitution in P2â€“Na_{0.66}Ni_{0.33}Mn_{0.67}O₂ with Different Ni/Mn Ratios for High-Energy Sodium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 4914-4924.	5.1	39
185	Preparation of multi-walled carbon nanotube array electrodes and its electrochemical intercalation behavior of Li ions. Chemical Physics Letters, 2002, 358, 77-82.	2.6	38
186	Structural Stability and Electronic and Magnetic Properties of Fluorinated Bilayer Graphene. Journal of Physical Chemistry C, 2013, 117, 3572-3579.	3.1	38
187	Promoting long-term cycling performance of high-voltage Li₂CoPO₄F by the stabilization of electrode/electrolyte interface. Journal of Materials Chemistry A, 2014, 2, 1006-1013.	10.3	38
188	Mechanical Switching of Nanoscale Multiferroic Phase Boundaries. Advanced Functional Materials, 2015, 25, 3405-3413.	14.9	38
189	Structural and electronic properties of the Li-ion battery cathode material LixCoSiO4. Current Applied Physics, 2007, 7, 611-616.	2.4	37
190	Synthesis and characterization of fluorinated carbon nanotubes for lithium primary batteries with high power density. Nanotechnology, 2013, 24, 424003.	2.6	37
191	Amorphous Li₂O₂: Chemical Synthesis and Electrochemical Properties. Angewandte Chemie, 2016, 128, 10875-10879.	2.0	37
192	Interfacial nitrogen stabilizes carbon-coated mesoporous silicon particle anodes. Journal of Materials Chemistry A, 2016, 4, 434-442.	10.3	37
193	Facile one-pot synthesis of low cost MnO2 nanosheet/Super P Li composites with high oxygen reduction reaction activity for Zn-air batteries. Journal of Power Sources, 2020, 448, 227385.	7.8	37
194	MCM-41 Supported Water-soluble TPPTSâ€“Rh Complex in Ionic Liquids: A New Robust Catalyst for Olefin Hydroformylation. Chemistry Letters, 2005, 34, 220-221.	1.3	36
195	The study of Mg2Si/carbon composites as anode materials for lithium ion batteries. Journal of Power Sources, 2008, 175, 547-552.	7.8	36
196	Hydrothermal Synthesis of Nanosized LiMnO[sub 2]â€“Li[sub 2]MnO[sub 3] Compounds and Their Electrochemical Performances. Journal of the Electrochemical Society, 2009, 156, A162.	2.9	36
197	Hydrothermal Synthesis of a Nanosized LiNi[sub 0.5]Mn[sub 1.5]O[sub 4] Cathode Material for High Power Lithium-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A139.	2.9	36
198	On the Interface Design of Si and Multilayer Graphene for a High-Performance Li-Ion Battery Anode. ACS Applied Materials & Interfaces, 2020, 12, 44840-44849.	8.0	36

#	Article	IF	Citations
199	Revealing the correlation between structure evolution and electrochemical performance of high-voltage lithium cobalt oxide. Journal of Energy Chemistry, 2021, 54, 786-794.	12.9	36
200	Modifying an ultrathin insulating layer to suppress lithium dendrite formation within garnet solid electrolytes. Journal of Materials Chemistry A, 2021, 9, 3576-3583.	10.3	36
201	Synthesis of LiCoMnO4 via a solâ€“gel method and its application in high power LiCoMnO4/Li4Ti5O12 lithium-ion batteries. Journal of Power Sources, 2012, 202, 352-356.	7.8	35
202	Grapheneâ€Encapsulated Nanosheetâ€Assembled Zincâ€“Nickelâ€“Cobalt Oxide Microspheres for Enhanced Lithium Storage. ChemSusChem, 2016, 9, 186-196.	6.8	35
203	Degradation Mechanisms of the Graphite Electrode in C₆/LiFePO₄Batteries Unraveled by a Non-Destructive Approach. Journal of the Electrochemical Society, 2016, 163, A3016-A3021.	2.9	35
204	Counterâ€Intuitive Structural Instability Aroused by Transition Metal Migration in Polyanionic Sodium Ion Host. Advanced Energy Materials, 2021, 11, 2003256.	19.5	35
205	Fluorinated graphite nanosheets for ultrahigh-capacity lithium primary batteries. Rare Metals, 2021, 40, 1708-1718.	7.1	35
206	Solidâ€State NMR and MRI Spectroscopy for Li/Na Batteries: Materials, Interface, and In Situ Characterization. Advanced Materials, 2021, 33, e2005878.	21.0	35
207	Constructing a High-Energy and Durable Single-Crystal NCM811 Cathode for All-Solid-State Batteries by a Surface Engineering Strategy. ACS Applied Materials & Interfaces, 2021, 13, 41669-41679.	8.0	35
208	In situ IR spectroscopic characterization of surface oxide species on glassy carbon electrodes. Journal of Electroanalytical Chemistry, 1994, 364, 23-30.	3.8	34
209	The selective synthesis of single-crystalline CdS nanobelts and nanowires by thermal evaporation at lower temperature. Nanotechnology, 2006, 17, 1851-1857.	2.6	34
210	First-Principles Investigations on the Na₂MnPO₄F as a Cathode Material for Na-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A927-A932.	2.9	34
211	Electrochemical Behavior of Suberonitrile as a High-Potential Electrolyte Additive and Co-Solvent for Li[Li_{0.2}Mn_{0.56}Ni_{0.16}Co_{0.08}]O₂Cathode Material. Journal of the Electrochemical Society, 2015, 162, A774-A780.	2.9	34
212	Good practice guide for papers on batteries for the Journal of Power Sources. Journal of Power Sources, 2020, 452, 227824.	7.8	34
213	Controllable Synthesis and Growth Model of Amorphous Silicon Nanotubes with Periodically Dome-Shaped Interiors. Advanced Materials, 2006, 18, 228-234.	21.0	33
214	Effects of radio-frequency sputtering powers on the microstructures and electrochemical properties of LiCoO2 thin film electrodes. Journal of Power Sources, 2009, 189, 633-637.	7.8	33
215	Insights into the lithiation mechanism of CF_x by a joint high-resolution ¹⁹F NMR, in situ TEM and ⁷Li NMR approach. Journal of Materials Chemistry A, 2019, 7, 19793-19799.	10.3	33
216	Tuning Oxygen Redox Reaction through the Inductive Effect with Proton Insertion in Li-Rich Oxides. ACS Applied Materials & Interfaces, 2020, 12, 7277-7284.	8.0	33

#	Article	IF	Citations
217	Synthesis and Storage Performance of the Doped LiMn[sub 2]O[sub 4] Spinel. Journal of the Electrochemical Society, 2007, 154, A656.	2.9	32
218	Fluoroethylene Carbonate as an Electrolyte Additive for Improving the Performance of Mesocarbon Microbead Electrode. ECS Transactions, 2012, 41, 29-40.	0.5	32
219	Copper Phosphate as a Cathode Material for Rechargeable Li Batteries and Its Electrochemical Reaction Mechanism. Chemistry of Materials, 2015, 27, 5736-5744.	6.7	32
220	Identifying the anionic redox activity in cation-disordered Li_{1.25}Nb_{0.25}Fe_{0.50}O₂/C oxide cathodes for Li-ion batteries. Journal of Materials Chemistry A, 2020, 8, 5115-5127.	10.3	32
221	Synthesis, Structure, Electrochemical Mechanisms, and Atmospheric Stability of Mn-Based Layered Oxide Cathodes for Sodium Ion Batteries. Accounts of Materials Research, 2022, 3, 709-720.	11.7	32
222	Comparison of Electrochemical and Surface Properties of Bare and TiO[sub 2]-Coated LiNi[sub 0.8]Co[sub 0.2]O[sub 2] Electrodes. Journal of the Electrochemical Society, 2004, 151, A599.	2.9	31
223	Toward a stabilized lattice framework and surface structure of layered lithium-rich cathode materials with Ti modification. Physical Chemistry Chemical Physics, 2015, 17, 10151-10159.	2.8	31
224	The Roles of Sulfur-Containing Additives and Their Working Mechanism on the Temperature-Dependent Performances of Li-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A2792-A2800.	2.9	31
225	Elucidating and Mitigating the Degradation of Cationicâ€“Anionic Redox Processes in Li_{1.2}Mn_{0.4}Ti_{0.4}O₂ Cation-Disordered Cathode Materials. ACS Applied Materials & Interfaces, 2019, 11, 45674-45682.	8.0	31
226	High-Efficiency Lithium Metal Anode Enabled by a Concentrated/Fluorinated Ester Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 27794-27802.	8.0	31
227	A novel inorganic/organic composite membrane tailored by various organic silane coupling agents for use in direct methanol fuel cells. Journal of Power Sources, 2009, 187, 332-340.	7.8	30
228	Preparation and Catalytic Performances of a Molecularly Imprinted Ruâ€Complex Catalyst with an NH₂ Binding Site on a SiO₂ Surface. Chemistry - A European Journal, 2012, 18, 1142-1153.	3.3	30
229	Robust diamond-like Fe-Si network in the zero-strain Na FeSiO4 cathode. Electrochimica Acta, 2016, 212, 934-940.	5.2	30
230	Cu3(PO4)2/C composite as a high-capacity cathode material for rechargeable Na-ion batteries. Nano Energy, 2016, 27, 420-429.	16.0	30
231	Modeling the degradation mechanisms of C6/LiFePO4 batteries. Journal of Power Sources, 2018, 375, 106-117.	7.8	30
232	Scalable Engineering of Bulk Porous Si Anodes for High Initial Efficiency and High-Areal-Capacity Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 714-721.	8.0	30
233	SnSe2 nanocrystals coupled with hierarchical porous carbon microspheres for long-life sodium ion battery anode. Science China Materials, 2020, 63, 483-491.	6.3	30
234	A novel trimethylsilyl 2-(fluorosulfonyl)difluoroacetate additive for stabilizing the Ni-rich LiNi0.9Co0.05Mn0.05O2/electrolyte interface. Journal of Power Sources, 2021, 515, 230618.	7.8	30

#	Article	IF	Citations
235	Insights into the local structure, microstructure and ionic conductivity of silicon doped NASICON-type solid electrolyte Li1.3Al0.3Ti1.7P3O12. Energy Storage Materials, 2022, 44, 190-196.	18.0	30
236	Exploring the high-voltage Mg²⁺/Na⁺ co-intercalation reaction of Na₃VCr(PO₄)₃ in Mg-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18081-18091.	10.3	29
237	Impact of Structural Transformation on Electrochemical Performances of Li-Rich Cathode Materials: The Case of Li₂RuO₃. Journal of Physical Chemistry C, 2019, 123, 13491-13499.	3.1	29
238	Flexible free-standing sulfurized polyacrylonitrile electrode for stable Li/Na storage. Electrochimica Acta, 2020, 333, 135493.	5.2	29
239	Interfacial compatibility issues in rechargeable solid-state lithium metal batteries: a review. Science China Chemistry, 2021, 64, 879-898.	8.2	28
240	Spectroscopic and electrochemical characterization of the passive layer formed on lithium in gel polymer electrolytes containing propylene carbonate. Journal of Power Sources, 2007, 173, 531-537.	7.8	27
241	Insight into Ion Diffusion Dynamics/Mechanisms and Electronic Structure of Highly Conductive Sodium-Rich Na_{3+x}La_xZr_{2â€“x}Si₂PO₁₂ (0 â‰¤ x â‰¤ 0.5) Solid-State Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 13132-13138.	8.0	27
242	Enhanced Cyclability of Lithium Metal Anodes Enabled by Anti-aggregation of Lithiophilic Seeds. Nano Letters, 2022, 22, 5874-5882.	9.1	26
243	Enhanced electrochemical performance of fluorinated carbon nanotube as cathode for Liâ€“O2 primary batteries. Electrochimica Acta, 2013, 90, 186-193.	5.2	25
244	Carbon-coated Si micrometer particles binding to reduced graphene oxide for a stable high-capacity lithium-ion battery anode. Journal of Materials Chemistry A, 2016, 4, 17757-17763.	10.3	25
245	Promoting the performances of P2-type sodium layered cathode by inducing Na site rearrangement. Nano Energy, 2022, 100, 107482.	16.0	25
246	In situ photoelectrochemistry and Raman spectroscopic characterization on the surface oxide film of nickel electrode in 30wt.% KOH solution. Electrochimica Acta, 2006, 51, 4873-4879.	5.2	24
247	Photoinduced Reversible Structural Transformation and Selective Oxidation Catalysis of Unsaturated Ruthenium Complexes Supported on SiO₂. Angewandte Chemie - International Edition, 2008, 47, 9252-9255.	13.8	24
248	Preparation and electrochemical performance of manganese oxide/carbon nanotubes composite as a cathode for rechargeable lithium battery with high power density. Materials Letters, 2008, 62, 3388-3390.	2.6	24
249	Effects of Na-substitution on structural and electronic properties of Li2CoSiO4 cathode material. Transactions of Nonferrous Metals Society of China, 2009, 19, 182-186.	4.2	24
250	Nanoscale chemical imaging of the additive effects on the interfaces of high-voltage LiCoO₂ composite electrodes. Chemical Communications, 2017, 53, 8581-8584.	4.1	24
251	Double-shelled microscale porous Si anodes for stable lithium-ion batteries. Journal of Power Sources, 2019, 436, 226794.	7.8	24
252	State of health (SoH) estimation and degradation modes analysis of pouch NMC532/graphite Li-ion battery. Journal of Power Sources, 2021, 498, 229884.	7.8	24

#	Article	IF	Citations
253	In-situ dilatometric study of Metal/Si multilayer film electrodes. Thin Solid Films, 2010, 519, 778-783.	1.8	23
254	Novel 3.9 V Layered Na₃V₃(PO₄)₄ Cathode Material for Sodium Ion Batteries. ACS Applied Energy Materials, 2018, 1, 3603-3606.	5.1	23
255	Reduction of the Hysteresis Voltage in Atomicâ€Layerâ€Deposited pâ€Type SnO Thinâ€Film Transistors by Adopting an Al₂O₃ Interfacial Layer. Advanced Electronic Materials, 2019, 5, 1900371.	5.1	23
256	Controlling the Electrical Characteristics of ZrO₂/Al₂O₃/ZrO₂ Capacitors by Adopting a Ru Top Electrode Grown via Atomic Layer Deposition. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800454.	2.4	23
257	Bulk boron doping and surface carbon coating enabling fast-charging and stable Si anodes: from thin film to thick Si electrodes. Journal of Materials Chemistry A, 2021, 9, 3628-3636.	10.3	23
258	Kinetics of lithium dendrite growth in garnet-type solid electrolyte. Journal of Power Sources, 2021, 487, 229421.	7.8	23
259	Poly(ionic liquid)@PEGMA Block Polymer Initiated Microphase Separation Architecture in Poly(ethylene oxide)-Based Solid-State Polymer Electrolyte for Flexible and Self-Healing Lithium Batteries. ACS Sustainable Chemistry and Engineering, 2022, 10, 4173-4185.	6.7	23
260	Stable cycling and fast charging of high-voltage lithium metal batteries enabled by functional solvation chemistry. Chemical Engineering Journal, 2022, 442, 136351.	12.7	23
261	Addition of Sulfonic Acids to Terminal Alkynes Catalyzed by a Rhodium Complex: Ligand Concentrationâ€Controlled Reaction Selectivity. ChemCatChem, 2013, 5, 3005-3013.	3.7	22
262	Li[Li0.2Mn0.54Ni0.13Co0.13]O2â€“LiMn1.5Ti0.5O4 composite cathodes with improved electrochemical performance for lithium ion batteries. Electrochimica Acta, 2014, 133, 100-106.	5.2	22
263	Enhancing the energy density of safer Li-ion batteries by combining high-voltage lithium cobalt fluorophosphate cathodes and nanostructured titania anodes. Scientific Reports, 2016, 6, 20656.	3.3	22
264	Identifying the Structural Evolution of the Sodium Ion Battery Na₂FePO₄F Cathode. Angewandte Chemie, 2018, 130, 12094-12099.	2.0	22
265	Novel Ordered Rocksalt-Type Lithium-Rich Li₂Ru_{1â€“x}Ni_xO_{3â^'Î´} (0.3 â‰¤ x â‰¤ 0.5) Cathode Material with Tunable Anionic Redox Potential. ACS Applied Energy Materials, 2019, 2, 5933-5944.	5.1	22
266	Stabilizing the LiCoO₂ Interface at High Voltage with an Electrolyte Additive 2,4,6-Tris(4-fluorophenyl)boroxin. ACS Sustainable Chemistry and Engineering, 2021, 9, 15042-15052.	6.7	22
267	Facilitated Li⁺ion transfer across the water/1,2-dichloroethane interface by the solvation effect. Chemical Communications, 2014, 50, 1015-1017.	4.1	21
268	Ion diffusion mechanism in Pn Na_xLi_{2â^'x}MnSiO₄. CrystEngComm, 2015, 17, 2123-2128.	2.6	21
269	Sodium storage behavior of Na0.66Ni0.33Ë—xZnxMn0.67O2 (x = 0, 0.07 and 0.14) positive materials in diglyme-based electrolytes. Journal of Power Sources, 2018, 400, 317-324.	7.8	21
270	Li2S@NC composite enable high active material loading and high Li2S utilization for all-solid-state lithium sulfur batteries. Journal of Power Sources, 2020, 479, 228792.	7.8	21

#	Article	IF	Citations
271	Reversible Multi-Electron Storage Enabled by Na5V(PO4)2F2 for Rechargeable Magnesium Batteries. Energy Storage Materials, 2021, 38, 462-472.	18.0	21
272	Synthesis of Single Crystal LiNi_{0.92}Co_{0.06}Mn_{0.01}Al_{0.01}O₂ Cathode Materials with Superior Electrochemical Performance for Lithium Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 120514.	2.9	21
273	Boosting the Energy Density of Li||CF_x Primary Batteries Using a 1,3-Dimethyl-2-imidazolidinone-Based Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 57470-57480.	8.0	21
274	Effects of surface oxide species on the electropolymerization of o-aminophenol on pretreated glassy carbon electrodes. Synthetic Metals, 1996, 78, 111-115.	3.9	20
275	Non-Destructive Monitoring of Charge-Discharge Cycles on Lithium Ion Batteries using 7Li Stray-Field Imaging. Scientific Reports, 2013, 3, 2596.	3.3	20
276	A Versatile and Efficient Palladiumâ€“metaâ€Terarylphosphine Catalyst for the Copperâ€Free Sonogashira Coupling of (Heteroâ€)Aryl Chlorides and Alkynes. European Journal of Organic Chemistry, 2014, 2014, 7184-7192.	2.4	20
277	Palladium precatalysts containing meta-terarylphosphine ligands for expedient copper-free Sonogashira cross-coupling reactions. Catalysis Science and Technology, 2015, 5, 3501-3506.	4.1	20
278	Structural elucidation of supported Rh complexes derived from RhCl(PPh3)3 immobilized on surface-functionalized SBA-15 and their catalytic performance for C-heteroatom (S, O) bond formation. Journal of Catalysis, 2018, 365, 43-54.	6.2	20
279	O3-Type NaCrO₂ as a Superior Cathode Material for Sodium/Potassium-Ion Batteries Ensured by High Structural Reversibility. ACS Applied Materials & Interfaces, 2021, 13, 22635-22645.	8.0	20
280	Size-Dependent Chemomechanical Failure of Sulfide Solid Electrolyte Particles during Electrochemical Reaction with Lithium. Nano Letters, 2022, 22, 411-418.	9.1	20
281	Electrochemical behavior of copper current collector in imidazolium-based ionic liquid electrolytes. Journal of Applied Electrochemistry, 2010, 40, 653-662.	2.9	19
282	Mechanistic Insights and Implications of Dearomative Rearrangement in Copper-Free Sonogashira Cross-Coupling Catalyzed by Pd-Cy*Phine. Organometallics, 2016, 35, 1036-1045.	2.3	19
283	Fieldâ€Induced Ferroelectric Hf_{1â€}_xZr_xO₂ Thin Films for Highâ€k Dynamic Random Access Memory. Advanced Electronic Materials, 2020, 6, 2000631.	5.1	19
284	Advances in soft X-ray RIXS for studying redox reaction states in batteries. Dalton Transactions, 2020, 49, 13519-13527.	3.3	19
285	A facile synthesis of non-aqueous LiPO2F2 solution as the electrolyte additive for high performance lithium ion batteries. Chinese Chemical Letters, 2020, 31, 3209-3212.	9.0	19
286	Quantifying the reaction mechanisms of a high-capacity CuP₂/C composite anode for potassium ion batteries. Journal of Materials Chemistry A, 2021, 9, 6274-6283.	10.3	19
287	The photoelectrochemical behavior of polypyrrole films in non-aqueous solutions. Synthetic Metals, 1994, 64, 43-48.	3.9	18
288	Synergistically reinforced lithium storage performance of in situ chemically grown silicon@silicon oxide coreâ€“shell nanowires on three-dimensional conductive graphitic scaffolds. Journal of Materials Chemistry A, 2014, 2, 13859.	10.3	18

#	Article	IF	Citations
289	Thermodynamic scaling of glassy dynamics and dynamic heterogeneities in metallic glass-forming liquid. Journal of Chemical Physics, 2016, 145, 104503.	3.0	18
290	Enhanced Interfacial Stability of a LiNi_{0.9}Co_{0.05}Mn_{0.05}O₂ Cathode by a Diboron Additive. ACS Applied Energy Materials, 2021, 4, 11051-11061.	5.1	18
291	Fluorinated cyclic siloxane additives for high energy density Li-ion batteries with high nickel cathodes and siliconâ€“carbon anodes. Journal of Power Sources, 2021, 511, 230437.	7.8	18
292	Tuning interface stability of nickel-rich LiNi0.9Co0.05Mn0.05O2 cathode via a novel bis(vinylsulphonyl)methane additive. Journal of Power Sources, 2022, 521, 230917.	7.8	18
293	Regulating Interfacial Liâ€Ion Transport via an Integrated Corrugated 3D Skeleton in Solid Composite Electrolyte for Allâ€Solidâ€State Lithium Metal Batteries. Advanced Science, 2022, 9, e2104506.	11.2	18
294	Prospects for detecting metalâ€“adsorbate vibrations by sumâ€frequency spectroscopy. Catalysis Letters, 1999, 61, 7-13.	2.6	17
295	Spinel LiMn[sub 2â^'x]Ti[sub x]O[sub 4] (x=0.5,â€,0.8) with High Capacity and Enhanced Cycling Stability Synthesized by a Modified Sol-Gel Method. Electrochemical and Solid-State Letters, 2010, 13, A19.	2.2	17
296	In Situ Monitoring of Structural and Valence Evolution during Electrochemical Desodiation/Sodiation Process of Na₂Fe_{0.5}Mn_{0.5}PO₄F. Journal of the Electrochemical Society, 2017, 164, A3487-A3492.	2.9	17
297	Electrochemical investigation of multi-electron reactions in NaVOPO4 cathode for sodium-ion batteries. Electrochimica Acta, 2020, 351, 136454.	5.2	17
298	Guidelines for Air-Stable Lithium/Sodium Layered Oxide Cathodes. , 2022, 4, 1074-1086.		17
299	Highly reversible Li₂RuO₃ cathodes in sulfide-based all solid-state lithium batteries. Energy and Environmental Science, 2022, 15, 3470-3482.	30.8	17
300	Decarboxylative/Sonogashira-type cross-coupling using PdCl₂(Cy*Phine)₂. RSC Advances, 2016, 6, 72810-72814.	3.6	16
301	Exploring a Li-ion battery using surface modified titania nanotubes versus high voltage cathode nanowires. Journal of Power Sources, 2016, 303, 194-202.	7.8	16
302	Novel insights into higher capacity from the Li-ion battery cathode material Li 2 FeSiO 4. Electrochimica Acta, 2017, 223, 109-114.	5.2	16
303	Electrical Properties of ZrO₂/Al₂O₃/ZrO₂â€Based Capacitors with TiN, Ru, and TiN/Ru Top Electrode Materials. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800356.	2.4	16
304	Equilibrium crystal shape of GaAs and InAs considering surface vibration and new (111)B reconstruction: ab-initio thermodynamics. Scientific Reports, 2019, 9, 1127.	3.3	16
305	New Dimorphs of Na₅V(PO₄)₂F₂ as an Ultrastable Cathode Material for Sodium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 1181-1189.	5.1	16
306	Highly dispersed Ni₂P nanoparticles on N,P-codoped carbon for efficient cross-dehydrogenative coupling to access alkynyl thioethers. Green Chemistry, 2020, 22, 651-656.	9.0	16

#	Article	IF	Citations
307	Rh-catalyzed highly regioselective hydroformylation to linear aldehydes by employing porous organic polymer as a ligand. RSC Advances, 2020, 10, 29263-29267.	3.6	16
308	Anionic Redox Processes in Maricite- and Triphylite-NaFePO₄ of Sodium-Ion Batteries. ACS Omega, 2020, 5, 5192-5201.	3.5	16
309	Reversible potassium storage in ultrafine CF : A superior cathode material for potassium batteries and its mechanism. Journal of Energy Chemistry, 2021, 53, 347-353.	12.9	16
310	Unravelling the Fast Alkaliâ€Ion Dynamics in Paramagnetic Battery Materials Combined with NMR and Deepâ€Potential Molecular Dynamics Simulation. Angewandte Chemie - International Edition, 2021, 60, 12547-12553.	13.8	16
311	Raman spectroscopic study on the surface oxide layer of AB5-type metal hydride electrodes. Electrochimica Acta, 2001, 46, 1767-1772.	5.2	15
312	The effects of decomposition products of electrolytes on the thermal stability of bare and TiO2-coated delithiated Li1â^'xNi0.8Co0.2O2 cathode materials. Electrochimica Acta, 2006, 52, 1442-1450.	5.2	15
313	Increased Capacity of LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂â€“Li[Li_{1/3}Mn_{2/3}]O₂ Cathodes by MnO_xâ€surface Modification for Lithiumâ€Ion Batteries. Energy Technology, 2014, 2, 188-193.	3.8	15
314	Quantitative Analysis of the Incorporation Behaviors of Sr and Ti Atoms During the Atomic Layer Deposition of SrTiO₃ Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 8836-8844.	8.0	15
315	Capitalization of interfacial AlON interactions to achieve stable binder-free porous silicon/carbon anodes. Journal of Materials Chemistry A, 2018, 6, 7449-7456.	10.3	15
316	Mn⁴⁺-Substituted Li-Rich Li_{1.2}Mn_{0.4}³⁺Mn_x⁴⁺Ti_{0.4â€“x}O₂ Materials with High Energy Density. ACS Applied Materials & Interfaces, 2020, 12, 40347-40354.	8.0	15
317	Electrolyte Additive cis-1,2,3,6-Tetrahydrophthalic Anhydride Enhanced the Cycle Life of Nickel-Rich LiNi_{0.9}Co_{0.05}Mn_{0.05}O₂. ACS Applied Energy Materials, 2021, 4, 12275-12284.	5.1	15
318	Improving interfacial stability of high voltage LiCoO2-based cells with 4-methylmorpholine-2,6-dione additive. Journal of Power Sources, 2022, 524, 231049.	7.8	15
319	Sodium-Ion-Assisted Hydrothermal Synthesis of Î³-MnO[sub 2] and Its Electrochemical Performance. Journal of the Electrochemical Society, 2009, 156, A911.	2.9	14
320	A comparison of electrochemical performance of natural graphite sulfurized by ball-milling and heat-treating as an anode for lithium ion batteries. Electrochimica Acta, 2009, 54, 6792-6796.	5.2	14
321	Solid-state STRAFI NMR probe for material imaging of quadrupolar nuclei. Journal of Magnetic Resonance, 2012, 225, 93-101.	2.1	14
322	Understanding the structural and electronic properties of the cathode material NaFeF3 in a Na-ion battery. Journal of Solid State Electrochemistry, 2014, 18, 2071-2075.	2.5	14
323	Enhanced high temperature cycling performance of LiMn2O4/graphite cells with methylene methanedisulfonate (MMDS) as electrolyte additive and its acting mechanism. Journal of Energy Chemistry, 2014, 23, 383-390.	12.9	14
324	Enhanced ionic conductivity of Li3.5Si0.5P0.5O4 with addition of lithium borate. Solid State Ionics, 2015, 283, 109-114.	2.7	14

#	Article	IF	Citations
325	Surface reconstruction of InAs (001) depending on the pressure and temperature examined by density functional thermodynamics. Scientific Reports, 2017, 7, 10691.	3.3	14
326	Comprehensive Understanding of Reduction Mechanisms of Ethylene Sulfite in EC-Based Lithium-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 5871-5880.	3.1	14
327	Interfacial Enhancement of Silicon-Based Anode by a Lactam-Type Electrolyte Additive. ACS Applied Energy Materials, 2021, 4, 10323-10332.	5.1	14
328	Mechanistic Probing of Encapsulation and Confined Growth of Lithium Crystals in Carbonaceous Nanotubes. Advanced Materials, 2021, 33, e2105228.	21.0	14
329	A Cubic Mg2MnO4 Cathode for non-aqueous Magnesium Batteries. Energy Storage Materials, 2022, 48, 12-19.	18.0	14
330	Boosting high voltage cycling of LiCoO2 cathode via triisopropanolamine cyclic borate electrolyte additive. Journal of Power Sources, 2022, 532, 231372.	7.8	14
331	The effects of surface treatment on metal hydride electrodes using a weak acid solution containing Ni(II). Journal of Alloys and Compounds, 2001, 316, 131-136.	5.5	13
332	Iron-catalytic growth of prism-shaped single-crystal silicon nanowires by chemical vapor deposition of silane. Chemical Physics Letters, 2005, 411, 198-202.	2.6	13
333	The states of methanol within Nafion and sulfonated poly(phenylene ether ether sulfone) membranes. Journal of Membrane Science, 2013, 428, 212-217.	8.2	13
334	Structural heterogeneity and deformation rheology in metallic glasses. Science China Technological Sciences, 2015, 58, 47-55.	4.0	13
335	Low temperature growth of graphitic carbon on porous silicon for high-capacity lithium energy storage. Journal of Power Sources, 2020, 463, 228245.	7.8	13
336	Insights of the Electrochemical Reversibility of P2-Type Sodium Manganese Oxide Cathodes via Modulation of Transition Metal Vacancies. ACS Applied Materials & Interfaces, 2021, 13, 38305-38314.	8.0	13
337	Influence of surface pretreatment and chargeâ€“discharge mode on cycle performance of metal hydride electrodes. Journal of Power Sources, 1999, 79, 64-68.	7.8	12
338	Enhanced Electrochemical Performance of High-Energy Lithium-Sulfur Batteries Using an Electrolyte with 1,1,2,2-Tetrafluoro-3-(1,1,2,2-tetrafluoroethoxy)propane. Journal of the Electrochemical Society, 2018, 165, A1915-A1919.	2.9	12
339	Modification of NASICON Electrolyte and Its Application in Real Na-Ion Cells. Engineering, 2022, 8, 170-180.	6.7	12
340	Hydrothermal Synthesis and Electrochemical Performance of Li[sub 1.59]H[sub 0.41]MnO[sub 3] as a Cathode Material for Lithium-Ion Battery. Electrochemical and Solid-State Letters, 2008, 11, A163.	2.2	11
341	Titanium phosphates as positive electrode in lithium-ion batteries: composition, phase purity and electrochemical performance. Journal of Solid State Electrochemistry, 2012, 16, 1461-1471.	2.5	11
342	Rate Dependence of Serrated Flow and Its Effect on Shear Stability of Bulk Metallic Glasses. Journal of Iron and Steel Research International, 2016, 23, 24-30.	2.8	11

#	Article	IF	Citations
343	NiSi_x/a-Si Nanowires with Interfacial a-Ge as Anodes for High-Rate Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 673-679.	8.0	11
344	Initial Stages of Oxidation Reactions of Ethylene Carbonate and Fluoroethylene Carbonate on Li_xCoO₂ Surfaces: A DFT Study. Journal of the Electrochemical Society, 2021, 168, 050505.	2.9	11
345	Tailoring the redox-active transition metal content to enhance cycling stability in cation-disordered rock-salt oxides. Energy Storage Materials, 2021, 43, 275-283.	18.0	11
346	Preparation and electrochemical properties of Co3O4-coated layered manganese oxide by a novel coating method. Journal of Solid State Electrochemistry, 2009, 13, 697-703.	2.5	10
347	Suppression of voltage-decay in Li₂MnO₃ cathode via reconstruction of layered-spinel coexisting phases. Journal of Materials Chemistry A, 2020, 8, 18687-18697.	10.3	10
348	Highly-efficient conversion of SF6 via an eight-electron transfer process in lithium batteries. Nano Energy, 2020, 72, 104679.	16.0	10
349	â€œSeries and parallelâ€•design of ether linkage and imidazolium cation synergistically regulated four-armed polymerized ionic liquid for all-solid-state polymer electrolyte. Chinese Chemical Letters, 2022, 33, 1407-1411.	9.0	10
350	Exploring hybrid Mg2+/H+ reactions of C@MgMnSiO4 with boosted voltage in magnesium-ion batteries. Electrochimica Acta, 2022, 404, 139738.	5.2	10
351	Dictating the interfacial stability of nickel-rich LiNi0.90Co0.05Mn0.05O2 via a diazacyclo electrolyte additive â€“ 2-Fluoropyrazine. Journal of Colloid and Interface Science, 2022, 618, 431-441.	9.4	10
352	A machine learning protocol for revealing ion transport mechanisms from dynamic NMR shifts in paramagnetic battery materials. Chemical Science, 2022, 13, 7863-7872.	7.4	10
353	Performance and characterization of metal hydride electrodes in nickel/metal hydride batteries. Journal of Power Sources, 1997, 65, 15-21.	7.8	9
354	Comparative investigation on the properties of carbon-supported cobalt-polypyrrole pyrolyzed at various conditions as electrocatalyst towards oxygen reduction reaction. International Journal of Hydrogen Energy, 2014, 39, 15937-15947.	7.1	9
355	Scaling the Equivalent Oxide Thickness by Employing a TiO₂ Thin Film on a ZrO₂â€“Al₂O₃â€Based Dielectric for Further Scaling of Dynamic Random Access Memory. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900282.	2.4	9
356	P2â€Na 0.67 Al x Mn 1â^' x O 2 : Costâ€Effective, Stable and Highâ€Rate Sodium Electrodes by Suppressing Phase Transitions and Enhancing Sodium Cation Mobility. Angewandte Chemie, 2019, 131, 18254-18263.	2.0	9
357	Compatibility of Various Electrolytes with Cation Disordered Rocksalt Cathodes in Lithium Ion Batteries. ACS Applied Energy Materials, 2021, 4, 10909-10920.	5.1	9
358	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.	6.7	9
359	Investigations of the pitting corrosion behavior of passive film on REBAR electrodes containing â€˜artificial pitâ€™ in simulated cement solutions. Applied Surface Science, 1996, 103, 189-197.	6.1	8
360	Recycle and recovery of rhodium complexes with water-soluble and amphiphilic phosphines in ionic liquids for hydroformylation of 1-hexene. Reaction Kinetics and Catalysis Letters, 2007, 90, 53-60.	0.6	8

#	Article	IF	Citations
361	Structural stability and electronic properties of LiNiN. Solid State Communications, 2010, 150, 669-674.	1.9	8
362	Sulfoxidation on a SiO2-supported Ru complex using O2/aldehyde system. Dalton Transactions, 2012, 41, 4558.	3.3	8
363	First-Principles Investigation on the Lithium Ion Insertion/Extraction in Trirutile LixFeF3. Electrochemistry, 2013, 81, 12-15.	1.4	8
364	Soft-Mode Parameter as an Indicator for the Activation Energy Spectra in Metallic Glass. Journal of Physical Chemistry Letters, 2020, 11, 2781-2787.	4.6	8
365	Uniformity of Flat Li-Ion Batteries Studied by Diffraction and Imaging of X-rays and Neutrons. ACS Applied Energy Materials, 2021, 4, 3110-3117.	5.1	8
366	Effects of composition on electrochemical properties of a non-precious metal catalyst towards oxygen reduction reaction. International Journal of Hydrogen Energy, 2014, 39, 16006-16014.	7.1	7
367	Insights into the Electrochemical Reaction Mechanism of a Novel Cathode Material CuNi₂(PO₄)₂/C for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 3522-3529.	8.0	7
368	Recognition of V3+/V4+/V5+ Multielectron Reactions in Na3V(PO4)2: A Potential High Energy Density Cathode for Sodium-Ion Batteries. Molecules, 2020, 25, 1000.	3.8	7
369	Formulating a New Electrolyte: Synergy between Low-Polar and Non-polar Solvents in Tailoring the Solid Electrolyte Interface for the Silicon Anode. ACS Applied Materials & Interfaces, 2021, 13, 55700-55711.	8.0	7
370	Mitigating the Surface Reconstruction of Ni-Rich Cathode via P2-Type Mn-Rich Oxide Coating for Durable Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 30398-30409.	8.0	7
371	An Approach to Probe Solid Electrolyte Interface on Si Anode by 31P MAS NMR. ECS Electrochemistry Letters, 2013, 2, A115-A117.	1.9	6
372	(Invited) Electron Tunneling Based SEI Formation Model. ECS Transactions, 2014, 62, 1-8.	0.5	6
373	Critical Shear Offset of Fracture in a Zr-based Metallic Glass. Journal of Iron and Steel Research International, 2016, 23, 53-56.	2.8	6
374	Understanding the effect of Nb substitution on Li-Mn-rich layered oxides. Electrochimica Acta, 2021, 390, 138801.	5.2	5
375	In Situ Construction of a LiF-Enriched Interfacial Modification Layer for Stable All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2022, 14, 29878-29885.	8.0	5
376	Ab initio study on the Li deintercalation in ternary lithium nitridocuprate Li2.5Cu0.5N. Electrochimica Acta, 2008, 53, 7915-7920.	5.2	4
377	A Case Study of Stereoisomerism with [6]Cyclo[4]helicenylenes. Chemistry Letters, 2021, 50, 110-112.	1.3	4
378	The origins of kinetics hysteresis and irreversibility of monoclinic Li3V2(PO4)3. Journal of Energy Chemistry, 2022, 67, 593-603.	12.9	4

#	Article	IF	Citations
379	The Contrasting Impacts of the Al₂O₃ and Y₂O₃ Insertion Layers on the Crystallization of ZrO₂ Films for Dynamic Random Access Memory Capacitors. Advanced Electronic Materials, 2022, 8, .	5.1	4
380	Room Temperature Ionic Liquid as Electrolyte for Lithium-Ion Battery. ECS Transactions, 2013, 50, 57-68.	0.5	3
381	Preparation of LiCoMnO₄ Assisted by Hydrothermal Approach and its Electrochemical Performance. American Journal of Engineering and Applied Sciences, 2016, 9, 396-405.	0.6	3
382	Synthesis and stereoisomerism of [n]cyclo-2,9-phenanthrenylene congeners possessing alternating E/Z- and R/S-biaryl linkages. Organic and Biomolecular Chemistry, 2020, 18, 4949-4955.	2.8	3
383	Ab initio calculations on the electronic structures and electrochemical properties of LiVO2 and NaVO2. Journal of Solid State Chemistry, 2020, 288, 121383.	2.9	3
384	Modification and regulation of electrode/electrolyte interface for high specific energy and long life lithium ion batteries. Chinese Science Bulletin, 2021, 66, 1170-1186.	0.7	3
385	<italic>In situ</italic> XRD and solid state NMR characterization of Na₃V₂(PO<sub>4</sub as cathode material for lithium-ion batteries. Scientia Sinica Chimica, 2012, 42, 38-46.	0.7	3
386	Recent progress in several cathode materials for Li-ion batteries. Chinese Science Bulletin, 2012, 57, 2570-2586.	0.7	3
387	Research Progresses of Sodium Cobalt Oxide as Cathode in Sodium Ion Batteries. Acta Chimica Sinica, 2021, 79, 1232.	1.4	3
388	Enhancing the Reduction Kinetics of Liï£¿SF₆ Batteries by Dispersed Cobalt Phthalocyanines on Porous Carbon. Small, 2021, 17, e2103778.	10.0	3
389	Temperature-dependence of calcination processes of Ni-rich layered oxides. Journal of Power Sources, 2022, 529, 231258.	7.8	3
390	The Catalyst-Assisted Synthesis of High Quality CdS Single-Crystal Nanowires Through an Epitaxy Mechanism. Journal of Nanoscience and Nanotechnology, 2007, 7, 3152-3156.	0.9	2
391	Comparative study on the electronic structures and redox reactions in LiCrX₂ and NaCrX₂ (X = O and S). RSC Advances, 2019, 9, 36867-36874.	3.6	2
392	Improved Capacity Retention for a Disordered Rocksalt Cathode via Solvate Ionic Liquid Electrolytes. Batteries and Supercaps, 0, , .	4.7	2
393	Formation energies of lithium intercalations in AlSb, GaSb and InSb. PhysChemComm, 2003, 6, 47.	0.8	1
394	Composite Materials: Threeâ€Dimensional Compressible and Stretchable Conductive Composites (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10	21.0	1
395	Observation of Solid-Liquid Interfacial Reactions Controlled Bulk Phase Transition of Ni-rich Layered Cathode. Microscopy and Microanalysis, 2018, 24, 1522-1523.	0.4	1
396	Synthesis and Electrochemical Performance of Lithium Rich Cathode Materials xLi3NbO4Â·(1-x)LiMO2 (M=Mn, Co; 0 x 1) for Li-ion Batteries. Acta Chimica Sinica, 2017, 75, 212.	1.4	1

#	Article	IF	Citations
397	Combining NMR and molecular dynamics simulations for revealing the alkali-ion transport in solid-state battery materials. Current Opinion in Electrochemistry, 2022, 35, 101048.	4.8	1
398	Scanned laser spot photocurrent response studies of surface modifications of CdSe thin film electrodes. Applied Surface Science, 1995, 90, 321-324.	6.1	0
399	Graphene-Encapsulated Nanosheet-Assembled Zinc-Nickel-Cobalt Oxide Microspheres for Enhanced Lithium Storage. ChemSusChem, 2016, 9, 128-128.	6.8	0
400	Unravelling the Fast Alkaliâ€Ion Dynamics in Paramagnetic Battery Materials Combined with NMR and Deepâ€Potential Molecular Dynamics Simulation. Angewandte Chemie, 2021, 133, 12655-12661.	2.0	0