Xinping Ai

List of Publications by Year in descending order

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163	17,552	11651	14208
papers	citations	70 h-index	128 g-index

167	167	167	12261
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Manipulating Adsorptionâ€“Insertion Mechanisms in Nanostructured Carbon Materials for Highâ€Efficiency Sodium Ion Storage. Advanced Energy Materials, 2017, 7, 1700403.	19.5	662
2	High capacity Na-storage and superior cyclability of nanocomposite Sb/C anode for Na-ion batteries. Chemical Communications, 2012, 48, 7070.	4.1	622
3	Sbâ€“C nanofibers with long cycle life as an anode material for high-performance sodium-ion batteries. Energy and Environmental Science, 2014, 7, 323-328.	30.8	594
4	High Capacity and Rate Capability of Amorphous Phosphorus for Sodium Ion Batteries. Angewandte Chemie - International Edition, 2013, 52, 4633-4636.	13.8	588
5	Non-flammable electrolytes with high salt-to-solvent ratios for Li-ion and Li-metal batteries. Nature Energy, 2018, 3, 674-681.	39.5	557
6	Prussian Blue Cathode Materials for Sodiumâ€Ion Batteries and Other Ion Batteries. Advanced Energy Materials, 2018, 8, 1702619.	19.5	460
7	Hierarchical Carbon Framework Wrapped Na₃V₂(PO₄)₃ as a Superior Highâ€Rate and Extended Lifespan Cathode for Sodiumâ€Ion Batteries. Advanced Materials, 2015, 27, 5895-5900.	21.0	448
8	Lowâ€Defect and Lowâ€Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. Advanced Energy Materials, 2018, 8, 1703238.	19.5	414
9	Synergistic Na-Storage Reactions in Sn₄P₃ as a High-Capacity, Cycle-stable Anode of Na-Ion Batteries. Nano Letters, 2014, 14, 1865-1869.	9.1	379
10	Highly Crystallized Na₂CoFe(CN)₆ with Suppressed Lattice Defects as Superior Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 5393-5399.	8.0	334
11	Single-crystal FeFe(CN)6 nanoparticles: a high capacity and high rate cathode for Na-ion batteries. Journal of Materials Chemistry A, 2013, 1, 10130.	10.3	295
12	A low-cost and environmentally benign aqueous rechargeable sodium-ion battery based on NaTi2(PO4)3â€“Na2NiFe(CN)6 intercalation chemistry. Electrochemistry Communications, 2013, 31, 145-148.	4.7	289
13	Phosphate Framework Electrode Materials for Sodium Ion Batteries. Advanced Science, 2017, 4, 1600392.	11.2	275
14	A 2D porous porphyrin-based covalent organic framework for sulfur storage in lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 7416-7421.	10.3	267
15	Nanosized Na₄Fe(CN)₆/C Composite as a Lowâ€Cost and Highâ€Rate Cathode Material for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2012, 2, 410-414.	19.5	257
16	Recent Progress in Rechargeable Sodiumâ€Ion Batteries: toward Highâ€Power Applications. Small, 2019, 15, e1805427.	10.0	254
17	A Honeycombâ€Layered Na₃Ni₂SbO₆: A Highâ€Rate and Cycleâ€Stable Cathode for Sodiumâ€Ion Batteries. Advanced Materials, 2014, 26, 6301-6306.	21.0	252
18	3D Graphene Decorated NaTi₂(PO₄)₃ Microspheres as a Superior Highâ€Rate and Ultracycleâ€Stable Anode Material for Sodium Ion Batteries. Advanced Energy Materials, 2016, 6, 1502197.	19.5	251

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19	Synthesis and electrochemical behaviors of layered Na0.67[Mn0.65Co0.2Ni0.15]O2 microflakes as a stable cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3895.	10.3	244
20	Aligning academia and industry for unified battery performance metrics. Nature Communications, 2018, 9, 5262.	12.8	244
21	Mesoporous Amorphous FePO₄Nanospheres as High-Performance Cathode Material for Sodium-Ion Batteries. Nano Letters, 2014, 14, 3539-3543.	9.1	239
22	In Situ Generation of Fewâ€Layer Graphene Coatings on SnO₂â€SiC Coreâ€Shell Nanoparticles for Highâ€Performance Lithiumâ€Ion Storage. Advanced Energy Materials, 2012, 2, 95-102.	19.5	233
23	Covalent-organic frameworks: potential host materials for sulfur impregnation in lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 8854-8858.	10.3	229
24	Recent Advances in Sodium-Ion Battery Materials. Electrochemical Energy Reviews, 2018, 1, 294-323.	25.5	224
25	Enhanced high-rate capability and cycling stability of Na-stabilized layered Li1.2[Co0.13Ni0.13Mn0.54]O2 cathode material. Journal of Materials Chemistry A, 2013, 1, 11397.	10.3	219
26	TiO2 ceramic-grafted polyethylene separators for enhanced thermostability and electrochemical performance of lithium-ion batteries. Journal of Membrane Science, 2016, 504, 97-103.	8.2	161
27	Graphene-Scaffolded Na₃V₂(PO₄)₃ Microsphere Cathode with High Rate Capability and Cycling Stability for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 7177-7184.	8.0	156
28	Effective Chemical Prelithiation Strategy for Building a Silicon/Sulfur Li-Ion Battery. ACS Energy Letters, 2019, 4, 1717-1724.	17.4	151
29	Stable Li Metal Anode with â€œIonâ€“Solvent-Coordinatedâ€•Nonflammable Electrolyte for Safe Li Metal Batteries. ACS Energy Letters, 2019, 4, 483-488.	17.4	148
30	Recent Progress in Ironâ€Based Electrode Materials for Gridâ€Scale Sodiumâ€Ion Batteries. Small, 2018, 14, 1703116.	10.0	146
31	Chemically Prelithiated Hardâ€Carbon Anode for High Power and High Capacity Liâ€Ion Batteries. Small, 2020, 16, e1907602.	10.0	144
32	A tin(<scp>ii</scp>) sulfideâ€“carbon anode material based on combined conversion and alloying reactions for sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 16424-16428.	10.3	142
33	High-Performance Olivine NaFePO₄ Microsphere Cathode Synthesized by Aqueous Electrochemical Displacement Method for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 17977-17984.	8.0	141
34	A Fully Sodiated NaVOPO4 with Layered Structure for High-Voltage and Long-Lifespan Sodium-Ion Batteries. CheM, 2018, 4, 1167-1180.	11.7	140
35	Dendrite-free lithium deposition by coating a lithiophilic heterogeneous metal layer on lithium metal anode. Energy Storage Materials, 2020, 24, 635-643.	18.0	139
36	3D graphene decorated Na4Fe3(PO4)2(P2O7) microspheres as low-cost and high-performance cathode materials for sodium-ion batteries. Nano Energy, 2019, 56, 160-168.	16.0	134

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37	A Snâ€“SnSâ€“C nanocomposite as anode host materials for Na-ion batteries. Journal of Materials Chemistry A, 2013, 1, 7181.	10.3	130
38	Sulfur/carbon nanocomposite-filled polyacrylonitrile nanofibers as a long life and high capacity cathode for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 7406-7412.	10.3	130
39	Electrochemical behavior of biphenyl as polymerizable additive for overcharge protection of lithium ion batteries. Electrochimica Acta, 2004, 49, 4189-4196.	5.2	128
40	Redoxâ€Active Fe(CN)₆^{4â^’}â€Doped Conducting Polymers with Greatly Enhanced Capacity as Cathode Materials for Liâ€Ion Batteries. Advanced Materials, 2011, 23, 4913-4917.	21.0	128
41	Electrospun TiO₂/C Nanofibers As a High-Capacity and Cycle-Stable Anode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 16684-16689.	8.0	121
42	An Overall Understanding of Sodium Storage Behaviors in Hard Carbons by an â€œAdsorptionâ€Intercalation/Fillingâ€•Hybrid Mechanism. Advanced Energy Materials, 2022, 12, .	19.5	121
43	A Highly Thermostable Ceramic-Grafted Microporous Polyethylene Separator for Safer Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 24119-24126.	8.0	119
44	A Safer Sodiumâ€Ion Battery Based on Nonflammable Organic Phosphate Electrolyte. Advanced Science, 2016, 3, 1600066.	11.2	116
45	Suppression of Dendritic Lithium Growth by in Situ Formation of a Chemically Stable and Mechanically Strong Solid Electrolyte Interphase. ACS Applied Materials & Interfaces, 2018, 10, 593-601.	8.0	116
46	Low Defect FeFe(CN)₆ Framework as Stable Host Material for High Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23706-23712.	8.0	115
47	Achieving Desirable Initial Coulombic Efficiencies and Full Capacity Utilization of Liâ€Ion Batteries by Chemical Prelithiation of Graphite Anode. Advanced Functional Materials, 2021, 31, 2101181.	14.9	115
48	Na4Fe3(PO4)2P2O7/C nanospheres as low-cost, high-performance cathode material for sodium-ion batteries. Energy Storage Materials, 2019, 22, 330-336.	18.0	111
49	Ultralowâ€Strain Znâ€Substituted Layered Oxide Cathode with Suppressed P2â€“O2 Transition for Stable Sodium Ion Storage. Advanced Functional Materials, 2020, 30, 1910327.	14.9	110
50	Engineering Al2O3 atomic layer deposition: Enhanced hard carbon-electrolyte interface towards practical sodium ion batteries. Nano Energy, 2019, 64, 103903.	16.0	105
51	Electrochemical properties and morphological evolution of pitaya-like Sb@C microspheres as high-performance anode for sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 5708-5713.	10.3	104
52	Hierarchical porous Li2FeSiO4/C composite with 2 Li storage capacity and long cycle stability for advanced Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 4988.	10.3	103
53	Green Synthesis and Stable Li-Storage Performance of FeSi₂/Si@C Nanocomposite for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 3753-3758.	8.0	102
54	Suppressing Voltage Fading of Liâ€Rich Oxide Cathode via Building a Wellâ€Protected and Partiallyâ€Protonated Surface by Polyacrylic Acid Binder for Cycleâ€Stable Liâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1904264.	19.5	101

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55	Novel Ceramic-Grafted Separator with Highly Thermal Stability for Safe Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 25970-25975.	8.0	100
56	A Li+-conductive microporous carbonâ€“sulfur composite for Li-S batteries. Electrochimica Acta, 2013, 87, 497-502.	5.2	99
57	Chemically Presodiated Hard Carbon Anodes with Enhanced Initial Coulombic Efficiencies for High-Energy Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 17620-17627.	8.0	95
58	SiCâ€“Sbâ€“C nanocomposites as high-capacity and cycling-stable anode for sodium-ion batteries. Electrochimica Acta, 2013, 87, 41-45.	5.2	92
59	A Nonflammable Na⁺â€Based Dualâ€Carbon Battery with Lowâ€Cost, High Voltage, and Long Cycle Life. Advanced Energy Materials, 2018, 8, 1802176.	19.5	90
60	Self-doped polypyrrole with ionizable sodium sulfonate as a renewable cathode material for sodium ion batteries. Chemical Communications, 2013, 49, 11370.	4.1	89
61	Dual Coreâ€“Shell Structured Si@SiO_x@C Nanocomposite Synthesized via a One-Step Pyrolysis Method as a Highly Stable Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 31611-31616.	8.0	88
62	Surface-Modified Graphite as an Improved Intercalating Anode for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2003, 6, A30.	2.2	86
63	Surface-oriented and nanoflake-stacked LiNi0.5Mn1.5O4 spinel for high-rate and long-cycle-life lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 17768.	6.7	86
64	Li⁺-Conductive Polymer-Embedded Nano-Si Particles as Anode Material for Advanced Li-ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 3508-3512.	8.0	83
65	A Highâ€Performance Liâ€“Mnâ€“O Liâ€rich Cathode Material with Rhombohedral Symmetry via Intralayer Li/Mn Disordering. Advanced Materials, 2020, 32, e2000190.	21.0	83
66	Understanding of the sodium storage mechanism in hard carbon anodes. , 2022, 4, 1133-1150.		83
67	A type of sodium-ion full-cell with a layered NaNi_{0.5}Ti_{0.5}O₂ cathode and a pre-sodiated hard carbon anode. RSC Advances, 2015, 5, 106519-106522.	3.6	82
68	Grapheneâ€Wrapped Na₂C₁₂H₆O₄ Nanoflowers as High Performance Anodes for Sodiumâ€ion Batteries. Small, 2016, 12, 583-587.	10.0	82
69	Enabling an intrinsically safe and highâ€energyâ€density 4.5 Vâ€class Liâ€ion battery with nonflammable electrolyte. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 984-992.	17.3	81
70	Electroactive organic anionâ€doped polypyrrole as a low cost and renewable cathode for sodiumâ€ion batteries. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 114-118.	2.1	76
71	Mesoporous Silica Reinforced Hybrid Polymer Artificial Layer for High-Energy and Long-Cycling Lithium Metal Batteries. ACS Energy Letters, 2020, 5, 1644-1652.	17.4	74
72	Graphene-supported TiO₂ nanospheres as a high-capacity and long-cycle life anode for sodium ion batteries. Journal of Materials Chemistry A, 2016, 4, 11351-11356.	10.3	72

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73	An electrochemically compatible and flame-retardant electrolyte additive for safe lithium ion batteries. Journal of Power Sources, 2013, 227, 106-110.	7.8	71
74	A novel bifunctional thermo-sensitive poly(lactic acid)@poly(butylene succinate) coreâ€“shell fibrous separator prepared by a coaxial electrospinning route for safe lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23238-23242.	10.3	70
75	Antimony Nanocrystals Encapsulated in Carbon Microspheres Synthesized by a Facile Self-Catalyzing Solvothermal Method for High-Performance Sodium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2016, 8, 1337-1343.	8.0	69
76	Yolkâ€“Shell TiO₂@C Nanocomposite as High-Performance Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 345-353.	8.0	69
77	Sulfurâ€Based Electrodes that Function via Multielectron Reactions for Roomâ€Temperature Sodiumâ€Ion Storage. Angewandte Chemie - International Edition, 2019, 58, 18324-18337.	13.8	69
78	Building thermally stable Li-ion batteries using a temperature-responsive cathode. Journal of Materials Chemistry A, 2016, 4, 11239-11246.	10.3	68
79	Ethylene Carbonateâ€Free Propylene Carbonateâ€Based Electrolytes with Excellent Electrochemical Compatibility for Liâ€Ion Batteries through Engineering Electrolyte Solvation Structure. Advanced Energy Materials, 2021, 11, 2003905.	19.5	68
80	A low-defect and Na-enriched Prussian blue lattice with ultralong cycle life for sodium-ion battery cathode. Electrochimica Acta, 2020, 332, 135533.	5.2	67
81	Tunable Electrocatalytic Behavior of Sodiated MoS₂ Active Sites toward Efficient Sulfur Redox Reactions in Roomâ€Temperature Naâ€“S Batteries. Advanced Materials, 2021, 33, e2100229.	21.0	66
82	Fe(CN)6â¾4-doped polypyrrole: a high-capacity and high-rate cathode material for sodium-ion batteries. RSC Advances, 2012, 2, 5495.	3.6	64
83	Symmetric Sodium-Ion Capacitor Based on Na_{0.44}MnO₂ Nanorods for Low-Cost and High-Performance Energy Storage. ACS Applied Materials & Interfaces, 2018, 10, 11689-11698.	8.0	62
84	Temperature-responsive microspheres-coated separator for thermal shutdown protection of lithium ion batteries. RSC Advances, 2015, 5, 172-176.	3.6	61
85	Facile synthesis and stable lithium storage performances of Sn- sandwiched nanoparticles as a high capacity anode material for rechargeable Li batteries. Journal of Materials Chemistry, 2010, 20, 7266.	6.7	60
86	Highly Selective and Pollutionâ€Free Electrochemical Extraction of Lithium by a Polyaniline/Li_xMn₂O₄ Cell. ChemSusChem, 2019, 12, 1361-1367.	6.8	60
87	Designing Advanced Electrolytes for Lithium Secondary Batteries Based on the Coordination Number Rule. ACS Energy Letters, 2021, 6, 4282-4290.	17.4	60
88	Electrolytes for Dualâ€Carbon Batteries. ChemElectroChem, 2019, 6, 2615-2629.	3.4	59
89	A polyethylene microsphere-coated separator with rapid thermal shutdown function for lithium-ion batteries. Journal of Energy Chemistry, 2020, 44, 33-40.	12.9	59
90	High Rate, Long Lifespan LiV₃O₈ Nanorods as a Cathode Material for Lithiumâ€Ion Batteries. Small, 2017, 13, 1603148.	10.0	57

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91	Covalently Bonded Silicon/Carbon Nanocomposites as Cycle-Stable Anodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 16411-16416.	8.0	55
92	Building a cycle-stable sulphur cathode by tailoring its redox reaction into a solid-phase conversion mechanism. Journal of Materials Chemistry A, 2018, 6, 23396-23407.	10.3	52
93	High Capacity and Cycle-Stable Hard Carbon Anode for Nonflammable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 38141-38150.	8.0	51
94	In Situ Formation of Co₉S₈ Nanoclusters in Sulfur-Doped Carbon Foam as a Sustainable and High-Rate Sodium-Ion Anode. ACS Applied Materials & Interfaces, 2019, 11, 19218-19226.	8.0	51
95	Novel Alkaline Zn/Na_{0.44}MnO₂ Dual-Ion Battery with a High Capacity and Long Cycle Lifespan. ACS Applied Materials & Interfaces, 2018, 10, 34108-34115.	8.0	50
96	MicrostructureâEĐependent Charge/Discharge Behaviors of Hollow Carbon Spheres and its Implication for Sodium Storage Mechanism on Hard Carbon Anodes. Small, 2021, 17, e2102248.	10.0	50
97	Bis(2,2,2-trifluoroethyl) methylphosphonate: An Novel Flame-retardant Additive for Safe Lithium-ion Battery. Electrochimica Acta, 2014, 129, 300-304.	5.2	46
98	An all-vanadium aqueous lithium ion battery with high energy density and long lifespan. Energy Storage Materials, 2019, 18, 92-99.	18.0	44
99	Understanding Voltage Decay in Lithium-Rich Manganese-Based Layered Cathode Materials by Limiting Cutoff Voltage. ACS Applied Materials & Interfaces, 2016, 8, 18867-18877.	8.0	43
100	A high voltage cathode of Na_{2+2x}Fe_{2â"x}(SO₄)₃intensively protected by nitrogen-doped graphene with improved electrochemical performance of sodium storage. Journal of Materials Chemistry A, 2018, 6, 4354-4364.	10.3	43
101	A Bifunctional Fluorophosphate Electrolyte for Safer Sodium-Ion Batteries. IScience, 2018, 10, 114-122.	4.1	43
102	GrapheneâEModified TiO₂ Microspheres Synthesized by a Facile SprayâEDrying Route for Enhanced SodiumâEIon Storage. Particle and Particle Systems Characterization, 2016, 33, 545-552.	2.3	42
103	A temperature-sensitive poly(3-octylpyrrole)/carbon composite as a conductive matrix of cathodes for building safer Li-ion batteries. Energy Storage Materials, 2019, 17, 275-283.	18.0	42
104	Direct Regeneration of Spent Li-Ion Battery Cathodes via Chemical Relithiation Reaction. ACS Sustainable Chemistry and Engineering, 2021, 9, 16384-16393.	6.7	42
105	An electrolyte additive for thermal shutdown protection of Li-ion batteries. Electrochemistry Communications, 2012, 25, 98-100.	4.7	40
106	Understanding the Electrochemical Compatibility and Reaction Mechanism on Na Metal and Hard Carbon Anodes of PC-Based Electrolytes for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 39651-39660.	8.0	40
107	High-Safety Symmetric Sodium-Ion Batteries Based on Nonflammable Phosphate Electrolyte and Double Na₃V₂(PO₄)₃ Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 27833-27838.	8.0	40
108	Hollow carbon nanofibers as high-performance anode materials for sodium-ion batteries. Nanoscale, 2019, 11, 21999-22005.	5.6	39

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109	Highly Electrochemicallyâ€Reversible Mesoporous Na₂FePO₄F/C as Cathode Material for Highâ€Performance Sodiumâ€Ion Batteries. Small, 2019, 15, e1903723.	10.0	38
110	An Al-doped high voltage cathode of Na₄Co₃(PO₄)₂P₂O₇ enabling highly stable 4 V full sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18940-18949.	10.3	37
111	An All-Phosphate and Zero-Strain Sodium-Ion Battery Based on Na₃V₂(PO₄)₃ Cathode, NaTi₂(PO₄)₃ Anode, and Trimethyl Phosphate Electrolyte with Intrinsic Safety and Long Lifespan. ACS Applied Materials & Interfaces, 2017, 9, 43733-43738.	8.0	36
112	Chemically presodiated Sb with a fluoride-rich interphase as a cycle-stable anode for high-energy sodium ion batteries. Journal of Materials Chemistry A, 2021, 9, 5639-5647.	10.3	36
113	Metal/<scp>covalentâ€organic</scp> frameworks for electrochemical energy storage applications. EcoMat, 2021, 3, e12133.	11.9	36
114	Facile and reversible digestion and regeneration of zirconium-based metal-organic frameworks. Communications Chemistry, 2020, 3, .	4.5	35
115	Exfoliation of MoS₂ Nanosheets Enabled by a Redox-Potential-Matched Chemical Lithiation Reaction. Nano Letters, 2022, 22, 2956-2963.	9.1	35
116	Improved rate capability of the conducting functionalized FTO-coated Li-[Li_{0.2}Mn_{0.54}Ni_{0.13}Co_{0.13}]O₂ cathode material for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 17113-17119.	10.3	34
117	Nanospherical-Like Manganese Monoxide/Reduced Graphene Oxide Composite Synthesized by Electron Beam Radiation as Anode Material for High-Performance Lithium-Ion Batteries. Electrochimica Acta, 2016, 196, 431-439.	5.2	34
118	High-Capacity Hard Carbon Pyrolyzed from Subbituminous Coal as Anode for Sodium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 729-735.	5.1	34
119	Building a Cycle-Stable Feâ€“Si Alloy/Carbon Nanocomposite Anode for Li-Ion Batteries through a Covalent-Bonding Method. ACS Applied Materials & Interfaces, 2020, 12, 30503-30509.	8.0	34
120	Amorphous NaVOPO ₄ as a High-Rate and Ultrastable Cathode Material for Sodium-Ion Batteries. CCS Chemistry, 2021, 3, 2428-2436.	7.8	34
121	Effects of Anions on the Zinc Electrodeposition onto Glassy-Carbon Electrode. Russian Journal of Electrochemistry, 2002, 38, 321-325.	0.9	33
122	Enabling stable and high-rate cycling of a Ni-rich layered oxide cathode for lithium-ion batteries by modification with an artificial Li⁺-conducting cathode-electrolyte interphase. Journal of Materials Chemistry A, 2021, 9, 11623-11631.	10.3	33
123	Sodiumâ€Ion Batteries: Prussian Blue Cathode Materials for Sodiumâ€Ion Batteries and Other Ion Batteries (Adv. Energy Mater. 17/2018). Advanced Energy Materials, 2018, 8, 1870079.	19.5	32
124	Polyaniline hollow nanofibers prepared by controllable sacrifice-template route as high-performance cathode materials for sodium-ion batteries. Electrochimica Acta, 2019, 301, 352-358.	5.2	32
125	A positive-temperature-coefficient electrode with thermal protection mechanism for rechargeable lithium batteries. Science Bulletin, 2012, 57, 4205-4209.	1.7	31
126	Poly(3-butylthiophene)-based positive-temperature-coefficient electrodes for safer lithium-ion batteries. Electrochimica Acta, 2016, 187, 173-178.	5.2	30

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127	Surface-Bound Silicon Nanoparticles with a Planar-Oriented N-Type Polymer for Cycle-Stable Li-Ion Battery Anode. ACS Applied Materials & Interfaces, 2019, 11, 13251-13256.	8.0	30
128	Coaxial Three-Layered Carbon/Sulfur/Polymer Nanofibers with High Sulfur Content and High Utilization for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 11626-11633.	8.0	29
129	Surface Modification of Fe₇S₈/C Anode via Ultrathin Amorphous TiO₂ Layer for Enhanced Sodium Storage Performance. Small, 2020, 16, e2000745.	10.0	28
130	Synthesis and electrochemical properties of high-voltage LiNi0.5Mn1.5O4 electrode material for Li-ion batteries by the polymer-pyrolysis method. Journal of Solid State Electrochemistry, 2006, 10, 283-287.	2.5	27
131	Electrochemical properties of nano-crystalline LiNi0.5Mn1.5O4 synthesized by polymer-pyrolysis method. Journal of Solid State Electrochemistry, 2008, 12, 687-691.	2.5	27
132	Hard Carbon Fibers Pyrolyzed from Wool as High-Performance Anode for Sodium-Ion Batteries. Jom, 2016, 68, 2579-2584.	1.9	26
133	Building a Thermal Shutdown Cathode for Liâ€Ion Batteries Using Temperatureâ€Responsive Poly(3â€Dodecylthiophene). Energy Technology, 2020, 8, 2000365.	3.8	26
134	Surface-engineering enhanced sodium storage performance of Na3V2(PO4)3 cathode via in-situ self-decorated conducting polymer route. Science China Chemistry, 2017, 60, 1546-1553.	8.2	24
135	A High-Voltage and Cycle Stable Aqueous Rechargeable Na-Ion Battery Based on Na₂Zn₃[Fe(CN)₆]₂â€“NaTi₂(PO₄)₃ Intercalation Chemistry. ACS Applied Energy Materials, 2019, 2, 5809-5815.	5.4	24
136	Well-defined Na2Zn3[Fe(CN)6]2 nanocrystals as a low-cost and cycle-stable cathode material for Na-ion batteries. Electrochemistry Communications, 2019, 98, 78-81.	4.7	23
137	Enabling electrochemical compatibility of non-flammable phosphate electrolytes for lithium-ion batteries by tuning their molar ratios of salt to solvent. Chemical Communications, 2020, 56, 6559-6562.	4.1	23
138	Pb-sandwiched nanoparticles as anode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 291-295.	2.5	22
139	Enabling a high capacity and long cycle life for nano-Si anodes by building a stable solid interface with a Li⁺-conducting polymer. Journal of Materials Chemistry A, 2015, 3, 9938-9944.	10.3	22
140	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. ACS Applied Materials & Interfaces, 2016, 8, 9185-9193.	8.0	22
141	The Underlying Mechanism for Reduction Stability of Organic Electrolytes in Lithium Secondary Batteries. Chemical Science, 2021, 12, 9037-9041.	7.4	22
142	Metalâ€Ligand Ï€ Interactions in Lithiumâ€Rich Li₂RhO₃ Cathode Material Activate Bimodal Anionic Redox. Advanced Energy Materials, 2021, 11, 2100892.	19.5	21
143	Synthesis of Monoclinic Li[Li_{0.2}Mn_{0.54}Ni_{0.13}Co_{0.13}]O₂ Nanoparticles by a Layeredâ€Template Route for Highâ€Performance Liâ€Ion Batteries. European Journal of Inorganic Chemistry, 2013, 2013, 2887-2892.	2.0	19
144	Flaky and Dense Lithium Deposition Enabled by a Nanoporous Copper Surface Layer on Lithium Metal Anode. , 2020, 2, 358-366.		19

#	Article	IF	Citations
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