Xinping Ai

List of Publications by Citations

161 papers	12,744 citations	60 h-index	110 g-index
167 ext. papers	14,950 ext. citations	11.8 avg, IF	6.79 L-index

#	Paper	IF	Citations
161	High capacity Na-storage and superior cyclability of nanocomposite Sb/C anode for Na-ion batteries. *Chemical Communications*, **2012**, 48, 7070-2	5.8	560
160	Sb□ nanofibers with long cycle life as an anode material for high-performance sodium-ion batteries. *Energy and Environmental Science*, **2014**, 7, 323-328	35.4	536
159	High capacity and rate capability of amorphous phosphorus for sodium ion batteries. *Angewandte Chemie - International Edition*, **2013**, 52, 4633-6	16.4	535
158	Manipulating Adsorption□Insertion Mechanisms in Nanostructured Carbon Materials for High-Efficiency Sodium Ion Storage. *Advanced Energy Materials*, **2017**, 7, 1700403	21.8	486
157	Hierarchical carbon framework wrapped Na3V2(PO4)3 as a superior high-rate and extended lifespan cathode for sodium-ion batteries. *Advanced Materials*, **2015**, 27, 5895-900	24	372
156	Non-flammable electrolytes with high salt-to-solvent ratios for Li-ion and Li-metal batteries. *Nature Energy*, **2018**, 3, 674-681	62.3	357
155	Synergistic Na-storage reactions in Sn4P3 as a high-capacity, cycle-stable anode of Na-ion batteries. *Nano Letters*, **2014**, 14, 1865-9	11.5	353
154	Prussian Blue Cathode Materials for Sodium-Ion Batteries and Other Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1702619	21.8	299
153	Low-Defect and Low-Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. *Advanced Energy Materials*, **2018**, 8, 1703238	21.8	262
152	High Capacity and Rate Capability of Amorphous Phosphorus for Sodium Ion Batteries. *Angewandte Chemie*, **2013**, 125, 4731-4734	3.6	245
151	A low-cost and environmentally benign aqueous rechargeable sodium-ion battery based on NaTi2(PO4)3□Na2NiFe(CN)6 intercalation chemistry. *Electrochemistry Communications*, **2013**, 31, 145-148	5.1	238
150	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	13	236
149	Nanosized Na4Fe(CN)6/C Composite as a Low-Cost and High-Rate Cathode Material for Sodium-Ion Batteries. *Advanced Energy Materials*, **2012**, 2, 410-414	21.8	228
148	Highly Crystallized Na□CoFe(CN)□ with Suppressed Lattice Defects as Superior Cathode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 5393-9	9.5	220
147	A honeycomb-layered Na3Ni2SbO6: a high-rate and cycle-stable cathode for sodium-ion batteries. *Advanced Materials*, **2014**, 26, 6301-6	24	217
146	In Situ Generation of Few-Layer Graphene Coatings on SnO2-SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage. *Advanced Energy Materials*, **2012**, 2, 95-102	21.8	216
145	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	13	215

144	Mesoporous amorphous FePO4 nanospheres as high-performance cathode material for sodium-ion batteries. *Nano Letters*, **2014**, 14, 3539-43	11.5	210
143	A 2D porous porphyrin-based covalent organic framework for sulfur storage in lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2016**, 4, 7416-7421	13	205
142	Phosphate Framework Electrode Materials for Sodium Ion Batteries. *Advanced Science*, **2017**, 4, 1600392	13.6	200
141	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	13	194
140	Covalent-organic frameworks: potential host materials for sulfur impregnation in lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2014**, 2, 8854-8858	13	177
139	3D Graphene Decorated NaTi2(PO4)3 Microspheres as a Superior High-Rate and Ultracycle-Stable Anode Material for Sodium Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502197	21.8	177
138	Aligning academia and industry for unified battery performance metrics. *Nature Communications*, **2018**, 9, 5262	17.4	156
137	Recent Advances in Sodium-Ion Battery Materials. *Electrochemical Energy Reviews*, **2018**, 1, 294-323	29.3	154
136	Recent Progress in Rechargeable Sodium-Ion Batteries: toward High-Power Applications. *Small*, **2019**, 15, e1805427	11	149
135	A Sn–SnS□ nanocomposite as anode host materials for Na-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 7181	13	126
134	Graphene-Scaffolded NaV(PO) Microsphere Cathode with High Rate Capability and Cycling Stability for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 7177-7184	9.5	123
133	Recent Progress in Iron-Based Electrode Materials for Grid-Scale Sodium-Ion Batteries. *Small*, **2018**, 14, 1703116	11	118
132	A tin(II) sulfide–carbon anode material based on combined conversion and alloying reactions for sodium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 16424-16428	13	118
131	Sulfur/carbon nanocomposite-filled polyacrylonitrile nanofibers as a long life and high capacity cathode for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2015**, 3, 7406-7412	13	115
130	TiO2 ceramic-grafted polyethylene separators for enhanced thermostability and electrochemical performance of lithium-ion batteries. *Journal of Membrane Science*, **2016**, 504, 97-103	9.6	113
129	High-Performance Olivine NaFePO4 Microsphere Cathode Synthesized by Aqueous Electrochemical Displacement Method for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 17977-84	9.5	108
128	Redox-active Fe(CN)(6)(4-)-doped conducting polymers with greatly enhanced capacity as cathode materials for Li-ion batteries. *Advanced Materials*, **2011**, 23, 4913-7	24	108
127	Electrochemical behavior of biphenyl as polymerizable additive for overcharge protection of lithium ion batteries. *Electrochimica Acta*, **2004**, 49, 4189-4196	6.7	108

126	Electrospun TiO2/C Nanofibers As a High-Capacity and Cycle-Stable Anode for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 16684-9	9.5	107
125	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	13	98
124	Stable Li Metal Anode with □bn□Solvent-Coordinated□Nonflammable Electrolyte for Safe Li Metal Batteries. *ACS Energy Letters*, **2019**, 4, 483-488	20.1	95
123	A Fully Sodiated NaVOPO4 with Layered Structure for High-Voltage and Long-Lifespan Sodium-Ion Batteries. *CheM*, **2018**, 4, 1167-1180	16.2	92
122	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	13	92
121	A Highly Thermostable Ceramic-Grafted Microporous Polyethylene Separator for Safer Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 24119-26	9.5	91
120	Green synthesis and stable li-storage performance of FeSi(2)/Si@C nanocomposite for lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2012**, 4, 3753-8	9.5	87
119	SiC□Sb□ nanocomposites as high-capacity and cycling-stable anode for sodium-ion batteries. *Electrochimica Acta*, **2013**, 87, 41-45	6.7	84
118	A Li+-conductive microporous carbon□ulfur composite for Li-S batteries. *Electrochimica Acta*, **2013**, 87, 497-502	6.7	84
117	A Safer Sodium-Ion Battery Based on Nonflammable Organic Phosphate Electrolyte. *Advanced Science*, **2016**, 3, 1600066	13.6	84
116	Low Defect FeFe(CN)6 Framework as Stable Host Material for High Performance Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 23706-12	9.5	82
115	Dendrite-free lithium deposition by coating a lithiophilic heterogeneous metal layer on lithium metal anode. *Energy Storage Materials*, **2020**, 24, 635-643	19.4	80
114	Effective Chemical Prelithiation Strategy for Building a Silicon/Sulfur Li-Ion Battery. *ACS Energy Letters*, **2019**, 4, 1717-1724	20.1	78
113	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	9.5	78
112	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		77
111	Surface-Modified Graphite as an Improved Intercalating Anode for Lithium-Ion Batteries. *Electrochemical and Solid-State Letters*, **2003**, 6, A30		77
110	Self-doped polypyrrole with ionizable sodium sulfonate as a renewable cathode material for sodium ion batteries. *Chemical Communications*, **2013**, 49, 11370-2	5.8	76
109	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	17.1	75

108	Dual Core-Shell Structured Si@SiO@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	9.5	72
107	Li(+)-conductive polymer-embedded nano-Si particles as anode material for advanced Li-ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 3508-12	9.5	72
106	Novel Ceramic-Grafted Separator with Highly Thermal Stability for Safe Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 25970-25975	9.5	72
105	A Nonflammable Na+-Based Dual-Carbon Battery with Low-Cost, High Voltage, and Long Cycle Life. *Advanced Energy Materials*, **2018**, 8, 1802176	21.8	72
104	Graphene-Wrapped Na2C12H6O4 Nanoflowers as High Performance Anodes for Sodium-Ion Batteries. *Small*, **2016**, 12, 583-7	11	71
103	Electroactive organic anion-doped polypyrrole as a low cost and renewable cathode for sodium-ion batteries. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 114-118	2.6	62
102	A type of sodium-ion full-cell with a layered NaNi0.5Ti0.5O2 cathode and a pre-sodiated hard carbon anode. *RSC Advances*, **2015**, 5, 106519-106522	3.7	61
101	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, 1337-43	9.5	59
100	An electrochemically compatible and flame-retardant electrolyte additive for safe lithium ion batteries. *Journal of Power Sources*, **2013**, 227, 106-110	8.9	59
99	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	13	58
98	Engineering Al2O3 atomic layer deposition: Enhanced hard carbon-electrolyte interface towards practical sodium ion batteries. *Nano Energy*, **2019**, 64, 103903	17.1	58
97	Na4Fe3(PO4)2P2O7/C nanospheres as low-cost, high-performance cathode material for sodium-ion batteries. *Energy Storage Materials*, **2019**, 22, 330-336	19.4	56
96	Fe(CN)64-doped polypyrrole: a high-capacity and high-rate cathode material for sodium-ion batteries. *RSC Advances*, **2012**, 2, 5495	3.7	56
95	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		55
94	Enabling an intrinsically safe and high-energy-density 4.5 V-class Li-ion battery with nonflammable electrolyte. *Informa□□Materi□y*, **2020**, 2, 984-992	23.1	54
93	Ultralow-Strain Zn-Substituted Layered Oxide Cathode with Suppressed P2□□2 Transition for Stable Sodium Ion Storage. *Advanced Functional Materials*, **2020**, 30, 1910327	15.6	54
92	Yolk-Shell TiO@C Nanocomposite as High-Performance Anode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 345-353	9.5	52
91	Chemically Prelithiated Hard-Carbon Anode for High Power and High Capacity Li-Ion Batteries. *Small*, **2020**, 16, e1907602	11	52

90	Suppressing Voltage Fading of Li-Rich Oxide Cathode via Building a Well-Protected and Partially-Protonated Surface by Polyacrylic Acid Binder for Cycle-Stable Li-Ion Batteries. *Advanced Energy Materials*, **2020**, 10, 1904264	21.8	50
89	Symmetric Sodium-Ion Capacitor Based on NaMnO Nanorods for Low-Cost and High-Performance Energy Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 11689-11698	9.5	49
88	A novel bifunctional thermo-sensitive poly(lactic acid)@poly(butylene succinate) core□shell fibrous separator prepared by a coaxial electrospinning route for safe lithium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 23238-23242	13	48
87	A High-Performance Li-Mn-O Li-rich Cathode Material with Rhombohedral Symmetry via Intralayer Li/Mn Disordering. *Advanced Materials*, **2020**, 32, e2000190	24	48
86	Sulfur-Based Electrodes that Function via Multielectron Reactions for Room-Temperature Sodium-Ion Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 18324-18337	16.4	46
85	Building thermally stable Li-ion batteries using a temperature-responsive cathode. *Journal of Materials Chemistry A*, **2016**, 4, 11239-11246	13	44
84	High Rate, Long Lifespan LiV O Nanorods as a Cathode Material for Lithium-Ion Batteries. *Small*, **2017**, 13, 1603148	11	42
83	Temperature-responsive microspheres-coated separator for thermal shutdown protection of lithium ion batteries. *RSC Advances*, **2015**, 5, 172-176	3.7	42
82	Chemically Presodiated Hard Carbon Anodes with Enhanced Initial Coulombic Efficiencies for High-Energy Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 17620-17627	9.5	39
81	Bis(2,2,2-trifluoroethyl) methylphosphonate: An Novel Flame-retardant Additive for Safe Lithium-ion Battery. *Electrochimica Acta*, **2014**, 129, 300-304	6.7	38
80	Electrolytes for Dual-Carbon Batteries. *ChemElectroChem*, **2019**, 6, 2615-2629	4.3	36
79	Graphene-Modified TiO2 Microspheres Synthesized by a Facile Spray-Drying Route for Enhanced Sodium-Ion Storage. *Particle and Particle Systems Characterization*, **2016**, 33, 545-552	3.1	36
78	Novel Alkaline Zn/NaMnO Dual-Ion Battery with a High Capacity and Long Cycle Lifespan. *ACS Applied Materials & Interfaces*, **2018**, 10, 34108-34115	9.5	36
77	Understanding Voltage Decay in Lithium-Rich Manganese-Based Layered Cathode Materials by Limiting Cutoff Voltage. *ACS Applied Materials & Interfaces*, **2016**, 8, 18867-77	9.5	35
76	High Capacity and Cycle-Stable Hard Carbon Anode for Nonflammable Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 38141-38150	9.5	35
75	In Situ Formation of CoS Nanoclusters in Sulfur-Doped Carbon Foam as a Sustainable and High-Rate Sodium-Ion Anode. *ACS Applied Materials & Interfaces*, **2019**, 11, 19218-19226	9.5	33
74	Covalently Bonded Silicon/Carbon Nanocomposites as Cycle-Stable Anodes for Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 16411-16416	9.5	33
73	A polyethylene microsphere-coated separator with rapid thermal shutdown function for lithium-ion batteries. *Journal of Energy Chemistry*, **2020**, 44, 33-40	12	33

72	Improved rate capability of the conducting functionalized FTO-coated Li-[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode material for Li-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 17113-17119	13	32
71	An All-Phosphate and Zero-Strain Sodium-Ion Battery Based on NaV(PO) Cathode, NaTi(PO) Anode, and Trimethyl Phosphate Electrolyte with Intrinsic Safety and Long Lifespan. *ACS Applied Materials & Interfaces*, **2017**, 9, 43733-43738	9.5	31
70	A low-defect and Na-enriched Prussian blue lattice with ultralong cycle life for sodium-ion battery cathode. *Electrochimica Acta*, **2020**, 332, 135533	6.7	31
69	Mesoporous Silica Reinforced Hybrid Polymer Artificial Layer for High-Energy and Long-Cycling Lithium Metal Batteries. *ACS Energy Letters*, **2020**, 5, 1644-1652	20.1	31
68	A high voltage cathode of Na2+2xFe2(SO4)3 intensively protected by nitrogen-doped graphene with improved electrochemical performance of sodium storage. *Journal of Materials Chemistry A*, **2018**, 6, 4354-4364	13	30
67	A Bifunctional Fluorophosphate Electrolyte for Safer Sodium-Ion Batteries. *IScience*, **2018**, 10, 114-122	6.1	30
66	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	6.7	29
65	An all-vanadium aqueous lithium ion battery with high energy density and long lifespan. *Energy Storage Materials*, **2019**, 18, 92-99	19.4	28
64	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	13	28
63	Highly Selective and Pollution-Free Electrochemical Extraction of Lithium by a Polyaniline/Li Mn O Cell. *ChemSusChem*, **2019**, 12, 1361-1367	8.3	27
62	An electrolyte additive for thermal shutdown protection of Li-ion batteries. *Electrochemistry Communications*, **2012**, 25, 98-100	5.1	27
61	Effects of Anions on the Zinc Electrodeposition onto Glassy-Carbon Electrode. *Russian Journal of Electrochemistry*, **2002**, 38, 321-325	1.2	26
60	Polyaniline hollow nanofibers prepared by controllable sacrifice-template route as high-performance cathode materials for sodium-ion batteries. *Electrochimica Acta*, **2019**, 301, 352-358	6.7	25
59	Electrochemical properties of nano-crystalline LiNi0.5Mn1.5O4 synthesized by polymer-pyrolysis method. *Journal of Solid State Electrochemistry*, **2008**, 12, 687-691	2.6	25
58	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	2.6	25
57	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	19.4	23
56	Achieving Desirable Initial Coulombic Efficiencies and Full Capacity Utilization of Li-Ion Batteries by Chemical Prelithiation of Graphite Anode. *Advanced Functional Materials*, **2021**, 31, 2101181	15.6	23
55	Tunable Electrocatalytic Behavior of Sodiated MoS Active Sites toward Efficient Sulfur Redox Reactions in Room-Temperature Na-S Batteries. *Advanced Materials*, **2021**, 33, e2100229	24	23

54	Coaxial Three-Layered Carbon/Sulfur/Polymer Nanofibers with High Sulfur Content and High Utilization for Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 11626-11633	9.5	22
53	A positive-temperature-coefficient electrode with thermal protection mechanism for rechargeable lithium batteries. *Science Bulletin*, **2012**, 57, 4205-4209		22
52	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	9.5	22
51	Sodium-Ion Batteries: Prussian Blue Cathode Materials for Sodium-Ion Batteries and Other Ion Batteries (Adv. Energy Mater. 17/2018). *Advanced Energy Materials*, **2018**, 8, 1870079	21.8	21
50	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	13	21
49	High-Safety Symmetric Sodium-Ion Batteries Based on Nonflammable Phosphate Electrolyte and Double NaV(PO) Electrodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 27833-27838	9.5	21
48	Poly(3-butylthiophene)-based positive-temperature-coefficient electrodes for safer lithium-ion batteries. *Electrochimica Acta*, **2016**, 187, 173-178	6.7	20
47	Hollow carbon nanofibers as high-performance anode materials for sodium-ion batteries. *Nanoscale*, **2019**, 11, 21999-22005	7.7	20
46	Hard Carbon Fibers Pyrolyzed from Wool as High-Performance Anode for Sodium-Ion Batteries. *Jom*, **2016**, 68, 2579-2584	2.1	19
45	Ethylene Carbonate-Free Propylene Carbonate-Based Electrolytes with Excellent Electrochemical Compatibility for Li-Ion Batteries through Engineering Electrolyte Solvation Structure. *Advanced Energy Materials*, **2021**, 11, 2003905	21.8	19
44	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	9.5	18
43	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. *ACS Applied Materials & Interfaces*, **2016**, 8, 9185-93	9.5	18
42	Pb-sandwiched nanoparticles as anode material for lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2012**, 16, 291-295	2.6	18
41	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	7.9	18
40	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	13	18
39	Synthesis of Monoclinic Li[Li0.2Mn0.54Ni0.13Co0.13]O2 Nanoparticles by a Layered-Template Route for High-Performance Li-Ion Batteries. *European Journal of Inorganic Chemistry*, **2013**, 2013, 2887-2892	2.3	18
38	Highly Electrochemically-Reversible Mesoporous Na FePO F/C as Cathode Material for High-Performance Sodium-Ion Batteries. *Small*, **2019**, 15, e1903723	11	16
37	Designing Advanced Electrolytes for Lithium Secondary Batteries Based on the Coordination Number Rule. *ACS Energy Letters*,4282-4290	20.1	16

36	Amorphous NaVOPO 4 as a High-Rate and Ultrastable Cathode Material for Sodium-Ion Batteries. *CCS Chemistry*,2428-2436	7.2	16
35	High-Capacity Hard Carbon Pyrolyzed from Subbituminous Coal as Anode for Sodium-Ion Batteries. *ACS Applied Energy Materials*, **2019**, 2, 729-735	6.1	15
34	An Overall Understanding of Sodium Storage Behaviors in Hard Carbons by an Adsorption-Intercalation/Filling Hybrid Mechanism. *Advanced Energy Materials*,2200886	21.8	15
33	Building a Cycle-Stable Fe-Si Alloy/Carbon Nanocomposite Anode for Li-Ion Batteries through a Covalent-Bonding Method. *ACS Applied Materials & Interfaces*, **2020**, 12, 30503-30509	9.5	14
32	Enhanced electrochemical performance of submicron LiCoO2 synthesized by polymer pyrolysis method. *Journal of Solid State Electrochemistry*, **2007**, 12, 149-153	2.6	14
31	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	5.1	14
30	Enhanced Cycling Stability of Sulfur Cathode Surface-Modified by Poly(N-methylpyrrole). *Electrochimica Acta*, **2014**, 135, 108-113	6.7	13
29	Flaky and Dense Lithium Deposition Enabled by a Nanoporous Copper Surface Layer on Lithium Metal Anode **2020**, 2, 358-366		12
28	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	5.8	12
27	A High-Voltage and Cycle Stable Aqueous Rechargeable Na-Ion Battery Based on Na2Zn3[Fe(CN)6]2 NaTi2(PO4)3 Intercalation Chemistry. *ACS Applied Energy Materials*, **2019**, 2, 5809-5815	6.1	12
26	Understanding of the sodium storage mechanism in hard carbon anodes		12
25	Building a Thermal Shutdown Cathode for Li-Ion Batteries Using Temperature-Responsive Poly(3-Dodecylthiophene). *Energy Technology*, **2020**, 8, 2000365	3.5	11
24	Facile and reversible digestion and regeneration of zirconium-based metal-organic frameworks. *Communications Chemistry*, **2020**, 3,	6.3	11
23	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	13	11
22	Surface Modification of Fe S /C Anode via Ultrathin Amorphous TiO Layer for Enhanced Sodium Storage Performance. *Small*, **2020**, 16, e2000745	11	10
21	A redox-active polythiophene-modified separator for safety control of lithium-ion batteries. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 1487-1493	2.6	10
20	Microstructure-Dependent Charge/Discharge Behaviors of Hollow Carbon Spheres and its Implication for Sodium Storage Mechanism on Hard Carbon Anodes. *Small*, **2021**, 17, e2102248	11	9
19	Schwefel-basierte Elektroden mit Mehrelektronenreaktionen f Raumtemperatur-Natriumionenspeicherung. *Angewandte Chemie*, **2019**, 131, 18490-18504	3.6	8

18	High performance TiP2O7 nanoporous microsphere as anode material for aqueous lithium-ion batteries. *Science China Chemistry*, **2019**, 62, 118-125	7.9	8
17	SnO2-Reduced Graphene Oxide Nanocomposites via Microwave Route as Anode for Sodium-Ion Battery. *Jom*, **2016**, 68, 2607-2612	2.1	8
16	A Membrane-Free and Energy-Efficient Three-Step Chlor-Alkali Electrolysis with Higher-Purity NaOH Production. *ACS Applied Materials & Interfaces*, **2019**, 11, 45126-45132	9.5	8
15	Metal/covalent-organic frameworks for electrochemical energy storage applications. *EcoMat*, **2021**, 3, e12133	9.4	8
14	Room-Temperature All-Solid-State Lithium□Organic Batteries Based on Sulfide Electrolytes and Organodisulfide Cathodes. *Advanced Energy Materials*, **2021**, 11, 2102962	21.8	6
13	Electrochemical Insight into the Sodium-Ion Storage Mechanism on a Hard Carbon Anode. *ACS Applied Materials & Interfaces*, **2021**, 13, 18914-18922	9.5	6
12	-Formed Artificial Solid Electrolyte Interphase for Boosting the Cycle Stability of Si-Based Anodes for Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 22505-22513	9.5	6
11	In Situ Generation of Few-Layer Graphene Coatings on SnO2-SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage (Adv. Energy Mater. 1/2012). *Advanced Energy Materials*, **2012**, 2, 94-94	21.8	5
10	An advanced low-cost cathode composed of graphene-coated Na2.4Fe1.8(SO4)3 nanograins in a 3D graphene network for ultra-stable sodium storage. *Journal of Energy Chemistry*, **2021**, 54, 564-570	12	5
9	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	13	5
8	The underlying mechanism for reduction stability of organic electrolytes in lithium secondary batteries. *Chemical Science*, **2021**, 12, 9037-9041	9.4	5
7	Photoregenerative I?/I□ couple as a liquid cathode for proton exchange membrane fuel cell. *Scientific Reports*, **2014**, 4, 6795	4.9	3
6	Improved Initial Charging Capacity of Na-poor Na0.44MnO2 via Chemical Presodiation Strategy for Low-cost Sodium-ion Batteries. *Chemical Research in Chinese Universities*, **2021**, 37, 274-279	2.2	3
5	Metal-Ligand □Interactions in Lithium-Rich Li2RhO3 Cathode Material Activate Bimodal Anionic Redox. *Advanced Energy Materials*, **2021**, 11, 2100892	21.8	3
4	A controllable thermal-sensitivity separator with an organic□organic hybrid interlayer for high-safety lithium-ion batteries. *Materials Chemistry Frontiers*, **2021**, 5, 2313-2319	7.8	3
3	A Solid-Phase Conversion Sulfur Cathode with Full Capacity Utilization and Superior Cycle Stability for Lithium-Sulfur Batteries.. *Small*, **2022**, e2106144	11	2
2	Efficient and Facile Electrochemical Process for the Production of High-Quality Lithium Hexafluorophosphate Electrolyte. *ACS Applied Materials & Interfaces*, **2020**, 12, 32771-32777	9.5	1
1	A Facile and Efficient Chemical Prelithiation of Graphite for Full Capacity Utilization of Li-Ion Batteries. *Energy Technology*,2200269	3.5	