

Ya-Xia Yin

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179
papers

24,698
citations

81
h-index

156
g-index

189
ext. papers

28,738
ext. citations

13.3
avg, IF

7.59
L-index

#	Paper	IF	Citations
179	Lithium-sulfur batteries: electrochemistry, materials, and prospects. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13186-200	16.4	1989
178	Smaller sulfur molecules promise better lithium-sulfur batteries. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18510-3	16.4	1317
177	Accommodating lithium into 3D current collectors with a submicron skeleton towards long-life lithium metal anodes. <i>Nature Communications</i> , 2015 , 6, 8058	17.4	1030
176	An Artificial Solid Electrolyte Interphase Layer for Stable Lithium Metal Anodes. <i>Advanced Materials</i> , 2016 , 28, 1853-8	24	1021
175	High-quality Prussian blue crystals as superior cathode materials for room-temperature sodium-ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 1643-1647	35.4	691
174	A high-energy room-temperature sodium-sulfur battery. <i>Advanced Materials</i> , 2014 , 26, 1261-5	24	446
173	A Flexible Solid Electrolyte Interphase Layer for Long-Life Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1505-1509	16.4	438
172	Improving the electrode performance of Ge through Ge@C core-shell nanoparticles and graphene networks. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2512-5	16.4	411
171	Graphitized Carbon Fibers as Multifunctional 3D Current Collectors for High Areal Capacity Li Anodes. <i>Advanced Materials</i> , 2017 , 29, 1700389	24	403
170	Self-Assembled Nanocomposite of Silicon Nanoparticles Encapsulated in Graphene through Electrostatic Attraction for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 1086-1090	21.8	401
169	Watermelon-Inspired Si/C Microspheres with Hierarchical Buffer Structures for Densely Compacted Lithium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601481	21.8	397
168	Facile synthesis of silicon nanoparticles inserted into graphene sheets as improved anode materials for lithium-ion batteries. <i>Chemical Communications</i> , 2012 , 48, 2198-200	5.8	379
167	Rice husk-derived hierarchical silicon/nitrogen-doped carbon/carbon nanotube spheres as low-cost and high-capacity anodes for lithium-ion batteries. <i>Nano Energy</i> , 2016 , 25, 120-127	17.1	360
166	Layered Oxide Cathodes for Sodium-Ion Batteries: Phase Transition, Air Stability, and Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1701912	21.8	346
165	Sulfur Encapsulated in Graphitic Carbon Nanocages for High-Rate and Long-Cycle Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016 , 28, 9539-9544	24	341
164	A Sandwich-Like Hierarchically Porous Carbon/Graphene Composite as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1301584	21.8	341
163	Advanced Micro/Nanostructures for Lithium Metal Anodes. <i>Advanced Science</i> , 2017 , 4, 1600445	13.6	338

162	An advanced selenium-carbon cathode for rechargeable lithium-selenium batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8363-7	16.4	330
161	Suppressing the P2-O2 Phase Transition of Na _{0.67} Mn _{0.67} Ni _{0.33} O ₂ by Magnesium Substitution for Improved Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7445-9	16.4	330
160	Stable Li Plating/Stripping Electrochemistry Realized by a Hybrid Li Reservoir in Spherical Carbon Granules with 3D Conducting Skeletons. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5916-5922	16.4	329
159	Reshaping Lithium Plating/Stripping Behavior via Bifunctional Polymer Electrolyte for Room-Temperature Solid Li Metal Batteries. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15825-15828	16.4	329
158	Uniform Lithium Nucleation/Growth Induced by Lightweight Nitrogen-Doped Graphitic Carbon Foams for High-Performance Lithium Metal Anodes. <i>Advanced Materials</i> , 2018 , 30, 1706216	24	315
157	Subzero-Temperature Cathode for a Sodium-Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 7243-8	24	299
156	Dendrite-Free Li-Metal Battery Enabled by a Thin Asymmetric Solid Electrolyte with Engineered Layers. <i>Journal of the American Chemical Society</i> , 2018 , 140, 82-85	16.4	299
155	Stable Li Metal Anodes via Regulating Lithium Plating/Stripping in Vertically Aligned Microchannels. <i>Advanced Materials</i> , 2017 , 29, 1703729	24	288
154	Solid-State Lithium Metal Batteries Promoted by Nanotechnology: Progress and Prospects. <i>ACS Energy Letters</i> , 2017 , 2, 1385-1394	20.1	259
153	High-Capacity Cathode Material with High Voltage for Li-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, 1705575	24	256
152	Insight into the effect of boron doping on sulfur/carbon cathode in lithium-sulfur batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8789-95	9.5	254
151	Ionothermal synthesis of sulfur-doped porous carbons hybridized with graphene as superior anode materials for lithium-ion batteries. <i>Chemical Communications</i> , 2012 , 48, 10663-5	5.8	252
150	Free-Standing Hollow Carbon Fibers as High-Capacity Containers for Stable Lithium Metal Anodes. <i>Joule</i> , 2017 , 1, 563-575	27.8	243
149	Ti-Substituted NaNi Mn Ti O Cathodes with Reversible O3-P3 Phase Transition for High-Performance Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700210	24	233
148	Na/vacancy disordering promises high-rate Na-ion batteries. <i>Science Advances</i> , 2018 , 4, eaar6018	14.3	229
147	Suppressing Surface Lattice Oxygen Release of Li-Rich Cathode Materials via Heterostructured Spinel Li Mn O Coating. <i>Advanced Materials</i> , 2018 , 30, e1801751	24	222
146	Designing Air-Stable O3-Type Cathode Materials by Combined Structure Modulation for Na-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8440-8443	16.4	219
145	Towards better Li metal anodes: Challenges and strategies. <i>Materials Today</i> , 2020 , 33, 56-74	21.8	216

144	Superior radical polymer cathode material with a two-electron process redox reaction promoted by graphene. <i>Energy and Environmental Science</i> , 2012 , 5, 5221-5225	35.4	207
143	Extended Electrochemical Window of Solid Electrolytes via Heterogeneous Multilayered Structure for High-Voltage Lithium Metal Batteries. <i>Advanced Materials</i> , 2019 , 31, e1807789	24	205
142	Guiding Uniform Li Plating/Stripping through Lithium-Aluminum Alloying Medium for Long-Life Li Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1094-1099	16.4	202
141	Facile Synthesis of Blocky SiO _x /C with Graphite-Like Structure for High-Performance Lithium-Ion Battery Anodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1705235	15.6	199
140	Upgrading traditional liquid electrolyte via in situ gelation for future lithium metal batteries. <i>Science Advances</i> , 2018 , 4, eaat5383	14.3	199
139	Research progress regarding Si-based anode materials towards practical application in high energy density Li-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1691-1708	7.8	193
138	Elemental Selenium for Electrochemical Energy Storage. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 256-66	6.4	187
137	Enhancing the Kinetics of Li-Rich Cathode Materials through the Pinning Effects of Gradient Surface Na ⁺ Doping. <i>Advanced Energy Materials</i> , 2016 , 6, 1501914	21.8	185
136	SiO Encapsulated in Graphene Bubble Film: An Ultrastable Li-Ion Battery Anode. <i>Advanced Materials</i> , 2018 , 30, e1707430	24	183
135	Electrochemical (de)lithiation of 1D sulfur chains in Li-S batteries: a model system study. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2215-8	16.4	179
134	Passivation of Lithium Metal Anode via Hybrid Ionic Liquid Electrolyte toward Stable Li Plating/Stripping. <i>Advanced Science</i> , 2017 , 4, 1600400	13.6	176
133	Tuning the porous structure of carbon hosts for loading sulfur toward long lifespan cathode materials for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6602	13	170
132	Lithium-Schwefel-Batterien: Elektrochemie, Materialien und Perspektiven. <i>Angewandte Chemie</i> , 2013 , 125, 13426-13441	3.6	163
131	Electrospray Synthesis of Silicon/Carbon Nanoporous Microspheres as Improved Anode Materials for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14148-14154	3.8	163
130	Engineering Janus Interfaces of Ceramic Electrolyte via Distinct Functional Polymers for Stable High-Voltage Li-Metal Batteries. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9165-9169	16.4	161
129	A zero-strain insertion cathode material of nickel ferricyanide for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14061	13	159
128	Mitigating Voltage Decay of Li-Rich Cathode Material via Increasing Ni Content for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20138-46	9.5	151
127	Synergism of Al-containing solid electrolyte interphase layer and Al-based colloidal particles for stable lithium anode. <i>Nano Energy</i> , 2017 , 36, 411-417	17.1	143

126	Progress of the Interface Design in All-Solid-State LiS Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707533	15.6	140
125	Improving the electrochemical performance of the Li ₄ Ti ₅ O ₁₂ electrode in a rechargeable magnesium battery by lithium-magnesium co-intercalation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5757-61	16.4	139
124	Mitigating Interfacial Potential Drop of Cathode-Solid Electrolyte via Ionic Conductor Layer To Enhance Interface Dynamics for Solid Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6767-6770	16.4	137
123	Efficient 3D conducting networks built by graphene sheets and carbon nanoparticles for high-performance silicon anode. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2824-8	9.5	133
122	An O ₃ -type NaNi _{0.5} Mn _{0.5} O ₂ cathode for sodium-ion batteries with improved rate performance and cycling stability. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17660-17664	13	131
121	A robust composite of SnO ₂ hollow nanospheres enwrapped by graphene as a high-capacity anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17456		123
120	A Stable Layered Oxide Cathode Material for High-Performance Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2019 , 9, 1803978	21.8	118
119	The Electrochemistry with Lithium versus Sodium of Selenium Confined To Slit Micropores in Carbon. <i>Nano Letters</i> , 2016 , 16, 4560-8	11.5	117
118	Advanced Se/C nanocomposites: a bifunctional electrode material for both LiSe and Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13293	13	114
117	Layer structured Fe ₃ O ₄ /nanodisk/reduced graphene oxide composites as high-performance anode materials for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3932-6	9.5	114
116	Hierarchically micro/mesoporous activated graphene with a large surface area for high sulfur loading in LiS batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4799-4802	13	114
115	Trapping Lithium into Hollow Silica Microspheres with a Carbon Nanotube Core for Dendrite-Free Lithium Metal Anodes. <i>Nano Letters</i> , 2018 , 18, 297-301	11.5	111
114	Low-cost and large-scale synthesis of alkaline earth metal germanate nanowires as a new class of lithium ion battery anode material. <i>Energy and Environmental Science</i> , 2012 , 5, 8007	35.4	106
113	A highly reversible, low-strain Mg-ion insertion anode material for rechargeable Mg-ion batteries. <i>NPG Asia Materials</i> , 2014 , 6, e120-e120	10.3	105
112	Superior hybrid cathode material containing lithium-excess layered material and graphene for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4858-63	9.5	105
111	Nitriding-Interface-Regulated Lithium Plating Enables Flame-Retardant Electrolytes for High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7802-7807	16.4	102
110	Wet Chemistry Synthesis of Multidimensional Nanocarbon-Sulfur Hybrid Materials with Ultrahigh Sulfur Loading for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3584-90	9.5	97
109	Uniform Nucleation of Lithium in 3D Current Collectors via Bromide Intermediates for Stable Cycling Lithium Metal Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 18051-18057	16.4	96

108	A High-Performance Composite Electrode for Vanadium Redox Flow Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1700461	21.8	95
107	Exposing {010} Active Facets by Multiple-Layer Oriented Stacking Nanosheets for High-Performance Capacitive Sodium-Ion Oxide Cathode. <i>Advanced Materials</i> , 2018 , 30, e1803765	24	92
106	Hydrothermal reduction of three-dimensional graphene oxide for binder-free flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10830	13	90
105	Tuning wettability of molten lithium via a chemical strategy for lithium metal anodes. <i>Nature Communications</i> , 2019 , 10, 4930	17.4	85
104	Encapsulation of Sulfur in a Hollow Porous Carbon Substrate for Superior Li-S Batteries with Long Lifespan. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 321-325	3.1	85
103	A P2/P3 composite layered cathode for high-performance Na-ion full batteries. <i>Nano Energy</i> , 2019 , 55, 143-150	17.1	85
102	A Layered Tunnel Intergrowth Structure for High-Performance Sodium-Ion Oxide Cathode. <i>Advanced Energy Materials</i> , 2018 , 8, 1800492	21.8	85
101	3D zinc@carbon fiber composite framework anode for aqueous Zn-MnO batteries.. <i>RSC Advances</i> , 2018 , 8, 19157-19163	3.7	84
100	An Abnormal 3.7 Volt O3-Type Sodium-Ion Battery Cathode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8178-8183	16.4	82
99	Interfacial design for lithium-sulfur batteries: From liquid to solid. <i>EnergyChem</i> , 2019 , 1, 100002	36.9	80
98	Ameliorating the Interfacial Problems of Cathode and Solid-State Electrolytes by Interface Modification of Functional Polymers. <i>Advanced Energy Materials</i> , 2018 , 8, 1801528	21.8	77
97	Rational Design of Robust Si/C Microspheres for High-Tap-Density Anode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4057-4064	9.5	73
96	Self-Healable Solid Polymeric Electrolytes for Stable and Flexible Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18146-18149	16.4	72
95	Excellent Comprehensive Performance of Na-Based Layered Oxide Benefiting from the Synergetic Contributions of Multimetal Ions. <i>Advanced Energy Materials</i> , 2017 , 7, 1700189	21.8	69
94	Layered Oxide Cathodes Promoted by Structure Modulation Technology for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001334	15.6	66
93	Rechargeable dual-metal-ion batteries for advanced energy storage. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 9326-33	3.6	66
92	Viscoelastic and Nonflammable Interface Design-Enabled Dendrite-Free and Safe Solid Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803854	21.8	64
91	High-Efficiency Cathode Sodium Compensation for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e2001419	24	60

90	High-Thermal- and Air-Stability Cathode Material with Concentration-Gradient Buffer for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42829-42835	9.5	59
89	A Flexible Solid Electrolyte Interphase Layer for Long-Life Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2018 , 130, 1521-1525	3.6	58
88	High-Performance Lithiated SiO Anode Obtained by a Controllable and Efficient Prelithiation Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32062-32068	9.5	58
87	Nonaqueous Sodium-Ion Full Cells: Status, Strategies, and Prospects. <i>Small</i> , 2019 , 15, e1900233	11	55
86	High-Capacity Te Anode Confined in Microporous Carbon for Long-Life Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27838-44	9.5	55
85	A High-Capacity Tellurium@Carbon Anode Material for Lithium-Ion Batteries. <i>Energy Technology</i> , 2014 , 2, 757-762	3.5	54
84	Suppressing the P2O ₂ Phase Transition of Na _{0.67} Mn _{0.67} Ni _{0.33} O ₂ by Magnesium Substitution for Improved Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 7571-7575	3.6	53
83	Lithiation-Derived Repellent toward Lithium Anode Safeguard in Quasi-solid Batteries. <i>Chem</i> , 2018 , 4, 298-307	16.2	51
82	Three-Dimensional Carbon Nanotubes Forest/Carbon Cloth as an Efficient Electrode for Lithium-Polysulfide Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1553-1561	9.5	47
81	An Advanced Selenium@Carbon Cathode for Rechargeable Lithium-Selenium Batteries. <i>Angewandte Chemie</i> , 2013 , 125, 8521-8525	3.6	47
80	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6585-6589	16.4	47
79	Fungi-Enabled Synthesis of Ultrahigh-Surface-Area Porous Carbon. <i>Advanced Materials</i> , 2019 , 31, e1805134	13.4	46
78	Low volume change composite lithium metal anodes. <i>Nano Energy</i> , 2019 , 64, 103910	17.1	45
77	Improving the Li-ion storage performance of layered zinc silicate through the interlayer carbon and reduced graphene oxide networks. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5777-82	9.5	45
76	Graphitic Nanocarbon-Selenium Cathode with Favorable Rate Capability for Li-Se Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8759-8765	9.5	44
75	Bridging Interparticle Li Conduction in a Soft Ceramic Oxide Electrolyte. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5717-5726	16.4	44
74	Improving the structural stability of Li-rich cathode materials via reservation of cations in the Li-slab for Li-ion batteries. <i>Nano Research</i> , 2017 , 10, 4201-4209	10	43
73	Methods for the Stabilization of Nanostructured Electrode Materials for Advanced Rechargeable Batteries. <i>Small Methods</i> , 2017 , 1, 1700094	12.8	42

72	A Rational Reconfiguration of Electrolyte for High-Energy and Long-Life Lithium-Chalcogen Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000302	24	42
71	An Outlook on Low-Volume-Change Lithium Metal Anodes for Long-Life Batteries. <i>ACS Central Science</i> , 2020 , 6, 661-671	16.8	42
70	An Ordered Ni -Ring Superstructure Enables a Highly Stable Sodium Oxide Cathode. <i>Advanced Materials</i> , 2019 , 31, e1903483	24	42
69	Improving the electrochemical properties of the red P anode in Na-ion batteries via the space confinement of carbon nanopores. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24221-24225	13	41
68	Enabling SiO/C Anode with High Initial Coulombic Efficiency through a Chemical Pre-Lithiation Strategy for High-Energy-Density Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27202-27209	9.5	40
67	Three-dimensional sandwich-type graphene@microporous carbon architecture for lithium-sulfur batteries. <i>RSC Advances</i> , 2016 , 6, 617-622	3.7	38
66	Guiding Uniform Li Plating/Stripping through Lithium-Aluminum Alloying Medium for Long-Life Li Metal Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 1106-1111	3.6	38
65	Solidifying Cathode-Electrolyte Interface for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2000791	21.8	38
64	Improving the stability of LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ by AlPO ₄ nanocoating for lithium-ion batteries. <i>Science China Chemistry</i> , 2017 , 60, 1230-1235	7.9	37
63	Novel P2-type NaNiMgTiO as an anode material for sodium-ion batteries. <i>Chemical Communications</i> , 2017 , 53, 1957-1960	5.8	36
62	An integral interface with dynamically stable evolution on micron-sized SiO _x particle anode. <i>Nano Energy</i> , 2020 , 74, 104890	17.1	36
61	Nitriding-Interface-Regulated Lithium Plating Enables Flame-Retardant Electrolytes for High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 7884-7889	3.6	35
60	Air-Stable and High-Voltage Layered P3-Type Cathode for Sodium-Ion Full Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24184-24191	9.5	32
59	Ladderlike carbon nanoarrays on 3D conducting skeletons enable uniform lithium nucleation for stable lithium metal anodes. <i>Chemical Communications</i> , 2018 , 54, 5330-5333	5.8	32
58	Nano/Micro-Structured Si/C Anodes with High Initial Coulombic Efficiency in Li-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1205-9	4.5	30
57	Stabilizing Polymer-Lithium Interface in a Rechargeable Solid Battery. <i>Advanced Functional Materials</i> , 2020 , 30, 1908047	15.6	30
56	Formulating the Electrolyte Towards High-Energy and Safe Rechargeable Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16554-16560	16.4	30
55	Manipulating Electrode/Electrolyte Interphases of Sodium-Ion Batteries: Strategies and Perspectives 2021 , 3, 18-41		30

54	Increased residual lithium compounds guided design for green recycling of spent lithium-ion cathodes. <i>Energy and Environmental Science</i> , 2021 , 14, 1461-1468	35.4	30
53	Constructing a Stable Lithium Metal-Gel Electrolyte Interface for Quasi-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30065-30070	9.5	29
52	Size-dependent electrochemical magnesium storage performance of spinel lithium titanate. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2099-102	4.5	28
51	Understanding the structural evolution and Na ⁺ kinetics in honeycomb-ordered O ₃ -Na ₃ Ni ₂ SbO ₆ cathodes. <i>Nano Research</i> , 2018 , 11, 3258-3271	10	27
50	Designing High-Performance Composite Electrodes for Vanadium Redox Flow Batteries: Experimental and Computational Investigation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22381-22388	9.5	26
49	Improving the Electrochemical Performance of the Li ₄ Ti ₅ O ₁₂ Electrode in a Rechargeable Magnesium Battery by Lithium Magnesium Co-Intercalation. <i>Angewandte Chemie</i> , 2015 , 127, 5849-5853	3.6	26
48	Suppressing Manganese Dissolution via Exposing Stable {111} Facets for High-Performance Lithium-Ion Oxide Cathode. <i>Advanced Science</i> , 2019 , 6, 1801908	13.6	25
47	High electro-catalytic graphite felt/MnO ₂ composite electrodes for vanadium redox flow batteries. <i>Science China Chemistry</i> , 2018 , 61, 732-738	7.9	23
46	Direct regeneration of spent LiFePO ₄ via a graphite prelithiation strategy. <i>Chemical Communications</i> , 2019 , 56, 245-248	5.8	23
45	Nanoparticles Engineering for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 737-753	3.1	22
44	Suppression of Monoclinic Phase Transitions of O ₃ -Type Cathodes Based on Electronic Delocalization for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22067-22073	9.5	21
43	Sulfur Confined in Sub-Nanometer-Sized 2 D Graphene Interlayers and Its Electrochemical Behavior in Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2690-2694	4.5	21
42	Boron-doped sodium layered oxide for reversible oxygen redox reaction in Na-ion battery cathodes. <i>Nature Communications</i> , 2021 , 12, 5267	17.4	21
41	Gradiently Polymerized Solid Electrolyte Meets with Micro-/Nanostructured Cathode Array. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18005-18011	9.5	20
40	Size effects in lithium ion batteries. <i>Chinese Physics B</i> , 2016 , 25, 018203	1.2	20
39	An Abnormal 3.7 Volt O ₃ -Type Sodium-Ion Battery Cathode. <i>Angewandte Chemie</i> , 2018 , 130, 8310-8315	3.6	19
38	Structurally modulated Li-rich cathode materials through cooperative cation doping and anion hybridization. <i>Science China Chemistry</i> , 2017 , 60, 1554-1560	7.9	19
37	Stable Sodium Storage of Red Phosphorus Anode Enabled by a Dual-Protection Strategy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30479-30486	9.5	18

36	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 6647-6651	3.6	17
35	A super-lithiophilic nanocrystallization strategy for stable lithium metal anodes. <i>Nano Energy</i> , 2020 , 73, 104731	17.1	17
34	Strategies to Build High-Rate Cathode Materials for Na-Ion Batteries. <i>ChemNanoMat</i> , 2019 , 5, 1253-1262	3.5	15
33	In Situ Copolymerized Gel Polymer Electrolyte with Cross-Linked Network for Sodium-Ion Batteries. <i>CCS Chemistry</i> , 2020 , 2, 589-597	7.2	15
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