

# Yong-Sheng Hu

## List of Publications by Year in descending order

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Version: 2024-02-01

184  
papers

30,292  
citations

5574

82  
h-index

4645

170  
g-index

189  
all docs

189  
docs citations

189  
times ranked

17681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature stationary sodium-ion batteries for large-scale electric energy storage. <i>Energy and Environmental Science</i> , 2013, 6, 2338.	30.8	2,799
2	New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , 2018, 11, 1945-1976.	30.8	894
3	Superior Electrochemical Performance and Storage Mechanism of $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ Cathode for Room-Temperature Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 156-160.	19.5	817
4	Porous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Coated with N-Doped Carbon from Ionic Liquids for Li-Ion Batteries. <i>Advanced Materials</i> , 2011, 23, 1385-1388.	21.0	742
5	Carbon coated $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ as novel electrode material for sodium ion batteries. <i>Electrochemistry Communications</i> , 2012, 14, 86-89.	4.7	693
6	Hard Carbon Microtubes Made from Renewable Cotton as High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600659.	19.5	655
7	Building aqueous K-ion batteries for energy storage. <i>Nature Energy</i> , 2019, 4, 495-503.	39.5	630
8	Direct atomic-scale confirmation of three-phase storage mechanism in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anodes for room-temperature sodium-ion batteries. <i>Nature Communications</i> , 2013, 4, 1870.	12.8	628
9	Rational design of layered oxide materials for sodium-ion batteries. <i>Science</i> , 2020, 370, 708-711.	12.6	616
10	Intercalation chemistry of graphite: alkali metal ions and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4655-4687.	38.1	534
11	A zero-strain layered metal oxide as the negative electrode for long-life sodium-ion batteries. <i>Nature Communications</i> , 2013, 4, 2365.	12.8	515
12	Prototype Sodium-Ion Batteries Using an Air-Stable and Co/Ni-Free $\text{O}_3$ -Layered Metal Oxide Cathode. <i>Advanced Materials</i> , 2015, 27, 6928-6933.	21.0	504
13	Disodium Terephthalate ( $\text{Na}_2\text{C}_8\text{H}_4\text{O}_4$ ) as High Performance Anode Material for Low-Cost Room-Temperature Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2012, 2, 962-965.	19.5	498
14	Fundamentals, status and promise of sodium-based batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1020-1035.	48.7	496
15	Water-in-Salt Electrolyte Makes Aqueous Sodium-Ion Battery Safe, Green, and Long-Lasting. <i>Advanced Energy Materials</i> , 2017, 7, 1701189.	19.5	487
16	Reversible multi-electron redox chemistry of $\pi$ -conjugated N-containing heteroaromatic molecule-based organic cathodes. <i>Nature Energy</i> , 2017, 2, .	39.5	486
17	Solid-State Sodium Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1703012.	19.5	478
18	Recent advances of electrode materials for low-cost sodium-ion batteries towards practical application for grid energy storage. <i>Energy Storage Materials</i> , 2017, 7, 130-151.	18.0	469

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19	Sodium Storage and Transport Properties in Layered $\text{Na}_2\text{Ti}_3\text{O}_7$ for Room-Temperature Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 1186-1194.	19.5	456
20	Ionic liquids and derived materials for lithium and sodium batteries. <i>Chemical Society Reviews</i> , 2018, 47, 2020-2064.	38.1	452
21	Amorphous monodispersed hard carbon micro-spherules derived from biomass as a high performance negative electrode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 71-77.	10.3	432
22	P2- $\text{Na}_0.6[\text{Cr}_0.6\text{Ti}_0.4]\text{O}_2$ cation-disordered electrode for high-rate symmetric rechargeable sodium-ion batteries. <i>Nature Communications</i> , 2015, 6, 6954.	12.8	426
23	Single Lithium-Ion Conducting Polymer Electrolytes Based on a Super-Delocalized Polyanion. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2521-2525.	13.8	411
24	NASICON-Structured Materials for Energy Storage. <i>Advanced Materials</i> , 2017, 29, 1601925.	21.0	394
25	High-Entropy Layered Oxide Cathodes for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 264-269.	13.8	335
26	Atomic Structure and Kinetics of NASICON $\text{Na}_x\text{V}_2(\text{PO}_4)_3$ Cathode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 4265-4272.	14.9	323
27	A superior low-cost amorphous carbon anode made from pitch and lignin for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 96-104.	10.3	322
28	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. <i>ACS Energy Letters</i> , 2018, 3, 1212-1218.	17.4	321
29	Ti-substituted tunnel-type $\text{Na}_{0.44}\text{MnO}_2$ oxide as a negative electrode for aqueous sodium-ion batteries. <i>Nature Communications</i> , 2015, 6, 6401.	12.8	316
30	A long-life lithium-ion battery with a highly porous $\text{TiNb}_2\text{O}_7$ anode for large-scale electrical energy storage. <i>Energy and Environmental Science</i> , 2014, 7, 2220-2226.	30.8	312
31	High-Energy All-Solid-State Lithium Batteries with Ultralong Cycle Life. <i>Nano Letters</i> , 2016, 16, 7148-7154.	9.1	309
32	Batteries: Getting solid. <i>Nature Energy</i> , 2016, 1, .	39.5	295
33	Highly Ordered Mesoporous Crystalline $\text{MoSe}_2$ Material with Efficient Visible-Light-Driven Photocatalytic Activity and Enhanced Lithium Storage Performance. <i>Advanced Functional Materials</i> , 2013, 23, 1832-1838.	14.9	285
34	3D Flexible Carbon Felt Host for Highly Stable Sodium Metal Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1702764.	19.5	274
35	Atomic-scale investigation on lithium storage mechanism in $\text{TiNb}_2\text{O}_7$ . <i>Energy and Environmental Science</i> , 2011, 4, 2638.	30.8	256
36	A waste biomass derived hard carbon as a high-performance anode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13046-13052.	10.3	246

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37	Electrodeposited Aluminum-Doped $\text{Fe}_2\text{O}_3$ Photoelectrodes: Experiment and Theory. <i>Chemistry of Materials</i> , 2010, 22, 510-517.	6.7	240
38	Advanced sodium-ion batteries using superior low cost pyrolyzed anthracite anode: towards practical applications. <i>Energy Storage Materials</i> , 2016, 5, 191-197.	18.0	239
39	A Self-Forming Composite Electrolyte for Solid-State Sodium Battery with Ultralong Cycle Life. <i>Advanced Energy Materials</i> , 2017, 7, 1601196.	19.5	231
40	Interface chemistry of an amide electrolyte for highly reversible lithium metal batteries. <i>Nature Communications</i> , 2020, 11, 4188.	12.8	226
41	High-Voltage Aqueous Na-Ion Battery Enabled by Inert-Cation-Assisted Water-in-Salt Electrolyte. <i>Advanced Materials</i> , 2020, 32, e1904427.	21.0	221
42	Amorphous iron phosphate: potential host for various charge carrier ions. <i>NPG Asia Materials</i> , 2014, 6, e138-e138.	7.9	213
43	A Size-Dependent Sodium Storage Mechanism in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Investigated by a Novel Characterization Technique Combining in Situ X-ray Diffraction and Chemical Sodiation. <i>Nano Letters</i> , 2013, 13, 4721-4727.	9.1	212
44	Regulating Pore Structure of Hierarchical Porous Waste Cork-Derived Hard Carbon Anode for Enhanced Na Storage Performance. <i>Advanced Energy Materials</i> , 2019, 9, 1902852.	19.5	212
45	Advanced Nanostructured Anode Materials for Sodium-Ion Batteries. <i>Small</i> , 2017, 13, 1701835.	10.0	206
46	Revealing High Na-Content P2-Type Layered Oxides as Advanced Sodium-Ion Cathodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 5742-5750.	13.7	206
47	In situ synthesis of hierarchical poly(ionic liquid)-based solid electrolytes for high-safety lithium-ion and sodium-ion batteries. <i>Nano Energy</i> , 2017, 33, 45-54.	16.0	205
48	Tuning the Closed Pore Structure of Hard Carbons with the Highest Na Storage Capacity. <i>ACS Energy Letters</i> , 2019, 4, 2608-2612.	17.4	205
49	Superior Na-Storage Performance of Low-Temperature-Synthesized $\text{Na}_3(\text{VO}_2)_2\text{PO}_4\text{F}_{1+2x}$ ( $0 \leq x \leq 1$ ) Nanoparticles for Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9911-9916.	13.8	191
50	Hard-Soft Carbon Composite Anodes with Synergistic Sodium Storage Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1901072.	14.9	191
51	Sodium vanadium titanium phosphate electrode for symmetric sodium-ion batteries with high power and long lifespan. <i>Nature Communications</i> , 2017, 8, 15888.	12.8	188
52	Pre-Oxidation-Tuned Microstructures of Carbon Anodes Derived from Pitch for Enhancing Na Storage Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1800108.	19.5	179
53	Slope-Dominated Carbon Anode with High Specific Capacity and Superior Rate Capability for High Safety Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4361-4365.	13.8	171
54	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015, 1, e1500330.	10.3	170

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55	Correlated Migration Invokes Higher Na <sup>+</sup> Ion Conductivity in NaSICON-type Solid Electrolytes. <i>Advanced Energy Materials</i> , 2019, 9, 1902373.	19.5	162
56	A Novel High Capacity Positive Electrode Material with Tunnel-type Structure for Aqueous Sodium-ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1501005.	19.5	161
57	A ceramic/polymer composite solid electrolyte for sodium batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15823-15828.	10.3	152
58	In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO <sub>2</sub> Cathode in a Working All-Solid-State Battery. <i>Journal of the American Chemical Society</i> , 2017, 139, 4274-4277.	13.7	142
59	Ultrastable All-Solid-State Sodium Rechargeable Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2835-2841.	17.4	142
60	Interfacial engineering to achieve an energy density of over 200 Wh kg <sup>-1</sup> in sodium batteries. <i>Nature Energy</i> , 2022, 7, 511-519.	39.5	130
61	TiS <sub>2</sub> as a high performance potassium ion battery cathode in ether-based electrolyte. <i>Energy Storage Materials</i> , 2018, 12, 216-222.	18.0	129
62	Structural Engineering of Multishelled Hollow Carbon Nanostructures for High-Performance Na-ion Battery Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1800855.	19.5	121
63	Ultralow-Concentration Electrolyte for Na-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1156-1158.	17.4	120
64	Epitaxial Induced Plating Current Collector Lasting Lifespan of Anode-Free Lithium Metal Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2003709.	19.5	119
65	Using High-Entropy Configuration Strategy to Design Na-Ion Layered Oxide Cathodes with Superior Electrochemical Performance and Thermal Stability. <i>Journal of the American Chemical Society</i> , 2022, 144, 8286-8295.	13.7	112
66	2019 Nobel Prize for the Li-Ion Batteries and New Opportunities and Challenges in Na-Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 2689-2690.	17.4	109
67	Flexible Na batteries. <i>Informa-Materially</i> , 2020, 2, 126-138.	17.3	108
68	A Novel NASICON-type Na <sub>4</sub> VMn <sub>0.5</sub> Fe <sub>0.5</sub> (PO <sub>4</sub> ) <sub>3</sub> Cathode for High-Performance Na-ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100729.	19.5	108
69	Rapid mechanochemical synthesis of polyanionic cathode with improved electrochemical performance for Na-ion batteries. <i>Nature Communications</i> , 2021, 12, 2848.	12.8	108
70	Novel copper redox-based cathode materials for room-temperature sodium-ion batteries. <i>Chinese Physics B</i> , 2014, 23, 118202.	1.4	105
71	A High-Power Symmetric Na-ion Pseudocapacitor. <i>Advanced Functional Materials</i> , 2015, 25, 5778-5785.	14.9	105
72	Advanced Na metal anodes. <i>Journal of Energy Chemistry</i> , 2018, 27, 1584-1596.	12.9	99

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73	A novel NASICON-based glass-ceramic composite electrolyte with enhanced Na-ion conductivity. <i>Energy Storage Materials</i> , 2019, 23, 514-521.	18.0	97
74	Novel Large-Scale Synthesis of a C/S Nanocomposite with Mixed Conducting Networks through a Spray Drying Approach for Li-S Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500046.	19.5	96
75	The Mystery of Electrolyte Concentration: From Superhigh to Ultralow. <i>ACS Energy Letters</i> , 2020, 5, 3633-3636.	17.4	96
76	Design and Comparative Study of O3/P2 Hybrid Structures for Room Temperature Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40215-40223.	8.0	95
77	Water-in-Salt Electrolyte Promotes High-Capacity FeFe(CN) <sub>6</sub> Cathode for Aqueous Al-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41356-41362.	8.0	93
78	In Situ Formation of a Stable Interface in Solid-State Batteries. <i>ACS Energy Letters</i> , 2019, 4, 1650-1657.	17.4	93
79	Mn-Rich Phosphate Cathodes for Na-Ion Batteries with Superior Rate Performance. <i>ACS Energy Letters</i> , 2022, 7, 97-107.	17.4	91
80	Impact of the functional group in the polyanion of single lithium-ion conducting polymer electrolytes on the stability of lithium metal electrodes. <i>RSC Advances</i> , 2016, 6, 32454-32461.	3.6	90
81	Engineering Solid Electrolyte Interface at Nano-Scale for High-Performance Hard Carbon in Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2100278.	14.9	90
82	Novel Li[(CF <sub>3</sub> SO <sub>2</sub> )(n-C <sub>4</sub> F <sub>9</sub> SO <sub>2</sub> )N]-Based Polymer Electrolytes for Solid-State Lithium Batteries with Superior Electrochemical Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29705-29712.	8.0	87
83	An O <sub>3</sub> -type Oxide with Low Sodium Content as the Phase-Transition-Free Anode for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7056-7060.	13.8	87
84	Novel Methods for Sodium-Ion Battery Materials. <i>Small Methods</i> , 2017, 1, 1600063.	8.6	84
85	Advanced Characterization Techniques in Promoting Mechanism Understanding for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1707543.	14.9	81
86	MWCNT porous microspheres with an efficient 3D conductive network for high performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 775-780.	10.3	79
87	Carbon cage encapsulating nano-cluster Li <sub>2</sub> S by ionic liquid polymerization and pyrolysis for high performance Li-S batteries. <i>Nano Energy</i> , 2015, 13, 467-473.	16.0	76
88	Sodium Bis(fluorosulfonyl)imide/Poly(ethylene oxide) Polymer Electrolytes for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 1741-1745.	3.4	76
89	A new Na[(FSO <sub>2</sub> )(n-C <sub>4</sub> F <sub>9</sub> SO <sub>2</sub> )N]-based polymer electrolyte for solid-state sodium batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7738-7743.	10.3	76
90	Unlocking Sustainable Na-Ion Batteries into Industry. <i>ACS Energy Letters</i> , 2021, 6, 4115-4117.	17.4	76

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91	A spray drying approach for the synthesis of a Na <sub>2</sub> C <sub>6</sub> H <sub>2</sub> O <sub>4</sub> /CNT nanocomposite anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13193-13197.	10.3	75
92	All-Cellulose-Based Quasi-Solid-State Sodium-Ion Hybrid Capacitors Enabled by Structural Hierarchy. <i>Advanced Functional Materials</i> , 2019, 29, 1903895.	14.9	75
93	Iodine Vapor Transport-Triggered Preferential Growth of Chevrel Mo <sub>6</sub> S <sub>8</sub> Nanosheets for Advanced Multivalent Batteries. <i>ACS Nano</i> , 2020, 14, 1102-1110.	14.6	72
94	Ultralight Electrolyte for High-Energy Lithium-Sulfur Pouch Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17547-17555.	13.8	72
95	Toothpaste-like Electrode: A Novel Approach to Optimize the Interface for Solid-State Sodium-Ion Batteries with Ultralong Cycle Life. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32631-32636.	8.0	71
96	A class of liquid anode for rechargeable batteries with ultralong cycle life. <i>Nature Communications</i> , 2017, 8, 14629.	12.8	71
97	Li-Rich Li <sub>2</sub> [Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> for Anode-Free Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8289-8296.	13.8	71
98	Interface Concentrated-Confinement Suppressing Cathode Dissolution in Water-In-Salt Electrolyte. <i>Advanced Energy Materials</i> , 2020, 10, 2000665.	19.5	70
99	Homogenous metallic deposition regulated by defect-rich skeletons for sodium metal batteries. <i>Energy and Environmental Science</i> , 2021, 14, 6381-6393.	30.8	70
100	Phase Separation of Li <sub>2</sub> S/S at Nanoscale during Electrochemical Lithiation of the Solid-State Lithium-Sulfur Battery Using In Situ TEM. <i>Advanced Energy Materials</i> , 2016, 6, 1600806.	19.5	69
101	Unveiling the role of hydrothermal carbon dots as anodes in sodium-ion batteries with ultrahigh initial coulombic efficiency. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27567-27575.	10.3	69
102	Metal-Insulator Transition Induced by Oxygen Vacancies from Electrochemical Reaction in Ionic Liquid-Gated Manganite Films. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500407.	3.7	68
103	Core-Shell Fe <sub>1</sub> S@Na <sub>2.9</sub> PS <sub>3.95</sub> Se <sub>0.05</sub> Nanorods for Room Temperature All-Solid-State Sodium Batteries with High Energy Density. <i>ACS Nano</i> , 2018, 12, 2809-2817.	14.6	68
104	Improved Cycling Stability of Lithium-Metal Anode with Concentrated Electrolytes Based on Lithium (Fluorosulfonyl)(trifluoromethanesulfonyl)imide. <i>ChemElectroChem</i> , 2016, 3, 531-536.	3.4	67
105	Improved Li storage performance in SnO <sub>2</sub> nanocrystals by a synergetic doping. <i>Scientific Reports</i> , 2016, 6, 18978.	3.3	67
106	Ni-based cathode materials for Na-ion batteries. <i>Nano Research</i> , 2019, 12, 2018-2030.	10.4	67
107	Nanoscaled Na <sub>3</sub> PS <sub>4</sub> Solid Electrolyte for All-Solid-State FeS <sub>2</sub> /Na Batteries with Ultrahigh Initial Coulombic Efficiency of 95% and Excellent Cyclic Performances. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12300-12304.	8.0	64
108	NASICON-structured Na <sub>3.1</sub> Zr <sub>1.95</sub> Mg <sub>0.05</sub> Si <sub>2</sub> PO <sub>12</sub> solid electrolyte for solid-state sodium batteries. <i>Rare Metals</i> , 2018, 37, 480-487.	7.1	63



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109	Amorphous anion-rich titanium polysulfides for aluminum-ion batteries. <i>Science Advances</i> , 2021, 7, .	10.3	63
110	Ambient Lithium <sup>+</sup> SO <sub>2</sub> Batteries with Ionic Liquids as Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2099-2103.	13.8	62
111	Novel Concentrated Li[(FSO <sub>2</sub> )(n-C <sub>4</sub> F <sub>9</sub> SO <sub>2</sub> ) <sub>N</sub> ]-Based Ether Electrolyte for Superior Stability of Metallic Lithium Anode. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4282-4289.	8.0	62
112	The Role of Hydrothermal Carbonization in Sustainable Sodium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	61
113	Three-dimensional atomic-scale observation of structural evolution of cathode material in a working all-solid-state battery. <i>Nature Communications</i> , 2018, 9, 3341.	12.8	60
114	Screening Heteroatom Configurations for Reversible Sloping Capacity Promises High-Power Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	58
115	Hunting Sodium Dendrites in NASICON-Based Solid-State Electrolytes. <i>Energy Material Advances</i> , 2021, 2021, .	11.0	57
116	Aqueous interphase formed by CO <sub>2</sub> brings electrolytes back to salt-in-water regime. <i>Nature Chemistry</i> , 2021, 13, 1061-1069.	13.6	57
117	Integrated Surface Functionalization of Li-Rich Cathode Materials for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 41802-41813.	8.0	56
118	Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800880.	19.5	56
119	Suppressing the voltage decay of low-cost P2-type iron-based cathode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20795-20803.	10.3	54
120	Atomic-Scale Monitoring of Electrode Materials in Lithium-Ion Batteries using In Situ Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , 2017, 7, 1700709.	19.5	53
121	Remarkably Improved Electrode Performance of Bulk MnS by Forming a Solid Solution with FeS – Understanding the Li Storage Mechanism. <i>Advanced Functional Materials</i> , 2014, 24, 5557-5566.	14.9	49
122	Revealing an Interconnected Interfacial Layer in Solid-State Polymer Sodium Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17026-17032.	13.8	48
123	Stabilizing a sodium-metal battery with the synergy effects of a sodiophilic matrix and fluorine-rich interface. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24857-24867.	10.3	48
124	Sodium-Deficient O <sub>3</sub> Na <sub>0.9</sub> [Ni <sub>0.4</sub> Mn <sub>x</sub> Ti <sub>0.6</sub> ] <sub>2</sub> Layered-Oxide Cathode Materials for Sodium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 538-544.	2.3	47
125	Enhanced Structural and Electrochemical Stability of Self-Similar Rice-Shaped SnO <sub>2</sub> Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9747-9755.	8.0	47
126	High-Charge Density Polymerized Ionic Networks Boosting High Ionic Conductivity as Quasi-Solid Electrolytes for High-Voltage Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4001-4010.	8.0	47



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127	A Better Choice to Achieve High Volumetric Energy Density: Anode-Free Lithium-Metal Batteries. <i>Advanced Materials</i> , 2022, 34, e2110323.	21.0	46
128	Carbon-coated rhombohedral $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ as both cathode and anode materials for lithium-ion batteries: electrochemical performance and lithium storage mechanism. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20231-20236.	10.3	44
129	Disordered carbon anodes for Na-ion batteries—quo vadis?. <i>Science China Chemistry</i> , 2021, 64, 1679-1692.	8.2	44
130	Topologically protected oxygen redox in a layered manganese oxide cathode for sustainable batteries. <i>Nature Sustainability</i> , 2022, 5, 214-224.	23.7	44
131	Na-deficient O3-type cathode material $\text{Na}_{0.8}[\text{Ni}_{0.3}\text{Co}_{0.2}\text{Ti}_{0.5}]\text{O}_2$ for room-temperature sodium-ion batteries. <i>Electrochimica Acta</i> , 2015, 158, 258-263.	5.2	43
132	Novel approach for a high-energy-density Li-air battery: tri-dimensional growth of $\text{Li}_2\text{O}_2$ crystals tailored by electrolyte $\text{Li}^+$ ion concentrations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9020.	10.3	41
133	The low-temperature (400 Å°C) coating of few-layer graphene on porous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ via $\text{C}_{28}\text{H}_{16}\text{Br}_2$ pyrolysis for lithium-ion batteries. <i>RSC Advances</i> , 2012, 2, 1751.	3.6	40
134	Impact of Anionic Structure of Lithium Salt on the Cycling Stability of Lithium-Metal Anode in Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1776-A1783.	2.9	40
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