

Yaxiang Lu

List of Publications by Year in descending order

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63
papers

8,344
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71102

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times ranked

6196
citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of NASICON Electrolyte and Its Application in Real Na-Ion Cells. <i>Engineering</i> , 2022, 8, 170-180.	6.7	12
2	Screening Heteroatom Configurations for Reversible Sloping Capacity Promises High-Power Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	58
3	Large Scale One-Pot Synthesis of Monodispersed Na ₃ (VOPO) ₄ F Cathode for Na-Ion Batteries. <i>Energy Material Advances</i> , 2022, 2022, .	11.0	16
4	Mg-doped layered oxide cathode for Na-ion batteries. <i>Chinese Physics B</i> , 2022, 31, 068201.	1.4	6
5	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
6	Achieving high initial Coulombic efficiency for competent Na storage by microstructure tailoring from chiral nematic nanocrystalline cellulose. , 2022, 4, 914-923.		13
7	Interfacial engineering to achieve an energy density of over 200 Wh kg ⁻¹ in sodium batteries. <i>Nature Energy</i> , 2022, 7, 511-519.	39.5	130
8	Additive-Free Self-Pre-sodiation Strategy for High-Performance Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101475.	14.9	36
9	Hunting Sodium Dendrites in NASICON-Based Solid-State Electrolytes. <i>Energy Material Advances</i> , 2021, 2021, .	11.0	57
10	Fundamentals, status and promise of sodium-based batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1020-1035.	48.7	496
11	Thermal Stability of High Power 26650-Type Cylindrical Na-Ion Batteries. <i>Chinese Physics Letters</i> , 2021, 38, 076501.	3.3	13
12	Disordered carbon anodes for Na-ion batteries—quo vadis?. <i>Science China Chemistry</i> , 2021, 64, 1679-1692.	8.2	44
13	Recent Progress in Pre-sodiation Technique for High-Performance Na-Ion Batteries. <i>Chinese Physics Letters</i> , 2021, 38, 118401.	3.3	9
14	High-Entropy Layered Oxide Cathodes for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 264-269.	13.8	335
15	Flexible Na batteries. <i>Informa-Materials</i> , 2020, 2, 126-138.	17.3	108
16	High-Entropy Layered Oxide Cathodes for Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 270-275.	2.0	15
17	Retarding graphitization of soft carbon precursor: From fusion-state to solid-state carbonization. <i>Energy Storage Materials</i> , 2020, 26, 577-584.	18.0	56
18	The Mystery of Electrolyte Concentration: From Superhigh to Ultralow. <i>ACS Energy Letters</i> , 2020, 5, 3633-3636.	17.4	96

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19	Rational design of layered oxide materials for sodium-ion batteries. <i>Science</i> , 2020, 370, 708-711.	12.6	616
20	Ultralow-Concentration Electrolyte for Na-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1156-1158.	17.4	120
21	PEO-NaPF ₆ Blended Polymer Electrolyte for Solid State Sodium Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070523.	2.9	37
22	Constructing Na-ion Cathodes via Alkali-Site Substitution. <i>Advanced Functional Materials</i> , 2020, 30, 1910840.	14.9	28
23	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
24	Failure analysis with a focus on thermal aspect towards developing safer Na-ion batteries*. <i>Chinese Physics B</i> , 2020, 29, 048201.	1.4	26
25	A Novel Ni-rich O3-Na[Ni _{0.60} Fe _{0.25} Mn _{0.15}]O ₂ Cathode for Na-ion Batteries. <i>Energy Storage Materials</i> , 2020, 30, 420-430.	18.0	102
26	A new Tin-based O3-Na _{0.9} [Ni _{0.45} ²⁺ /2Mn Sn _{0.55} ²⁺]/2]O ₂ as sodium-ion battery cathode. <i>Journal of Energy Chemistry</i> , 2019, 31, 132-137.	12.9	39
27	Intercalation chemistry of graphite: alkali metal ions and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4655-4687.	38.1	534
28	Hard carbons derived from pine nut shells as anode materials for Na-ion batteries*. <i>Chinese Physics B</i> , 2019, 28, 068203.	1.4	10
29	Revealing an Interconnected Interfacial Layer in Solid-State Polymer Sodium Batteries. <i>Angewandte Chemie</i> , 2019, 131, 17182-17188.	2.0	7
30	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
31	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
32	Revealing an Interconnected Interfacial Layer in Solid-State Polymer Sodium Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17026-17032.	13.8	48
33	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
34	Ti Substitution Facilitating Oxygen Oxidation in Na ₂ /3Mg ₁ /3Ti ₁ /6Mn ₁ /2O ₂ Cathode. <i>CheM</i> , 2019, 5, 2913-2925.	11.7	75
35	Triple effects of Sn-substitution on Na _{0.67} Ni _{0.33} Mn _{0.67} O ₂ . <i>Journal of Materials Science and Technology</i> , 2019, 35, 1250-1254.	10.7	20
36	Slope-Dominated Carbon Anode with High Specific Capacity and Superior Rate Capability for High Safety Na-ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 4405-4409.	2.0	36

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37	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
38	Ni-based cathode materials for Na-ion batteries. <i>Nano Research</i> , 2019, 12, 2018-2030.	10.4	67
39	Sodium-ion Batteries: Hard-Soft Carbon Composite Anodes with Synergistic Sodium Storage Performance (<i>Adv. Funct. Mater.</i> 24/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970164.	14.9	4
40	Research and development of advanced battery materials in China. <i>Energy Storage Materials</i> , 2019, 23, 144-153.	18.0	168
41	Building aqueous K-ion batteries for energy storage. <i>Nature Energy</i> , 2019, 4, 495-503.	39.5	630
42	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
43	Hard-Soft Carbon Composite Anodes with Synergistic Sodium Storage Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1901072.	14.9	191
44	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
45	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
46	Superior electrochemical performance of sodium-ion full-cell using poplar wood derived hard carbon anode. <i>Energy Storage Materials</i> , 2019, 18, 269-279.	18.0	94
47	Anionic Redox Reaction-Induced High-Capacity and Low-Strain Cathode with Suppressed Phase Transition. <i>Joule</i> , 2019, 3, 503-517.	24.0	262
48	Decreasing transition metal triggered oxygen redox activity in Na-deficient oxides. <i>Energy Storage Materials</i> , 2019, 20, 395-400.	18.0	58
49	Solid-State Sodium Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1703012.	19.5	478
50	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
51	Multi-electron reaction materials for sodium-based batteries. <i>Materials Today</i> , 2018, 21, 960-973.	14.2	103
52	Advanced Na metal anodes. <i>Journal of Energy Chemistry</i> , 2018, 27, 1584-1596.	12.9	99
53	Anthraquinone derivative as high-performance anode material for sodium-ion batteries using ether-based electrolytes. <i>Green Energy and Environment</i> , 2018, 3, 63-70.	8.7	20
54	P2-type Na _{0.6} [Mg(II) _{0.3} Mn(IV) _{0.7}]O ₂ as a new model material for anionic redox reaction. <i>Chinese Chemical Letters</i> , 2018, 29, 1791-1794.	9.0	8

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55	High-temperature treatment induced carbon anode with ultrahigh Na storage capacity at low-voltage plateau. <i>Science Bulletin</i> , 2018, 63, 1125-1129.	9.0	107
56	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
57	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
58	Review on anionic redox for high-capacity lithium- and sodium-ion batteries. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 183001.	2.8	53
59	Novel Methods for Sodium-ion Battery Materials. <i>Small Methods</i> , 2017, 1, 1600063.	8.6	84
60	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
61	Advanced Nanostructured Anode Materials for Sodium-ion Batteries. <i>Small</i> , 2017, 13, 1701835.	10.0	206
62	A high-performance sodium-ion battery enhanced by macadamia shell derived hard carbon anode. <i>Nano Energy</i> , 2017, 39, 489-498.	16.0	172
63	Screening Heteroatom Configurations for Reversible Sloping Capacity Promises High-Power Na-ion Batteries. <i>Angewandte Chemie</i> , 0, , .	2.0	23