

Xuejie Huang

List of Publications by Year in descending order

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194
papers

20,026
citations

14124

69
h-index

12638

137
g-index

197
all docs

197
docs citations

197
times ranked

17662
citing authors

#	ARTICLE	IF	CITATIONS
1	Research on Advanced Materials for Li-ion Batteries. <i>Advanced Materials</i> , 2009, 21, 4593-4607.	11.1	1,633
2	Hard Carbon Microtubes Made from Renewable Cotton as High-Performance Anode Material for Sodium-ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600659.	10.2	655
3	Monodispersed hard carbon spherules with uniform nanopores. <i>Carbon</i> , 2001, 39, 2211-2214.	5.4	644
4	Building aqueous K-ion batteries for energy storage. <i>Nature Energy</i> , 2019, 4, 495-503.	19.8	630
5	Rational design of layered oxide materials for sodium-ion batteries. <i>Science</i> , 2020, 370, 708-711.	6.0	616
6	Trace doping of multiple elements enables stable battery cycling of LiCoO ₂ at 4.6%V. <i>Nature Energy</i> , 2019, 4, 594-603.	19.8	572
7	Prototype Sodium-ion Batteries Using an Air-Stable and Co/Ni-Free O ₃ -Layered Metal Oxide Cathode. <i>Advanced Materials</i> , 2015, 27, 6928-6933.	11.1	504
8	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.	9.5	469
9	Kinetic analysis on LiFePO ₄ thin films by CV, GITT, and EIS. <i>Electrochimica Acta</i> , 2011, 56, 4869-4875.	2.6	435
10	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.	5.2	432
11	Single Lithium-ion Conducting Polymer Electrolytes Based on a Super-Delocalized Polyanion. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2521-2525.	7.2	411
12	The crystal structural evolution of nano-Si anode caused by lithium insertion and extraction at room temperature. <i>Solid State Ionics</i> , 2000, 135, 181-191.	1.3	401
13	Alumina-Coated Patterned Amorphous Silicon as the Anode for a Lithium-ion Battery with High Coulombic Efficiency. <i>Advanced Materials</i> , 2011, 23, 4938-4941.	11.1	397
14	A comparative study of Fd-3m and P4332 $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$. <i>Solid State Ionics</i> , 2011, 193, 32-38.	1.3	327
15	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.	5.2	322
16	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.	8.8	321
17	Ti-substituted tunnel-type Na _{0.44} MnO ₂ oxide as a negative electrode for aqueous sodium-ion batteries. <i>Nature Communications</i> , 2015, 6, 6401.	5.8	316
18	Review Nano-Silicon/Carbon Composite Anode Materials Towards Practical Application for Next Generation Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2509-A2528.	1.3	289

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19	Lithium bis(fluorosulfonyl)imide/poly(ethylene oxide) polymer electrolyte. <i>Electrochimica Acta</i> , 2014, 133, 529-538.	2.6	273
20	Single lithium-ion conducting polymer electrolytes based on poly[(4-styrenesulfonyl)(trifluoromethanesulfonyl)imide] anions. <i>Electrochimica Acta</i> , 2013, 93, 254-263.	2.6	257
21	First-principles study of Li ion diffusion in LiFePO ₄ . <i>Physical Review B</i> , 2004, 69, .	1.1	250
22	Enhancement of electronic conductivity of LiFePO ₄ by Cr doping and its identification by first-principles calculations. <i>Physical Review B</i> , 2003, 68, .	1.1	249
23	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.	5.2	246
24	Advanced sodium-ion batteries using superior low cost pyrolyzed anthracite anode: towards practical applications. <i>Energy Storage Materials</i> , 2016, 5, 191-197.	9.5	239
25	A Self-Forming Composite Electrolyte for Solid-State Sodium Battery with Ultralong Cycle Life. <i>Advanced Energy Materials</i> , 2017, 7, 1601196.	10.2	231
26	Surface Structure Evolution of LiMn ₂ O ₄ Cathode Material upon Charge/Discharge. <i>Chemistry of Materials</i> , 2014, 26, 3535-3543.	3.2	223
27	Structural and electrochemical characterizations of surface-modified LiCoO ₂ cathode materials for Li-ion batteries. <i>Solid State Ionics</i> , 2002, 148, 335-342.	1.3	204
28	Novel spherical microporous carbon as anode material for Li-ion batteries. <i>Solid State Ionics</i> , 2002, 152-153, 43-50.	1.3	197
29	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. <i>ACS Energy Letters</i> , 2020, 5, 826-832.	8.8	192
30	Studies on Capacity Loss and Capacity Fading of Nanosized SnSb Alloy Anode for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2001, 148, A915.	1.3	191
31	Pre-Oxidation-Tuned Microstructures of Carbon Anodes Derived from Pitch for Enhancing Na Storage Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1800108.	10.2	179
32	Electrochemical Evaluation and Structural Characterization of Commercial LiCoO ₂ Surfaces Modified with MgO for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2002, 149, A466.	1.3	175
33	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.	7.2	171
34	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015, 1, e1500330.	4.7	170
35	Correlated Migration Invokes Higher Na ⁺ Ion Conductivity in NaSICON-Type Solid Electrolytes. <i>Advanced Energy Materials</i> , 2019, 9, 1902373.	10.2	162
36	A Novel High Capacity Positive Electrode Material with Tunnel-Type Structure for Aqueous Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1501005.	10.2	161

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37	Studies of Stannic Oxide as an Anode Material for Lithium-ion Batteries. Journal of the Electrochemical Society, 1998, 145, 59-62.	1.3	156
38	Nano-alloy anode for lithium ion batteries. Solid State Ionics, 2002, 148, 247-258.	1.3	155
39	Nanosized SnSb Alloy Pinning on Hard Non-Graphitic Carbon Spherules as Anode Materials for a Li Ion Battery. Chemistry of Materials, 2002, 14, 103-108.	3.2	153
40	A ceramic/polymer composite solid electrolyte for sodium batteries. Journal of Materials Chemistry A, 2016, 4, 15823-15828.	5.2	152
41	Insight into the Atomic Structure of High-Voltage Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode Material in the First Cycle. Chemistry of Materials, 2015, 27, 292-303.	3.2	151
42	Monodispersed hard carbon spherules as a catalyst support for the electrooxidation of methanol. Carbon, 2005, 43, 11-16.	5.4	132
43	Interfacial engineering to achieve an energy density of over 200 Wh kg^{-1} in sodium batteries. Nature Energy, 2022, 7, 511-519.	19.8	130
44	Al_2O_3 -coated LiCoO_2 as cathode material for lithium ion batteries. Solid State Ionics, 2002, 152-153, 341-346.	1.3	125
45	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. Angewandte Chemie - International Edition, 2020, 59, 534-538.	7.2	124
46	Epitaxial Induced Plating Current-Collector Lasting Lifespan of Anode-Free Lithium Metal Battery. Advanced Energy Materials, 2021, 11, 2003709.	10.2	119
47	Shape evolution of patterned amorphous and polycrystalline silicon microarray thin film electrodes caused by lithium insertion and extraction. Journal of Power Sources, 2012, 216, 131-138.	4.0	117
48	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. Angewandte Chemie - International Edition, 2019, 58, 4323-4327.	7.2	114
49	Silicon-based nanosheets synthesized by a topochemical reaction for use as anodes for lithium ion batteries. Nano Research, 2015, 8, 2654-2662.	5.8	109
50	Electrochemical and In Situ Synchrotron XRD Studies on Al_2O_3 -Coated LiCoO_2 Cathode Material. Journal of the Electrochemical Society, 2004, 151, A1344.	1.3	108
51	Nano-SnSb alloy deposited on MCMB as an anode material for lithium ion batteries. Journal of Materials Chemistry, 2001, 11, 1502-1505.	6.7	98
52	Novel Large-Scale Synthesis of a C/S Nanocomposite with Mixed Conducting Networks through a Spray Drying Approach for Li-S Batteries. Advanced Energy Materials, 2015, 5, 1500046.	10.2	96
53	Ag-enhanced SEI formation on Si particles for lithium batteries. Electrochemistry Communications, 2003, 5, 935-939.	2.3	94
54	Ionic liquid electrolyte of lithium bis(fluorosulfonyl)imide/N-methyl-N-propylpiperidinium bis(fluorosulfonyl)imide for Li/natural graphite cells: Effect of concentration of lithium salt on the physicochemical and electrochemical properties. Electrochimica Acta, 2014, 149, 370-385.	2.6	91

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55	Nano-Sn embedded in expanded graphite as anode for lithium ion batteries with improved low temperature electrochemical performance. <i>Electrochimica Acta</i> , 2016, 187, 186-192.	2.6	91
56	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.	1.7	90
57	Dendrite-Free Lithium Deposition with Self-Aligned Columnar Structure in a Carbonate/Ether Mixed Electrolyte. <i>ACS Energy Letters</i> , 2017, 2, 1296-1302.	8.8	90
58	Unusual Spinel-to-Layered Transformation in LiMn_2O_4 Cathode Explained by Electrochemical and Thermal Stability Investigation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35463-35475.	4.0	90
59	Electrochemical behavior and microstructure variation of hard carbon nano-spherules as anode material for Li-ion batteries. <i>Solid State Ionics</i> , 2007, 178, 265-271.	1.3	87
60	Novel $\text{Li}[(\text{CF}_3\text{SO}_2)_n\text{C}_4\text{F}_9\text{SO}_2\text{N}]$ -Based Polymer Electrolytes for Solid-State Lithium Batteries with Superior Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29705-29712.	4.0	87
61	Obtaining ultra-long copper nanowires via a hydrothermal process. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 761-765.	2.8	85
62	Performance Improvement of Surface-Modified LiCoO_2 Cathode Materials: An Infrared Absorption and X-Ray Photoelectron Spectroscopic Investigation. <i>Journal of the Electrochemical Society</i> , 2003, 150, A199.	1.3	82
63	Advanced Characterization Techniques in Promoting Mechanism Understanding for Lithium/Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1707543.	7.8	81
64	Cr_2O_3 -Based Anode Materials for Li-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A66.	2.2	79
65	4.2 V poly(ethylene oxide)-based all-solid-state lithium batteries with superior cycle and safety performance. <i>Energy Storage Materials</i> , 2020, 32, 191-198.	9.5	77
66	Sodium Bis(fluorosulfonyl)imide/Poly(ethylene oxide) Polymer Electrolytes for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 1741-1745.	1.7	76
67	A new $\text{Na}[(\text{FSO}_2)_n\text{C}_4\text{F}_9\text{SO}_2\text{N}]$ -based polymer electrolyte for solid-state sodium batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7738-7743.	5.2	76
68	A spray drying approach for the synthesis of a $\text{Na}_2\text{C}_6\text{H}_2\text{O}_4/\text{CNT}$ nanocomposite anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13193-13197.	5.2	75
69	Understanding the effects of surface reconstruction on the electrochemical cycling performance of the spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ cathode material at elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 822-834.	5.2	75
70	$\text{Na}_{3.4}\text{Zr}_{1.8}\text{Mg}_{0.2}\text{Si}_2\text{PO}_{12}$ filled poly(ethylene oxide)/ $\text{Na}(\text{CF}_3\text{SO}_2)_2\text{N}$ as flexible composite polymer electrolyte for solid-state sodium batteries. <i>Journal of Power Sources</i> , 2017, 372, 270-275.	4.0	74
71	Iodine Vapor Transport-Triggered Preferential Growth of Chevrel Mo_6S_8 Nanosheets for Advanced Multivalent Batteries. <i>ACS Nano</i> , 2020, 14, 1102-1110.	7.3	72
72	Ultralight Electrolyte for High-Energy Lithium/Sulfur Pouch Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17547-17555.	7.2	72

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73	Toothpaste-like Electrode: A Novel Approach to Optimize the Interface for Solid-State Sodium-Ion Batteries with Ultralong Cycle Life. ACS Applied Materials & Interfaces, 2016, 8, 32631-32636.	4.0	71
74	A class of liquid anode for rechargeable batteries with ultralong cycle life. Nature Communications, 2017, 8, 14629.	5.8	71
75	Li-rich $\text{Li}_{2-x}[\text{Ni}_{0.8-x}\text{Co}_{0.1-x}\text{Mn}_{0.1-x}]\text{O}_2$ for Anode-Free Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 8289-8296.	7.2	71
76	Spectroscopic studies on interactions and microstructures in propylene carbonate/LiTFSI electrolytes. Journal of Raman Spectroscopy, 2001, 32, 900-905.	1.2	70
77	Interface Concentrated Electrolyte Confinement Suppressing Cathode Dissolution in Water-in-Salt Electrolyte. Advanced Energy Materials, 2020, 10, 2000665.	10.2	70
78	Improved Cycling Stability of Lithium-Metal Anode with Concentrated Electrolytes Based on Lithium (Fluorosulfonyl)(trifluoromethanesulfonyl)imide. ChemElectroChem, 2016, 3, 531-536.	1.7	67
79	Synthesis and electrochemical performance of dendrite-like nanosized SnSb alloy prepared by co-precipitation in alcohol solution at low temperature. Journal of Materials Chemistry, 2000, 10, 693-696.	6.7	64
80	Investigation of the structural changes in Li_xFePO_4 upon charging by synchrotron radiation techniques. Journal of Materials Chemistry, 2011, 21, 11406.	6.7	64
81	Origin of Solid Electrolyte Interphase on Nanosized LiCoO_2 . Electrochemical and Solid-State Letters, 2006, 9, A328.	2.2	63
82	Amorphous anion-rich titanium polysulfides for aluminum-ion batteries. Science Advances, 2021, 7, .	4.7	63
83	Improved Electrochemical Performances of Surface-Modified Spinel LiMn_2O_4 for Long Cycle Life Lithium-Ion Batteries. Journal of the Electrochemical Society, 2003, 150, A1294.	1.3	62
84	Novel Concentrated $\text{Li}[(\text{FSO}_2)_2(\text{n-C}_4\text{F}_9\text{SO}_2)_2\text{N}]$ -Based Ether Electrolyte for Superior Stability of Metallic Lithium Anode. ACS Applied Materials & Interfaces, 2017, 9, 4282-4289.	4.0	62
85	Three-dimensional atomic-scale observation of structural evolution of cathode material in a working all-solid-state battery. Nature Communications, 2018, 9, 3341.	5.8	60
86	First-principles investigation of the structural, magnetic, and electronic properties of olivine LiFePO_4 . Physical Review B, 2005, 71, .	1.1	57
87	Origin of the Ni/Mn ordering in high-voltage spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$: The role of oxygen vacancies and cation doping. Computational Materials Science, 2016, 115, 109-116.	1.4	57
88	Realizing long-term cycling stability and superior rate performance of $4.5\text{V}\text{LiCoO}_2$ by aluminum doped zinc oxide coating achieved by a simple wet-mixing method. Journal of Power Sources, 2020, 470, 228423.	4.0	57
89	Aqueous interphase formed by CO_2 brings electrolytes back to salt-in-water regime. Nature Chemistry, 2021, 13, 1061-1069.	6.6	57
90	Competition Between the Plasticizer and Polymer on Associating with Li^+ Ions in Polyacrylonitrile-Based Electrolytes. Journal of the Electrochemical Society, 1997, 144, 778-786.	1.3	55

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91	Electrochemical behavior and surface structural change of LiMn_2O_4 charged to 5.1 V. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14519-14527.	5.2	54
92	The effect of cation doping on spinel LiMn_2O_4 : a first-principles investigation. <i>Solid State Communications</i> , 2003, 126, 531-534.	0.9	52
93	First-principles studies of cation-doped spinel LiMn_2O_4 for lithium ion batteries. <i>Physical Review B</i> , 2003, 67, .	1.1	51
94	Understanding Surface Structural Stabilization of the High-Temperature and High-Voltage Cycling Performance of Al^{3+} -Modified LiMn_2O_4 Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 550-559.	4.0	51
95	Influence of micropore structure on Li-storage capacity in hard carbon spherules. <i>Solid State Ionics</i> , 2005, 176, 1151-1159.	1.3	48
96	Characterization of Spontaneous Reactions of LiCoO_2 with Electrolyte Solvent for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2004, 151, A1641.	1.3	47
97	Sodium-Deficient $\text{O}_3\text{Na}_{0.9}\text{[Ni}_{0.4}\text{Mn}_x\text{Ti}_{0.6-x}\text{O}_2]$ Layered Oxide Cathode Materials for Sodium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 538-544.	1.2	47
98	Using Li_2S to Compensate for the Loss of Active Lithium in Li-ion Batteries. <i>Electrochimica Acta</i> , 2017, 255, 212-219.	2.6	47
99	A Better Choice to Achieve High Volumetric Energy Density: Anode-Free Lithium-Metal Batteries. <i>Advanced Materials</i> , 2022, 34, e2110323.	11.1	46
100	Atomic insight into electrochemical inactivity of lithium chromate (LiCrO_2): Irreversible migration of chromium into lithium layers in surface regions. <i>Journal of Power Sources</i> , 2015, 273, 1218-1225.	4.0	45
101	Dispersion effects of Raman lines in carbons. <i>Journal of Applied Physics</i> , 1998, 84, 227-231.	1.1	44
102	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.	1.3	40
103	Low-Density Fluorinated Silane Solvent Enhancing Deep Cycle Lithium-Sulfur Batteries™ Lifetime. <i>Advanced Materials</i> , 2021, 33, e2102034.	11.1	39
104	First-principle investigations of N doping in LiFePO_4 . <i>Solid State Communications</i> , 2008, 147, 505-509.	0.9	38
105	Electrochemical performance of LiFePO_4 thin films with different morphology and crystallinity. <i>Electrochimica Acta</i> , 2009, 54, 6565-6569.	2.6	38
106	Structural, electronic and Li diffusion properties of LiFeSO_4F . <i>Solid State Ionics</i> , 2010, 181, 1209-1213.	1.3	38
107	Understanding the Formation of the Truncated Morphology of High-Voltage Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ via Direct Atomic-Level Structural Observations. <i>Chemistry of Materials</i> , 2018, 30, 2174-2182.	3.2	38
108	Application of Li_2S to compensate for loss of active lithium in a Si-C anode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6206-6211.	5.2	37

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109	Characterizations of crystalline structure and electrical properties of pyrolyzed polyfurfuryl alcohol. <i>Journal of Applied Physics</i> , 1997, 82, 5705-5710.	1.1	36
110	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.	1.6	36
111	Novel 1.5 V anode materials, ATiOPO ₄ (A = NH ₄ , K, Na), for room-temperature sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7141-7147.	5.2	35
112	Lithium salt with a super-delocalized perfluorinated sulfonimide anion as conducting salt for lithium-ion cells: Physicochemical and electrochemical properties. <i>Journal of Power Sources</i> , 2015, 296, 142-149.	4.0	30
113	Raising the Intrinsic Safety of Layered Oxide Cathodes by Surface Re-lithiation with LLZTO Garnet-type Solid Electrolytes. <i>Advanced Materials</i> , 2022, 34, e2200655.	11.1	30
114	Ab initio studies on the stability and electronic structure of LiCoO ₂ (003) surfaces. <i>Physical Review B</i> , 2005, 71, .	1.1	29
115	Needle-like LiFePO ₄ thin films prepared by an off-axis pulsed laser deposition technique. <i>Thin Solid Films</i> , 2009, 517, 2618-2622.	0.8	29
116	Improving the High-Temperature Resilience of LiMn ₂ O ₄ -Based Batteries: LiFNFSI an Effective Salt. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1158-A1164.	1.3	29
117	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. <i>Angewandte Chemie</i> , 2020, 132, 542-546.	1.6	28
118	TG-MS analysis on thermal decomposable components in the SEI film on Cr ₂ O ₃ powder anode in Li-ion batteries. <i>Ionics</i> , 2009, 15, 91-96.	1.2	27
119	Si-Cu Thin Film Electrode with Kirkendall Voids Structure for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A2076-A2081.	1.3	26
120	Single Lithium-Ion Conducting Polymer Electrolytes Based on a Super-Delocalized Polyanion. <i>Angewandte Chemie</i> , 2016, 128, 2567-2571.	1.6	26
121	Dense All-Electrochemically Active Electrodes for All-Solid-State Lithium Batteries. <i>Advanced Materials</i> , 2021, 33, e2008723.	11.1	26
122	Surface-Enhanced Raman Scattering Study on Passivating Films of Ag Electrodes in Lithium Batteries. <i>Journal of Physical Chemistry B</i> , 2000, 104, 8477-8480.	1.2	25
123	Impact of High Valence State Cation Ti/Ta Surface Doping on the Stabilization of Spinel LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials: A Systematic Density Functional Theory Investigation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800077.	1.9	25
124	Joint Cationic and Anionic Redox Chemistry for Advanced Mg Batteries. <i>Nano Letters</i> , 2020, 20, 6852-6858.	4.5	25
125	Agglomeration and the surface passivating film of Ag nano-brush electrode in lithium batteries. <i>Solid State Ionics</i> , 2002, 149, 185-192.	1.3	24
126	Investigation of Lithium Storage in Bamboo-like CNTs by HRTEM. <i>Journal of the Electrochemical Society</i> , 2003, 150, A1281.	1.3	24

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127	Factors that affect activation energy for Li diffusion in LiFePO ₄ : A first-principles investigation. <i>Solid State Ionics</i> , 2010, 181, 907-913.	1.3	24
128	Molten salt of lithium bis(fluorosulfonyl)imide (LiFSI)-potassium bis(fluorosulfonyl)imide (KFSI) as electrolyte for the natural graphite/LiFePO ₄ lithium-ion cell. <i>Electrochimica Acta</i> , 2014, 135, 217-223.	2.6	24
129	Improving the electrochemical cycling performance of anode materials via facile in situ surface deposition of a solid electrolyte layer. <i>Journal of Power Sources</i> , 2019, 424, 150-157.	4.0	24
130	Ag-deposited mesocarbon microbeads as an anode in a lithium ion battery with propylene carbonate electrolyte. <i>Surface and Coatings Technology</i> , 2004, 186, 412-415.	2.2	23
131	Preparation and characterization of LiNi _{0.5} Mn _{1.5} O ₄ thin films taking advantage of correlations with powder samples behavior. <i>Journal of Power Sources</i> , 2013, 232, 165-172.	4.0	23
132	Understanding high-temperature cycling-induced crack evolution and associated atomic-scale structure in a Ni-rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ layered cathode material. <i>Nano Energy</i> , 2022, 98, 107222.	8.2	23
133	Enhanced electrochemical performance of Si-Cu-Ti thin films by surface covered with Cu ₃ Si nanowires. <i>Journal of Power Sources</i> , 2015, 281, 455-460.	4.0	22
134	Understanding the Effect of Atomic-Scale Surface Migration of Bridging Ions in Binding Li ₃ PO ₄ to the Surface of Spinel Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6937-6947.	4.0	21
135	Taming the chemical instability of lithium hexafluorophosphate-based electrolyte with lithium fluorosulfonimide salts. <i>Journal of Power Sources</i> , 2022, 526, 231105.	4.0	20
136	Wearable Bipolar Rechargeable Aluminum Battery. , 2020, 2, 808-813.		19
137	Investigation of structure and cycling performance of Nb ⁵⁺ doped high-nickel ternary cathode materials. <i>Solid State Ionics</i> , 2021, 359, 115520.	1.3	19
138	Bis(fluorosulfonyl)imide-based electrolyte for rechargeable lithium batteries: A perspective. <i>Journal of Power Sources Advances</i> , 2022, 14, 100088.	2.6	19
139	Anomalous Thermal Decomposition Behavior of Polycrystalline LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ in PEO-Based Solid Polymer Electrolyte. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	19
140	Triplite LiFeSO ₄ F as cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2013, 244, 716-720.	4.0	18
141	Lithium ion Conductor and Electronic Conductor Co-coating Modified Layered Cathode Material LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ . <i>Electrochimica Acta</i> , 2017, 247, 443-450.	2.6	18
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