Hong Li

List of Publications by Year in descending order

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500	58,461	668 122	1424 221
papers	citations	h-index	g-index

512	512	512	31529
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Localizedâ€domains staging structure and evolution in lithiated graphite. , 2023, 5, .		21
2	LixCu alloy nanowires nested in Ni foam for highly stable Li metal composite anode. Science China Materials, 2022, 65, 69-77.	6.3	13
3	Structural and chemical evolution in layered oxide cathodes of lithium-ion batteries revealed by synchrotron techniques. National Science Review, 2022, 9, nwab146.	9.5	27
4	High Current Density and Long Cycle Life Enabled by Sulfide Solid Electrolyte and Dendriteâ€Free Liquid Lithium Anode. Advanced Functional Materials, 2022, 32, 2105776.	14.9	40
5	Dopamine-Based Materials: Recent Advances in Synthesis Methods and Applications. Nanostructure Science and Technology, 2022, , 133-164.	0.1	2
6	In-situ polymerized solid-state electrolytes with stable cycling for Li/LiCoO2 batteries. Nano Energy, 2022, 91, 106679.	16.0	62
7	Interfacial layer rich in organic fluoride enabling stable cycling of high-voltage PEO-based solid-state lithium batteries. Electrochimica Acta, 2022, 404, 139617.	5.2	5
8	SnF₂â€Catalyzed Formation of Polymerized Dioxolane as Solid Electrolyte and its Thermal Decomposition Behavior. Angewandte Chemie, 2022, 134, .	2.0	6
9	SnF₂â€Catalyzed Formation of Polymerized Dioxolane as Solid Electrolyte and its Thermal Decomposition Behavior. Angewandte Chemie - International Edition, 2022, 61, .	13.8	42
10	Probing lattice defects in crystalline battery cathode using hard X-ray nanoprobe with data-driven modeling. Energy Storage Materials, 2022, 45, 647-655.	18.0	7
11	New insights into the mechanism of cation migration induced by cationâ€“anion dynamic coupling in superionic conductors. Journal of Materials Chemistry A, 2022, 10, 3093-3101.	10.3	11
12	All-in-One Ionicâ€“Electronic Dual-Carrier Conducting Framework Thickening All-Solid-State Electrode. ACS Energy Letters, 2022, 7, 766-772.	17.4	7
13	Solid Polymer Electrolyte Reinforced with a Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃-Coated Separator for All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2022, 14, 1195-1202.	8.0	33
14	Doping strategy and mechanism for oxide and sulfide solid electrolytes with high ionic conductivity. Journal of Materials Chemistry A, 2022, 10, 4517-4532.	10.3	75
15	Organic-inorganic composite SEI for a stable Li metal anode by in-situ polymerization. Nano Energy, 2022, 95, 106983.	16.0	83
16	Solid state ionics â€“ Selected topics and new directions. Progress in Materials Science, 2022, 126, 100921.	32.8	39
17	Local Ordering for Decoupling Bonding of Mobile Ions and Polymer Matrixes by Zwitterionic Solid Polymer Electrolytes. ACS Central Science, 2022, 8, 153-155.	11.3	0
18	Topologically protected oxygen redox in a layered manganese oxide cathode for sustainable batteries. Nature Sustainability, 2022, 5, 214-224.	23.7	44

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19	Accelerated strategy for fast ion conductor materials screening and optimal doping scheme exploration. Journal of Materiomics, 2022, 8, 1038-1047.	5.7	1
20	Controlling Li deposition below the interface. EScience, 2022, 2, 47-78.	41.6	110
21	Screening LiMn₂O₄ Surface Modification Schemes under Theoretical Guidance. ACS Applied Materials & Interfaces, 2022, 14, 10353-10362.	8.0	14
22	Ionic Conductivity of LiSiON and the Effect of Amorphization/Heterovalent Doping on Li+ Diffusion. Inorganics, 2022, 10, 45.	2.7	2
23	Anomalous Thermal Decomposition Behavior of Polycrystalline LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂ in PEOâ€Based Solid Polymer Electrolyte. Advanced Functional Materials, 2022, 32, .	14.9	19
24	Solid-state lithium batteries: Safety and prospects. EScience, 2022, 2, 138-163.	41.6	190
25	Charging sustainable batteries. Nature Sustainability, 2022, 5, 176-178.	23.7	70
26	A high-performance MnO2 cathode doped with group â…§ metal for aqueous Zn-ion batteries: In-situ X-Ray diffraction study on Zn2+ storage mechanism. Journal of Power Sources, 2022, 527, 231198.	7.8	14
27	Raising the Intrinsic Safety of Layered Oxide Cathodes by Surface Reâ€Lithiation with LLZTO Garnetâ€Type Solid Electrolytes. Advanced Materials, 2022, 34, e2200655.	21.0	30
28	The influence of electrolyte concentration and solvent on operational voltage of Li/CF primary batteries elucidated by Nernst Equation. Journal of Power Sources, 2022, 527, 231193.	7.8	26
29	Mechanical-electrochemical modeling of silicon-graphite composite anode for lithium-ion batteries. Journal of Power Sources, 2022, 527, 231178.	7.8	15
30	A Better Choice to Achieve High Volumetric Energy Density: Anodeâ€Free Lithiumâ€Metal Batteries. Advanced Materials, 2022, 34, e2110323.	21.0	46
31	Improving thermal stability of sulfide solid electrolytes: An intrinsic theoretical paradigm. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	33
32	Exploring magnetron sputtering preparation of high-quality LiNi0.5Mn1.5O4 films by controlling the oxygen atmosphere at moderate temperature. Thin Solid Films, 2022, 750, 139174.	1.8	0
33	Waterâ€Stable Sulfide Solid Electrolyte Membranes Directly Applicable in Allâ€Solidâ€State Batteries Enabled by Superhydrophobic Li⁺â€Conducting Protection Layer. Advanced Energy Materials, 2022, 12, .	19.5	62
34	Organicâ€“Inorganic Composite Electrolytes Optimized with Fluoroethylene Carbonate Additive for Quasi-Solid-State Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 20962-20971.	8.0	19
35	Progress in solvent-free dry-film technology for batteries and supercapacitors. Materials Today, 2022, 55, 92-109.	14.2	63
36	Progress in lithium thioborate superionic conductors. Journal of Materials Research, 2022, 37, 3269-3282.	2.6	2

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37	Interfacial engineering to achieve an energy density of over 200â€‰Whâ€‰kgâ^'1 in sodium batteries. Nature Energy, 2022, 7, 511-519.	39.5	130
38	Stable Ni-rich layered oxide cathode for sulfide-based all-solid-state lithium battery. EScience, 2022, 2, 537-545.	41.6	57
39	Exploiting the synergistic effects of multiple components with a uniform design method for developing low-temperature electrolytes. Energy Storage Materials, 2022, 50, 598-605.	18.0	22
40	Interfacial and cycle stability of sulfide all-solid-state batteries with Ni-rich layered oxide cathodes. Nano Energy, 2022, 100, 107528.	16.0	38
41	Longâ€Life Lithiumâ€Metal Allâ€Solidâ€State Batteries and Stable Li Plating Enabled by InÂSitu Formation of Li₃PS₄ in the SEI Layer. Advanced Materials, 2022, 34, .	21.0	66
42	High adherent polyacrylonitrile as a potential binder for high-capacity Fe7S8 cathode. Applied Physics Letters, 2022, 120, .	3.3	3
43	Electroactive-catalytic conductive framework for aluminum-sulfur batteries. Energy Storage Materials, 2022, 51, 266-272.	18.0	7
44	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithiumâ€Ion Battery Cathode Materials. Advanced Functional Materials, 2021, 31, 2001633.	14.9	21
45	Rational Design of Mixed Electronicâ€Ionic Conducting Tiâ€Doping Li₇La₃Zr₂O₁₂ for Lithium Dendrites Suppression. Advanced Functional Materials, 2021, 31, 2001918.	14.9	57
46	A Multilayer Ceramic Electrolyte for Allâ€Solidâ€State Li Batteries. Angewandte Chemie - International Edition, 2021, 60, 3781-3790.	13.8	71
47	Enhancing cycle stability of Li metal anode by using polymer separators coated with Ti-containing solid electrolytes. Rare Metals, 2021, 40, 1357-1365.	7.1	27
48	A Multilayer Ceramic Electrolyte for Allâ€Solidâ€State Li Batteries. Angewandte Chemie, 2021, 133, 3825-3834.	2.0	13
49	Deciphering the Oxygen Absorption Preâ€edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. Energy and Environmental Materials, 2021, 4, 246-254.	12.8	56
50	Epitaxial Induced Plating Currentâ€Collector Lasting Lifespan of Anodeâ€Free Lithium Metal Battery. Advanced Energy Materials, 2021, 11, 2003709.	19.5	119
51	Probing the Energy Storage Mechanism of Quasiâ€Metallic Na in Hard Carbon for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2003854.	19.5	104
52	Oxygen-redox reactions in LiCoO2 cathode without Oâ€“O bonding during charge-discharge. Joule, 2021, 5, 720-736.	24.0	56
53	Cycling mechanism of Li2MnO3: Liâ€“CO2Âbatteries and commonality on oxygen redox in cathode materials. Joule, 2021, 5, 975-997.	24.0	88
54	Enhancing the Thermal Stability of NASICON Solid Electrolyte Pellets against Metallic Lithium by Defect Modification. ACS Applied Materials & Interfaces, 2021, 13, 18743-18749.	8.0	29

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55	First-Principles Simulations for the Surface Evolution and Mn Dissolution in the Fully Delithiated Spinel LiMn₂O₄. Langmuir, 2021, 37, 5252-5259.	3.5	17
56	Synergistic Effect of Temperature and Electrolyte Concentration on Solidâ€State Interphase for Highâ€Performance Lithium Metal Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100010.	5.8	2
57	The Electrolysis of Antiâ€Perovskite Li₂OHCl for Prelithiation of Highâ€Energyâ€Density Batteries. Angewandte Chemie, 2021, 133, 13123-13130.	2.0	4
58	The Electrolysis of Antiâ€Perovskite Li₂OHCl for Prelithiation of Highâ€Energyâ€Density Batteries. Angewandte Chemie - International Edition, 2021, 60, 13013-13020.	13.8	25
59	Silicon micropillar electrodes of lithiumion batteries used for characterizing electrolyte additives*. Chinese Physics B, 2021, 30, 068202.	1.4	1
60	Cation-synergy stabilizing anion redox of Chevrel phase Mo6S8 in aluminum ion battery. Energy Storage Materials, 2021, 37, 87-93.	18.0	31
61	Enabling the thermal stability of solid electrolyte interphase in Liâ€ion battery. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 648-661.	17.3	70
62	Dense Allâ€Electrochemâ€Active Electrodes for Allâ€Solidâ€State Lithium Batteries. Advanced Materials, 2021, 33, e2008723.	21.0	26
63	Oxygen anionic redox activated high-energy cathodes: Status and prospects. ETransportation, 2021, 8, 100118.	14.8	34
64	Hunting Sodium Dendrites in NASICON-Based Solid-State Electrolytes. Energy Material Advances, 2021, 2021, .	11.0	57
65	Ultralight Electrolyte for Highâ€Energy Lithiumâ€“Sulfur Pouch Cells. Angewandte Chemie - International Edition, 2021, 60, 17547-17555.	13.8	72
66	Gaseous electrolyte additive BF3 for high-power Li/CFx primary batteries. Energy Storage Materials, 2021, 38, 482-488.	18.0	52
67	Ultralight Electrolyte for Highâ€Energy Lithiumâ€“Sulfur Pouch Cells. Angewandte Chemie, 2021, 133, 17688-17696.	2.0	13
68	Progress in thermal stability of <scp>allâ€solidâ€stateâ€Liâ€ionâ€batteries</scp>. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 827-853.	17.3	126
69	Amorphous Redox-Rich Polysulfides for Mg Cathodes. Jacs Au, 2021, 1, 1266-1274.	7.9	14
70	Fast Li Plating Behavior Probed by X-ray Computed Tomography. Nano Letters, 2021, 21, 5254-5261.	9.1	19
71	A Reflection on Lithiumâ€Ion Batteries from a Lithiumâ€Resource Perspective. Advanced Energy and Sustainability Research, 2021, 2, 2100062.	5.8	7
72	Fluorinated Polyâ€oxalate Electrolytes Stabilizing both Anode and Cathode Interfaces for Allâ€Solidâ€State Li/NMC811 Batteries. Angewandte Chemie - International Edition, 2021, 60, 18335-18343.	13.8	53

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73	Superior Allâ€Solidâ€State Batteries Enabled by a Gasâ€Phaseâ€Synthesized Sulfide Electrolyte with Ultrahigh Moisture Stability and Ionic Conductivity. Advanced Materials, 2021, 33, e2100921.	21.0	110
74	Fluorinated Polyâ€oxalate Electrolytes Stabilizing both Anode and Cathode Interfaces for Allâ€Solidâ€State Li/NMC811 Batteries. Angewandte Chemie, 2021, 133, 18483-18491.	2.0	13
75	Front Cover Image. InformaÄnÃ-MateriÃ¡ly, 2021, 3, .	17.3	1
76	Controllable ionic self-assembl of polyoxometalate and melamine for synthesis of nanostructured Ag. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 623, 126732.	4.7	2
77	Reaction Mechanisms of Ta-Substituted Cubic Li₇La₃Zr₂O₁₂ with Solvents During Storage. ACS Applied Materials & Interfaces, 2021, 13, 38384-38393.	8.0	14
78	Lowâ€Density Fluorinated Silane Solvent Enhancing Deep Cycle Lithiumâ€“Sulfur Batteriesâ€™ Lifetime. Advanced Materials, 2021, 33, e2102034.	21.0	39
79	High-performance Li-air battery after limiting inter-electrode crosstalk. Energy Storage Materials, 2021, 39, 225-231.	18.0	5
80	Amorphous anion-rich titanium polysulfides for aluminum-ion batteries. Science Advances, 2021, 7, .	10.3	63
81	Criterion for Identifying Anodes for Practically Accessible High-Energy-Density Lithium-Ion Batteries. ACS Energy Letters, 2021, 6, 3719-3724.	17.4	55
82	Bi-carbon armor design with CVD carbon and compact graphene network to promote the practical use of microparticulate Si anodes in lithium-ion batteries. Chinese Science Bulletin, 2021, 66, 3367-3369.	0.7	1
83	Recent advances in dopamine-based materials constructed via one-pot co-assembly strategy. Advances in Colloid and Interface Science, 2021, 295, 102489.	14.7	27
84	TiO2 (B) anode for high-voltage aqueous Li-ion batteries. Energy Storage Materials, 2021, 42, 438-444.	18.0	28
85	Electronic Conductive Inorganic Cathodes Promising Highâ€Energy Organic Batteries. Advanced Materials, 2021, 33, e2005781.	21.0	12
86	Aqueous interphase formed by CO2 brings electrolytes back to salt-in-water regime. Nature Chemistry, 2021, 13, 1061-1069.	13.6	57
87	5V-class sulfurized spinel cathode stable in sulfide all-solid-state batteries. Nano Energy, 2021, 90, 106589.	16.0	53
88	Delithiation-driven topotactic reaction endows superior cycling performances for high-energy-density FeS (1Ââ‰ÂxÂâ‰Â1.14) cathodes. Energy Storage Materials, 2021, 43, 579-584.	18.0	27
89	In Situ Visualization of Li-Whisker with Grating-Interferometry-Based Tricontrast X-ray Microtomography. , 2021, 3, 1786-1792.		8
90	Interplay between solid-electrolyte interphase and (in)active LixSi inÂsilicon anode. Cell Reports Physical Science, 2021, 2, 100668.	5.6	42

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91	Liquid phase therapy to solid electrolyteâ€“electrode interface in solid-state Li metal batteries: A review. Energy Storage Materials, 2020, 24, 75-84.	18.0	199
92	Local structure adaptability through multi cations for oxygen redox accommodation in Li-Rich layered oxides. Energy Storage Materials, 2020, 24, 384-393.	18.0	101
93	Investigations on the Fundamental Process of Cathode Electrolyte Interphase Formation and Evolution of High-Voltage Cathodes. ACS Applied Materials & Interfaces, 2020, 12, 2319-2326.	8.0	186
94	Iodine Vapor Transport-Triggered Preferential Growth of Chevrel Mo₆S₈ Nanosheets for Advanced Multivalent Batteries. ACS Nano, 2020, 14, 1102-1110.	14.6	72
95	The Compensation Effect Mechanism of Feâ€“Ni Mixed Prussian Blue Analogues in Aqueous Rechargeable Aluminumâ€ion Batteries. ChemSusChem, 2020, 13, 732-740.	6.8	93
96	Batteries with high theoretical energy densities. Energy Storage Materials, 2020, 26, 46-55.	18.0	152
97	New insight of stabilizing electrode/electrolyte interphase: Regulating the specific adsorption of the inner Helmholtz plane. Journal of Energy Chemistry, 2020, 45, 126-127.	12.9	5
98	Retarding graphitization of soft carbon precursor: From fusion-state to solid-state carbonization. Energy Storage Materials, 2020, 26, 577-584.	18.0	56
99	Approaching Practically Accessible Solid-State Batteries: Stability Issues Related to Solid Electrolytes and Interfaces. Chemical Reviews, 2020, 120, 6820-6877.	47.7	891
100	Neutron-based characterization techniques for lithium-ion battery research. Chinese Physics B, 2020, 29, 018201.	1.4	31
101	Highâ€Voltage Aqueous Naâ€ion Battery Enabled by Inertâ€Cationâ€Assisted Waterâ€inâ€Salt Electrolyte. Advanced Materials, 2020, 32, e1904427.	21.0	221
102	Insights of the anionic redox in P2â€“Na0.67Ni0.33Mn0.67O2. Nano Energy, 2020, 78, 105285.	16.0	49
103	pH-Responsive dopamine-based nanoparticles assembledviaSchiff base bonds for synergistic anticancer therapy. Chemical Communications, 2020, 56, 13347-13350.	4.1	18
104	Local spring effect in titanium-based layered oxides. Energy and Environmental Science, 2020, 13, 4371-4380.	30.8	13
105	Size effect on the growth and pulverization behavior of Si nanodomains in SiO anode. Nano Energy, 2020, 78, 105101.	16.0	51
106	High-rate cathode CrSSe based on anion reactions for lithium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 25739-25745.	10.3	17
107	Battery prelithiation enabled by lithium fixation on cathode. Journal of Power Sources, 2020, 480, 229109.	7.8	22
108	Hierarchical Defect Engineering for LiCoO2 through Low-Solubility Trace Element Doping. CheM, 2020, 6, 2759-2769.	11.7	74

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109	4.2Ââ€‹V poly(ethylene oxide)-based all-solid-state lithium batteries with superior cycle and safety performance. Energy Storage Materials, 2020, 32, 191-198.	18.0	77
110	Interface Concentratedâ€‹Confinement Suppressing Cathode Dissolution in Waterâ€‹inâ€‹Salt Electrolyte. Advanced Energy Materials, 2020, 10, 2000665.	19.5	70
111	Joint Cationic and Anionic Redox Chemistry for Advanced Mg Batteries. Nano Letters, 2020, 20, 6852-6858.	9.1	25
112	Interface engineering renders high-rate high-capacity lithium storage in black phosphorous composite anodes with excellent cycling durability. Science China Chemistry, 2020, 63, 1734-1736.	8.2	4
113	Simplifying and accelerating kinetics enabling fast-charge Al batteries. Journal of Materials Chemistry A, 2020, 8, 23834-23843.	10.3	12
114	Structure Design of Cathode Electrodes for Solidâ€‹State Batteries: Challenges and Progress. Small Structures, 2020, 1, 2000042.	12.0	73
115	Unraveling the Reaction Mechanism of FeS₂ as a Li-Ion Battery Cathode. ACS Applied Materials & Interfaces, 2020, 12, 44850-44857.	8.0	71
116	Rational design of layered oxide materials for sodium-ion batteries. Science, 2020, 370, 708-711.	12.6	616
117	Realizing High Volumetric Lithium Storage by Compact and Mechanically Stable Anode Designs. ACS Energy Letters, 2020, 5, 1986-1995.	17.4	72
118	The Thermal Stability of Lithium Solid Electrolytes with Metallic Lithium. Joule, 2020, 4, 812-821.	24.0	197
119	Delayed Phase Transition and Improved Cycling/Thermal Stability by Spinel LiNi_{0.5}Mn_{1.5}O₄ Modification for LiCoO₂ Cathode at High Voltages. ACS Applied Materials & Interfaces, 2020, 12, 27339-27349.	8.0	41
120	Suppressing transition metal dissolution and deposition in lithium-ion batteries using oxide solid electrolyte coated polymer separator*. Chinese Physics B, 2020, 29, 088201.	1.4	6
121	Wearable Bipolar Rechargeable Aluminum Battery. , 2020, 2, 808-813.		19
122	An In Situ Formed Surface Coating Layer Enabling LiCoO₂ with Stable 4.6 V Highâ€‹Voltage Cycle Performances. Advanced Energy Materials, 2020, 10, 2001413.	19.5	201
123	Na₃Zr₂Si₂PO₁₂: A Stable Na⁺-Ion Solid Electrolyte for Solid-State Batteries. ACS Applied Energy Materials, 2020, 3, 7427-7437.	5.1	77
124	Realizing long-term cycling stability and superior rate performance of 4.5ÂVâ€“LiCoO2 by aluminum doped zinc oxide coating achieved by a simple wet-mixing method. Journal of Power Sources, 2020, 470, 228423.	7.8	57
125	Influence of fluoroethylene carbonate on the solid electrolyte interphase of silicon anode for Li-ion batteries: A scanning force spectroscopy study*. Chinese Physics B, 2020, 29, 048203.	1.4	5
126	Mn Ion Dissolution Mechanism for Lithium-Ion Battery with LiMn₂O₄ Cathode: In Situ Ultravioletâ€“Visible Spectroscopy and Ab Initio Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2020, 11, 3051-3057.	4.6	60

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127	Low-temperature fusion fabrication of Li-Cu alloy anode with in situ formed 3D framework of inert LiCu nanowires for excellent Li storage performance. Science Bulletin, 2020, 65, 1907-1915.	9.0	50
128	Improving LiNi0.9Co0.08Mn0.02O2â€™s cyclic stability via abating mechanical damages. Energy Storage Materials, 2020, 28, 1-9.	18.0	44
129	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. ACS Energy Letters, 2020, 5, 826-832.	17.4	192
130	High-throughput computational discovery of K₂CdO₂ as an ion conductor for solid-state potassium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 5157-5162.	10.3	23
131	Electrolyte-assisted dissolution-recrystallization mechanism towards high energy density and power density CF cathodes in potassium cell. Nano Energy, 2020, 70, 104552.	16.0	41
132	Enabling Stable Cycling of 4.2 V Highâ€Voltage Allâ€Solidâ€State Batteries with PEOâ€Based Solid Electrolyte. Advanced Functional Materials, 2020, 30, 1909392.	14.9	204
133	Bringing forward the development of battery cells for automotive applications: Perspective of R&D activities in China, Japan, the EU and the USA. Journal of Power Sources, 2020, 459, 228073.	7.8	109
134	A wide-temperature superior ionic conductive polymer electrolyte for lithium metal battery. Nano Energy, 2020, 73, 104786.	16.0	120
135	Mobile Ions in Composite Solids. Chemical Reviews, 2020, 120, 4169-4221.	47.7	193
136	Reversible Al3+ storage mechanism in anatase TiO2 cathode material for ionic liquid electrolyte-based aluminum-ion batteries. Journal of Energy Chemistry, 2020, 51, 72-80.	12.9	56
137	A stabilized PEO-based solid electrolyte via a facile interfacial engineering method for a high voltage solid-state lithium metal battery. Chemical Communications, 2020, 56, 5633-5636.	4.1	43
138	Structural and mechanistic revelations on high capacity cation-disordered Li-rich oxides for rechargeable Li-ion batteries. Energy Storage Materials, 2019, 16, 354-363.	18.0	94
139	The 2019 materials by design roadmap. Journal Physics D: Applied Physics, 2019, 52, 013001.	2.8	236
140	High air-stability and superior lithium ion conduction of Li3+3P1-Zn S4-O by aliovalent substitution of ZnO for all-solid-state lithium batteries. Energy Storage Materials, 2019, 17, 266-274.	18.0	114
141	Practical evaluation of energy densities for sulfide solid-state batteries. ETransportation, 2019, 1, 100010.	14.8	114
142	In-situ visualization of lithium plating in all-solid-state lithium-metal battery. Nano Energy, 2019, 63, 103895.	16.0	109
143	Artificial solid electrolyte interphase based on polyacrylonitrile for homogenous and dendrite-free deposition of lithium metal. Chinese Physics B, 2019, 28, 078202.	1.4	1
144	Water-in-Salt Electrolyte Promotes High-Capacity FeFe(CN)₆ Cathode for Aqueous Al-Ion Battery. ACS Applied Materials & Interfaces, 2019, 11, 41356-41362.	8.0	93

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145	Correlated Migration Invokes Higher Na⁺â€Ion Conductivity in NaSICONâ€Type Solid Electrolytes. Advanced Energy Materials, 2019, 9, 1902373.	19.5	162
146	A dual-phase Liâ€“Ca alloy with a patternable and lithiophilic 3D framework for improving lithium anode performance. Journal of Materials Chemistry A, 2019, 7, 22377-22384.	10.3	42
147	Li-free Cathode Materials for High Energy Density Lithium Batteries. Joule, 2019, 3, 2086-2102.	24.0	239
148	Triple effects of Sn-substitution on Na0.67Ni0.33Mn0.67O2. Journal of Materials Science and Technology, 2019, 35, 1250-1254.	10.7	20
149	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithiumâ€Rich Cathode Oxides. Angewandte Chemie - International Edition, 2019, 58, 4323-4327.	13.8	114
150	Slopeâ€Dominated Carbon Anode with High Specific Capacity and Superior Rate Capability for High Safety Naâ€Ion Batteries. Angewandte Chemie, 2019, 131, 4405-4409.	2.0	36
151	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithiumâ€Rich Cathode Oxides. Angewandte Chemie, 2019, 131, 4367-4371.	2.0	13
152	Slopeâ€Dominated Carbon Anode with High Specific Capacity and Superior Rate Capability for High Safety Naâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 4361-4365.	13.8	171
153	Influence of carbon coating on the electrochemical performance of SiO@C/graphite composite anode materials*. Chinese Physics B, 2019, 28, 068201.	1.4	6
154	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6â€‰V. Nature Energy, 2019, 4, 594-603.	39.5	572
155	In Situ Formation of a Stable Interface in Solid-State Batteries. ACS Energy Letters, 2019, 4, 1650-1657.	17.4	93
156	Improved electrochemical performance of Li(Ni_{0.6}Co_{0.2}Mn_{0.2})O₂ at high charging cut-off voltage with Li_{1.4}Al_{0.4}Ti_{1.6}(PO₄)₃ surface coating*. Chinese Physics B, 2019, 28, 068202.	1.4	16
157	Safe Lithiumâ€Metal Anodes for Liâ€“O₂ Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. Batteries and Supercaps, 2019, 2, 638-658.	4.7	67
158	Electrochemical and optoelectric behavior of Al-doped ZnO films as transparent anode for Li-ion batteries. Materials Today Communications, 2019, 19, 471-475.	1.9	10
159	Research and development of advanced battery materials in China. Energy Storage Materials, 2019, 23, 144-153.	18.0	168
160	Building aqueous K-ion batteries for energy storage. Nature Energy, 2019, 4, 495-503.	39.5	630
161	Beyond imaging: Applications of atomic force microscopy for the study of Lithium-ion batteries. Ultramicroscopy, 2019, 204, 34-48.	1.9	39
162	Practical Evaluation of Li-Ion Batteries. Joule, 2019, 3, 911-914.	24.0	278

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