

Hong Li

List of Publications by Year in descending order

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500
papers

58,461
citations

668

122
h-index

1423

221
g-index

512
all docs

512
docs citations

512
times ranked

31529
citing authors

#	ARTICLE	IF	CITATIONS
1	A new class of Solvent-in-Salt electrolyte for high-energy rechargeable metallic lithium batteries. Nature Communications, 2013, 4, 1481.	12.8	1,917
2	Research on Advanced Materials for Li-ion Batteries. Advanced Materials, 2009, 21, 4593-4607.	21.0	1,633
3	Nanostructured ceria-based materials: synthesis, properties, and applications. Energy and Environmental Science, 2012, 5, 8475.	30.8	984
4	Review on modeling of the anode solid electrolyte interphase (SEI) for lithium-ion batteries. Npj Computational Materials, 2018, 4, .	8.7	961
5	New horizons for inorganic solid state ion conductors. Energy and Environmental Science, 2018, 11, 1945-1976.	30.8	894
6	Approaching Practically Accessible Solid-State Batteries: Stability Issues Related to Solid Electrolytes and Interfaces. Chemical Reviews, 2020, 120, 6820-6877.	47.7	891
7	Thermodynamic analysis on energy densities of batteries. Energy and Environmental Science, 2011, 4, 2614.	30.8	749
8	Porous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Coated with N-Doped Carbon from Ionic Liquids for Li-ion Batteries. Advanced Materials, 2011, 23, 1385-1388.	21.0	742
9	A High Capacity Nano-Si Composite Anode Material for Lithium Rechargeable Batteries. Electrochemical and Solid-State Letters, 1999, 2, 547.	2.2	733
10	Carbon coated $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ as novel electrode material for sodium ion batteries. Electrochemistry Communications, 2012, 14, 86-89.	4.7	693
11	Flexible and ion-conducting membrane electrolytes for solid-state lithium batteries: Dispersion of garnet nanoparticles in insulating polyethylene oxide. Nano Energy, 2016, 28, 447-454.	16.0	651
12	Monodispersed hard carbon spherules with uniform nanopores. Carbon, 2001, 39, 2211-2214.	10.3	644
13	Building aqueous K-ion batteries for energy storage. Nature Energy, 2019, 4, 495-503.	39.5	630
14	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. Nature Communications, 2013, 4, 1870.	12.8	628
15	Rational design of layered oxide materials for sodium-ion batteries. Science, 2020, 370, 708-711.	12.6	616
16	Rutile- TiO_2 Nanocoating for a High-Rate $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Anode of a Lithium-Ion Battery. Journal of the American Chemical Society, 2012, 134, 7874-7879.	18.7	602
17	Fully Reversible Homogeneous and Heterogeneous Li Storage in RuO_2 with High Capacity. Advanced Functional Materials, 2003, 13, 621-625.	14.9	598
18	Trace doping of multiple elements enables stable battery cycling of LiCoO_2 at 4.6%V. Nature Energy, 2019, 4, 594-603.	39.5	572

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19	Li-Storage via Heterogeneous Reaction in Selected Binary Metal Fluorides and Oxides. Journal of the Electrochemical Society, 2004, 151, A1878.	2.9	559
20	Safety-Reinforced Poly(Propylene Carbonate)-Based All-Solid-State Polymer Electrolyte for Ambient-Temperature Solid Polymer Lithium Batteries. Advanced Energy Materials, 2015, 5, 1501082.	19.5	532
21	Direct Calculation of Li-Ion Transport in the Solid Electrolyte Interphase. Journal of the American Chemical Society, 2012, 134, 15476-15487.	13.7	524
22	A zero-strain layered metal oxide as the negative electrode for long-life sodium-ion batteries. Nature Communications, 2013, 4, 2365.	12.8	515
23	Prototype Sodium-Ion Batteries Using an Air-Stable and Co/Ni-Free O ₃ -Layered Metal Oxide Cathode. Advanced Materials, 2015, 27, 6928-6933.	21.0	504
24	Disodium Terephthalate (Na ₂ C ₈ H ₄ O ₄) as High Performance Anode Material for Low-Cost Room-Temperature Sodium-Ion Battery. Advanced Energy Materials, 2012, 2, 962-965.	19.5	498
25	Understanding the Rate Capability of High-Energy-Density Li-Rich Layered Li _{1.2} Ni _{0.15} Co _{0.1} Mn _{0.55} O ₂ Cathode Materials. Advanced Energy Materials, 2014, 4, 1300950.	19.5	480
26	Recent advances of electrode materials for low-cost sodium-ion batteries towards practical application for grid energy storage. Energy Storage Materials, 2017, 7, 130-151.	18.0	469
27	Application of carbon materials as counter electrodes of dye-sensitized solar cells. Electrochemistry Communications, 2007, 9, 596-598.	4.7	457
28	Sodium Storage and Transport Properties in Layered Na ₂ Ti ₃ O ₇ for Room-Temperature Sodium-Ion Batteries. Advanced Energy Materials, 2013, 3, 1186-1194.	19.5	456
29	Kinetic analysis on LiFePO ₄ thin films by CV, GITT, and EIS. Electrochimica Acta, 2011, 56, 4869-4875.	5.2	435
30	Amorphous monodispersed hard carbon micro-spherules derived from biomass as a high performance negative electrode material for sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 71-77.	10.3	432
31	Single Lithium-Ion Conducting Polymer Electrolytes Based on a Super-Delocalized Polyanion. Angewandte Chemie - International Edition, 2016, 55, 2521-2525.	13.8	411
32	The crystal structural evolution of nano-Si anode caused by lithium insertion and extraction at room temperature. Solid State Ionics, 2000, 135, 181-191.	2.7	401
33	Alumina-Coated Patterned Amorphous Silicon as the Anode for a Lithium-Ion Battery with High Coulombic Efficiency. Advanced Materials, 2011, 23, 4938-4941.	21.0	397
34	Lithium bis(fluorosulfonyl)imide (LiFSI) as conducting salt for nonaqueous liquid electrolytes for lithium-ion batteries: Physicochemical and electrochemical properties. Journal of Power Sources, 2011, 196, 3623-3632.	7.8	396
35	Two-Phase Electrochemical Lithiation in Amorphous Silicon. Nano Letters, 2013, 13, 709-715.	9.1	377
36	Improving the rate performance of LiFePO ₄ by Fe-site doping. Electrochimica Acta, 2005, 50, 2955-2958.	5.2	349

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37	MnO powder as anode active materials for lithium ion batteries. Journal of Power Sources, 2010, 195, 3300-3308.	7.8	343
38	An Armored Mixed Conductor Interphase on a Dendrite-Free Lithium-Metal Anode. Advanced Materials, 2018, 30, e1804461.	21.0	338
39	Reversible Formation and Decomposition of LiF Clusters Using Transition Metal Fluorides as Precursors and Their Application in Rechargeable Li Batteries. Advanced Materials, 2003, 15, 736-739.	21.0	334
40	A comparative study of Fd-3m and P4332 $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$. Solid State Ionics, 2011, 193, 32-38.	2.7	327
41	Atomic Structure and Kinetics of NASICON $\text{Na}_x\text{V}_2(\text{PO}_4)_3$ Cathode for Sodium-Ion Batteries. Advanced Functional Materials, 2014, 24, 4265-4272.	14.9	323
42	A superior low-cost amorphous carbon anode made from pitch and lignin for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 96-104.	10.3	322
43	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. ACS Energy Letters, 2018, 3, 1212-1218.	17.4	321
44	Ti-substituted tunnel-type $\text{Na}_{0.44}\text{MnO}_2$ oxide as a negative electrode for aqueous sodium-ion batteries. Nature Communications, 2015, 6, 6401.	12.8	316
45	Controlled synthesis of CeO_2 nanorods by a solvothermal method. Nanotechnology, 2005, 16, 1454-1463.	2.6	315
46	Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. Joule, 2018, 2, 125-140.	24.0	311
47	Compact-designed supercapacitors using free-standing single-walled carbon nanotube films. Energy and Environmental Science, 2011, 4, 1440.	30.8	310
48	High-Energy All-Solid-State Lithium Batteries with Ultralong Cycle Life. Nano Letters, 2016, 16, 7148-7154.	9.1	309
49	Dynamic evolution of cathode electrolyte interphase (CEI) on high voltage LiCoO_2 cathode and its interaction with Li anode. Energy Storage Materials, 2018, 14, 1-7.	18.0	307
50	Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. Nature Communications, 2019, 10, 73.	12.8	291
51	Review "Nano-Silicon/Carbon Composite Anode Materials Towards Practical Application for Next Generation Li-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2509-A2528.	2.9	289
52	Air-Stable Copper-Based $\text{P}_2\text{Na}_{7/9}\text{Cu}_{2/9}\text{Fe}_{1/9}\text{Mn}_{2/3}\text{O}_2$ as a New Positive Electrode Material for Sodium-Ion Batteries. Advanced Science, 2015, 2, 1500031.	11.2	287
53	Rechargeable $\text{Li}/\text{CO}_2\text{-O}_2$ (2at%:1) battery and Li/CO_2 battery. Energy and Environmental Science, 2014, 7, 3637.	7.6	281
54	Practical Evaluation of Li-Ion Batteries. Joule, 2019, 3, 911-914.	24.0	278

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55	Pitch-derived amorphous carbon as high performance anode for sodium-ion batteries. <i>Energy Storage Materials</i> , 2016, 2, 139-145.	18.0	274
56	Lithium bis(fluorosulfonyl)imide/poly(ethylene oxide) polymer electrolyte. <i>Electrochimica Acta</i> , 2014, 133, 529-538.	5.2	273
57	Lithium Storage in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Spinel: The Full Static Picture from Electron Microscopy. <i>Advanced Materials</i> , 2012, 24, 3233-3238.	21.0	269
58	Anionic Redox Reaction-Induced High-Capacity and Low-Strain Cathode with Suppressed Phase Transition. <i>Joule</i> , 2019, 3, 503-517.	24.0	262
59	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
60	Mesoscale Organization of Nearly Monodisperse Flowerlike Ceria Microspheres. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13445-13452.	2.6	244
61	Density Functional Investigation on Li_2MnO_3 . <i>Chemistry of Materials</i> , 2012, 24, 4242-4251.	6.7	244
62	Confirming reversible Al^{3+} storage mechanism through intercalation of Al^{3+} into V_2O_5 nanowires in a rechargeable aluminum battery. <i>Energy Storage Materials</i> , 2017, 6, 9-17.	18.0	241
63	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
64	Li-free Cathode Materials for High Energy Density Lithium Batteries. <i>Joule</i> , 2019, 3, 2086-2102.	24.0	239
65	The 2019 materials by design roadmap. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 013001.	2.8	236
66	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
67	Defect Thermodynamics and Diffusion Mechanisms in Li_2CO_3 and Implications for the Solid Electrolyte Interphase in Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8579-8593.	3.1	228
68	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
69	Direct Observation of Lithium Staging in Partially Delithiated LiFePO_4 at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2011, 133, 4661-4663.	13.7	219
70	Investigation on porous MnO microsphere anode for lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 6802-6808.	7.8	211
71	Atomic Structure of Li_2MnO_3 after Partial Delithiation and Re-Lithiation. <i>Advanced Energy Materials</i> , 2013, 3, 1358-1367.	19.5	211
72	Enabling Stable Cycling of 4.2 V High-Voltage All-Solid-State Batteries with PEO-Based Solid Electrolyte. <i>Advanced Functional Materials</i> , 2020, 30, 1909392.	14.9	204

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73	Graphite as a potassium ion battery anode in carbonate-based electrolyte and ether-based electrolyte. <i>Journal of Power Sources</i> , 2019, 409, 24-30.	7.8	203
74	An In Situ Formed Surface Coating Layer Enabling LiCoO ₂ with Stable 4.6 V High-Voltage Cycle Performances. <i>Advanced Energy Materials</i> , 2020, 10, 2001413.	19.5	201
75	Liquid phase therapy to solid electrolyte-electrode interface in solid-state Li metal batteries: A review. <i>Energy Storage Materials</i> , 2020, 24, 75-84.	18.0	199
76	Novel spherical microporous carbon as anode material for Li-ion batteries. <i>Solid State Ionics</i> , 2002, 152-153, 43-50.	2.7	197
77	Mitigating Voltage Decay of Li-Rich Cathode Material via Increasing Ni Content for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20138-20146.	8.0	197
78	The Thermal Stability of Lithium Solid Electrolytes with Metallic Lithium. <i>Joule</i> , 2020, 4, 812-821.	24.0	197
79	Mobile Ions in Composite Solids. <i>Chemical Reviews</i> , 2020, 120, 4169-4221.	47.7	193
80	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. <i>ACS Energy Letters</i> , 2020, 5, 826-832.	17.4	192
81	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.	2.9	191
82	Solid-state lithium batteries: Safety and prospects. <i>EScience</i> , 2022, 2, 138-163.	41.6	190
83	Poly(ethyl $\hat{\pm}$ -cyanoacrylate)-Based Artificial Solid Electrolyte Interphase Layer for Enhanced Interface Stability of Li Metal Anodes. <i>Chemistry of Materials</i> , 2017, 29, 4682-4689.	6.7	189
84	Toxicity, a serious concern of thermal runaway from commercial Li-ion battery. <i>Nano Energy</i> , 2016, 27, 313-319.	16.0	186
85	Investigations on the Fundamental Process of Cathode Electrolyte Interphase Formation and Evolution of High-Voltage Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2319-2326.	8.0	186
86	Perspectives of automotive battery R&D in China, Germany, Japan, and the USA. <i>Journal of Power Sources</i> , 2018, 382, 176-178.	7.8	184
87	High capacity Sb ₂ O ₄ thin film electrodes for rechargeable sodium battery. <i>Electrochemistry Communications</i> , 2011, 13, 1462-1464.	4.7	181
88	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
89	Solid-State Composite Electrolyte LiI/3-Hydroxypropionitrile/SiO ₂ for Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2005, 127, 6394-6401.	13.7	176
90	<i>In situ</i> formation of a bifunctional interlayer enabled by a conversion reaction to initiatively prevent lithium dendrites in a garnet solid electrolyte. <i>Energy and Environmental Science</i> , 2019, 12, 1404-1412.	30.8	176

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91	Scalable Synthesis of Interconnected Porous Silicon/Carbon Composites by the Rochow Reaction as High-Performance Anodes of Lithium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5165-5169.	13.8	175
92	Interfaces Between Cathode and Electrolyte in Solid State Lithium Batteries: Challenges and Perspectives. <i>Frontiers in Chemistry</i> , 2018, 6, 616.	3.6	175
93	Long lifespan lithium metal anodes enabled by Al ₂ O ₃ sputter coating. <i>Energy Storage Materials</i> , 2018, 10, 16-23.	18.0	174
94	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
95	Nanocrystalline MnO thin film anode for lithium ion batteries with low overpotential. <i>Electrochemistry Communications</i> , 2009, 11, 791-794.	4.7	170
96	Direct Observation of Inhomogeneous Solid Electrolyte Interphase on MnO Anode with Atomic Force Microscopy and Spectroscopy. <i>Nano Letters</i> , 2012, 12, 2153-2157.	9.1	170
97	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015, 1, e1500330.	10.3	170
98	Reversible chemical delithiation/lithiation of LiFePO ₄ : towards a redox flow lithium-ion battery. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1793-1797.	2.8	169
99	Cage-like carbon nanotubes/Si composite as anode material for lithium ion batteries. <i>Electrochemistry Communications</i> , 2006, 8, 51-54.	4.7	168
100	Research and development of advanced battery materials in China. <i>Energy Storage Materials</i> , 2019, 23, 144-153.	18.0	168
101	Temperature-Sensitive Structure Evolution of Lithium-Manganese-Rich Layered Oxides for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 15279-15289.	13.7	163
102	3D visualization of inhomogeneous multi-layered structure and Young's modulus of the solid electrolyte interphase (SEI) on silicon anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13229-13238.	2.8	162
103	Correlated Migration Invokes Higher Na ⁺ Ion Conductivity in NaSICON-Type Solid Electrolytes. <i>Advanced Energy Materials</i> , 2019, 9, 1902373.	19.5	162
104	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
105	In situ Visualization of State-of-Charge Heterogeneity within a LiCoO ₂ Particle that Evolves upon Cycling at Different Rates. <i>ACS Energy Letters</i> , 2017, 2, 1240-1245.	17.4	159
106	Studies of Stannic Oxide as an Anode Material for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1998, 145, 59-62.	2.9	156
107	Nano-alloy anode for lithium ion batteries. <i>Solid State Ionics</i> , 2002, 148, 247-258.	2.7	155
108	Nanosized SnSb Alloy Pinning on Hard Non-Graphitic Carbon Spherules as Anode Materials for a Li Ion Battery. <i>Chemistry of Materials</i> , 2002, 14, 103-108.	6.7	153

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109	A ceramic/polymer composite solid electrolyte for sodium batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15823-15828.	10.3	152
110	Batteries with high theoretical energy densities. <i>Energy Storage Materials</i> , 2020, 26, 46-55.	18.0	152
111	Experimental and theoretical studies on reduction mechanism of vinyl ethylene carbonate on graphite anode for lithium ion batteries. <i>Electrochemistry Communications</i> , 2004, 6, 126-131.	4.7	151
112	In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO_2 Cathode in a Working All-Solid-State Battery. <i>Journal of the American Chemical Society</i> , 2017, 139, 4274-4277.	13.7	142
113	Surface-protected LiCoO_2 with ultrathin solid oxide electrolyte film for high-voltage lithium ion batteries and lithium polymer batteries. <i>Journal of Power Sources</i> , 2018, 388, 65-70.	7.8	139
114	Gas evolution behaviors for several cathode materials in lithium-ion batteries. <i>Journal of Power Sources</i> , 2005, 142, 285-291.	7.8	136
115	Phase Transformation and Lithiation Effect on Electronic Structure of Li_xFePO_4 : An In-Depth Study by Soft X-ray and Simulations. <i>Journal of the American Chemical Society</i> , 2012, 134, 13708-13715.	13.7	136
116	Amorphous Li_2O_2 : Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10717-10721.	13.8	135
117	Transport and Electrochemical Properties and Spectral Features of Non-Aqueous Electrolytes Containing LiFSI in Linear Carbonate Solvents. <i>Journal of the Electrochemical Society</i> , 2011, 158, A74.	2.9	130
118	A highly reversible, low-strain Mg-ion insertion anode material for rechargeable Mg-ion batteries. <i>NPG Asia Materials</i> , 2014, 6, e120-e120.	7.9	130
119	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
120	TiS_2 as a high performance potassium ion battery cathode in ether-based electrolyte. <i>Energy Storage Materials</i> , 2018, 12, 216-222.	18.0	129
121	New Insight into the Atomic Structure of Electrochemically Delithiated $\text{O}_3\text{-Li}_x\text{CoO}_2$ ($0 \leq x \leq 0.5$) Nanoparticles. <i>Nano Letters</i> , 2012, 12, 6192-6197.	10.1	128
122	Al_2O_3 surface coating on LiCoO_2 through a facile and scalable wet-chemical method towards high-energy cathode materials withstanding high cutoff voltages. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24361-24370.	10.3	127
123	Progress in thermal stability of solid-state Li-ion batteries. <i>Informa-Materially</i> , 2021, 3, 827-853.	17.3	126
124	Al_2O_3 -coated LiCoO_2 as cathode material for lithium ion batteries. <i>Solid State Ionics</i> , 2002, 152-153, 341-346.	2.7	125
125	Homogeneous Interface Conductivity for Lithium Dendrite-Free Anode. <i>ACS Energy Letters</i> , 2018, 3, 2259-2266.	17.4	124
126	Novel room temperature molten salt electrolyte based on LiTFSI and acetamide for lithium batteries. <i>Electrochemistry Communications</i> , 2004, 6, 28-32.	4.7	123

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127	Fe-Based Tunnel-Type $\text{Na}_{0.61}[\text{Mn}_{0.27}\text{Fe}_{0.34}\text{Ti}_{0.39}]_2\text{O}_7$ Designed by a New Strategy as a Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1501156.	19.5	122
128	Improve the electrochemical performances of Cr_2O_3 anode for lithium ion batteries. <i>Solid State Ionics</i> , 2006, 177, 2791-2799.	2.7	120
129	A wide-temperature superior ionic conductive polymer electrolyte for lithium metal battery. <i>Nano Energy</i> , 2020, 73, 104786.	16.0	120
130	Epitaxial Induced Plating Current-Collector Lasting Lifespan of Anode-Free Lithium Metal Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2003709.	19.5	119
131	Investigations of mesoporous CeO_2/Ru as a reforming catalyst layer for solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2006, 8, 833-838.	4.7	118
132	Shape evolution of patterned amorphous and polycrystalline silicon microarray thin film electrodes caused by lithium insertion and extraction. <i>Journal of Power Sources</i> , 2012, 216, 131-138.	7.8	117
133	High-throughput design and optimization of fast lithium ion conductors by the combination of bond-valence method and density functional theory. <i>Scientific Reports</i> , 2015, 5, 14227.	3.3	117
134	Synthesis and Characterization of Polycrystalline CeO_2 Nanowires. <i>Chemistry Letters</i> , 2004, 33, 662-663.	1.3	116
135	Spinel lithium titanate ($\text{Li}_4\text{Ti}_5\text{O}_{12}$) as novel anode material for room-temperature sodium-ion battery. <i>Chinese Physics B</i> , 2012, 21, 028201.	1.4	116
136	Direct evidence of gradient Mn(II) evolution at charged states in $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ electrodes with capacity fading. <i>Journal of Power Sources</i> , 2015, 273, 1120-1126.	7.8	115
137	High air-stability and superior lithium ion conduction of $\text{Li}_3\text{P}_1\text{-ZnS}_4\text{O}$ by aliovalent substitution of ZnO for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019, 17, 266-274.	18.0	114
138	Practical evaluation of energy densities for sulfide solid-state batteries. <i>ETransportation</i> , 2019, 1, 100010.	14.8	114
139	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11531-11535.	13.8	114
140	First-principles investigation on redox properties of M^{2+} -doped CeO_2	3.2	112
141	Electrochemical impedance spectroscopy study of SnO and nano-SnO anodes in lithium rechargeable batteries. <i>Journal of Power Sources</i> , 1999, 81-82, 340-345.	7.8	111
142	High-Rate Charging Induced Intermediate Phases and Structural Changes of Layer-Structured Cathode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600597.	19.5	110
143	Superior All-Solid-State Batteries Enabled by a Gas-Phase-Synthesized Sulfide Electrolyte with Ultrahigh Moisture Stability and Ionic Conductivity. <i>Advanced Materials</i> , 2021, 33, e2100921.	21.0	110
144	Controlling Li deposition below the interface. <i>EScience</i> , 2022, 2, 47-78.	41.6	110

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145	Non-Corrosive, Non-Absorbing Organic Redox Couple for Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2010, 20, 3358-3365.	14.9	109
146	Silicon-based nanosheets synthesized by a topochemical reaction for use as anodes for lithium ion batteries. <i>Nano Research</i> , 2015, 8, 2654-2662.	10.4	109
147	In-situ visualization of lithium plating in all-solid-state lithium-metal battery. <i>Nano Energy</i> , 2019, 63, 103895.	16.0	109
148	Bringing forward the development of battery cells for automotive applications: Perspective of R&D activities in China, Japan, the EU and the USA. <i>Journal of Power Sources</i> , 2020, 459, 228073.	7.8	109
149	New Insight into the Atomic-Scale Bulk and Surface Structure Evolution of $\text{Li}_{4/5}\text{Ti}_5\text{O}_{12}$ Anode. <i>Journal of the American Chemical Society</i> , 2015, 137, 1581-1586.	13.7	106
150	New Insight in Understanding Oxygen Reduction and Evolution in Solid-State Lithium-Oxygen Batteries Using an in Situ Environmental Scanning Electron Microscope. <i>Nano Letters</i> , 2014, 14, 4245-4249.	9.1	104
151	Probing the Energy Storage Mechanism of Quasi-Metallic Na in Hard Carbon for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003854.	19.5	104
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