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	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 Liâ€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 Li₄Ti₅O₁₂ Coated with Nâ€Doped Carbon from Ionic Liquids for Liâ€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 Na3V2(PO4)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 Li4Ti5O12 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-TiO₂ Nanocoating for a High-Rate Li₄Ti₅O₁₂ Anode of a Lithium-Ion Battery. Journal of the American Chemical Society, 2012, 134, 7874-7879.	13.7	602
17	Fully Reversible Homogeneous and Heterogeneous Li Storage in RuO2 with High Capacity. Advanced Functional Materials, 2003, 13, 621-625.	14.9	598
18	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6â€‰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	Safetyâ€Reinforced Poly(Propylene Carbonate)â€Based Allâ€Solidâ€State Polymer Electrolyte for Ambientâ€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 Sodiumâ€Ion Batteries Using an Airâ€Stable and Co/Niâ€Free O3â€Layered Metal Oxide Cathode. Advanced Materials, 2015, 27, 6928-6933.	21.0	504
24	Disodium Terephthalate (Na₂C₈H₄O₄) as High Performance Anode Material for Lowâ€Cost Roomâ€Temperature Sodiumâ€Ion Battery. Advanced Energy Materials, 2012, 2, 962-965.	19.5	498
25	Understanding the Rate Capability of Highâ€Energyâ€Density Liâ€Rich Layered Li_{1.2}Ni_{0.15}Co_{0.1}Mn_{0.55}O₂ 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 Na₂Ti₃O₇ for Roomâ€Temperature Sodiumâ€Ion Batteries. Advanced Energy Materials, 2013, 3, 1186-1194.	19.5	456
29	Kinetic analysis on LiFePO4 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 Lithiumâ€Ion Conducting Polymer Electrolytes Based on a Superâ€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	Aluminaâ€Coated Patterned Amorphous Silicon as the Anode for a Lithiumâ€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 LiFePO4 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 Dendriteâ€Free Lithiumâ€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 â€œLiNi0.5Mn1.5O4â€• Solid State Ionics, 2011, 193, 32-38.	2.7	327
41	Atomic Structure and Kinetics of NASICON Na_xV₂(PO₄)₃ Cathode for Sodiumâ€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 Na0.44MnO2 oxide as a negative electrode for aqueous sodium-ion batteries. Nature Communications, 2015, 6, 6401.	12.8	316
45	Controlled synthesis of CeO2nanorods 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 LiCoO2 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	Reviewâ€”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	Airâ€Stable Copperâ€Based P2â€Na_{7/9}Cu_{2/9}Fe_{1/9}Mn_{2/3}O₂ as a New Positive Electrode Material for Sodiumâ€Ion Batteries. Advanced Science, 2015, 2, 1500031.	11.2	287
53	Rechargeable Li/CO2â€“O2 (2â€‰:â€‰1) battery and Li/CO2 battery. Energy and Environmental Science, 2014, 7, 677.	30.8	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. Energy Storage Materials, 2016, 2, 139-145.	18.0	274
56	Lithium bis(fluorosulfonyl)imide/poly(ethylene oxide) polymer electrolyte. Electrochimica Acta, 2014, 133, 529-538.	5.2	273
57	Lithium Storage in Li₄Ti₅O₁₂ Spinel: The Full Static Picture from Electron Microscopy. Advanced Materials, 2012, 24, 3233-3238.	21.0	269
58	Anionic Redox Reaction-Induced High-Capacity and Low-Strain Cathode with Suppressed Phase Transition. Joule, 2019, 3, 503-517.	24.0	262
59	A waste biomass derived hard carbon as a high-performance anode material for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 13046-13052.	10.3	246
60	Mesoscale Organization of Nearly Monodisperse Flowerlike Ceria Microspheres. Journal of Physical Chemistry B, 2006, 110, 13445-13452.	2.6	244
61	Density Functional Investigation on Li₂MnO₃. Chemistry of Materials, 2012, 24, 4242-4251.	6.7	244
62	Confirming reversible Al 3+ storage mechanism through intercalation of Al 3+ into V 2 O 5 nanowires in a rechargeable aluminum battery. Energy Storage Materials, 2017, 6, 9-17.	18.0	241
63	Advanced sodium-ion batteries using superior low cost pyrolyzed anthracite anode: towards practical applications. Energy Storage Materials, 2016, 5, 191-197.	18.0	239
64	Li-free Cathode Materials for High Energy Density Lithium Batteries. Joule, 2019, 3, 2086-2102.	24.0	239
65	The 2019 materials by design roadmap. Journal Physics D: Applied Physics, 2019, 52, 013001.	2.8	236
66	A Selfâ€Forming Composite Electrolyte for Solidâ€State Sodium Battery with Ultralong Cycle Life. Advanced Energy Materials, 2017, 7, 1601196.	19.5	231
67	Defect Thermodynamics and Diffusion Mechanisms in Li₂CO₃ and Implications for the Solid Electrolyte Interphase in Li-Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 8579-8593.	3.1	228
68	Highâ€Voltage Aqueous Naâ€Ion Battery Enabled by Inertâ€Cationâ€Assisted Waterâ€inâ€Salt Electrolyte. Advanced Materials, 2020, 32, e1904427.	21.0	221
69	Direct Observation of Lithium Staging in Partially Delithiated LiFePO₄ at Atomic Resolution. Journal of the American Chemical Society, 2011, 133, 4661-4663.	13.7	219
70	Investigation on porous MnO microsphere anode for lithium ion batteries. Journal of Power Sources, 2011, 196, 6802-6808.	7.8	211
71	Atomic Structure of Li₂MnO₃ after Partial Delithiation and Reâ€Lithiation. Advanced Energy Materials, 2013, 3, 1358-1367.	19.5	211
72	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

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73	Graphite as a potassium ion battery anode in carbonate-based electrolyte and ether-based electrolyte. Journal of Power Sources, 2019, 409, 24-30.	7.8	203
74	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
75	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
76	Novel spherical microporous carbon as anode material for Li-ion batteries. Solid State Ionics, 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. ACS Applied Materials & Interfaces, 2016, 8, 20138-20146.	8.0	197
78	The Thermal Stability of Lithium Solid Electrolytes with Metallic Lithium. Joule, 2020, 4, 812-821.	24.0	197
79	Mobile Ions in Composite Solids. Chemical Reviews, 2020, 120, 4169-4221.	47.7	193
80	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
81	Studies on Capacity Loss and Capacity Fading of Nanosized SnSb Alloy Anode for Li-Ion Batteries. Journal of the Electrochemical Society, 2001, 148, A915.	2.9	191
82	Solid-state lithium batteries: Safety and prospects. EScience, 2022, 2, 138-163.	41.6	190
83	Poly(ethyl Î±-cyanoacrylate)-Based Artificial Solid Electrolyte Interphase Layer for Enhanced Interface Stability of Li Metal Anodes. Chemistry of Materials, 2017, 29, 4682-4689.	6.7	189
84	Toxicity, a serious concern of thermal runaway from commercial Li-ion battery. Nano Energy, 2016, 27, 313-319.	16.0	186
85	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
86	Perspectives of automotive battery R&D in China, Germany, Japan, and the USA. Journal of Power Sources, 2018, 382, 176-178.	7.8	184
87	High capacity Sb2O4 thin film electrodes for rechargeable sodium battery. Electrochemistry Communications, 2011, 13, 1462-1464.	4.7	181
88	Preâ€Oxidationâ€Tuned Microstructures of Carbon Anodes Derived from Pitch for Enhancing Na Storage Performance. Advanced Energy Materials, 2018, 8, 1800108.	19.5	179
89	Solid-State Composite Electrolyte LiI/3-Hydroxypropionitrile/SiO2for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2005, 127, 6394-6401.	13.7	176
90	In situ formation of a bifunctional interlayer enabled by a conversion reaction to initiatively prevent lithium dendrites in a garnet solid electrolyte. Energy and Environmental Science, 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 Highâ€Performance Anodes of Lithium Ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 5165-5169.	13.8	175
92	Interfaces Between Cathode and Electrolyte in Solid State Lithium Batteries: Challenges and Perspectives. Frontiers in Chemistry, 2018, 6, 616.	3.6	175
93	Long lifespan lithium metal anodes enabled by Al2O3 sputter coating. Energy Storage Materials, 2018, 10, 16-23.	18.0	174
94	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
95	Nanocrystalline MnO thin film anode for lithium ion batteries with low overpotential. Electrochemistry Communications, 2009, 11, 791-794.	4.7	170
96	Direct Observation of Inhomogeneous Solid Electrolyte Interphase on MnO Anode with Atomic Force Microscopy and Spectroscopy. Nano Letters, 2012, 12, 2153-2157.	9.1	170
97	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. Science Advances, 2015, 1, e1500330.	10.3	170
98	Reversible chemical delithiation/lithiation of LiFePO₄: towards a redox flow lithium-ion battery. Physical Chemistry Chemical Physics, 2013, 15, 1793-1797.	2.8	169
99	Cage-like carbon nanotubes/Si composite as anode material for lithium ion batteries. Electrochemistry Communications, 2006, 8, 51-54.	4.7	168
100	Research and development of advanced battery materials in China. Energy Storage Materials, 2019, 23, 144-153.	18.0	168
101	Temperature-Sensitive Structure Evolution of Lithiumâ€“Manganese-Rich Layered Oxides for Lithium-Ion Batteries. Journal of the American Chemical Society, 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. Physical Chemistry Chemical Physics, 2014, 16, 13229-13238.	2.8	162
103	Correlated Migration Invokes Higher Na⁺â€Ion Conductivity in NaSICONâ€Type Solid Electrolytes. Advanced Energy Materials, 2019, 9, 1902373.	19.5	162
104	A Novel High Capacity Positive Electrode Material with Tunnelâ€Type Structure for Aqueous Sodiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1501005.	19.5	161
105	In situ Visualization of State-of-Charge Heterogeneity within a LiCoO₂ Particle that Evolves upon Cycling at Different Rates. ACS Energy Letters, 2017, 2, 1240-1245.	17.4	159
106	Studies of Stannic Oxide as an Anode Material for Lithiumâ€Ion Batteries. Journal of the Electrochemical Society, 1998, 145, 59-62.	2.9	156
107	Nano-alloy anode for lithium ion batteries. Solid State Ionics, 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. Chemistry of Materials, 2002, 14, 103-108.	6.7	153

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109	A ceramic/polymer composite solid electrolyte for sodium batteries. Journal of Materials Chemistry A, 2016, 4, 15823-15828.	10.3	152
110	Batteries with high theoretical energy densities. Energy Storage Materials, 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. Electrochemistry Communications, 2004, 6, 126-131.	4.7	151
112	In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO₂ Cathode in a Working All-Solid-State Battery. Journal of the American Chemical Society, 2017, 139, 4274-4277.	13.7	142
113	Surface-protected LiCoO2 with ultrathin solid oxide electrolyte film for high-voltage lithium ion batteries and lithium polymer batteries. Journal of Power Sources, 2018, 388, 65-70.	7.8	139
114	Gas evolution behaviors for several cathode materials in lithium-ion batteries. Journal of Power Sources, 2005, 142, 285-291.	7.8	136
115	Phase Transformation and Lithiation Effect on Electronic Structure of Li_xFePO₄: An In-Depth Study by Soft X-ray and Simulations. Journal of the American Chemical Society, 2012, 134, 13708-13715.	13.7	136
116	Amorphous Li₂O₂: Chemical Synthesis and Electrochemical Properties. Angewandte Chemie - International Edition, 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. Journal of the Electrochemical Society, 2011, 158, A74.	2.9	130
118	A highly reversible, low-strain Mg-ion insertion anode material for rechargeable Mg-ion batteries. NPG Asia Materials, 2014, 6, e120-e120.	7.9	130
119	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
120	TiS2 as a high performance potassium ion battery cathode in ether-based electrolyte. Energy Storage Materials, 2018, 12, 216-222.	18.0	129
121	New Insight into the Atomic Structure of Electrochemically Delithiated O3-Li_(1â€“x)CoO₂ (0 â‰¤ x â‰¤ 0.5) Nanoparticles. Nano Letters, 2012, 12, 6192-6197.	12.1	128
122	Al₂O₃ surface coating on LiCoO₂ through a facile and scalable wet-chemical method towards high-energy cathode materials withstanding high cutoff voltages. Journal of Materials Chemistry A, 2017, 5, 24361-24370.	10.3	127
123	Progress in thermal stability of <scp>allâ€solidâ€stateâ€Liâ€ionâ€batteries</scp>. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 827-853.	17.3	126
124	Al2O3-coated LiCoO2 as cathode material for lithium ion batteries. Solid State Ionics, 2002, 152-153, 341-346.	2.7	125
125	Homogeneous Interface Conductivity for Lithium Dendrite-Free Anode. ACS Energy Letters, 2018, 3, 2259-2266.	17.4	124
126	Novel room temperature molten salt electrolyte based on LiTFSI and acetamide for lithium batteries. Electrochemistry Communications, 2004, 6, 28-32.	4.7	123

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127	Feâ€Based Tunnelâ€Type Na_{0.61}[Mn_{0.27}Fe_{0.34}Ti_{0.39}]O₂ Designed by a New Strategy as a Cathode Material for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1501156.	19.5	122
128	Improve the electrochemical performances of Cr2O3 anode for lithium ion batteries. Solid State Ionics, 2006, 177, 2791-2799.	2.7	120
129	A wide-temperature superior ionic conductive polymer electrolyte for lithium metal battery. Nano Energy, 2020, 73, 104786.	16.0	120
130	Epitaxial Induced Plating Currentâ€Collector Lasting Lifespan of Anodeâ€Free Lithium Metal Battery. Advanced Energy Materials, 2021, 11, 2003709.	19.5	119
131	Investigations of mesoporous CeO2â€“Ru as a reforming catalyst layer for solid oxide fuel cells. Electrochemistry Communications, 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. Journal of Power Sources, 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. Scientific Reports, 2015, 5, 14227.	3.3	117
134	Synthesis and Characterization of Polycrystalline CeO2Nanowires. Chemistry Letters, 2004, 33, 662-663.	1.3	116
135	Spinel lithium titanate (Li₄Ti₅O₁₂) as novel anode material for room-temperature sodium-ion battery. Chinese Physics B, 2012, 21, 028201.	1.4	116
136	Direct evidence of gradient Mn(II) evolution at charged states in LiNi0.5Mn1.5O4 electrodes with capacity fading. Journal of Power Sources, 2015, 273, 1120-1126.	7.8	115
137	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
138	Practical evaluation of energy densities for sulfide solid-state batteries. ETransportation, 2019, 1, 100010.	14.8	114
139	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithiumâ€Rich Cathode Oxides. Angewandte Chemie - International Edition, 2019, 58, 4883-4887.	13.8	114
140	First-principles investigation on redox properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>M</mml:mi></mml:math>-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CeO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms	3.2	112
141	Electrochemical impedance spectroscopy study of SnO and nano-SnO anodes in lithium rechargeable batteries. Journal of Power Sources, 1999, 81-82, 340-345.	7.8	111
142	Highâ€Rate Charging Induced Intermediate Phases and Structural Changes of Layerâ€Structured Cathode for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1600597.	19.5	110
143	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
144	Controlling Li deposition below the interface. EScience, 2022, 2, 47-78.	41.6	110

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145	Nonâ€Corrosive, Nonâ€Absorbing Organic Redox Couple for Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2010, 20, 3358-3365.	14.9	109
146	Silicon-based nanosheets synthesized by a topochemical reaction for use as anodes for lithium ion batteries. Nano Research, 2015, 8, 2654-2662.	10.4	109
147	In-situ visualization of lithium plating in all-solid-state lithium-metal battery. Nano Energy, 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. Journal of Power Sources, 2020, 459, 228073.	7.8	109
149	New Insight into the Atomic-Scale Bulk and Surface Structure Evolution of Li₄Ti₅O₁₂ Anode. Journal of the American Chemical Society, 2015, 137, 1581-1586.	13.7	106
150	New Insight in Understanding Oxygen Reduction and Evolution in Solid-State Lithiumâ€“Oxygen Batteries Using an in Situ Environmental Scanning Electron Microscope. Nano Letters, 2014, 14, 4245-4249.	9.1	104
151	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
152	Study of flowerlike CeO2 microspheres used as catalyst supports for CO oxidation reaction. Journal of Physics and Chemistry of Solids, 2007, 68, 1785-1790.	4.0	102
153	New electrolytes using Li2O or Li2O2 oxides and tris(pentafluorophenyl) borane as boron based anion receptor for lithium batteries. Electrochemistry Communications, 2008, 10, 1195-1197.	4.7	102
154	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
155	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
156	Synthesis of doped ceria with mesoporous flowerlike morphology and its catalytic performance for CO oxidation. Microporous and Mesoporous Materials, 2009, 120, 426-431.	4.4	98
157	Room temperature fabrication of porous ZnO photoelectrodes for flexible dye-sensitized solar cells. Chemical Communications, 2007, , 2847.	4.1	97
158	A Repeated Halving Approach to Fabricate Ultrathin Singleâ€Walled Carbon Nanotube Films for Transparent Supercapacitors. Small, 2013, 9, 518-524.	10.0	96
159	Nanovoid Formation and Annihilation in Gallium Nanodroplets under Lithiationâ€“Delithiation Cycling. Nano Letters, 2013, 13, 5212-5217.	9.1	96
160	Novel Largeâ€Scale Synthesis of a C/S Nanocomposite with Mixed Conducting Networks through a Spray Drying Approach for Liâ€“S Batteries. Advanced Energy Materials, 2015, 5, 1500046.	19.5	96
161	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
162	Electrochemical decomposition of Li2CO3 in NiOâ€“Li2CO3 nanocomposite thin film and powder electrodes. Journal of Power Sources, 2012, 218, 113-118.	7.8	93

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