Liquan Chen

List of Publications by Year
in descending order

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287 papers	37,203 citations	2544 96 h-index	3261 185 g-index
290 all docs	290 docs citations	290 times ranked	22871 citing authors

#	Article	IF	Citations
1	Room-temperature stationary sodium-ion batteries for large-scale electric energy storage. Energy and Environmental Science, 2013, 6, 2338.	30.8	2,799
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	New horizons for inorganic solid state ion conductors. Energy and Environmental Science, 2018, 11, 1945-1976.	30.8	894
5	Approaching Practically Accessible Solid-State Batteries: Stability Issues Related to Solid Electrolytes and Interfaces. Chemical Reviews, 2020, 120, 6820-6877.	47.7	891
6	Superior Electrochemical Performance and Storage Mechanism of Na₃V₂(PO₄)₃ Cathode for Roomâ€Temperature Sodiumâ€ion Batteries. Advanced Energy Materials, 2013, 3, 156-160.	19.5	817
7	Hard Carbon Microtubes Made from Renewable Cotton as Highâ€Performance Anode Material for Sodiumâ€ion Batteries. Advanced Energy Materials, 2016, 6, 1600659.	19.5	655
8	Building aqueous K-ion batteries for energy storage. Nature Energy, 2019, 4, 495-503.	39.5	630
9	Rational design of layered oxide materials for sodium-ion batteries. Science, 2020, 370, 708-711.	12.6	616
10	Lithium storage in nitrogen-rich mesoporous carbon materials. Energy and Environmental Science, 2012, 5, 7950.	30.8	593
11	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6â€‰V. Nature Energy, 2019, 4, 594-603.	39.5	572
12	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
13	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
14	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
15	Solidâ€State Sodium Batteries. Advanced Energy Materials, 2018, 8, 1703012.	19.5	478
16	Sodium Storage and Transport Properties in Layered Na₂Ti₃O₇ for Roomâ€Temperature Sodiumâ€ion Batteries. Advanced Energy Materials, 2013, 3, 1186-1194.	19.5	456
17	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
18	P2-Na0.6[Cr0.6Ti0.4]O2 cation-disordered electrode for high-rate symmetric rechargeable sodium-ion batteries. Nature Communications, 2015, 6, 6954.	12.8	426

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19	Single Lithiumâ€Ion Conducting Polymer Electrolytes Based on a Superâ€Delocalized Polyanion. Angewandte Chemie - International Edition, 2016, 55, 2521-2525.	13.8	411
20	Reviving lithium cobalt oxide-based lithium secondary batteries-toward a higher energy density. Chemical Society Reviews, 2018, 47, 6505-6602.	38.1	407
21	In Situ Generation of Poly (Vinylene Carbonate) Based Solid Electrolyte with Interfacial Stability for LiCoO₂ Lithium Batteries. Advanced Science, 2017, 4, 1600377.	11.2	377
22	High-voltage and free-standing poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 632 Td (carbonate)/Li_{6.75}La₃ composite solid electrolyte for wide temperature range and flexible solid lithium ion battery. Journal of Materials Chemistry A, 2017, 5, 4940-4948.	10.3	373
23	Highâ€Entropy Layered Oxide Cathodes for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 264-269.	13.8	335
24	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
25	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
26	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
27	Ti-substituted tunnel-type Na0.44MnO2 oxide as a negative electrode for aqueous sodium-ion batteries. Nature Communications, 2015, 6, 6401.	12.8	316
28	High-Energy All-Solid-State Lithium Batteries with Ultralong Cycle Life. Nano Letters, 2016, 16, 7148-7154.	9.1	309
29	Surface and Interface Issues in Spinel LiNi_{0.5}Mn_{1.5}O₄: Insights into a Potential Cathode Material for High Energy Density Lithium Ion Batteries. Chemistry of Materials, 2016, 28, 3578-3606.	6.7	296
30	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
31	Highly Ordered Mesoporous Crystalline MoSe₂ Material with Efficient Visibleâ€Lightâ€Driven Photocatalytic Activity and Enhanced Lithium Storage Performance. Advanced Functional Materials, 2013, 23, 1832-1838.	14.9	285
32	Rechargeable Li/CO2â€“O2 (2â€‰:â€‰1) battery and Li/CO2 battery. Energy and Environmental Science, 2014, 7, 677.	30.8	281
33	Strategies for improving the cyclability and thermo-stability of LiMn₂O₄-based batteries at elevated temperatures. Journal of Materials Chemistry A, 2015, 3, 4092-4123.	10.3	258
34	Atomic-scale investigation on lithium storage mechanism in TiNb2O7,. Energy and Environmental Science, 2011, 4, 2638.	30.8	256
35	First-principles study of Li ion diffusion inLiFePO4. Physical Review B, 2004, 69, .	3.2	250
36	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

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37	Progress in nitrile-based polymer electrolytes for high performance lithium batteries. Journal of Materials Chemistry A, 2016, 4, 10070-10083.	10.3	243
38	Advanced sodium-ion batteries using superior low cost pyrolyzed anthracite anode: towards practical applications. Energy Storage Materials, 2016, 5, 191-197.	18.0	239
39	Li-free Cathode Materials for High Energy Density Lithium Batteries. Joule, 2019, 3, 2086-2102.	24.0	239
40	Novel Design Concepts of Efficient Mgâ€Ion Electrolytes toward Highâ€Performance Magnesiumâ€“Selenium and Magnesiumâ€“Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602055.	19.5	231
41	A Selfâ€Forming Composite Electrolyte for Solidâ€State Sodium Battery with Ultralong Cycle Life. Advanced Energy Materials, 2017, 7, 1601196.	19.5	231
42	Surface Doping to Enhance Structural Integrity and Performance of Liâ€Rich Layered Oxide. Advanced Energy Materials, 2018, 8, 1802105.	19.5	228
43	Highâ€Voltage Aqueous Naâ€Ion Battery Enabled by Inertâ€Cationâ€Assisted Waterâ€inâ€Salt Electrolyte. Advanced Materials, 2020, 32, e1904427.	21.0	221
44	Atomic Structure of Li₂MnO₃ after Partial Delithiation and Reâ€Lithiation. Advanced Energy Materials, 2013, 3, 1358-1367.	19.5	211
45	Advanced Nanostructured Anode Materials for Sodiumâ€Ion Batteries. Small, 2017, 13, 1701835.	10.0	206
46	Revealing High Na-Content P2-Type Layered Oxides as Advanced Sodium-Ion Cathodes. Journal of the American Chemical Society, 2020, 142, 5742-5750.	13.7	206
47	Tuning the Closed Pore Structure of Hard Carbons with the Highest Na Storage Capacity. ACS Energy Letters, 2019, 4, 2608-2612.	17.4	205
48	Structural and electrochemical characterizations of surface-modified LiCoO2 cathode materials for Li-ion batteries. Solid State Ionics, 2002, 148, 335-342.	2.7	204
49	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
50	Sustainable, heat-resistant and flame-retardant cellulose-based composite separator for high-performance lithium ion battery. Scientific Reports, 2014, 4, 3935.	3.3	203
51	Mobile Ions in Composite Solids. Chemical Reviews, 2020, 120, 4169-4221.	47.7	193
52	Grapheneâ€“Co₃O₄nanocomposite as an efficient bifunctional catalyst for lithiumâ€“air batteries. Journal of Materials Chemistry A, 2014, 2, 7188-7196.	10.3	192
53	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
54	Solid-state lithium batteries: Safety and prospects. EScience, 2022, 2, 138-163.	41.6	190

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55	Tuning chargeâ€“discharge induced unit cell breathing in layer-structured cathode materials for lithium-ion batteries. Nature Communications, 2014, 5, 5381.	12.8	180
56	Preâ€Oxidationâ€Tuned Microstructures of Carbon Anodes Derived from Pitch for Enhancing Na Storage Performance. Advanced Energy Materials, 2018, 8, 1800108.	19.5	179
57	Electrochemical Evaluation and Structural Characterization of Commercial LiCoO[sub 2] Surfaces Modified with MgO for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2002, 149, A466.	2.9	175
58	Interfaces Between Cathode and Electrolyte in Solid State Lithium Batteries: Challenges and Perspectives. Frontiers in Chemistry, 2018, 6, 616.	3.6	175
59	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
60	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. Science Advances, 2015, 1, e1500330.	10.3	170
61	Identifying and Addressing Critical Challenges of High-Voltage Layered Ternary Oxide Cathode Materials. Chemistry of Materials, 2019, 31, 6033-6065.	6.7	164
62	Correlated Migration Invokes Higher Na⁺â€Ion Conductivity in NaSICONâ€Type Solid Electrolytes. Advanced Energy Materials, 2019, 9, 1902373.	19.5	162
63	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
64	Prescribing Functional Additives for Treating the Poor Performances of Highâ€Voltage (5 Vâ€class) LiNi_{0.5}Mn_{1.5}O₄/MCMB Liâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1701398.	19.5	160
65	Studies of Stannic Oxide as an Anode Material for Lithiumâ€Ion Batteries. Journal of the Electrochemical Society, 1998, 145, 59-62.	2.9	156
66	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
67	A ceramic/polymer composite solid electrolyte for sodium batteries. Journal of Materials Chemistry A, 2016, 4, 15823-15828.	10.3	152
68	Selecting Substituent Elements for Li-Rich Mn-Based Cathode Materials by Density Functional Theory (DFT) Calculations. Chemistry of Materials, 2015, 27, 3456-3461.	6.7	149
69	In-situ visualization of the space-charge-layer effect on interfacial lithium-ion transport in all-solid-state batteries. Nature Communications, 2020, 11, 5889.	12.8	145
70	Nonflammable Nitrile Deep Eutectic Electrolyte Enables High-Voltage Lithium Metal Batteries. Chemistry of Materials, 2020, 32, 3405-3413.	6.7	145
71	Electrochemical Characterization of Positive Electrode Material LiNi[sub 1/3]Co[sub 1/3]Mn[sub 1/3]O[sub 2] and Compatibility with Electrolyte for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2004, 151, A914.	2.9	143
72	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

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73	A Smart Flexible Zinc Battery with Cooling Recovery Ability. Angewandte Chemie - International Edition, 2017, 56, 7871-7875.	13.8	141
74	Perovskite Sr0.95Ce0.05CoO3â˜Î´ loaded with copper nanoparticles as a bifunctional catalyst for lithium-air batteries. Journal of Materials Chemistry, 2012, 22, 18902.	6.7	131
75	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
76	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.	9.1	128
77	Taichi-inspired rigid-flexible coupling cellulose-supported solid polymer electrolyte for high-performance lithium batteries. Scientific Reports, 2014, 4, 6272.	3.3	127
78	Progress in thermal stability of <scp>allâ€solidâ€stateâ€Liâ€ionâ€batteries</scp>. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 827-853.	17.3	126
79	Al2O3-coated LiCoO2 as cathode material for lithium ion batteries. Solid State Ionics, 2002, 152-153, 341-346.	2.7	125
80	Homogeneous Interface Conductivity for Lithium Dendrite-Free Anode. ACS Energy Letters, 2018, 3, 2259-2266.	17.4	124
81	Ultralow-Concentration Electrolyte for Na-Ion Batteries. ACS Energy Letters, 2020, 5, 1156-1158.	17.4	120
82	Epitaxial Induced Plating Currentâ€Collector Lasting Lifespan of Anodeâ€Free Lithium Metal Battery. Advanced Energy Materials, 2021, 11, 2003709.	19.5	119
83	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
84	Practical evaluation of energy densities for sulfide solid-state batteries. ETransportation, 2019, 1, 100010.	14.8	114
85	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:msub></mml:mrow></mml:math>	3.2	112
86	Iron migration and oxygen oxidation during sodium extraction from NaFeO2. Nano Energy, 2018, 47, 519-526.	16.0	111
87	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
88	Nonâ€Corrosive, Nonâ€Absorbing Organic Redox Couple for Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2010, 20, 3358-3365.	14.9	109
89	Electrochemical and In Situ Synchrotron XRD Studies on Al[sub 2]O[sub 3]-Coated LiCoO[sub 2] Cathode Material. Journal of the Electrochemical Society, 2004, 151, A1344.	2.9	108
90	Rigidâ€“Flexible Coupling High Ionic Conductivity Polymer Electrolyte for an Enhanced Performance of LiMn₂O₄/Graphite Battery at Elevated Temperature. ACS Applied Materials & Interfaces, 2015, 7, 4720-4727.	8.0	108

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91	Flexible Na batteries. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 126-138.	17.3	108
92	Feasibility of Using Li₂MoO₃ in Constructing Li-Rich High Energy Density Cathode Materials. Chemistry of Materials, 2014, 26, 3256-3262.	6.7	106
93	Uncovering the Potential of M1â€Siteâ€Activated NASICON Cathodes for Znâ€Ion Batteries. Advanced Materials, 2020, 32, e1907526.	21.0	103
94	Compatible interface design of CoO-based Li-O2 battery cathodes with long-cycling stability. Scientific Reports, 2015, 5, 8335.	3.3	102
95	Improved electron/Li-ion transport and oxygen stability of Mo-doped Li2MnO3. Journal of Materials Chemistry A, 2014, 2, 4811.	10.3	101
96	Lithium Plating and Stripping on Carbon Nanotube Sponge. Nano Letters, 2019, 19, 494-499.	9.1	101
97	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
98	Gelatin-pyrolyzed mesoporous carbon as a high-performance sodium-storage material. Journal of Materials Chemistry A, 2015, 3, 7849-7854.	10.3	97
99	A novel NASICON-based glass-ceramic composite electrolyte with enhanced Na-ion conductivity. Energy Storage Materials, 2019, 23, 514-521.	18.0	97
100	A hybrid material of vanadium nitride and nitrogen-doped graphene for lithium storage. Journal of Materials Chemistry, 2011, 21, 11916.	6.7	96
101	Design and Comparative Study of O3/P2 Hybrid Structures for Room Temperature Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 40215-40223.	8.0	95
102	Competitive Solvation Enhanced Stability of Lithium Metal Anode in Dual-Salt Electrolyte. Nano Letters, 2021, 21, 3310-3317.	9.1	95
103	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
104	In Situ Formation of a Stable Interface in Solid-State Batteries. ACS Energy Letters, 2019, 4, 1650-1657.	17.4	93
105	An In Situ Interface Reinforcement Strategy Achieving Long Cycle Performance of Dualâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1804022.	19.5	92
106	Impact of the functional group in the polyanion of single lithium-ion conducting polymer electrolytes on the stability of lithium metal electrodes. RSC Advances, 2016, 6, 32454-32461.	3.6	90
107	A highly active, stable and synergistic Pt nanoparticles/Mo2C nanotube catalyst for methanol electro-oxidation. NPG Asia Materials, 2015, 7, e153-e153.	7.9	88
108	Novel Li[(CF₃SO₂)(n-C₄F₉SO₂)N]-Based Polymer Electrolytes for Solid-State Lithium Batteries with Superior Electrochemical Performance. ACS Applied Materials & Interfaces, 2016, 8, 29705-29712.	8.0	87

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109	An O3â€type Oxide with Low Sodium Content as the Phaseâ€Transitionâ€Free Anode for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 7056-7060.	13.8	87
110	Self-Stabilized Solid Electrolyte Interface on a Host-Free Li-Metal Anode toward High Areal Capacity and Rate Utilization. Chemistry of Materials, 2018, 30, 4039-4047.	6.7	87
111	Insights into Lithium and Sodium Storage in Porous Carbon. Nano Letters, 2020, 20, 3836-3843.	9.1	86
112	New Binary Room-Temperature Molten Salt Electrolyte Based on Urea and LiTFSI. Journal of Physical Chemistry B, 2001, 105, 9966-9969.	2.6	85
113	Obtaining ultra-long copper nanowires via a hydrothermal process. Science and Technology of Advanced Materials, 2005, 6, 761-765.	6.1	85
114	Novel Methods for Sodiumâ€Ion Battery Materials. Small Methods, 2017, 1, 1600063.	8.6	84
115	Theoretical study of cation doping effect on the electronic conductivity of Li4Ti5O12. Physica Status Solidi (B): Basic Research, 2006, 243, 1835-1841.	1.5	83
116	Performance Improvement of Surface-Modified LiCoO[sub 2] Cathode Materials: An Infrared Absorption and X-Ray Photoelectron Spectroscopic Investigation. Journal of the Electrochemical Society, 2003, 150, A199.	2.9	82
117	High Polymerization Conversion and Stable High-Voltage Chemistry Underpinning an In Situ Formed Solid Electrolyte. Chemistry of Materials, 2020, 32, 9167-9175.	6.7	81
118	Reversible reduction of Li₂CO₃. Journal of Materials Chemistry A, 2015, 3, 14173-14177.	10.3	80
119	Trimethyl Borate as Film-Forming Electrolyte Additive To Improve High-Voltage Performances. ACS Applied Materials & Interfaces, 2019, 11, 17435-17443.	8.0	77
120	Sodium Bis(fluorosulfonyl)imide/Poly(ethylene oxide) Polymer Electrolytes for Sodiumâ€Ion Batteries. ChemElectroChem, 2016, 3, 1741-1745.	3.4	76
121	A high-voltage poly(methylethyl Î±-cyanoacrylate) composite polymer electrolyte for 5 V lithium batteries. Journal of Materials Chemistry A, 2016, 4, 5191-5197.	10.3	76
122	A new Na[(FSO₂)(n-C₄F₉SO₂)N]-based polymer electrolyte for solid-state sodium batteries. Journal of Materials Chemistry A, 2017, 5, 7738-7743.	10.3	76
123	Liâ€“Ti Cation Mixing Enhanced Structural and Performance Stability of Liâ€Rich Layered Oxide. Advanced Energy Materials, 2019, 9, 1901530.	19.5	76
124	A spray drying approach for the synthesis of a Na₂C₆H₂O₄/CNT nanocomposite anode for sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 13193-13197.	10.3	75
125	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
126	Iodine Vapor Transport-Triggered Preferential Growth of Chevrel Mo₆S₈ Nanosheets for Advanced Multivalent Batteries. ACS Nano, 2020, 14, 1102-1110.	14.6	72

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127	Realizing High Volumetric Lithium Storage by Compact and Mechanically Stable Anode Designs. ACS Energy Letters, 2020, 5, 1986-1995.	17.4	72
128	Ultralight Electrolyte for Highâ€Energy Lithiumâ€“Sulfur Pouch Cells. Angewandte Chemie - International Edition, 2021, 60, 17547-17555.	13.8	72
129	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.	8.0	71
130	A class of liquid anode for rechargeable batteries with ultralong cycle life. Nature Communications, 2017, 8, 14629.	12.8	71
131	Liâ€Rich Li₂[Ni_{0.8}Co_{0.1}Mn_{0.1}]O₂ for Anodeâ€Free Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 8289-8296.	13.8	71
132	Spectroscopic studies on interactions and microstructures in propylene carbonate?LiTFSI electrolytes. Journal of Raman Spectroscopy, 2001, 32, 900-905.	2.5	70
133	Controlled deposition of Li metal. Nano Energy, 2017, 32, 241-246.	16.0	70
134	Native Vacancy Enhanced Oxygen Redox Reversibility and Structural Robustness. Advanced Energy Materials, 2019, 9, 1803087.	19.5	70
135	Interface Concentratedâ€Confinement Suppressing Cathode Dissolution in Waterâ€inâ€Salt Electrolyte. Advanced Energy Materials, 2020, 10, 2000665.	19.5	70
136	Improved Cycling Stability of Lithiumâ€Metal Anode with Concentrated Electrolytes Based on Lithium (Fluorosulfonyl)(trifluoromethanesulfonyl)imide. ChemElectroChem, 2016, 3, 531-536.	3.4	67
137	Ni-based cathode materials for Na-ion batteries. Nano Research, 2019, 12, 2018-2030.	10.4	67
138	Oxygen-driven transition from two-dimensional to three-dimensional transport behaviour in Î²-Li₃PS₄ electrolyte. Physical Chemistry Chemical Physics, 2016, 18, 21269-21277.	2.8	66
139	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
140	Phase Diagram Determined Lithium Plating/Stripping Behaviors on Lithiophilic Substrates. ACS Energy Letters, 2021, 6, 4118-4126.	17.4	65
141	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
142	Origin of Solid Electrolyte Interphase on Nanosized LiCoO[sub 2]. Electrochemical and Solid-State Letters, 2006, 9, A328.	2.2	63
143	Two Players Make a Formidable Combination: In Situ Generated Poly(acrylic anhydride-2-methyl-acrylic) Tj ETQq1 1 0.784314 rgBT /Ov High-Voltage Batteries. ACS Applied Materials & Interfaces, 2017, 9, 41462-41472.	8.0	63
144	Amorphous anion-rich titanium polysulfides for aluminum-ion batteries. Science Advances, 2021, 7, .	10.3	63

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145	Polypyrrole-iron-oxygen coordination complex as high performance lithium storage material. Energy and Environmental Science, 2011, 4, 3442.	30.8	62
146	High energy density hybrid Mg²⁺/Li⁺ battery with superior ultra-low temperature performance. Journal of Materials Chemistry A, 2016, 4, 2277-2285.	10.3	62
147	Novel Concentrated Li[(FSO₂)(n-C₄F₉SO₂)N]-Based Ether Electrolyte for Superior Stability of Metallic Lithium Anode. ACS Applied Materials & Interfaces, 2017, 9, 4282-4289.	8.0	62
148	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
149	Three-dimensional atomic-scale observation of structural evolution of cathode material in a working all-solid-state battery. Nature Communications, 2018, 9, 3341.	12.8	60
150	A Smart Flexible Zinc Battery with Cooling Recovery Ability. Angewandte Chemie, 2017, 129, 7979-7983.	2.0	59
151	Oxysulfide LiAlSO: A Lithium Superionic Conductor from First Principles. Physical Review Letters, 2017, 118, 195901.	7.8	58
152	In Situ Formation of Polysulfonamide Supported Poly(ethylene glycol) Divinyl Ether Based Polymer Electrolyte toward Monolithic Sodium Ion Batteries. Small, 2017, 13, 1601530.	10.0	58
153	The Formation/Decomposition Equilibrium of LiH and its Contribution on Anode Failure in Practical Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 7770-7776.	13.8	58
154	Ion Association and Salvation Studies of LiClO4/Ethylene Carbonate Electrolyte by Raman and Infrared Spectroscopy. Journal of the Electrochemical Society, 1998, 145, 3346-3350.	2.9	57
155	First-principles investigation of the structural, magnetic, and electronic properties of olivineLiFePO4. Physical Review B, 2005, 71, .	3.2	57
156	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
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