Guang-Lei Cui

List of Publications by Year
in descending order

271 papers	25,328 citations	4942 84 h-index	8599 146 g-index
274 all docs	274 docs citations	274 times ranked	17472 citing authors

#	Article	IF	Citations
1	Long-life and deeply rechargeable aqueous Zn anodes enabled by a multifunctional brightener-inspired interphase. Energy and Environmental Science, 2019, 12, 1938-1949.	15.6	1,309
2	All solid-state polymer electrolytes for high-performance lithium ion batteries. Energy Storage Materials, 2016, 5, 139-164.	9.5	768
3	Nitrogen-doped graphene nanosheets with excellent lithium storage properties. Journal of Materials Chemistry, 2011, 21, 5430.	6.7	686
4	Zinc anode-compatible in-situ solid electrolyte interphase via cation solvation modulation. Nature Communications, 2019, 10, 5374.	5.8	573
5	Intermolecular Chemistry in Solid Polymer Electrolytes for Highâ€Energyâ€Density Lithium Batteries. Advanced Materials, 2019, 31, e1902029.	11.1	543
6	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.	10.2	532
7	NH₂CHâ•NH₂PbI₃: An Alternative Organolead Iodide Perovskite Sensitizer for Mesoscopic Solar Cells. Chemistry of Materials, 2014, 26, 1485-1491.	3.2	516
8	â€œWater-in-deep eutectic solventâ€• electrolytes enable zinc metal anodes for rechargeable aqueous batteries. Nano Energy, 2019, 57, 625-634.	8.2	467
9	Reviving lithium cobalt oxide-based lithium secondary batteries-toward a higher energy density. Chemical Society Reviews, 2018, 47, 6505-6602.	18.7	407
10	Methylamineâ€Gasâ€Induced Defectâ€Healing Behavior of CH₃NH₃PbI₃ Thin Films for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2015, 54, 9705-9709.	7.2	377
11	In Situ Generation of Poly (Vinylene Carbonate) Based Solid Electrolyte with Interfacial Stability for LiCoO₂ Lithium Batteries. Advanced Science, 2017, 4, 1600377.	5.6	377
12	High-voltage and free-standing poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 312 Td (carbonate)/Li_{6.75}La<sub>3< composite solid electrolyte for wide temperature range and flexible solid lithium ion battery. Journal of Materials Chemistry A, 2017, 5, 4940-4948.	5.2	373
13	Synthesis of Nitrogen-Doped MnO/Graphene Nanosheets Hybrid Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 658-664.	4.0	331
14	Renewable and Superior Thermal-Resistant Cellulose-Based Composite Nonwoven as Lithium-Ion Battery Separator. ACS Applied Materials & Interfaces, 2013, 5, 128-134.	4.0	317
15	Nanostructured transition metal nitrides for energy storage and fuel cells. Coordination Chemistry Reviews, 2013, 257, 1946-1956.	9.5	309
16	<i>In situ</i> built interphase with high interface energy and fast kinetics for high performance Zn metal anodes. Energy and Environmental Science, 2021, 14, 3609-3620.	15.6	300
17	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.	3.2	296
18	A multifunctional polymer electrolyte enables ultra-long cycle-life in a high-voltage lithium metal battery. Energy and Environmental Science, 2018, 11, 1197-1203.	15.6	273

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19	A Germaniumâ€"Carbon Nanocomposite Material for Lithium Batteries. Advanced Materials, 2008, 20, 3079-3083.	11.1	271
20	Strategies for improving the cyclability and thermo-stability of LiMn₂O₄-based batteries at elevated temperatures. Journal of Materials Chemistry A, 2015, 3, 4092-4123.	5.2	258
21	Stable Seamless Interfaces and Rapid Ionic Conductivity of Caâ€"CeO₂/LiTFSI/PEO Composite Electrolyte for Highâ€Rate and Highâ€Voltage Allâ€Solidâ€State Battery. Advanced Energy Materials, 2020, 10, 2000049.	10.2	252
22	Progress in nitrile-based polymer electrolytes for high performance lithium batteries. Journal of Materials Chemistry A, 2016, 4, 10070-10083.	5.2	243
23	Novel Design Concepts of Efficient Mgâ€Ion Electrolytes toward Highâ€Performance Magnesiumâ€"Selenium and Magnesiumâ€"Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602055.	10.2	231
24	An efficient organic magnesium borate-based electrolyte with non-nucleophilic characteristics for magnesiumâ€"sulfur battery. Energy and Environmental Science, 2017, 10, 2616-2625.	15.6	227
25	Lithium Ion Capacitors in Organic Electrolyte System: Scientific Problems, Material Development, and Key Technologies. Advanced Energy Materials, 2018, 8, 1801243.	10.2	207
26	Sustainable, heat-resistant and flame-retardant cellulose-based composite separator for high-performance lithium ion battery. Scientific Reports, 2014, 4, 3935.	1.6	203
27	Differentiated Lithium Salt Design for Multilayered PEO Electrolyte Enables a Highâ€Voltage Solidâ€State Lithium Metal Battery. Advanced Science, 2019, 6, 1901036.	5.6	202
28	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.	3.2	189
29	Nitrogen-Doped Graphdiyne Applied for Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2016, 8, 8467-8473.	4.0	184
30	Nickel Disulfideâ€"Graphene Nanosheets Composites with Improved Electrochemical Performance for Sodium Ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 7811-7817.	4.0	179
31	Ultrafast Alkaline Ni/Zn Battery Based on Ni-Foam-Supported Ni₃S₂ Nanosheets. ACS Applied Materials & Interfaces, 2015, 7, 26396-26399.	4.0	173
32	Cellulose/Polysulfonamide Composite Membrane as a High Performance Lithium-Ion Battery Separator. ACS Sustainable Chemistry and Engineering, 2014, 2, 194-199.	3.2	166
33	Identifying and Addressing Critical Challenges of High-Voltage Layered Ternary Oxide Cathode Materials. Chemistry of Materials, 2019, 31, 6033-6065.	3.2	164
34	A Novel Bifunctional Selfâ€Stabilized Strategy Enabling 4.6 V LiCoO₂ with Excellent Longâ€Term Cyclability and Highâ€Rate Capability. Advanced Science, 2019, 6, 1900355.	5.6	164
35	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.	10.2	160
36	A high temperature operating nanofibrous polyimide separator in Li-ion battery. Solid State Ionics, 2013, 232, 44-48.	1.3	157

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37	Transformative Evolution of Organolead Triiodide Perovskite Thin Films from Strong Room-Temperature Solidâ€“Gas Interaction between HPbI₃-CH₃NH₂ Precursor Pair. Journal of the American Chemical Society, 2016, 138, 750-753.	6.6	156
38	High Performance Solid Polymer Electrolytes for Rechargeable Batteries: A Selfâ€Catalyzed Strategy toward Facile Synthesis. Advanced Science, 2017, 4, 1700174.	5.6	155
39	Progress and prospect on failure mechanisms of solid-state lithium batteries. Journal of Power Sources, 2018, 392, 94-115.	4.0	151
40	Recent Advances in Nonâ€Aqueous Electrolyte for Rechargeable Liâ€“O₂ Batteries. Advanced Energy Materials, 2016, 6, 1600751.	10.2	149
41	A Superior Polymer Electrolyte with Rigid Cyclic Carbonate Backbone for Rechargeable Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17897-17905.	4.0	146
42	Interface engineering for high-performance perovskite hybrid solar cells. Journal of Materials Chemistry A, 2015, 3, 19205-19217.	5.2	145
43	In-situ visualization of the space-charge-layer effect on interfacial lithium-ion transport in all-solid-state batteries. Nature Communications, 2020, 11, 5889.	5.8	145
44	Nonflammable Nitrile Deep Eutectic Electrolyte Enables High-Voltage Lithium Metal Batteries. Chemistry of Materials, 2020, 32, 3405-3413.	3.2	145
45	Facile Preparation of Mesoporous Titanium Nitride Microspheres for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2011, 3, 93-98.	4.0	142
46	A Smart Flexible Zinc Battery with Cooling Recovery Ability. Angewandte Chemie - International Edition, 2017, 56, 7871-7875.	7.2	141
47	Rechargeable Magnesium Batteries using Conversionâ€Type Cathodes: A Perspective and Minireview. Small Methods, 2018, 2, 1800020.	4.6	135
48	Polydopamine-coated cellulose microfibrillated membrane as high performance lithium-ion battery separator. RSC Advances, 2014, 4, 7845.	1.7	134
49	Aliphatic Polycarbonateâ€Based Solidâ€State Polymer Electrolytes for Advanced Lithium Batteries: Advances and Perspective. Small, 2018, 14, e1800821.	5.2	131
50	Reasonable Design of High-Energy-Density Solid-State Lithium-Metal Batteries. Matter, 2020, 2, 805-815.	5.0	130
51	Formulation of Blendedâ€Lithiumâ€Salt Electrolytes for Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 3400-3415.	7.2	129
52	Pursuit of reversible Zn electrochemistry: a time-honored challenge towards low-cost and green energy storage. NPG Asia Materials, 2020, 12, .	3.8	129
53	Carbonate-linked poly(ethylene oxide) polymer electrolytes towards high performance solid state lithium batteries. Electrochimica Acta, 2017, 225, 151-159.	2.6	128
54	Taichi-inspired rigid-flexible coupling cellulose-supported solid polymer electrolyte for high-performance lithium batteries. Scientific Reports, 2014, 4, 6272.	1.6	127

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55	A Delicately Designed Sulfide Graphdiyne Compatible Cathode for Highâ€Performance Lithium/Magnesiumâ€"Sulfur Batteries. Small, 2017, 13, 1702277.	5.2	123
56	A Stable Solid Electrolyte Interphase for Magnesium Metal Anode Evolved from a Bulky Anion Lithium Salt. Advanced Materials, 2020, 32, e1904987.	11.1	123
57	Selectively Wetted Rigidâ€"Flexible Coupling Polymer Electrolyte Enabling Superior Stability and Compatibility of Highâ€Voltage Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903939.	10.2	123
58	Facile and Reliable in Situ Polymerization of Poly(Ethyl Cyanoacrylate)-Based Polymer Electrolytes toward Flexible Lithium Batteries. ACS Applied Materials & Interfaces, 2017, 9, 8737-8741.	4.0	122
59	A Scalable Methylamine Gas Healing Strategy for Highâ€Efficiency Inorganic Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 5587-5591.	7.2	121
60	Small things make big deal: Powerful binders of lithium batteries and post-lithium batteries. Energy Storage Materials, 2019, 20, 146-175.	9.5	118
61	A Strategy to Make High Voltage LiCoO₂Compatible with Polyethylene Oxide Electrolyte in All-Solid-State Lithium Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A3454-A3461.	1.3	116
62	Overcoming the Challenges of 5 V Spinel LiNi_{0.5}Mn_{1.5}O₄ Cathodes with Solid Polymer Electrolytes. ACS Energy Letters, 2019, 4, 2871-2886.	8.8	114
63	Chemical Composition and Phase Evolution in DMAI-Derived Inorganic Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 263-270.	8.8	114
64	Perovskite Solution Aging: What Happened and How to Inhibit?. CheM, 2020, 6, 1369-1378.	5.8	112
65	Integrated Interface Strategy toward Room Temperature Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 13588-13597.	4.0	110
66	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.	4.0	108
67	Hierarchically Designed Germanium Microcubes with High Initial Coulombic Efficiency toward Highly Reversible Lithium Storage. Chemistry of Materials, 2015, 27, 2189-2194.	3.2	108
68	Additiveâ€Assisted Novel Dualâ€Salt Electrolyte Addresses Wide Temperature Operation of Lithiumâ€"Metal Batteries. Small, 2019, 15, e1900269.	5.2	107
69	Polymer Electrolytes for High Energy Density Ternary Cathode Material-Based Lithium Batteries. Electrochemical Energy Reviews, 2019, 2, 128-148.	13.1	106
70	Uncovering the Potential of M1â€Siteâ€Activated NASICON Cathodes for Znâ€Ion Batteries. Advanced Materials, 2020, 32, e1907526.	11.1	103
71	Compatible interface design of CoO-based Li-O2 battery cathodes with long-cycling stability. Scientific Reports, 2015, 5, 8335.	1.6	102
72	A sustainable and rigid-flexible coupling cellulose-supported poly(propylene carbonate) polymer electrolyte towards 5 V high voltage lithium batteries. Electrochimica Acta, 2016, 188, 23-30.	2.6	102

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73	In Situ Polymerization Permeated Threeâ€Dimensional Li⁺â€Percolated Porous Oxide Ceramic Framework Boosting All Solidâ€State Lithium Metal Battery. Advanced Science, 2021, 8, 2003887.	5.6	102
74	Safety-Enhanced Polymer Electrolytes for Sodium Batteries: Recent Progress and Perspectives. ACS Applied Materials & Interfaces, 2019, 11, 17109-17127.	4.0	100
75	Multifunctional Sandwichâ€Structured Electrolyte for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Science, 2018, 5, 1700503.	5.6	99
76	Li4Ti5O12-based energy conversion and storage systems: Status and prospects. Coordination Chemistry Reviews, 2017, 343, 139-184.	9.5	97
77	A Bismuth-Based Protective Layer for Magnesium Metal Anode in Noncorrosive Electrolytes. ACS Energy Letters, 2021, 6, 2594-2601.	8.8	96
78	A Crosslinked Polytetrahydrofuranâ€Borateâ€Based Polymer Electrolyte Enabling Wideâ€Workingâ€Temperatureâ€Range Rechargeable Magnesium Batteries. Advanced Materials, 2019, 31, e1805930.	11.1	95
79	A Temperatureâ€Responsive Electrolyte Endowing Superior Safety Characteristic of Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903441.	10.2	95
80	Nitrogen-doped carbonized polyimide microsphere as a novel anode material for high performance lithium ion capacitors. Electrochimica Acta, 2016, 196, 603-610.	2.6	94
81	The interfacial evolution between polycarbonate-based polymer electrolyte and Li-metal anode. Journal of Power Sources, 2018, 397, 157-161.	4.0	94
82	A biomass based free radical scavenger binder endowing a compatible cathode interface for 5 V lithium-ion batteries. Energy and Environmental Science, 2019, 12, 273-280.	15.6	94
83	Revealing the multilevel thermal safety of lithium batteries. Energy Storage Materials, 2020, 31, 72-86.	9.5	94
84	An In Situ Interface Reinforcement Strategy Achieving Long Cycle Performance of Dualâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1804022.	10.2	92
85	Functional lithium borate salts and their potential application in high performance lithium batteries. Coordination Chemistry Reviews, 2015, 292, 56-73.	9.5	90
86	An interpenetrating network poly(diethylene glycol carbonate)-based polymer electrolyte for solid state lithium batteries. Journal of Materials Chemistry A, 2017, 5, 11124-11130.	5.2	89
87	Current Design Strategies for Rechargeable Magnesium-Based Batteries. ACS Nano, 2021, 15, 15594-15624.	7.3	89
88	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.	3.2	87
89	Selfâ€Assembled Solidâ€State Gel Catholyte Combating Iodide Diffusion and Selfâ€Discharge for a Stable Flexible Aqueous Znâ€“I₂ Battery. Advanced Energy Materials, 2020, 10, 2001997.	10.2	86
90	Macromolecular Design of Lithium Conductive Polymer as Electrolyte for Solidâ€State Lithium Batteries. Small, 2021, 17, e2005762.	5.2	85

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91	Dendriteâ€Free Lithium Deposition via Flexibleâ€Rigid Coupling Composite Network for LiNi_{0.5}Mn_{1.5}O₄/Li Metal Batteries. Small, 2018, 14, e1802244.	5.2	83
92	An in-situ polymerized solid polymer electrolyte enables excellent interfacial compatibility in lithium batteries. Electrochimica Acta, 2019, 299, 820-827.	2.6	83
93	Simultaneous Evolution of Uniaxially Oriented Grains and Ultralow-Density Grain-Boundary Network in CH₃NH₃PbI₃ Perovskite Thin Films Mediated by Precursor Phase Metastability. ACS Energy Letters, 2017, 2, 2727-2733.	8.8	82
94	Exploring polymeric lithium tartaric acid borate for thermally resistant polymer electrolyte of lithium batteries. Electrochimica Acta, 2013, 92, 132-138.	2.6	81
95	High Polymerization Conversion and Stable High-Voltage Chemistry Underpinning an In Situ Formed Solid Electrolyte. Chemistry of Materials, 2020, 32, 9167-9175.	3.2	81
96	In situ synthesis of a graphene/titanium nitride hybrid material with highly improved performance for lithium storage. Journal of Materials Chemistry, 2012, 22, 4938.	6.7	79
97	High performance germanium-based anode materials. Coordination Chemistry Reviews, 2016, 326, 34-85.	9.5	79
98	A novel germanium/carbon nanotubes nanocomposite for lithium storage material. Electrochimica Acta, 2010, 55, 985-988.	2.6	77
99	A superior thermostable and nonflammable composite membrane towards high power battery separator. Nano Energy, 2014, 10, 277-287.	8.2	77
100	Facile Design of Sulfideâ€Based all Solidâ€State Lithium Metal Battery: In Situ Polymerization within Selfâ€Supported Porous Argyrodite Skeleton. Advanced Functional Materials, 2021, 31, 2101523.	7.8	77
101	A Carbonâ€•and Binderâ€Free Nanostructured Cathode for Highâ€Performance Nonaqueous Liâ€O₂ Battery. Advanced Science, 2015, 2, 1500092.	5.6	76
102	A high-voltage poly(methylethyl Î±-cyanoacrylate) composite polymer electrolyte for 5 V lithium batteries. Journal of Materials Chemistry A, 2016, 4, 5191-5197.	5.2	76
103	LiDFOB Initiated In Situ Polymerization of Novel Eutectic Solution Enables Roomâ€Temperature Solid Lithium Metal Batteries. Advanced Science, 2020, 7, 2003370.	5.6	76
104	Cyano-reinforced in-situ polymer electrolyte enabling long-life cycling for high-voltage lithium metal batteries. Energy Storage Materials, 2021, 37, 215-223.	9.5	76
105	Reviewâ€”In Situ Polymerization for Integration and Interfacial Protection Towards Solid State Lithium Batteries. Journal of the Electrochemical Society, 2020, 167, 070527.	1.3	75
106	Challenges of prelithiation strategies for next generation high energy lithium-ion batteries. Energy Storage Materials, 2022, 47, 297-318.	9.5	74
107	Pure cellulose lithium-ion battery separator with tunable pore size and improved working stability by cellulose nanofibrils. Carbohydrate Polymers, 2021, 251, 116975.	5.1	72
108	Electrodeposition of nanostructured cobalt selenide films towards high performance counter electrodes in dye-sensitized solar cells. RSC Advances, 2013, 3, 16528.	1.7	71

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109	Selfâ€Established Rapid Magnesiation/Deâ€Magnesiation Pathways in Binary Seleniumâ€"Copper Mixtures with Significantly Enhanced Mgâ€ion Storage Reversibility. Advanced Functional Materials, 2018, 28, 1701718.	7.8	71
110	An intricately designed poly(vinylene carbonate-acrylonitrile) copolymer electrolyte enables 5 V lithium batteries. Journal of Materials Chemistry A, 2019, 7, 5295-5304.	5.2	71
111	Tracing the Impact of Hybrid Functional Additives on a High-Voltage (5 V-class) SiO_{<i>x</i>}-C/LiNi_{0.5}Mn_{1.5}O₄ Li-Ion Battery System. Chemistry of Materials, 2018, 30, 8291-8302.	3.2	70
112	Functional additives assisted ester-carbonate electrolyte enables wide temperature operation of a high-voltage (5â€V-Class) Li-ion battery. Journal of Power Sources, 2019, 416, 29-36.	4.0	70
113	Highly efficient CsPbI3/Cs1-xDMAxPbI3 bulk heterojunction perovskite solar cell. Joule, 2022, 6, 850-860.	11.7	70
114	NaV3(PO4)3/C nanocomposite as novel anode material for Na-ion batteries with high stability. Nano Energy, 2016, 26, 382-391.	8.2	69
115	A Core-Shell Structured Polysulfonamide-Based Composite Nonwoven Towards High Power Lithium Ion Battery Separator. Journal of the Electrochemical Society, 2013, 160, A1341-A1347.	1.3	67
116	Highly Reversible Cuprous Mediated Cathode Chemistry for Magnesium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11477-11482.	7.2	67
117	Graphene decorated with molybdenum dioxide nanoparticles for use in high energy lithium ion capacitors with an organic electrolyte. Journal of Materials Chemistry A, 2013, 1, 5949.	5.2	66
118	Stable cycling of lithium-sulfur battery enabled by a reliable gel polymer electrolyte rich in ester groups. Journal of Membrane Science, 2018, 550, 399-406.	4.1	65
119	A polymer electrolyte with a thermally induced interfacial ion-blocking function enables safety-enhanced lithium metal batteries. EScience, 2022, 2, 201-208.	25.0	65
120	Single-ion dominantly conducting polyborates towards high performance electrolytes in lithium batteries. Journal of Materials Chemistry A, 2015, 3, 7773-7779.	5.2	63
121	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.	4.0	63
122	Spontaneous Interface Ion Exchange: Passivating Surface Defects of Perovskite Solar Cells with Enhanced Photovoltage. Advanced Energy Materials, 2019, 9, 1902142.	10.2	63
123	Singleâ€Ionâ€Functionalized Nanocellulose Membranes Enable Leanâ€Electrolyte and Deeply Cycled Aqueous Zincâ€Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	63
124	High energy density hybrid Mg²⁺/Li⁺ battery with superior ultra-low temperature performance. Journal of Materials Chemistry A, 2016, 4, 2277-2285.	5.2	62
125	Transition-metal nitride nanoparticles embedded in N-doped reduced graphene oxide: superior synergistic electrocatalytic materials for the counter electrodes of dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 3340.	5.2	60
126	A single-ion gel polymer electrolyte based on polymeric lithium tartaric acid borate and its superior battery performance. Solid State Ionics, 2014, 262, 747-753.	1.3	60

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127	A Rechargeable Li-Air Fuel Cell Battery Based on Garnet Solid Electrolytes. Scientific Reports, 2017, 7, 41217.	1.6	60
128	Highly Safe Electrolyte Enabled via Controllable Polysulfide Release and Efficient Conversion for Advanced Lithiumâ€"Sulfur Batteries. Small, 2020, 16, e1905737.	5.2	60
129	A Smart Flexible Zinc Battery with Cooling Recovery Ability. Angewandte Chemie, 2017, 129, 7979-7983.	1.6	59
130	A supramolecular interaction strategy enabling high-performance all solid state electrolyte of lithium metal batteries. Energy Storage Materials, 2020, 25, 756-763.	9.5	59
131	Controllable Formation of Niobium Nitride/Nitrogen-Doped Graphene Nanocomposites as Anode Materials for Lithium-Ion Capacitors. Particle and Particle Systems Characterization, 2015, 32, 1006-1011.	1.2	58
132	Novel cellulose/polyurethane composite gel polymer electrolyte for high performance lithium batteries. Electrochimica Acta, 2016, 215, 261-266.	2.6	58
133	In Situ Formation of Polysulfonamide Supported Poly(ethylene glycol) Divinyl Ether Based Polymer Electrolyte toward Monolithic Sodium Ion Batteries. Small, 2017, 13, 1601530.	5.2	58
134	Anion Solvation Reconfiguration Enables Highâ€Voltage Carbonate Electrolytes for Stable Zn/Graphite Cells. Angewandte Chemie - International Edition, 2020, 59, 21769-21777.	7.2	58
135	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.	7.2	58
136	Uniform Magnesium Electrodeposition via Synergistic Coupling of Current Homogenization, Geometric Confinement, and Chemisorption Effect. Advanced Materials, 2021, 33, e2100224.	11.1	58
137	Thermal runaway routes of large-format lithium-sulfur pouch cell batteries. Joule, 2022, 6, 906-922.	11.7	58
138	A promising bulky anion based lithium borate salt for lithium metal batteries. Chemical Science, 2018, 9, 3451-3458.	3.7	56
139	A single-ion gel polymer electrolyte system for improving cycle performance of LiMn2O4 battery at elevated temperatures. Electrochimica Acta, 2014, 141, 167-172.	2.6	54
140	Flame-retardant concentrated electrolyte enabling a LiF-rich solid electrolyte interface to improve cycle performance of wide-temperature lithiumâ€"sulfur batteries. Journal of Energy Chemistry, 2020, 51, 154-160.	7.1	53
141	How Do Polymer Binders Assist Transition Metal Oxide Cathodes to Address the Challenge of High-Voltage Lithium Battery Applications?. Electrochemical Energy Reviews, 2021, 4, 545-565.	13.1	53
142	Insight into Enhanced Cycling Performance of Liâ€"O2 Batteries Based on Binary CoSe2/CoO Nanocomposite Electrodes. Journal of Physical Chemistry Letters, 2014, 5, 615-621.	2.1	52
143	Inorganic separators enable significantly suppressed polysulfide shuttling in high-performance lithiumâ€"sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 23720-23729.	5.2	52
144	Nitrogen-doped carbon and iron carbide nanocomposites as cost-effective counter electrodes of dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 4676-4681.	5.2	50

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145	Bidirectionally Compatible Buffering Layer Enables Highly Stable and Conductive Interface for 4.5ÂV Sulfideâ€Based Allâ€Solidâ€State Lithium Batteries. Advanced Energy Materials, 2021, 11, 2100881.	10.2	50
146	An insight into intrinsic interfacial properties between Li metals and Li₁₀GeP₂S₁₂ solid electrolytes. Physical Chemistry Chemical Physics, 2017, 19, 31436-31442.	1.3	49
147	A Core@sheath Nanofibrous Separator for Lithium Ion Batteries Obtained by Coaxial Electrospinning. Macromolecular Materials and Engineering, 2013, 298, 806-813.	1.7	48
148	Uncovering LiH Triggered Thermal Runaway Mechanism of a Highâ€Energy LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂/Graphite Pouch Cell. Advanced Science, 2021, 8, e2100676.	5.6	48
149	Flame-retardant quasi-solid polymer electrolyte enabling sodium metal batteries with highly safe characteristic and superior cycling stability. Nano Research, 2019, 12, 2230-2237.	5.8	47
150	A Polymerâ€Reinforced SEI Layer Induced by a Cyclic Carbonateâ€Based Polymer Electrolyte Boosting 4.45 V LiCoO₂/Li Metal Batteries. Small, 2020, 16, e1907163.	5.2	47
151	A Heat-Resistant Silica Nanoparticle Enhanced Polysulfonamide Nonwoven Separator for High-Performance Lithium Ion Battery. Journal of the Electrochemical Society, 2013, 160, A769-A774.	1.3	46
152	Polyurethane-based polymer electrolytes for lithium Batteries: Advances and perspectives. Chemical Engineering Journal, 2022, 430, 132659.	6.6	45
153	Mesocarbon microbead based dual-carbon batteries towards low cost energy storage devices. Journal of Power Sources, 2018, 393, 145-151.	4.0	44
154	Ionicâ€Associationâ€Assisted Viscoelastic Nylon Electrolytes Enable Synchronously Coupled Interface for Solid Batteries. Advanced Functional Materials, 2020, 30, 2000347.	7.8	44
155	Rigidâ€“Flexible Coupling Polymer Electrolytes toward Highâ€Energy Lithium Batteries. Macromolecular Materials and Engineering, 2018, 303, 1800337.	1.7	43
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