

Guang-Lei Cui

List of Publications by Year in descending order

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Version: 2024-02-01

271
papers

25,328
citations

4658

85
h-index

8396

147
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. <i>Energy and Environmental Science</i> , 2019, 12, 1938-1949.	30.8	1,309
2	All solid-state polymer electrolytes for high-performance lithium ion batteries. <i>Energy Storage Materials</i> , 2016, 5, 139-164.	18.0	768
3	Nitrogen-doped graphene nanosheets with excellent lithium storage properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 5430.	6.7	686
4	Zinc anode-compatible in-situ solid electrolyte interphase via cation solvation modulation. <i>Nature Communications</i> , 2019, 10, 5374.	12.8	573
5	Intermolecular Chemistry in Solid Polymer Electrolytes for High-Energy-Density Lithium Batteries. <i>Advanced Materials</i> , 2019, 31, e1902029.	21.0	543
6	Safety-Reinforced Poly(Propylene Carbonate)-Based All-Solid-State Polymer Electrolyte for Ambient-Temperature Solid Polymer Lithium Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1501082.	19.5	532
7	$\text{NH}_2\text{CH}_2\text{NH}_2\text{PbI}_3$: An Alternative Organolead Iodide Perovskite Sensitizer for Mesoscopic Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 1485-1491.	6.7	516
8	Water-in-deep eutectic solvent-electrolytes enable zinc metal anodes for rechargeable aqueous batteries. <i>Nano Energy</i> , 2019, 57, 625-634.	16.0	467
9	Reviving lithium cobalt oxide-based lithium secondary batteries-toward a higher energy density. <i>Chemical Society Reviews</i> , 2018, 47, 6505-6602.	38.1	407
10	Methylamine-Gas-Induced Defect-Healing Behavior of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Thin Films for Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9705-9709.	13.8	377
11	In Situ Generation of Poly (Vinylene Carbonate) Based Solid Electrolyte with Interfacial Stability for LiCoO_2 Lithium Batteries. <i>Advanced Science</i> , 2017, 4, 1600377.	11.2	377
12	High-voltage and free-standing poly(propylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 312 Td (carbonate)/ $\text{Li}_{6.75}\text{La}_{3.3}$ composite solid electrolyte for wide temperature range and flexible solid lithium ion battery. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4940-4948.	10.3	373
13	Synthesis of Nitrogen-Doped MnO/Graphene Nanosheets Hybrid Material for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 658-664.	8.0	331
14	Renewable and Superior Thermal-Resistant Cellulose-Based Composite Nonwoven as Lithium-Ion Battery Separator. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 128-134.	8.0	317
15	Nanostructured transition metal nitrides for energy storage and fuel cells. <i>Coordination Chemistry Reviews</i> , 2013, 257, 1946-1956.	18.8	309
16	<i>In situ</i> built interphase with high interface energy and fast kinetics for high performance Zn metal anodes. <i>Energy and Environmental Science</i> , 2021, 14, 3609-3620.	30.8	300
17	Surface and Interface Issues in Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$: Insights into a Potential Cathode Material for High Energy Density Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 3578-3606.	6.7	296
18	A multifunctional polymer electrolyte enables ultra-long cycle-life in a high-voltage lithium metal battery. <i>Energy and Environmental Science</i> , 2018, 11, 1197-1203.	30.8	273

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19	A Germaniumâ€“Carbon Nanocomposite Material for Lithium Batteries. <i>Advanced Materials</i> , 2008, 20, 3079-3083.	21.0	271
20	Strategies for improving the cyclability and thermo-stability of LiMn ₂ O ₄ -based batteries at elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4092-4123.	10.3	258
21	Stable Seamless Interfaces and Rapid Ionic Conductivity of Caâ€“CeO ₂ /LiTFSI/PEO Composite Electrolyte for Highâ€“Rate and Highâ€“Voltage Allâ€“Solidâ€“State Battery. <i>Advanced Energy Materials</i> , 2020, 10, 2000049.	19.5	252
22	Progress in nitrile-based polymer electrolytes for high performance lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10070-10083.	10.3	243
23	Novel Design Concepts of Efficient Mgâ€“Ion Electrolytes toward Highâ€“Performance Magnesiumâ€“Selenium and Magnesiumâ€“Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602055.	19.5	231
24	An efficient organic magnesium borate-based electrolyte with non-nucleophilic characteristics for magnesiumâ€“sulfur battery. <i>Energy and Environmental Science</i> , 2017, 10, 2616-2625.	30.8	227
25	Lithium Ion Capacitors in Organic Electrolyte System: Scientific Problems, Material Development, and Key Technologies. <i>Advanced Energy Materials</i> , 2018, 8, 1801243.	19.5	207
26	Sustainable, heat-resistant and flame-retardant cellulose-based composite separator for high-performance lithium ion battery. <i>Scientific Reports</i> , 2014, 4, 3935.	3.3	203
27	Differentiated Lithium Salt Design for Multilayered PEO Electrolyte Enables a Highâ€“Voltage Solidâ€“State Lithium Metal Battery. <i>Advanced Science</i> , 2019, 6, 1901036.	11.2	202
28	Poly(ethyl â€“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
29	Nitrogen-Doped Graphdiyne Applied for Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8467-8473.	8.0	184
30	Nickel Disulfideâ€“Graphene Nanosheets Composites with Improved Electrochemical Performance for Sodium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7811-7817.	8.0	179
31	Ultrafast Alkaline Ni/Zn Battery Based on Ni-Foam-Supported Ni ₃ S ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26396-26399.	8.0	173
32	Cellulose/Polysulfonamide Composite Membrane as a High Performance Lithium-Ion Battery Separator. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 194-199.	6.7	166
33	Identifying and Addressing Critical Challenges of High-Voltage Layered Ternary Oxide Cathode Materials. <i>Chemistry of Materials</i> , 2019, 31, 6033-6065.	6.7	164
34	A Novel Bifunctional Selfâ€“Stabilized Strategy Enabling 4.6 V LiCoO ₂ with Excellent Longâ€“Term Cyclability and Highâ€“Rate Capability. <i>Advanced Science</i> , 2019, 6, 1900355.	11.2	164
35	Prescribing Functional Additives for Treating the Poor Performances of Highâ€“Voltage (5 Vâ€“class) LiNi _{0.5} Mn _{1.5} O ₄ /MCMB Liâ€“Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701398.	19.5	160
36	A high temperature operating nanofibrous polyimide separator in Li-ion battery. <i>Solid State Ionics</i> , 2013, 232, 44-48.	2.7	157

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37	Transformative Evolution of Organolead Triiodide Perovskite Thin Films from Strong Room-Temperature Solid-Gas Interaction between HPbI_3 - CH_3NH_2 Precursor Pair. <i>Journal of the American Chemical Society</i> , 2016, 138, 750-753.	13.7	156
38	High Performance Solid Polymer Electrolytes for Rechargeable Batteries: A Self-Catalyzed Strategy toward Facile Synthesis. <i>Advanced Science</i> , 2017, 4, 1700174.	11.2	155
39	Progress and prospect on failure mechanisms of solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018, 392, 94-115.	7.8	151
40	Recent Advances in Non-Aqueous Electrolyte for Rechargeable LiO_2 Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600751.	19.5	149
41	A Superior Polymer Electrolyte with Rigid Cyclic Carbonate Backbone for Rechargeable Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17897-17905.	8.0	146
42	Interface engineering for high-performance perovskite hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19205-19217.	10.3	145
43	In-situ visualization of the space-charge-layer effect on interfacial lithium-ion transport in all-solid-state batteries. <i>Nature Communications</i> , 2020, 11, 5889.	12.8	145
44	Nonflammable Nitrile Deep Eutectic Electrolyte Enables High-Voltage Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2020, 32, 3405-3413.	6.7	145
45	Facile Preparation of Mesoporous Titanium Nitride Microspheres for Electrochemical Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 93-98.	8.0	142
46	A Smart Flexible Zinc Battery with Cooling Recovery Ability. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7871-7875.	13.8	141
47	Rechargeable Magnesium Batteries using Conversion-Type Cathodes: A Perspective and Minireview. <i>Small Methods</i> , 2018, 2, 1800020.	8.6	135
48	Polydopamine-coated cellulose microfibrillated membrane as high performance lithium-ion battery separator. <i>RSC Advances</i> , 2014, 4, 7845.	3.6	134
49	Aliphatic Polycarbonate-Based Solid-State Polymer Electrolytes for Advanced Lithium Batteries: Advances and Perspective. <i>Small</i> , 2018, 14, e1800821.	10.0	131
50	Reasonable Design of High-Energy-Density Solid-State Lithium-Metal Batteries. <i>Matter</i> , 2020, 2, 805-815.	10.0	130
51	Formulation of Blended Lithium Salt Electrolytes for Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3400-3415.	13.8	129
52	Pursuit of reversible Zn electrochemistry: a time-honored challenge towards low-cost and green energy storage. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	129
53	Carbonate-linked poly(ethylene oxide) polymer electrolytes towards high performance solid state lithium batteries. <i>Electrochimica Acta</i> , 2017, 225, 151-159.	5.2	128
54	Taichi-inspired rigid-flexible coupling cellulose-supported solid polymer electrolyte for high-performance lithium batteries. <i>Scientific Reports</i> , 2014, 4, 6272.	3.3	127

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55	A Delicately Designed Sulfide Graphdiyne Compatible Cathode for High-Performance Lithium/Magnesium Sulfur Batteries. <i>Small</i> , 2017, 13, 1702277.	10.0	123
56	A Stable Solid Electrolyte Interphase for Magnesium Metal Anode Evolved from a Bulky Anion Lithium Salt. <i>Advanced Materials</i> , 2020, 32, e1904987.	21.0	123
57	Selectively Wetted Rigid-Flexible Coupling Polymer Electrolyte Enabling Superior Stability and Compatibility of High-Voltage Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903939.	19.5	123
58	Facile and Reliable in Situ Polymerization of Poly(Ethyl Cyanoacrylate)-Based Polymer Electrolytes toward Flexible Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8737-8741.	8.0	122
59	A Scalable Methylamine Gas Healing Strategy for High-Efficiency Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5587-5591.	13.8	121
60	Small things make big deal: Powerful binders of lithium batteries and post-lithium batteries. <i>Energy Storage Materials</i> , 2019, 20, 146-175.	18.0	118
61	A Strategy to Make High Voltage LiCoO_2 Compatible with Polyethylene Oxide Electrolyte in All-Solid-State Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3454-A3461.	2.9	116
62	Overcoming the Challenges of 5 V Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathodes with Solid Polymer Electrolytes. <i>ACS Energy Letters</i> , 2019, 4, 2871-2886.	17.4	114
63	Chemical Composition and Phase Evolution in DMAI-Derived Inorganic Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 263-270.	17.4	114
64	Perovskite Solution Aging: What Happened and How to Inhibit?. <i>CheM</i> , 2020, 6, 1369-1378.	11.7	112
65	Integrated Interface Strategy toward Room Temperature Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13588-13597.	8.0	110
66	Rigid-Flexible Coupling High Ionic Conductivity Polymer Electrolyte for an Enhanced Performance of LiMn_2O_4 /Graphite Battery at Elevated Temperature. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4720-4727.	8.0	108
67	Hierarchically Designed Germanium Microcubes with High Initial Coulombic Efficiency toward Highly Reversible Lithium Storage. <i>Chemistry of Materials</i> , 2015, 27, 2189-2194.	6.7	108
68	Additive-Assisted Novel Dual-Salt Electrolyte Addresses Wide Temperature Operation of Lithium Metal Batteries. <i>Small</i> , 2019, 15, e1900269.	10.0	107
69	Polymer Electrolytes for High Energy Density Ternary Cathode Material-Based Lithium Batteries. <i>Electrochemical Energy Reviews</i> , 2019, 2, 128-148.	25.5	106
70	Uncovering the Potential of M-site Activated NASICON Cathodes for Zn-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e1907526.	21.0	103
71	Compatible interface design of CoO-based Li-O ₂ battery cathodes with long-cycling stability. <i>Scientific Reports</i> , 2015, 5, 8335.	3.3	102
72	A sustainable and rigid-flexible coupling cellulose-supported poly(propylene carbonate) polymer electrolyte towards 5 V high voltage lithium batteries. <i>Electrochimica Acta</i> , 2016, 188, 23-30.	5.2	102

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73	In Situ Polymerization Permeated Three-Dimensional Li ⁺ -Percolated Porous Oxide Ceramic Framework Boosting All Solid-State Lithium Metal Battery. <i>Advanced Science</i> , 2021, 8, 2003887.	11.2	102
74	Safety-Enhanced Polymer Electrolytes for Sodium Batteries: Recent Progress and Perspectives. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17109-17127.	8.0	100
75	Multifunctional Sandwich-Structured Electrolyte for High-Performance Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2018, 5, 1700503.	11.2	99
76	Li ₄ Ti ₅ O ₁₂ -based energy conversion and storage systems: Status and prospects. <i>Coordination Chemistry Reviews</i> , 2017, 343, 139-184.	18.8	97
77	A Bismuth-Based Protective Layer for Magnesium Metal Anode in Noncorrosive Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 2594-2601.	17.4	96
78	A Crosslinked Polytetrahydrofuran-Borate-Based Polymer Electrolyte Enabling Wide-Working-Temperature Range Rechargeable Magnesium Batteries. <i>Advanced Materials</i> , 2019, 31, e1805930.	21.0	95
79	A Temperature-Responsive Electrolyte Endowing Superior Safety Characteristic of Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903441.	19.5	95
80	Nitrogen-doped carbonized polyimide microsphere as a novel anode material for high performance lithium ion capacitors. <i>Electrochimica Acta</i> , 2016, 196, 603-610.	5.2	94
81	The interfacial evolution between polycarbonate-based polymer electrolyte and Li-metal anode. <i>Journal of Power Sources</i> , 2018, 397, 157-161.	7.8	94
82	A biomass based free radical scavenger binder endowing a compatible cathode interface for 5 V lithium-ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 273-280.	30.8	94
83	Revealing the multilevel thermal safety of lithium batteries. <i>Energy Storage Materials</i> , 2020, 31, 72-86.	18.0	94
84	An In Situ Interface Reinforcement Strategy Achieving Long Cycle Performance of Dual-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1804022.	19.5	92
85	Functional lithium borate salts and their potential application in high performance lithium batteries. <i>Coordination Chemistry Reviews</i> , 2015, 292, 56-73.	18.8	90
86	An interpenetrating network poly(diethylene glycol carbonate)-based polymer electrolyte for solid state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11124-11130.	10.3	89
87	Current Design Strategies for Rechargeable Magnesium-Based Batteries. <i>ACS Nano</i> , 2021, 15, 15594-15624.	14.6	89
88	Self-Stabilized Solid Electrolyte Interface on a Host-Free Li-Metal Anode toward High Areal Capacity and Rate Utilization. <i>Chemistry of Materials</i> , 2018, 30, 4039-4047.	6.7	87
89	Self-Assembled Solid-State Gel Catholyte Combating Iodide Diffusion and Self-Discharge for a Stable Flexible Aqueous Zn-I ₂ Battery. <i>Advanced Energy Materials</i> , 2020, 10, 2001997.	19.5	86
90	Macromolecular Design of Lithium Conductive Polymer as Electrolyte for Solid-State Lithium Batteries. <i>Small</i> , 2021, 17, e2005762.	10.0	85

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91	Dendrite-Free Lithium Deposition via Flexible-Rigid Coupling Composite Network for $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4/\text{Li}$ Metal Batteries. <i>Small</i> , 2018, 14, e1802244.	10.0	83
92	An in-situ polymerized solid polymer electrolyte enables excellent interfacial compatibility in lithium batteries. <i>Electrochimica Acta</i> , 2019, 299, 820-827.	5.2	83
93	Simultaneous Evolution of Uniaxially Oriented Grains and Ultralow-Density Grain-Boundary Network in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Thin Films Mediated by Precursor Phase Metastability. <i>ACS Energy Letters</i> , 2017, 2, 2727-2733.	17.4	82
94	Exploring polymeric lithium tartaric acid borate for thermally resistant polymer electrolyte of lithium batteries. <i>Electrochimica Acta</i> , 2013, 92, 132-138.	5.2	81
95	High Polymerization Conversion and Stable High-Voltage Chemistry Underpinning an In Situ Formed Solid Electrolyte. <i>Chemistry of Materials</i> , 2020, 32, 9167-9175.	6.7	81
96	In situ synthesis of a graphene/titanium nitride hybrid material with highly improved performance for lithium storage. <i>Journal of Materials Chemistry</i> , 2012, 22, 4938.	6.7	79
97	High performance germanium-based anode materials. <i>Coordination Chemistry Reviews</i> , 2016, 326, 34-85.	18.8	79
98	A novel germanium/carbon nanotubes nanocomposite for lithium storage material. <i>Electrochimica Acta</i> , 2010, 55, 985-988.	5.2	77
99	A superior thermostable and nonflammable composite membrane towards high power battery separator. <i>Nano Energy</i> , 2014, 10, 277-287.	16.0	77
100	Facile Design of Sulfide-Based all Solid-State Lithium Metal Battery: In Situ Polymerization within Self-Supported Porous Argryrodite Skeleton. <i>Advanced Functional Materials</i> , 2021, 31, 2101523.	14.9	77
101	A Carbon- and Binder-Free Nanostructured Cathode for High-Performance Nonaqueous Li_2O Battery. <i>Advanced Science</i> , 2015, 2, 1500092.	11.2	76
102	A high-voltage poly(methylethyl $\hat{\text{I}}$ -cyanoacrylate) composite polymer electrolyte for 5 V lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5191-5197.	10.3	76
103	LiDFOB Initiated In Situ Polymerization of Novel Eutectic Solution Enables Room-Temperature Solid Lithium Metal Batteries. <i>Advanced Science</i> , 2020, 7, 2003370.	11.2	76
104	Cyano-reinforced in-situ polymer electrolyte enabling long-life cycling for high-voltage lithium metal batteries. <i>Energy Storage Materials</i> , 2021, 37, 215-223.	18.0	76
105	Review "In Situ Polymerization for Integration and Interfacial Protection Towards Solid State Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070527.	2.9	75
106	Challenges of prelithiation strategies for next generation high energy lithium-ion batteries. <i>Energy Storage Materials</i> , 2022, 47, 297-318.	18.0	74
107	Pure cellulose lithium-ion battery separator with tunable pore size and improved working stability by cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2021, 251, 116975.	10.2	72
108	Electrodeposition of nanostructured cobalt selenide films towards high performance counter electrodes in dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 16528.	3.6	71

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109	Self-established Rapid Magnesium/De-magnesium Pathways in Binary Selenium-Copper Mixtures with Significantly Enhanced Mg-Ion Storage Reversibility. <i>Advanced Functional Materials</i> , 2018, 28, 1701718.	14.9	71
110	An intricately designed poly(vinylene carbonate-acrylonitrile) copolymer electrolyte enables 5 V lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5295-5304.	10.3	71
111	Tracing the Impact of Hybrid Functional Additives on a High-Voltage (5 V-class) SiO ₂ -C/LiNi _{0.5} Mn _{1.5} O ₄ Li-Ion Battery System. <i>Chemistry of Materials</i> , 2018, 30, 8291-8302.	6.7	70
112	Functional additives assisted ester-carbonate electrolyte enables wide temperature operation of a high-voltage (5 V-Class) Li-ion battery. <i>Journal of Power Sources</i> , 2019, 416, 29-36.	7.8	70
113	Highly efficient CsPbI ₃ /Cs _{1-x} DMAPbI ₃ bulk heterojunction perovskite solar cell. <i>Joule</i> , 2022, 6, 850-860.	24.0	70
114	NaV ₃ (PO ₄) ₃ /C nanocomposite as novel anode material for Na-ion batteries with high stability. <i>Nano Energy</i> , 2016, 26, 382-391.	16.0	69
115	A Core-Shell Structured Polysulfonamide-Based Composite Nonwoven Towards High Power Lithium Ion Battery Separator. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1341-A1347.	2.9	67
116	Highly Reversible Cuprous Mediated Cathode Chemistry for Magnesium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11477-11482.	13.8	67
117	Graphene decorated with molybdenum dioxide nanoparticles for use in high energy lithium ion capacitors with an organic electrolyte. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5949.	10.3	66
118	Stable cycling of lithium-sulfur battery enabled by a reliable gel polymer electrolyte rich in ester groups. <i>Journal of Membrane Science</i> , 2018, 550, 399-406.	8.2	65
119	A polymer electrolyte with a thermally induced interfacial ion-blocking function enables safety-enhanced lithium metal batteries. <i>EScience</i> , 2022, 2, 201-208.	41.6	65
120	Single-ion dominantly conducting polyborates towards high performance electrolytes in lithium batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7773-7779.	10.3	63
121	Two Players Make a Formidable Combination: In Situ Generated Poly(acrylic anhydride-2-methyl-acrylic) High-Voltage Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41462-41472.	10.784314 8.0	63
122	Spontaneous Interface Ion Exchange: Passivating Surface Defects of Perovskite Solar Cells with Enhanced Photovoltage. <i>Advanced Energy Materials</i> , 2019, 9, 1902142.	19.5	63
123	Single-Ion-Functionalized Nanocellulose Membranes Enable Lean-Electrolyte and Deeply Cycled Aqueous Zinc-Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	63
124	High energy density hybrid Mg ²⁺ /Li ⁺ battery with superior ultra-low temperature performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2277-2285.	10.3	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. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3340.	10.3	60
126	A single-ion gel polymer electrolyte based on polymeric lithium tartaric acid borate and its superior battery performance. <i>Solid State Ionics</i> , 2014, 262, 747-753.	2.7	60

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127	A Rechargeable Li-Air Fuel Cell Battery Based on Garnet Solid Electrolytes. <i>Scientific Reports</i> , 2017, 7, 41217.	3.3	60
128	Highly Safe Electrolyte Enabled via Controllable Polysulfide Release and Efficient Conversion for Advanced Lithium-Sulfur Batteries. <i>Small</i> , 2020, 16, e1905737.	10.0	60
129	A Smart Flexible Zinc Battery with Cooling Recovery Ability. <i>Angewandte Chemie</i> , 2017, 129, 7979-7983.	2.0	59
130	A supramolecular interaction strategy enabling high-performance all solid state electrolyte of lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 25, 756-763.	18.0	59
131	Controllable Formation of Niobium Nitride/Nitrogen-Doped Graphene Nanocomposites as Anode Materials for Lithium-Ion Capacitors. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 1006-1011.	2.3	58
132	Novel cellulose/polyurethane composite gel polymer electrolyte for high performance lithium batteries. <i>Electrochimica Acta</i> , 2016, 215, 261-266.	5.2	58
133	In Situ Formation of Polysulfonamide Supported Poly(ethylene glycol) Divinyl Ether Based Polymer Electrolyte toward Monolithic Sodium Ion Batteries. <i>Small</i> , 2017, 13, 1601530.	10.0	58
134	Anion Solvation Reconfiguration Enables High-Voltage Carbonate Electrolytes for Stable Zn/Graphite Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21769-21777.	13.8	58
135	The Formation/Decomposition Equilibrium of LiH and its Contribution on Anode Failure in Practical Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7770-7776.	13.8	58
136	Uniform Magnesium Electrodeposition via Synergistic Coupling of Current Homogenization, Geometric Confinement, and Chemisorption Effect. <i>Advanced Materials</i> , 2021, 33, e2100224.	21.0	58
137	Thermal runaway routes of large-format lithium-sulfur pouch cell batteries. <i>Joule</i> , 2022, 6, 906-922.	24.0	58
138	A promising bulky anion based lithium borate salt for lithium metal batteries. <i>Chemical Science</i> , 2018, 9, 3451-3458.	7.4	56
139	A single-ion gel polymer electrolyte system for improving cycle performance of LiMn2O4 battery at elevated temperatures. <i>Electrochimica Acta</i> , 2014, 141, 167-172.	5.2	54
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