

# Guang-Lei Cui

## List of Publications by Year in descending order

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271  
papers

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citations

4658

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8396

147  
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274  
all docs

274  
docs citations

274  
times ranked

17472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyurethane-based polymer electrolytes for lithium Batteries: Advances and perspectives. Chemical Engineering Journal, 2022, 430, 132659.	12.7	45
2	Uncovering the critical impact of the solid electrolyte interphase structure on the interfacial stability. InformaÅnÅ-MateriÅily, 2022, 4, .	17.3	19
3	Eutectic Crystallization Activates Solidâ€State Zincâ€Ion Conduction. Angewandte Chemie - International Edition, 2022, 61, .	13.8	41
4	Eutectic Crystallization Activates Solidâ€State Zincâ€Ion Conduction. Angewandte Chemie, 2022, 134, .	2.0	2
5	In situ generated polymer electrolyte coating-based Janus interfaces for long-life LAGP-based NMC811/Li metal batteries. Chemical Engineering Journal, 2022, 433, 133589.	12.7	22
6	lâ€Containing Polymer/Alloy Layerâ€Based Li Anode Mediating Highâ€Performance Lithiumâ€Air Batteries. Advanced Functional Materials, 2022, 32, 2108993.	14.9	20
7	Highly Fluorinated Al-Centered Lithium Salt Boosting the Interfacial Compatibility of Li-Metal Batteries. ACS Energy Letters, 2022, 7, 591-598.	17.4	34
8	Functional Applications of Polymer Electrolytes in Highâ€Energyâ€Density Lithium Batteries. Macromolecular Chemistry and Physics, 2022, 223, .	2.2	11
9	A PF<sub>6</sub><sup>âˆ’</sup>â€Permelective Polymer Electrolyte with Anion Solvation Regulation Enabling Longâ€Cycle Dualâ€Ion Battery. Advanced Materials, 2022, 34, e2108665.	21.0	35
10	Inhibiting Ion Migration by Guanidinium Cation Doping for Efficient Perovskite Solar Cells with Enhanced Operational Stability. Solar Rrl, 2022, 6, .	5.8	5
11	Challenges of prelithiation strategies for next generation high energy lithium-ion batteries. Energy Storage Materials, 2022, 47, 297-318.	18.0	74
12	Clarifying the Electroâ€Chemoâ€Mechanical Coupling in Li<sub>10</sub>SnP<sub>2</sub>S<sub>12</sub>-based Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2022, 12, .	19.5	33
13	Insights into Indigo K<sup>+</sup> Association in a Half-Slurry Flow Battery. ACS Energy Letters, 2022, 7, 1178-1186.	17.4	7
14	Electrolyte formulation strategies for potassiumâ€based batteries. Exploration, 2022, 2, .	11.0	18
15	A polymer electrolyte with a thermally induced interfacial ion-blocking function enables safety-enhanced lithium metal batteries. EScience, 2022, 2, 201-208.	41.6	65
16	Highly efficient CsPbI3/Cs1-xDMAxPbI3 bulk heterojunction perovskite solar cell. Joule, 2022, 6, 850-860.	24.0	70
17	Thermal runaway routes of large-format lithium-sulfur pouch cell batteries. Joule, 2022, 6, 906-922.	24.0	58
18	Pressure-Assisted Space-Confinement Strategy to Eliminate Pbl<sub>2</sub> in Perovskite Layers toward Improved Operational Stability. ACS Applied Materials & Interfaces, 2022, 14, 12442-12449.	8.0	6

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19	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
20	An Endotendon Sheath-Inspired Double-Network Binder Enables Superior Cycling Performance of Silicon Electrodes. <i>Nano-Micro Letters</i> , 2022, 14, 87.	27.0	31
21	A Bifunctional Chemomechanics Strategy To Suppress Electrochemo-Mechanical Failure of Ni-Rich Cathodes for All-Solid-State Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17674-17681.	8.0	23
22	Recent advances of newly designed in-situ polymerized electrolyte for high energy density/safe solid Li metal batteries. <i>Current Opinion in Electrochemistry</i> , 2022, 33, 100962.	4.8	6
23	A melatonin-inspired coating as an electrolyte preservative for layered oxide cathode-based lithium batteries. <i>Chemical Engineering Journal</i> , 2022, 437, 135032.	12.7	7
24	A delicately designed functional binder enabling in situ construction of $3D$ cross-linking robust network for high-performance Si/graphite composite anode. <i>Journal of Polymer Science</i> , 2022, 60, 1835-1844.	3.8	8
25	Delicately Tailored Ternary Phosphate Electrolyte Promotes Ultrastable Cycling of $Na_3V_2(PO_4)_2F_3$ -Based Sodium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17444-17453.	8.0	20
26	Charge-Compensation in a Displacement $Mg^{2+}$ Storage Cathode through Polyselenide-Mediated Anion Redox. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	27
27	Charge-Compensation in a Displacement $Mg^{2+}$ Storage Cathode through Polyselenide-Mediated Anion Redox. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
28	Polymer Electrolytes toward Next-Generation Batteries. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	2.2	7
29	An in-situ generated composite solid-state electrolyte towards high-voltage lithium metal batteries. <i>Science China Chemistry</i> , 2022, 65, 934-942.	8.2	22
30	Interfacial chemistry of vinylphenol-grafted PVDF binder ensuring compatible cathode interphase for lithium batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 136798.	12.7	11
31	A self-purifying electrolyte enables high energy Li ion batteries. <i>Energy and Environmental Science</i> , 2022, 15, 3331-3342.	30.8	40
32	Stimulus-responsive polymers for safe batteries and smart electronics. <i>Science China Materials</i> , 2022, 65, 2060-2071.	6.3	10
33	A rigid-flexible coupling poly(vinylene carbonate) based cross-linked network: A versatile polymer platform for solid-state polymer lithium batteries. <i>Energy Storage Materials</i> , 2022, 50, 525-532.	18.0	27
34	Unshackling the reversible capacity of SiOx/graphite-based full cells via selective LiF-induced lithiation. <i>Science China Materials</i> , 2022, 65, 2335-2342.	6.3	13
35	Percolated Sulfide in Salt-Concentrated Polymer Matrices Extricating High-Voltage All-Solid-State Lithium-metal Batteries. <i>Advanced Science</i> , 2022, 9, .	11.2	24
36	Epitaxial Electrocrystallization of Magnesium <i>via</i> Synergy of Magnesiophilic Interface, Lattice Matching, and Electrostatic Confinement. <i>ACS Nano</i> , 2022, 16, 9894-9907.	14.6	26

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37	Cyanoethyl cellulose-based eutectogel electrolyte enabling high-voltage-tolerant and ion-conductive solid-state lithium metal batteries. , 2022, 4, 1093-1106.		17
38	A polysulfide radical anions scavenging binder achieves long-life lithium-sulfur batteries. , 2022, 1, .		22
39	High area-capacity Mg batteries enabled by sulfur/copper integrated cathode design. Journal of Energy Chemistry, 2022, 72, 370-378.	12.9	9
40	Robust Self-Standing Single-Ion Polymer Electrolytes Enabling High-Safety Magnesium Batteries at Elevated Temperature. Advanced Energy Materials, 2022, 12, .	19.5	19
41	Synergistic Double Cross-Linked Dynamic Network of Epoxidized Natural Rubber/Glycinamide Modified Polyacrylic Acid for Silicon Anode in Lithium Ion Battery: High Peel Strength and Super Cycle Stability. ACS Applied Materials & Interfaces, 2022, 14, 33315-33327.	8.0	13
42	Water-Locked Eutectic Electrolyte Enables Long-Cycling Aqueous Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 33041-33051.	8.0	21
43	Uneven Stripping Behavior, an Unheeded Killer of Mg Anodes. Advanced Materials, 2022, 34, .	21.0	25
44	Enhance Photothermal Stability of Hybrid Perovskite Materials by Inhibiting Intrinsic Ion Migration. Solar Rrl, 2022, 6, .	5.8	3
45	Pure cellulose lithium-ion battery separator with tunable pore size and improved working stability by cellulose nanofibrils. Carbohydrate Polymers, 2021, 251, 116975.	10.2	72
46	A Low-Temperature Additive-Involved Leaching Method for Highly Efficient Inorganic Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, .	19.5	32
47	Polymer electrolytes for Li-S batteries: Polymeric fundamentals and performance optimization. Journal of Energy Chemistry, 2021, 58, 300-317.	12.9	37
48	Structural Properties and Stability of Inorganic CsPbI <sub>3</sub> Perovskites. Small Structures, 2021, 2, 2000089.	12.0	39
49	In-situ formed all-amorphous poly (ethylene oxide)-based electrolytes enabling solid-state Zn electrochemistry. Chemical Engineering Journal, 2021, 417, 128096.	12.7	28
50	Macromolecular Design of Lithium Conductive Polymer as Electrolyte for Solid-State Lithium Batteries. Small, 2021, 17, e2005762.	10.0	85
51	Facilitated magnesium atom adsorption and surface diffusion kinetics <i>via</i> artificial bismuth-based interphases. Chemical Communications, 2021, 57, 9430-9433.	4.1	15
52	<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.	30.8	300
53	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
54	The Formation/Decomposition Equilibrium of LiH and its Contribution on Anode Failure in Practical Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 7849-7855.	2.0	18

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55	Anti-corrosive Hybrid Electrolytes for Rechargeable Aqueous Zinc Batteries. Chemical Research in Chinese Universities, 2021, 37, 328-334.	2.6	5
56	In Situ Polymerization Permeated Three-Dimensional Li <sup>+</sup> -Percolated Porous Oxide Ceramic Framework Boosting All Solid-State Lithium Metal Battery. Advanced Science, 2021, 8, 2003887.	11.2	102
57	Facile Design of Sulfide-Based all Solid-State Lithium Metal Battery: In Situ Polymerization within Self-Supported Porous Argyrodite Skeleton. Advanced Functional Materials, 2021, 31, 2101523.	14.9	77
58	Dual-Functional Additive to Simultaneously Modify the Interface and Grain Boundary for Highly Efficient and Hysteresis-Free Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 20043-20050.	8.0	21
59	Uniform Magnesium Electrodeposition via Synergistic Coupling of Current Homogenization, Geometric Confinement, and Chemisorption Effect. Advanced Materials, 2021, 33, e2100224.	21.0	58
60	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.	25.5	53
61	Cyano-reinforced in-situ polymer electrolyte enabling long-life cycling for high-voltage lithium metal batteries. Energy Storage Materials, 2021, 37, 215-223.	18.0	76
62	Uncovering LiH Triggered Thermal Runaway Mechanism of a High-Energy LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> /Graphite Pouch Cell. Advanced Science, 2021, 8, e2100676.	11.2	48
63	Formulating a Non-Flammable Highly Concentrated Dual-Salt Electrolyte for Wide Temperature High-Nickel Lithium Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 050511.	2.9	15
64	Bidirectionally Compatible Buffering Layer Enables Highly Stable and Conductive Interface for 4.5V Sulfide-Based All-Solid-State Lithium Batteries. Advanced Energy Materials, 2021, 11, 2100881.	19.5	50
65	Leakage-Proof Electrolyte Chemistry for a High-Performance Lithium-Sulfur Battery. Angewandte Chemie, 2021, 133, 16623-16627.	2.0	0
66	Leakage-Proof Electrolyte Chemistry for a High-Performance Lithium-Sulfur Battery. Angewandte Chemie - International Edition, 2021, 60, 16487-16491.	13.8	29
67	A reliable gel polymer electrolyte enables stable cycling of rechargeable aluminum batteries in a wide-temperature range. Journal of Power Sources, 2021, 497, 229839.	7.8	26
68	Toward Low-Temperature Lithium Batteries: Advances and Prospects of Unconventional Electrolytes. Advanced Energy and Sustainability Research, 2021, 2, 2100039.	5.8	17
69	A Bismuth-Based Protective Layer for Magnesium Metal Anode in Noncorrosive Electrolytes. ACS Energy Letters, 2021, 6, 2594-2601.	17.4	96
70	A rigid-flexible coupling gel polymer electrolyte towards high safety flexible Li-Ion battery. Journal of Power Sources, 2021, 499, 229944.	7.8	14
71	Machine Learning Boosting the Development of Advanced Lithium Batteries. Small Methods, 2021, 5, e2100442.	8.6	27
72	â€™Vâ€™ Shape Aâ€™Dâ€™Aâ€™Type Designed Small Hole Conductors for Efficient Indoor and Outdoor Staging from Solid Dye-Sensitized Solar Cells and Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100206.	5.8	10

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73	Polymer Electrolytes â€“ New Opportunities for the Development of Multivalent Ion Batteries. Chemistry - an Asian Journal, 2021, 16, 3272-3280.	3.3	10
74	Crucial Challenges and Recent Optimization Progress of Metalâ€“Sulfur Battery Electrolytes. Energy & Fuels, 2021, 35, 1966-1988.	5.1	26
75	Bioinspired Antiaging Binder Additive Addressing the Challenge of Chemical Degradation of Electrolyte at Cathode/Electrolyte Interphase. Journal of the American Chemical Society, 2021, 143, 18041-18051.	13.7	38
76	Unraveling H <sup>+</sup> /Zn <sup>2+</sup> Sequential Conversion Reactions in Tellurium Cathodes for Rechargeable Aqueous Zinc Batteries. Journal of Physical Chemistry Letters, 2021, 12, 10163-10168.	4.6	19
77	Current Design Strategies for Rechargeable Magnesium-Based Batteries. ACS Nano, 2021, 15, 15594-15624.	14.6	89
78	Interfacial chemistry of Î³-glutamic acid derived block polymer binder directing the interfacial compatibility of high voltage LiNi0.5Mn1.5O4 electrode. Science China Chemistry, 2021, 64, 92-100.	8.2	8
79	A supramolecular interaction strategy enabling high-performance all solid state electrolyte of lithium metal batteries. Energy Storage Materials, 2020, 25, 756-763.	18.0	59
80	Formulierung von Elektrolyten mit gemischten Lithiumsalzen fÃ¼r Lithiumâ€“Batterien. Angewandte Chemie, 2020, 132, 3426-3442.	2.0	16
81	Formulation of Blendedâ€“Lithiumâ€“Salt Electrolytes for Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 3400-3415.	13.8	129
82	Highly Safe Electrolyte Enabled via Controllable Polysulfide Release and Efficient Conversion for Advanced Lithiumâ€“Sulfur Batteries. Small, 2020, 16, e1905737.	10.0	60
83	An interfacially self-reinforced polymer electrolyte enables long-cycle 5.35 V dual-ion batteries. Journal of Materials Chemistry A, 2020, 8, 1451-1456.	10.3	19
84	A Stable Solid Electrolyte Interphase for Magnesium Metal Anode Evolved from a Bulky Anion Lithium Salt. Advanced Materials, 2020, 32, e1904987.	21.0	123
85	A Temperatureâ€“Responsive Electrolyte Endowing Superior Safety Characteristic of Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903441.	19.5	95
86	Chemical Composition and Phase Evolution in DMAI-Derived Inorganic Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 263-270.	17.4	114
87	Frontier Orbital Energy-Customized Ionomer-Based Polymer Electrolyte for High-Voltage Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 51374-51386.	8.0	21
88	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
89	A High-Energy 5 V-Class Flexible Lithium-Ion Battery Endowed by Laser-Drilled Flexible Integrated Graphite Film. ACS Applied Materials & Interfaces, 2020, 12, 9468-9477.	8.0	10
90	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

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91	A Novel Regulation Strategy of Solid Electrolyte Interphase Based on Anion-Solvent Coordination for Magnesium Metal Anode. <i>Small</i> , 2020, 16, e2005424.	10.0	39
92	A temperature gradient-induced directional growth of a perovskite film. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17019-17024.	10.3	7
93	Self-Assembled Solid-State Gel Catholyte Combating Iodide Diffusion and Self-Discharge for a Stable Flexible Aqueous Zn-I <sub>2</sub> Battery. <i>Advanced Energy Materials</i> , 2020, 10, 2001997.	19.5	86
94	Anion Solvation Reconfiguration Enables High-Voltage Carbonate Electrolytes for Stable Zn/Graphite Cells. <i>Angewandte Chemie</i> , 2020, 132, 21953-21961.	2.0	11
95	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
96	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
97	Organic Ionic Plastic Crystals as Hole Transporting Layer for Stable and Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2001460.	14.9	27
98	Cs <sub>4</sub> PbI <sub>6</sub> -Mediated Synthesis of Thermodynamically Stable FA <sub>0.15</sub> Cs <sub>0.85</sub> PbI <sub>3</sub> Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2001054.	21.0	41
99	Revealing the multilevel thermal safety of lithium batteries. <i>Energy Storage Materials</i> , 2020, 31, 72-86.	18.0	94
100	Investigation of the cathodic interfacial stability of a nitrile electrolyte and its performance with a high-voltage LiCoO <sub>2</sub> cathode. <i>Chemical Communications</i> , 2020, 56, 4998-5001.	4.1	26
101	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
102	Perovskite Solution Aging: What Happened and How to Inhibit?. <i>CheM</i> , 2020, 6, 1369-1378.	11.7	112
103	Fast anion intercalation into graphite cathode enabling high-rate rechargeable zinc batteries. <i>Journal of Power Sources</i> , 2020, 457, 227994.	7.8	42
104	A Polymer-Reinforced SEI Layer Induced by a Cyclic Carbonate-Based Polymer Electrolyte Boosting 4.45 V LiCoO <sub>2</sub> /Li Metal Batteries. <i>Small</i> , 2020, 16, e1907163.	10.0	47
105	Poly(maleic anhydride) copolymers-based polymer electrolytes enlighten highly safe and high-energy-density lithium metal batteries: Advances and prospects. <i>Nano Select</i> , 2020, 1, 59-78.	3.7	8
106	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
107	Nonflammable Nitrile Deep Eutectic Electrolyte Enables High-Voltage Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2020, 32, 3405-3413.	6.7	145
108	Janus Polymer Composite Electrolytes Improve the Cycling Performance of Lithium-Oxygen Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12857-12866.	8.0	11



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109	Uncovering the Potential of M1â€Siteâ€Activated NASICON Cathodes for Znâ€Ion Batteries. Advanced Materials, 2020, 32, e1907526.	21.0	103
110	Insights into interfacial speciation and deposition morphology evolution at Mg-electrolyte interfaces under practical conditions. Journal of Energy Chemistry, 2020, 48, 299-307.	12.9	31
111	A fluorinated polycarbonate based all solid state polymer electrolyte for lithium metal batteries. Electrochimica Acta, 2020, 337, 135843.	5.2	43
112	Ionicâ€Associationâ€Assisted Viscoelastic Nylon Electrolytes Enable Synchronously Coupled Interface for Solid Batteries. Advanced Functional Materials, 2020, 30, 2000347.	14.9	44
113	Highly Reversible Cuprous Mediated Cathode Chemistry for Magnesium Batteries. Angewandte Chemie, 2020, 132, 11574-11579.	2.0	14
114	Highly Reversible Cuprous Mediated Cathode Chemistry for Magnesium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11477-11482.	13.8	67
115	Electrolyte Therapy for Improving the Performance of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathodes Assembled Lithiumâ€Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 21368-21385.	8.0	38
116	Stable Seamless Interfaces and Rapid Ionic Conductivity of $\text{CaCeO}_2/\text{LiTFSI}/\text{PEO}$ Composite Electrolyte for Highâ€Rate and Highâ€Voltage Allâ€Solidâ€State Battery. Advanced Energy Materials, 2020, 10, 2000049.	19.5	252
117	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.	12.9	53
118	Reasonable Design of High-Energy-Density Solid-State Lithium-Metal Batteries. Matter, 2020, 2, 805-815.	10.0	130
119	Pursuit of reversible Zn electrochemistry: a time-honored challenge towards low-cost and green energy storage. NPC Asia Materials, 2020, 12, .	7.9	129
120	A polar-hydrophobic ionic liquid induces grain growth and stabilization in halide perovskites. Chemical Communications, 2019, 55, 11059-11062.	4.1	35
121	A large Î€-conjugated tetrakis (4-carboxyphenyl) porphyrin anode enables high specific capacity and superior cycling stability in lithium-ion batteries. Chemical Communications, 2019, 55, 11370-11373.	4.1	30
122	Intermolecular Chemistry in Solid Polymer Electrolytes for Highâ€Energyâ€Density Lithium Batteries. Advanced Materials, 2019, 31, e1902029.	21.0	543
123	Concentrated electrolyte boosting high-temperature cycling stability of $\text{LiCoO}_2/\text{graphite}$ cell. Chemical Communications, 2019, 55, 9785-9788.	4.1	16
124	Identifying and Addressing Critical Challenges of High-Voltage Layered Ternary Oxide Cathode Materials. Chemistry of Materials, 2019, 31, 6033-6065.	6.7	164
125	A high concentration electrolyte enables superior cycleability and rate capability for high voltage dual graphite battery. Journal of Power Sources, 2019, 437, 226942.	7.8	43
126	Polymer Electrolyte Enlightens Wide-Temperature 4.45â€V-Class $\text{LiCoO}_2/\text{Li}$ Metal Battery. Journal of the Electrochemical Society, 2019, 166, A2313-A2321.	2.9	11



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127	Overcoming the Challenges of 5 V Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathodes with Solid Polymer Electrolytes. ACS Energy Letters, 2019, 4, 2871-2886.	17.4	114
128	Deciphering the Interface of a High-Voltage (5 V-Class) Li-ion Battery Containing Additive-Assisted Sulfolane-Based Electrolyte. Small Methods, 2019, 3, 1900546.	8.6	33
129	Differentiated Lithium Salt Design for Multilayered PEO Electrolyte Enables a High-Voltage Solid-State Lithium Metal Battery. Advanced Science, 2019, 6, 1901036.	11.2	202
130	Spontaneous Interface Ion Exchange: Passivating Surface Defects of Perovskite Solar Cells with Enhanced Photovoltage. Advanced Energy Materials, 2019, 9, 1902142.	19.5	63
131	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.	30.8	94
132	Functional additives assisted ester-carbonate electrolyte enables wide temperature operation of a high-voltage (5 V-Class) Li-ion battery. Journal of Power Sources, 2019, 416, 29-36.	7.8	70
133	Polymer Electrolytes for High Energy Density Ternary Cathode Material-Based Lithium Batteries. Electrochemical Energy Reviews, 2019, 2, 128-148.	25.5	106
134	A novel single-ion conducting gel polymer electrolyte based on polymeric sodium tartaric acid borate for elevated-temperature sodium metal batteries. Solid State Ionics, 2019, 337, 140-146.	2.7	36
135	Long-life and deeply rechargeable aqueous Zn anodes enabled by a multifunctional brightener-inspired interphase. Energy and Environmental Science, 2019, 12, 1938-1949.	30.8	1,309
136	A Novel Bifunctional Self-Stabilized Strategy Enabling 4.6 V $\text{LiCoO}_2$ with Excellent Long-Term Cyclability and High-Rate Capability. Advanced Science, 2019, 6, 1900355.	11.2	164
137	Safety-Enhanced Polymer Electrolytes for Sodium Batteries: Recent Progress and Perspectives. ACS Applied Materials & Interfaces, 2019, 11, 17109-17127.	8.0	100
138	Fast magnesiation kinetics in $\text{Li}-\text{Ag}_2\text{S}$ nanostructures enabled by an <i>in situ</i> generated silver matrix. Chemical Communications, 2019, 55, 4431-4434.	4.1	30
139	Additive-Assisted Novel Dual-Salt Electrolyte Addresses Wide Temperature Operation of Lithium-Metal Batteries. Small, 2019, 15, e1900269.	10.0	107
140	Flame-retardant quasi-solid polymer electrolyte enabling sodium metal batteries with highly safe characteristic and superior cycling stability. Nano Research, 2019, 12, 2230-2237.	10.4	47
141	Fluorescence Probing of Active Lithium Distribution in Lithium Metal Anodes. Angewandte Chemie - International Edition, 2019, 58, 5936-5940.	13.8	35
142	Fluorescence Probing of Active Lithium Distribution in Lithium Metal Anodes. Angewandte Chemie, 2019, 131, 5997-6001.	2.0	8
143	A Crosslinked Polytetrahydrofuran-Borate-Based Polymer Electrolyte Enabling Wide-Temperature-Range Rechargeable Magnesium Batteries. Advanced Materials, 2019, 31, e1805930.	21.0	95
144	An intricately designed poly(vinylene carbonate-acrylonitrile) copolymer electrolyte enables 5 V lithium batteries. Journal of Materials Chemistry A, 2019, 7, 5295-5304.	10.3	71

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145	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
146	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
147	A well-designed water-soluble binder enlightening the 5 V-class $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ cathodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24594-24601.	10.3	38
148	Zinc anode-compatible in-situ solid electrolyte interphase via cation solvation modulation. <i>Nature Communications</i> , 2019, 10, 5374.	12.8	573
149	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
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