

Bisalt ether electrolytes: a pathway towards lithium me

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The Role of Electrolyte in the First-Cycle Transformations of $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$. Journal of the Electrochemical Society, 2019, 166, A2762-A2768.	1.3	15
2	Long cycle life and dendrite-free lithium morphology in anode-free lithium pouch cells enabled by a dual-salt liquid electrolyte. Nature Energy, 2019, 4, 683-689.	19.8	603
3	Cationic shield mediated electrodeposition stability in metal electrodes. Journal of Materials Chemistry A, 2019, 7, 18442-18450.	5.2	7
4	Morphology-selected synthesis of copper ferrite via spray drying with excellent sodium storage properties. Ceramics International, 2019, 45, 20796-20802.	2.3	23
5	Solvent-controlled solid-electrolyte interphase layer composition of a high performance $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode for Na-ion battery applications. Sustainable Energy and Fuels, 2019, 3, 2490-2498.	2.5	13
6	High Dielectric, Robust Composite Protective Layer for Dendrite-Free and LiPF_6 Degradation-Free Lithium Metal Anode. Advanced Functional Materials, 2019, 29, 1905078.	7.8	47
7	Quantifying inactive lithium in lithium metal batteries. Nature, 2019, 572, 511-515.	13.7	852
8	Recent advances in nanostructured electrode-electrolyte design for safe and next-generation electrochemical energy storage. Materials Today Nano, 2019, 8, 100057.	2.3	31
9	Molecular-Scale Interfacial Model for Predicting Electrode Performance in Rechargeable Batteries. ACS Energy Letters, 2019, 4, 1584-1593.	8.8	117
10	Highly Elastic Polyrotaxane Binders for Mechanically Stable Lithium Hosts in Lithium-Metal Batteries. Advanced Materials, 2019, 31, e1901645.	11.1	68
11	A stable protective layer toward high-performance lithium metal battery. Ionics, 2019, 25, 4067-4074.	1.2	5
12	Mechanistic understanding and strategies to design interfaces of solid electrolytes: insights gained from transmission electron microscopy. Journal of Materials Science, 2019, 54, 10571-10594.	1.7	14
13	High-Concentration Ether Electrolytes for Stable High-Voltage Lithium Metal Batteries. ACS Energy Letters, 2019, 4, 896-902.	8.8	302
14	Cross Talk between Transition Metal Cathode and Li Metal Anode: Unraveling Its Influence on the Deposition/Dissolution Behavior and Morphology of Lithium. Advanced Energy Materials, 2019, 9, 1900574.	10.2	123
15	Polar polymer-solvent interaction derived favorable interphase for stable lithium metal batteries. Energy and Environmental Science, 2019, 12, 3319-3327.	15.6	122
16	Probing the dynamic evolution of lithium dendrites: a review of <i>in situ</i> / <i>operando</i> characterization for lithium metallic batteries. Nanoscale, 2019, 11, 20429-20436.	2.8	26
17	Novel zinc-iodine hybrid supercapacitors with a redox iodide ion electrolyte and B, N dual-doped carbon electrode exhibit boosted energy density. Journal of Materials Chemistry A, 2019, 7, 24400-24407.	5.2	68
18	First principles calculations study of LiMnO_2 as a potential cathode for Al-ion battery application. Journal of Materials Chemistry A, 2019, 7, 26966-26974.	5.2	52

#	ARTICLE	IF	CITATIONS
19	Formulierung von Elektrolyten mit gemischten Lithiumsalzen für Lithium-Batterien. <i>Angewandte Chemie</i> , 2020, 132, 3426-3442.	1.6	16
20	Formulation of Blended Lithium-Salt Electrolytes for Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3400-3415.	7.2	129
21	Flexible lignin carbon membranes with surface ozonolysis to host lean lithium metal anodes for nickel-rich layered oxide batteries. <i>Energy Storage Materials</i> , 2020, 24, 129-137.	9.5	41
22	FSI-inspired solvent and full fluorosulfonyl electrolyte for 4 V class lithium-metal batteries. <i>Energy and Environmental Science</i> , 2020, 13, 212-220.	15.6	198
23	New Insight into the Role of Mn Doping on the Bulk Structure Stability and Interfacial Stability of Ni-Rich Layered Oxide. <i>ChemNanoMat</i> , 2020, 6, 451-460.	1.5	12
24	Protective coatings for lithium metal anodes: Recent progress and future perspectives. <i>Journal of Power Sources</i> , 2020, 450, 227632.	4.0	104
25	In situ polymerized succinonitrile-based solid polymer electrolytes for lithium ion batteries. <i>Solid State Ionics</i> , 2020, 345, 115159.	1.3	24
26	Lithium metal anodes: Present and future. <i>Journal of Energy Chemistry</i> , 2020, 48, 145-159.	7.1	311
27	Crack-free single-crystalline Ni-rich layered NCM cathode enable superior cycling performance of lithium-ion batteries. <i>Nano Energy</i> , 2020, 70, 104450.	8.2	397
28	The reduction of interfacial transfer barrier of Li ions enabled by inorganics-rich solid-electrolyte interphase. <i>Energy Storage Materials</i> , 2020, 28, 401-406.	9.5	55
29	Morphological Reversibility of Modified Li-Based Anodes for Next-Generation Batteries. <i>ACS Energy Letters</i> , 2020, 5, 152-161.	8.8	53
30	Mechanistics of Lithium-Metal Battery Performance by Separator Architecture Design. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 556-566.	4.0	27
31	An ultra-stable lithium plating process enabled by the nanoscale interphase of a macromolecular additive. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23844-23850.	5.2	12
32	Regulating the Grain Orientation and Surface Structure of Primary Particles through Tungsten Modification to Comprehensively Enhance the Performance of Nickel-Rich Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47513-47525.	4.0	36
33	Recent advances in preparation and application of laser-induced graphene in energy storage devices. <i>Materials Today Energy</i> , 2020, 18, 100569.	2.5	43
34	Recently advances and perspectives of anode-free rechargeable batteries. <i>Nano Energy</i> , 2020, 78, 105344.	8.2	108
35	Porous BN Nanofibers Enable Long-Cycling Life Sodium Metal Batteries. <i>Small</i> , 2020, 16, e2002671.	5.2	11
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38	Lithium Metal Anodes with Nonaqueous Electrolytes. <i>Chemical Reviews</i> , 2020, 120, 13312-13348.	23.0	393
39	Improved fast-charging performances of phosphorus electrodes using the intrinsically flame-retardant LiFSI based electrolyte. <i>Journal of Power Sources</i> , 2020, 474, 228664.	4.0	19
40	Reducing Capacity and Voltage Decay of Co ⁰ Free Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ as Positive Electrode Material for Lithium Batteries Employing an Ionic Liquid-Based Electrolyte. <i>Advanced Energy Materials</i> , 2020, 10, 2001830.	10.2	42
41	Anode-free rechargeable lithium metal batteries: Progress and prospects. <i>Energy Storage Materials</i> , 2020, 32, 386-401.	9.5	136
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43	Regulating the Li ⁺ Solvation Structure of Ester Electrolyte for High-Energy-Density Lithium Metal Batteries. <i>Small</i> , 2020, 16, e2004688.	5.2	34
44	Hexafluorophosphate-Bis(trifluoromethanesulfonyl)imide anion co-intercalation for increased performance of dual-carbon battery using mixed salt electrolyte. <i>Journal of Power Sources</i> , 2020, 479, 229084.	4.0	14
45	An Ether-in-Water Electrolyte Boosts Stable Interfacial Chemistry for Aqueous Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2004017.	11.1	93
46	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23180-23187.	7.2	28
47	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie</i> , 2020, 132, 23380-23387.	1.6	9
48	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22194-22201.	7.2	219
49	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 22378-22385.	1.6	60
50	Black phosphorus-modified sulfurized polyacrylonitrile with high C-rate and cycling performance in ether-based electrolyte for lithium sulfur batteries. <i>Chemical Communications</i> , 2020, 56, 12797-12800.	2.2	15
51	Designing Solid-State Electrolytes through the Structural Modification of a High-Performing Ionic Liquid. <i>ChemElectroChem</i> , 2020, 7, 4118-4123.	1.7	10
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54	Interface chemistry of an amide electrolyte for highly reversible lithium metal batteries. <i>Nature Communications</i> , 2020, 11, 4188.	5.8	226

#	ARTICLE	IF	CITATIONS
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56	Fluorinated Aromatic Diluent for High-Performance Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 14979-14986.	1.6	16
57	Fluorinated Aromatic Diluent for High-Performance Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14869-14876.	7.2	130
58	Regulating the Hidden Solvation-Ion-Exchange in Concentrated Electrolytes for Stable and Safe Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000901.	10.2	65
59	Cycling Lithium Metal on Graphite to Form Hybrid Lithium-Ion/Lithium Metal Cells. <i>Joule</i> , 2020, 4, 1296-1310.	11.7	80
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65	2-Fluoropyridine: A novel electrolyte additive for lithium metal batteries with high areal capacity as well as high cycling stability. <i>Chemical Engineering Journal</i> , 2020, 393, 124789.	6.6	65
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67	Advanced Liquid Electrolytes for Rechargeable Li Metal Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1910777.	7.8	201
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72	Beyond the Polysulfide Shuttle and Lithium Dendrite Formation: Addressing the Sluggish Sulfur Redox Kinetics for Practical High-Energy Li-S Batteries. <i>Angewandte Chemie</i> , 2020, 132, 17787-17793.	1.6	10

#	ARTICLE	IF	CITATIONS
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74	Solvation Rule for Solidâ€Electrolyte Interphase Enabler in Lithiumâ€Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 18386-18390.	1.6	10
75	Solvation Rule for Solidâ€Electrolyte Interphase Enabler in Lithiumâ€Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18229-18233.	7.2	45
76	Uncharted Waters: Super-Concentrated Electrolytes. <i>Joule</i> , 2020, 4, 69-100.	11.7	305
77	Functional Electrolyte of Fluorinated Ether and Ester for Stabilizing Both 4.5 V LiCoO ₂ Cathode and Lithium Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8316-8323.	4.0	44
78	Nonflammable Lithium Metal Full Cells with Ultra-high Energy Density Based on Coordinated Carbonate Electrolytes. <i>IScience</i> , 2020, 23, 100844.	1.9	58
79	Li-based anode: Is dendrite-free sufficient?. <i>Materials Today</i> , 2020, 38, 7-9.	8.3	21
80	Toward the Sustainable Lithium Metal Batteries with a New Electrolyte Solvation Chemistry. <i>Advanced Energy Materials</i> , 2020, 10, 2000567.	10.2	111
81	Toward Critical Electrode/Electrolyte Interfaces in Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1909887.	7.8	251
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87	Anodeâ€Free Full Cells: A Pathway to Highâ€Energy Density Lithiumâ€Metal Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000804.	10.2	232
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89	Electrolytes Enriched by Crown Ethers for Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2002578.	7.8	101
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#	ARTICLE	IF	CITATIONS
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98	Synergistic Effects on Lithium Metal Batteries by Preferential Ionic Interactions in Concentrated Bisalt Electrolytes. <i>Advanced Energy Materials</i> , 2021, 11, 2003520.	10.2	33
99	Low-Cost Regulating Lithium Deposition Behaviors by Transition Metal Oxide Coating on Separator. <i>Advanced Functional Materials</i> , 2021, 31, 2007255.	7.8	28
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101	Li-rich Li ₂ [Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ for Anode-Free Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 8370-8377.	1.6	2
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#	ARTICLE	IF	CITATIONS
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110	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. <i>Angewandte Chemie</i> , 2021, 133, 12546-12553.	1.6	11
111	Poor Stability of Li_2CO_3 in the Solid Electrolyte Interphase of a Lithium-Metal Anode Revealed by Cryo-Electron Microscopy. <i>Advanced Materials</i> , 2021, 33, e2100404.	11.1	147
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118	Charactering and optimizing cathode electrolytes interface for advanced rechargeable batteries: Promises and challenges. <i>Green Energy and Environment</i> , 2022, 7, 606-635.	4.7	13
119	Recent smart lithium anode configurations for high-energy lithium metal batteries. <i>Energy Storage Materials</i> , 2021, 38, 262-275.	9.5	47
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128	In Situ Chemical Lithiation Transforms Diamond-Like Carbon into an Ultrastrong Ion Conductor for Dendrite-Free Lithium-Metal Anodes. <i>Advanced Materials</i> , 2021, 33, e2100793.	11.1	82
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133	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. <i>Angewandte Chemie</i> , 2021, 133, 25828-25842.	1.6	31
134	The passivity of lithium electrodes in liquid electrolytes for secondary batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1036-1052.	23.3	201
135	Single-Ion Conducting Soft Electrolytes for Semi-Solid Lithium Metal Batteries Enabling Cell Fabrication and Operation under Ambient Conditions. <i>Advanced Energy Materials</i> , 2021, 11, 2101813.	10.2	26
136	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25624-25638.	7.2	81
137	Dual-anion ionic liquid electrolyte enables stable Ni-rich cathodes in lithium-metal batteries. <i>Joule</i> , 2021, 5, 2177-2194.	11.7	83
138	How to avoid dendrite formation in metal batteries: Innovative strategies for dendrite suppression. <i>Nano Energy</i> , 2021, 86, 106142.	8.2	116
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141	Critical effects of electrolyte recipes for Li and Na metal batteries. <i>CheM</i> , 2021, 7, 2312-2346.	5.8	144
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