

Extended Electrochemical Window of Solid Electrolytes Structure for High-Voltage Lithium Metal Batteries

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Non-Newtonian Fluid State Na Alloy for a Stretchable Energy Storage Device. <i>Small Methods</i> , 2019, 3, 1900383.	4.6	39
2	Liquid-involved synthesis and processing of sulfide-based solid electrolytes, electrodes, and all-solid-state batteries. <i>Materials Today Nano</i> , 2019, 8, 100048.	2.3	49
3	Ti-Doped Tunnel-Type $\text{Na}_4\text{Mn}_9\text{O}_{18}$ Nanoparticles as Novel Anode Materials for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28900-28908.	4.0	23
4	Highly Puffed Co_9S_8 /Carbon Nanofibers: A Functionalized S Carrier for Superior Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26798-26806.	4.0	55
5	Confining Hyperbranched Star Poly(ethylene oxide)-Based Polymer into a 3D Interpenetrating Network for a High-Performance All-Solid-State Polymer Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43146-43155.	4.0	38
6	Polymer-Quasi-Ionic Liquid-Electrolytes for High-Voltage Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1902108.	10.2	65
7	Pseudocapacitive Li^+ storage boosts ultrahigh rate performance of structure-tailored CoFe_2O_4 @ Fe_2O_3 hollow spheres triggered by engineered surface and near-surface reactions. <i>Nano Energy</i> , 2019, 66, 104179.	8.2	45
8	Nanoscaled Lithium Powders with Protection of Ionic Liquid for Highly Stable Rechargeable Lithium Metal Batteries. <i>Advanced Science</i> , 2019, 6, 1901776.	5.6	42
9	Ultrathin, Flexible Polymer Electrolyte for Cost-Effective Fabrication of All-Solid-State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1902767.	10.2	239
10	Study of Dielectric Properties and Ion Transport Parameters in Chitosan-Barium Nitrate Based Solid Polymer Electrolytes. <i>International Journal of Electrochemical Science</i> , 2019, 14, 10580-10595.	0.5	18
11	An in Situ-Formed Mosaic Li_7Sn_3 /LiF Interface Layer for High-Rate and Long-Life Garnet-Based Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34939-34947.	4.0	66
12	Designing solid-state interfaces on lithium-metal anodes: a review. <i>Science China Chemistry</i> , 2019, 62, 1286-1299.	4.2	86
13	Manganese Carbodiimide Nanoparticles Modified with N-Doping Carbon: A Bifunctional Cathode Electrocatalyst for Aprotic LiO_2 Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17464-17473.	3.2	25
14	Recent advances in nanostructured electrode-electrolyte design for safe and next-generation electrochemical energy storage. <i>Materials Today Nano</i> , 2019, 8, 100057.	2.3	31
15	Highly Elastic Polyrotaxane Binders for Mechanically Stable Lithium Hosts in Lithium-Metal Batteries. <i>Advanced Materials</i> , 2019, 31, e1901645.	11.1	68
16	Integrated solid electrolyte with porous cathode by facilely one-step sintering for an all-solid-state LiO_2 battery. <i>Nanotechnology</i> , 2019, 30, 364003.	1.3	19
17	Siloxane-based polymer electrolytes for solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019, 23, 466-490.	9.5	114
18	Polar polymer-solvent interaction derived favorable interphase for stable lithium metal batteries. <i>Energy and Environmental Science</i> , 2019, 12, 3319-3327.	15.6	122

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19	Asymmetric Structure Design of Electrolytes with Flexibility and Lithium Dendrite-Suppression Ability for Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46783-46791.	4.0	34
20	Polyoxyethylene (PEO) PEO-Perovskite PEO Composite Electrolyte for All-Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46930-46937.	4.0	116
21	Building Better Batteries in the Solid State: A Review. <i>Materials</i> , 2019, 12, 3892.	1.3	168
22	A supramolecular interaction strategy enabling high-performance all solid state electrolyte of lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 25, 756-763.	9.5	59
23	Selection of best composition of Na ⁺ ion conducting PEO-PEI blend solid polymer electrolyte based on structural, electrical, and dielectric spectroscopic analysis. <i>Ionics</i> , 2020, 26, 745-766.	1.2	36
24	Towards better Li metal anodes: Challenges and strategies. <i>Materials Today</i> , 2020, 33, 56-74.	8.3	404
25	A Game Changer: Functional Nano/Micromaterials for Smart Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1902499.	7.8	41
26	A Review of Composite Lithium Metal Anode for Practical Applications. <i>Advanced Materials Technologies</i> , 2020, 5, .	3.0	111
27	Construction of advanced 3D Co ₃ S ₄ @PPy nanowire anchored on nickel foam for high-performance electrochemical energy storage. <i>Electrochimica Acta</i> , 2020, 334, 135635.	2.6	16
28	Low-Cost Ni ₂ P/Ni _{0.96} S Heterostructured Bifunctional Electrocatalyst toward Highly Efficient Overall Urea-Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2225-2233.	4.0	93
29	Lithium Thiosilicophosphate Glassy Solid Electrolytes Synthesized by High-Energy Ball-Milling and Melt-Quenching: Improved Suppression of Lithium Dendrite Growth by Si Doping. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2327-2337.	4.0	35
30	Morphological Reversibility of Modified Li-Based Anodes for Next-Generation Batteries. <i>ACS Energy Letters</i> , 2020, 5, 152-161.	8.8	53
31	Facile and Scalable Modification of a Cu Current Collector toward Uniform Li Deposition of the Li Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3681-3687.	4.0	28
32	High Voltage Stable Polyoxalate Catholyte with Cathode Coating for All-Solid-State Li-Metal/NMC622 Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2002416.	10.2	41
33	Interface Between Solid-State Electrolytes and Li-Metal Anodes: Issues, Materials, and Processing Routes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47181-47196.	4.0	62
34	Bioteplated Nanocomposites of Transition-Metal Oxides/Carbon Nanotubes with Highly Stable and Efficient Electrochemical Interfaces for High-Power Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7804-7812.	2.5	11
35	Recent progress and design principles of nanocomposite solid electrolytes. <i>Current Opinion in Electrochemistry</i> , 2020, 22, 195-202.	2.5	9
36	Research progress in Li-argyrodite-based solid-state electrolytes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25663-25686.	5.2	68

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37	3D Coral-like LLZO/PVDF Composite Electrolytes with Enhanced Ionic Conductivity and Mechanical Flexibility for Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52652-52659.	4.0	81
38	Horizontal Stress Release for Protuberance-Free Li Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 2002522.	7.8	22
39	An ion-conductive separator for high safety Li metal batteries. <i>Journal of Power Sources</i> , 2020, 475, 228687.	4.0	31
40	An interconnected silver coated carbon cloth framework as a host to reduce lithium nucleation over-potential for dendrite-free lithium metal anodes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114569.	1.9	21
41	Progress and Perspective of All-Solid-State Lithium Batteries with High Performance at Room Temperature. <i>Energy & Fuels</i> , 2020, 34, 13456-13472.	2.5	44
42	Molecular-Scale Interface Engineering of Metal-Organic Frameworks toward Ion Transport Enables High-Performance Solid Lithium Metal Battery. <i>Advanced Functional Materials</i> , 2020, 30, 2003945.	7.8	36
43	Structure Design of Cathode Electrodes for Solid-State Batteries: Challenges and Progress. <i>Small Structures</i> , 2020, 1, 2000042.	6.9	73
44	Three-Dimensional Wettable Carbon Felt Host for Stable Lithium Metal Anode. <i>Energy Technology</i> , 2020, 8, 2000604.	1.8	12
45	Interface engineering of inorganic solid-state electrolytes for high-performance lithium metal batteries. <i>Energy and Environmental Science</i> , 2020, 13, 3780-3822.	15.6	96
46	The Optimized Interfacial Compatibility of Metal-Organic Frameworks Enables a High-Performance Quasi-Solid Metal Battery. <i>ACS Energy Letters</i> , 2020, 5, 2919-2926.	8.8	51
47	Integrated Structure of Cathode and Double-Layer Electrolyte for Highly Stable and Dendrite-Free All-Solid-State Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56995-57002.	4.0	32
48	Conformal Prelithiation Nanoshell on LiCoO ₂ Enabling High-Energy Lithium-Ion Batteries. <i>Nano Letters</i> , 2020, 20, 4558-4565.	4.5	92
49	Enabling Solid-State Li Metal Batteries by In Situ Forming Ionogel Interlayers. <i>ACS Applied Energy Materials</i> , 2020, 3, 5712-5721.	2.5	28
50	Recently developed strategies to restrain dendrite growth of Li metal anodes for rechargeable batteries. <i>Rare Metals</i> , 2020, 39, 616-635.	3.6	89
51	A Soft Lithiophilic Graphene Aerogel for Stable Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 2002013.	7.8	60
52	Solid electrolyte interphase formation between the Li _{0.29} La _{0.57} TiO ₃ solid-state electrolyte and a Li-metal anode: an <i>ab initio</i> molecular dynamics study. <i>RSC Advances</i> , 2020, 10, 9000-9015.	1.7	12
53	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.	10.2	123
54	Determining the limiting factor of the electrochemical stability window for PEO-based solid polymer electrolytes: main chain or terminal -OH group?. <i>Energy and Environmental Science</i> , 2020, 13, 1318-1325.	15.6	342

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55	Chemical interaction and enhanced interfacial ion transport in a ceramic nanofiber/polymer composite electrolyte for all-solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7261-7272.	5.2	85
56	Multiscale optimization of Li-ion diffusion in solid lithium metal batteries via ion conductive metal-organic frameworks. <i>Nanoscale</i> , 2020, 12, 6976-6982.	2.8	28
57	Facilitating Interfacial Stability Via Bilayer Heterostructure Solid Electrolyte Toward High-energy, Safe and Adaptable Lithium Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000709.	10.2	79
58	In Situ Construction of a Li-Enriched Interface for Stable All-Solid-State Batteries and its Origin Revealed by Cryo-TEM. <i>Advanced Materials</i> , 2020, 32, e2000223.	11.1	278
59	Thin and Flexible Solid Electrolyte Membranes with Ultrahigh Thermal Stability Derived from Solution-Processable Li Argyrodites for All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 718-727.	8.8	126
60	Rational Design of a Laminated Dual-Polymer/Polymer-Ceramic Composite Electrolyte for High-Voltage All-Solid-State Lithium Batteries. , 2020, 2, 317-324.		59
61	Review Polymer Electrolytes for Rechargeable Batteries: From Nanocomposite to Nanohybrid. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070524.	1.3	135
62	Rechargeable Lithium Metal Batteries with an In-Built Solid-State Polymer Electrolyte and a High Voltage/Loading Ni-Rich Layered Cathode. <i>Advanced Materials</i> , 2020, 32, e1905629.	11.1	140
63	Perovskite $\text{LaCo}_{1-x}\text{Mn}_x\text{O}_{3-\delta}$ with Tunable Defect and Surface Structures as Cathode Catalysts for LiO_2 Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10452-10460.	4.0	23
64	Progress and Perspective of Ceramic/Polymer Composite Solid Electrolytes for Lithium Batteries. <i>Advanced Science</i> , 2020, 7, 1903088.	5.6	403
65	Flexible, high-voltage, ion-conducting composite membranes with 3D aramid nanofiber frameworks for stable all-solid-state lithium metal batteries. <i>Science China Materials</i> , 2020, 63, 703-718.	3.5	32
66	Suppressing lithium dendrite growth by a synergetic effect of uniform nucleation and inhibition. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4300-4307.	5.2	29
67	A Flexible Solid Electrolyte with Multilayer Structure for Sodium Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903966.	10.2	94
68	In situ fluorinated solid electrolyte interphase towards long-life lithium metal anodes. <i>Nano Research</i> , 2020, 13, 430-436.	5.8	49
69	In situ thermally polymerized solid composite electrolytes with a broad electrochemical window for all-solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3892-3900.	5.2	59
70	Ceramic-Based Flexible Sheet Electrolyte for Li Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10382-10388.	4.0	47
71	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 6647-6651.	1.6	26
72	Polymer Electrolyte Membrane with High Ionic Conductivity and Enhanced Interfacial Stability for Lithium Metal Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22710-22720.	4.0	23

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73	Analyzing Energy Materials by Cryogenic Electron Microscopy. <i>Advanced Materials</i> , 2020, 32, e1908293.	11.1	61
74	Lithium Metal Interface Modification for High-Energy Batteries: Approaches and Characterization. <i>Batteries and Supercaps</i> , 2020, 3, 828-859.	2.4	38
75	Investigation on the Copolymer Electrolyte of Poly(1,3-dioxolane-co-formaldehyde). <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000047.	2.0	36
76	Self-Healing Janus Interfaces for High-Performance LAGP-Based Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1456-1464.	8.8	104
77	Form factor-free, printed power sources. <i>Energy Storage Materials</i> , 2020, 29, 92-112.	9.5	19
78	A stabilized PEO-based solid electrolyte via a facile interfacial engineering method for a high voltage solid-state lithium metal battery. <i>Chemical Communications</i> , 2020, 56, 5633-5636.	2.2	43
79	Ambient-Temperature All-Solid-State Sodium Batteries with a Laminated Composite Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2002144.	7.8	63
80	3D Ion-Conducting, Scalable, and Mechanically Reinforced Ceramic Film for High Voltage Solid-State Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2002008.	7.8	13
81	Monoanion-regulated high-voltage nitrile-based solid electrolyte with compatible lithium inertness. <i>Energy Storage Materials</i> , 2021, 34, 640-647.	9.5	18
82	Incorporation of LiF into functionalized polymer fiber networks enabling high capacity and high rate cycling of lithium metal composite anodes. <i>Chemical Engineering Journal</i> , 2021, 404, 126508.	6.6	21
83	Asymmetric Polymer Electrolyte Constructed by Metal-Organic Framework for Solid-State, Dendrite-Free Lithium Metal Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2007198.	7.8	123
84	A review of composite polymer-ceramic electrolytes for lithium batteries. <i>Energy Storage Materials</i> , 2021, 34, 282-300.	9.5	233
85	Hierarchical Composite Solid-Electrolyte with High Electrochemical Stability and Interfacial Regulation for Boosting Ultra-Stable Lithium Batteries. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	57
86	Reducing the thickness of solid-state electrolyte membranes for high-energy lithium batteries. <i>Energy and Environmental Science</i> , 2021, 14, 12-36.	15.6	236
87	Homogenously dispersed ultrasmall niobium(V) oxide nanoparticles enabling improved ionic conductivity and interfacial compatibility of composite polymer electrolyte. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 855-865.	5.0	21
88	Macromolecular Design of Lithium Conductive Polymer as Electrolyte for Solid-State Lithium Batteries. <i>Small</i> , 2021, 17, e2005762.	5.2	85
89	Vertical nanoarrays with lithiophilic sites suppress the growth of lithium dendrites for ultrastable lithium metal batteries. <i>Chemical Engineering Journal</i> , 2021, 405, 126808.	6.6	24
90	Design of thiol-organic framework for high-performance quasi-solid lithium metal batteries. <i>Dalton Transactions</i> , 2021, 50, 2928-2935.	1.6	10

#	ARTICLE	IF	CITATIONS
91	Single-ion conducting polymer electrolytes as a key jigsaw piece for next-generation battery applications. <i>Chemical Science</i> , 2021, 12, 13248-13272.	3.7	62
92	Organoboron-Containing Polymer Electrolytes for High-Performance Lithium Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2008632.	7.8	28
93	Recent advances and perspectives on thin electrolytes for high-energy-density solid-state lithium batteries. <i>Energy and Environmental Science</i> , 2021, 14, 643-671.	15.6	200
94	Electrolytes for Lithium-Ion and Lithium Metal Batteries. , 2021, , .		0
95	<i>In situ</i> generation of a soft-tough asymmetric composite electrolyte for dendrite-free lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4018-4025.	5.2	34
96	Advanced <i>in situ</i> technology for Li/Na metal anodes: an in-depth mechanistic understanding. <i>Energy and Environmental Science</i> , 2021, 14, 3872-3911.	15.6	27
97	A composite solid electrolyte with an asymmetric ceramic framework for dendrite-free all-solid-state Li metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9665-9674.	5.2	30
98	Integrated interface between composite electrolyte and cathode with low resistance enables ultra-long cycle-lifetime in solid-state lithium-metal batteries. <i>Science China Chemistry</i> , 2021, 64, 673-680.	4.2	16
99	Strategies in Structure and Electrolyte Design for High-Performance Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2009694.	7.8	122
100	Interfacial Atomistic Mechanisms of Lithium Metal Stripping and Plating in Solid-State Batteries. <i>Advanced Materials</i> , 2021, 33, e2008081.	11.1	53
101	Flexible Nanowire Cathode Membrane with Gradient Interfaces and Rapid Electron/Ion Transport Channels for Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100026.	10.2	39
102	Symmetry Effect on the Enhancement of Lithium-Ion Mobility in Layered Oxides $\text{Li}_{2-x}\text{A}_2\text{B}_2\text{Ti}_{10}$ (A = La, Sr, Ca; B = Ti, Ta). <i>Journal of Physical Chemistry C</i> , 2021, 125, 3689-3697.	1.5	6
103	Open-Structured Nanotubes with Three-Dimensional Ion-Accessible Pathways for Enhanced Li^+ Conductivity in Composite Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13183-13190.	4.0	28
104	Self-adaptive multiblock-copolymer-based hybrid solid-state electrolyte for safe and stable lithium-metal battery. <i>Electrochimica Acta</i> , 2021, 371, 137702.	2.6	5
105	Pore-assisted lithium deposition in hierarchically porous and hollow carbon textile for highly stable lithium anode. <i>Journal of Power Sources</i> , 2021, 489, 229464.	4.0	17
106	Electrochemical Compatibility of Solid-State Electrolytes with Cathodes and Anodes for All-Solid-State Lithium Batteries: A Review. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000101.	2.8	16
107	Interfacial compatibility issues in rechargeable solid-state lithium metal batteries: a review. <i>Science China Chemistry</i> , 2021, 64, 879-898.	4.2	28
108	Double-Layered Multifunctional Composite Electrolytes for High-Voltage Solid-State Lithium-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11958-11967.	4.0	41

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109	Nanophase-Separated, Elastic Epoxy Composite Thin Film as an Electrolyte for Stable Lithium Metal Batteries. <i>Nano Letters</i> , 2021, 21, 3611-3618.	4.5	47
110	A Decade of Progress on Solid-State Electrolytes for Secondary Batteries: Advances and Contributions. <i>Advanced Functional Materials</i> , 2021, 31, 2100891.	7.8	73
111	Bridging Interparticle Li ⁺ Conduction in a Soft Ceramic Oxide Electrolyte. <i>Journal of the American Chemical Society</i> , 2021, 143, 5717-5726.	6.6	144
112	Strategies to Boost Ionic Conductivity and Interface Compatibility of Inorganic - Organic Solid Composite Electrolytes. <i>Energy Storage Materials</i> , 2021, 36, 291-308.	9.5	82
113	Development, thermal and dielectric investigations of PVDF-Y2O3 polymer nanocomposite films. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	21
114	Solid-State Polymer Electrolyte Solves the Transfer of Lithium Ions between the Solid-Solid Interface of the Electrode and the Electrolyte in Lithium-Sulfur and Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 5101-5112.	2.5	42
115	Polyethylene Oxide-Based Solid-State Composite Polymer Electrolytes for Rechargeable Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 4581-4601.	2.5	59
116	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.	9.5	76
117	Tailoring inorganic-polymer composites for the mass production of solid-state batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1003-1019.	23.3	409
118	Lithiophilic MXene-Guided Lithium Metal Nucleation and Growth Behavior. <i>Advanced Functional Materials</i> , 2021, 31, 2101261.	7.8	28
119	Enabling High-Performance NASICON-Based Solid-State Lithium Metal Batteries Towards Practical Conditions. <i>Advanced Functional Materials</i> , 2021, 31, 2102765.	7.8	32
120	Toward High Performance All-Solid-State Lithium Batteries with High-Voltage Cathode Materials: Design Strategies for Solid Electrolytes, Cathode Interfaces, and Composite Electrodes. <i>Advanced Energy Materials</i> , 2021, 11, 2003154.	10.2	65
121	Formulating the Electrolyte Towards High-Energy and Safe Rechargeable Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16554-16560.	7.2	80
122	Formulating the Electrolyte Towards High-Energy and Safe Rechargeable Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 16690-16696.	1.6	12
123	Engineering Two-Dimensional Metal-Organic Framework on Molecular Basis for Fast Li ⁺ Conduction. <i>Nano Letters</i> , 2021, 21, 5805-5812.	4.5	31
124	Rationally Designed PEGDA-LLZTO Composite Electrolyte for Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30703-30711.	4.0	51
125	Multifunctional Enhancement of Proton-Conductive, Stretchable, and Adhesive Performance in Hybrid Polymer Electrolytes by Polyoxometalate Nanoclusters. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30039-30050.	4.0	22
126	Electrospun MOF/PAN composite separator with superior electrochemical performances for high energy density lithium batteries. <i>Electrochimica Acta</i> , 2021, 382, 138346.	2.6	42

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127	Alloying-triggered heterogeneous nucleation for the flexible sodium metallic batteries. Energy Storage Materials, 2021, 38, 499-508.	9.5	18
128	Amorphous-Carbon-Coated 3D Solid Electrolyte for an Electro-Chemomechanically Stable Lithium Metal Anode in Solid-State Batteries. Nano Letters, 2021, 21, 6163-6170.	4.5	29
129	Fluorinated Polyoxalate Electrolytes Stabilizing both Anode and Cathode Interfaces for All-Solid-State Li/NMC811 Batteries. Angewandte Chemie - International Edition, 2021, 60, 18335-18343.	7.2	53
130	Progress and perspective of the cathode/electrolyte interface construction in all-solid-state lithium batteries. , 2021, 3, 866-894.		59
131	Recent Advances of Composite Solid-State Electrolytes for Lithium-Based Batteries. Energy & Fuels, 2021, 35, 11118-11140.	2.5	16
132	In Situ Chemical Lithiation Transforms Diamond-Like Carbon into an Ultrastrong Ion Conductor for Dendrite-Free Lithium-Metal Anodes. Advanced Materials, 2021, 33, e2100793.	11.1	82
133	A Sandwich-Structure Composite Polymer Electrolyte Based on Poly(vinyl alcohol)/Poly(4-lithium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 8016-8029.	2.5	9
134	Study of nanostructured ultra-refractory Tantalum-Hafnium-Carbide electrodes with wide electrochemical stability window. Chemical Engineering Journal, 2021, 415, 128987.	6.6	4
135	Fluorinated Polyoxalate Electrolytes Stabilizing both Anode and Cathode Interfaces for All-Solid-State Li/NMC811 Batteries. Angewandte Chemie, 2021, 133, 18483-18491.	1.6	13
136	Fiber-Shaped Electronic Devices. Advanced Energy Materials, 2021, 11, 2101443.	10.2	74
137	Electrochemically-Matched and Nonflammable Janus Solid Electrolyte for Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 39271-39281.	4.0	16
138	Structural Design of Composite Polymer Electrolytes for Solid-State Lithium Metal Batteries. ChemNanoMat, 2021, 7, 1177-1187.	1.5	11
139	Advanced Electrolytes Enabling Safe and Stable Rechargeable Li-Metal Batteries: Progress and Prospects. Advanced Functional Materials, 2021, 31, 2105253.	7.8	102
140	Lithium solid-state batteries: State-of-the-art and challenges for materials, interfaces and processing. Journal of Power Sources, 2021, 502, 229919.	4.0	92
141	High Energy Density Solid State Lithium Metal Batteries Enabled by Sub-5 Åm Solid Polymer Electrolytes. Advanced Materials, 2021, 33, e2105329.	11.1	123
142	Recent progress of asymmetric solid-state electrolytes for lithium/sodium-metal batteries. EnergyChem, 2021, 3, 100058.	10.1	47
143	Lithium-Conducting Branched Polymers: New Paradigm of Solid-State Electrolytes for Batteries. Nano Letters, 2021, 21, 7435-7447.	4.5	47
144	Scale-up processing of a safe quasi-solid-state lithium battery by cathode-supported solid electrolyte coating. Materials Today Energy, 2021, 21, 100841.	2.5	13

#	ARTICLE	IF	CITATIONS
145	A systems engineering perspective on electrochemical energy technologies and a framework for application driven choice of technology. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111165.	8.2	7
146	Controlled lithium plating in three-dimensional hosts through nucleation overpotential regulation toward high-areal-capacity lithium metal anode. <i>Materials Today Energy</i> , 2021, 21, 100770.	2.5	25
147	Functional additives for solid polymer electrolytes in flexible and high-energy-density solid-state lithium-ion batteries. , 2021, 3, 929-956.		63
148	Polymer electrolytes and interfaces in solid-state lithium metal batteries. <i>Materials Today</i> , 2021, 51, 449-474.	8.3	161
149	Recent progress in thin separators for upgraded lithium ion batteries. <i>Energy Storage Materials</i> , 2021, 41, 805-841.	9.5	68
150	Improving the high-voltage performance of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ by co-doping of zirconium and erbium. <i>Solid State Ionics</i> , 2021, 371, 115757.	1.3	5
151	Dual-interface reinforced flexible solid garnet batteries enabled by in-situ solidified gel polymer electrolytes. <i>Nano Energy</i> , 2021, 90, 106498.	8.2	74
152	Multifunctional Batteries: Flexible, Transient, and Transparent. <i>ACS Central Science</i> , 2021, 7, 231-244.	5.3	45
153	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6585-6589.	7.2	84
154	Designing solid-state electrolytes for safe, energy-dense batteries. <i>Nature Reviews Materials</i> , 2020, 5, 229-252.	23.3	1,167
155	Mechanical failures in solid-state lithium batteries and their solution. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 226201.	0.2	5
156	Rational design of ultrathin composite solid-state electrolyte for high-performance lithium metal batteries. <i>Journal of Membrane Science</i> , 2022, 642, 119952.	4.1	25
157	Rational design of a heterogeneous double-layered composite solid electrolyte via synergistic strategies of asymmetric polymer matrices and functional additives to enable 4.5 V all-solid-state lithium batteries with superior performance. <i>Energy Storage Materials</i> , 2022, 45, 1062-1073.	9.5	21
158	Exploring efficient solid electrolyte based on Nd doped BaSnF ₄ for fluoride-ion batteries at atomic scale. <i>Journal of Power Sources</i> , 2022, 518, 230718.	4.0	6
159	Challenges for Safe Electrolytes Applied in Lithium-Ion Cells—A Review. <i>Materials</i> , 2021, 14, 6783.	1.3	21
160	Freestanding Trilayer Hybrid Solid Electrolyte with Electrospun Interconnected Al-LLZO Nanofibers for Solid-State Lithium-Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 14554-14574.	2.5	16
161	Composite polymer electrolyte with three-dimensional ion transport channels constructed by NaCl template for solid-state lithium metal batteries. <i>Energy Storage Materials</i> , 2022, 45, 1212-1219.	9.5	40
162	In situ generated polymer electrolyte coating-based Janus interfaces for long-life LAGP-based NMC ₈₁₁ /Li metal batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133589.	6.6	22

#	ARTICLE	IF	CITATIONS
163	3D poly(vinylidene fluoride-hexafluoropropylene) nanofiber-reinforced PEO-based composite polymer electrolyte for high-voltage lithium metal batteries. <i>Electrochimica Acta</i> , 2022, 404, 139769.	2.6	16
164	A high strength asymmetric polymer-inorganic composite solid electrolyte for solid-state Li-ion batteries. <i>Electrochimica Acta</i> , 2022, 404, 139701.	2.6	17
165	Poly (vinylidene fluoride) binder reinforced poly (propylene carbonate)/3D garnet nanofiber composite polymer electrolyte toward dendrite-free lithium metal batteries. <i>Materials Today Energy</i> , 2022, 24, 100952.	2.5	3
166	Hydrogen bonding enhanced SiO ₂ /PEO composite electrolytes for solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3400-3408.	5.2	54
167	Functional Applications of Polymer Electrolytes in High-Energy-Density Lithium Batteries. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	11
168	Elastomeric electrolytes for high-energy solid-state lithium batteries. <i>Nature</i> , 2022, 601, 217-222.	13.7	290
169	Bridging Li ₇ La ₃ Zr ₂ O ₁₂ Nanofibers with Poly(ethylene Terephthalate) Overlapped Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5346-5354.	4.0	23
170	Designing Versatile Polymers for Lithium-Ion Battery Applications: A Review. <i>Polymers</i> , 2022, 14, 403.	2.0	19
171	Fabrication of asymmetric bilayer solid-state electrolyte with boosted ion transport enabled by charge-rich space charge layer for -20~70°C lithium metal battery. <i>Nano Energy</i> , 2022, 95, 107027.	8.2	29
172	Fabrication of Asymmetric Bilayer Solid-State Electrolyte with Boosted Ion Transport Enabled by Charge-Rich Space Charge Layer for -20~70°C Lithium Metal Battery. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
173	Unveiling and Alleviating Chemical Crosstalk of Succinonitrile Molecules in Hierarchical Electrolyte for High-Voltage Solid-State Lithium Metal Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	13
174	A Highly Stable Li-Organic All-Solid-State Battery Based on Sulfide Electrolytes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	17
175	Lithium Salt-Induced In Situ Polymerizations Enable Double Network Polymer Electrolytes. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100853.	2.0	1
176	Enabling Stable Interphases via In Situ Two-Step Synthetic Bilayer Polymer Electrolyte for Solid-State Lithium Metal Batteries. <i>Inorganics</i> , 2022, 10, 42.	1.2	4
177	Self-Healing Polymer Electrolyte for Dendrite-Free Li Metal Batteries with Ultra-High Voltage Ni-Rich Layered Cathodes. <i>Small</i> , 2022, 18, e2200891.	5.2	23
178	Asymmetric polymer solid electrolyte constructed by dopamine-modified Li _{1.4} Al _{0.4} Ti _{1.6} (PO ₄) ₃ for dendrite-free lithium battery. <i>Ionics</i> , 2022, 28, 2693-2700.	1.2	2
179	Synergistic effect of modest pores and lithiophilic surface on 3D current collectors for stable Li metal anodes. <i>Journal of Alloys and Compounds</i> , 2022, , 164925.	2.8	3
180	Systematic study and effective improvement of voltammetry for accurate electrochemical window measurement of solid electrolytes. <i>Electrochimica Acta</i> , 2022, 414, 140210.	2.6	1

#	ARTICLE	IF	CITATIONS
181	Recent advances of newly designed in-situ polymerized electrolyte for high energy density/safe solid Li metal batteries. Current Opinion in Electrochemistry, 2022, 33, 100962.	2.5	6
182	Hydrogen bonds enhanced composite polymer electrolyte for high-voltage cathode of solid-state lithium battery. Nano Energy, 2022, 96, 107105.	8.2	44
183	Enhanced electrochemical performance of cobalt oxide layers coated LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ by polyvinylpyrrolidone-assisted method cathode for Li-ion batteries. Journal of Colloid and Interface Science, 2022, 616, 520-531.	5.0	16
184	Gradient trilayer solid-state electrolyte with excellent interface compatibility for high-voltage lithium batteries. Chemical Engineering Journal, 2022, 441, 136077.	6.6	22
185	Advances in ^{host selection} and ^{interface regulation} of polymer electrolytes. Journal of Polymer Science, 2022, 60, 743-765.	2.0	8
186	Vertically Heterostructured Solid Electrolytes for Lithium Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	23
187	8.5Å^μâ€Thick Flexibleâ€Rigid Hybrid Solidâ€Electrolyte/Lithium Integration for Airâ€Stable and Interfaceâ€Compatible Allâ€Solidâ€State Lithium Metal Batteries. Advanced Energy Materials, 2022, 12, .	10.2	46
188	PI-LATP-PEO Electrolyte with High Safety Performance in Solid-State Lithium Metal Batteries. ACS Applied Energy Materials, 2022, 5, 5277-5286.	2.5	19
189	Study on Performances of LiNi_{0.8}Co_{0.1}Mn_{0.1}O_{2} Cathode Materials Prepared from Different Lithium Sources and Coated Modification of ZnO. Material Sciences, 2022, 12, 386-395.	0.0	0
190	Design and developments in ceramic materials for electrochemical applications. , 2022, , 353-377.		0
191	The Plasticizer-Free Composite Block Copolymer Electrolytes for Ultralong Lifespan All-Solid-State Lithium-Metal Batteries. SSRN Electronic Journal, 0, , .	0.4	0
192	Engineering a High-Voltage Durable Cathode/Electrolyte Interface for All-Solid-State Lithium Metal Batteries via <i>In Situ</i> Electropolymerization. ACS Applied Materials & Interfaces, 2022, 14, 21018-21027.	4.0	15
193	Perspectives on Improving the Safety and Sustainability of High Voltage Lithiumâ€Ion Batteries Through the Electrolyte and Separator Region. Advanced Energy Materials, 2022, 12, .	10.2	64
194	Interface science in polymerâ€based composite solid electrolytes in lithium metal batteries. SusMat, 2022, 2, 264-292.	7.8	21
195	Advanced inorganic/polymer hybrid electrolytes for all-solid-state lithium batteries. Journal of Advanced Ceramics, 2022, 11, 835-861.	8.9	45
196	Lithium Bromide-Induced Organic-Rich Cathode/Electrolyte Interphase for High-Voltage and Flame-Retardant All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2022, 14, 24469-24479.	4.0	13
197	Fabrication of ultra-thin, flexible, dendrite-free, robust and nanostructured solid electrolyte membranes for solid-state Li-batteries. Journal of Materials Chemistry A, 2022, 10, 12196-12212.	5.2	12
198	PEGDA-SN as Both Solid-State Electrolyte and Solid-Solid Interface Material for Li-O₂ Battery. Journal of the Electrochemical Society, 2022, 169, 060507.	1.3	4

#	ARTICLE	IF	CITATIONS
199	Insight into the Integration Way of Ceramic Solid-State Electrolyte Fillers in the Composite Electrolyte for High Performance Solid-State Lithium Metal Battery. SSRN Electronic Journal, 0, , .	0.4	0
200	Transference Number Reinforced-Based Gel Copolymer Electrolyte for Dendrite-Free Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 26612-26621.	4.0	11
201	Janus Electrolyte with Modified Li ⁺ Solvation for High-Performance Solid-State Lithium Batteries. Advanced Functional Materials, 2022, 32, .	7.8	30
202	Gradient Design for High-Energy and High-Power Batteries. Advanced Materials, 2022, 34, .	11.1	53
203	Enhancing the Long Cycle Performance of Li ⁺ Batteries at High Temperatures Using Metal-Organic Framework-Based Electrolytes. ACS Applied Energy Materials, 2022, 5, 7185-7191.	2.5	10
204	In-situ forming lithiophilic-lithiophobic gradient interphases for dendrite-free all-solid-state Li metal batteries. Nano Energy, 2022, 99, 107395.	8.2	10
205	Operando electrochemical pressiometry probing interfacial evolution of electrodeposited thin lithium metal anodes for all-solid-state batteries. Energy Storage Materials, 2022, 50, 543-553.	9.5	16
206	Dendrite-Free and Long-Cycling Lithium Metal Battery Enabled by Ultrathin, 2D Shield-Defensive, and Single Lithium-Ion Conducting Polymeric Membrane. Advanced Materials, 2022, 34, .	11.1	21
207	Reactivity at the Electrode-Electrolyte Interfaces in Li-Ion and Gel Electrolyte Lithium Batteries for Li _{0.6} Mn _{0.2} Co _{0.2} O ₂ with Different Particle Sizes. ACS Applied Materials & Interfaces, 0, , .	4.0	6
208	Insight into the integration way of ceramic solid-state electrolyte fillers in the composite electrolyte for high performance solid-state lithium metal battery. Energy Storage Materials, 2022, 51, 130-138.	9.5	51
209	Ultra-thin Asymmetric Composite Electrolyte Addresses the Out-of-sync Requirements of Lithium Batteries Interfaces. Batteries and Supercaps, 0, , .	2.4	1
210	The plasticizer-free composite block copolymer electrolytes for ultralong lifespan all-solid-state lithium-metal batteries. Nano Energy, 2022, 100, 107499.	8.2	20
211	Mechanically and thermally robust microporous copolymer separators for lithium ion batteries. Electrochimica Acta, 2022, 425, 140705.	2.6	3
212	Tailoring the surface energy and area surface resistance of solid-electrolyte polymer membrane for dendrite free, high-performance, and safe solid-state Li-batteries. Journal of Power Sources, 2022, 541, 231690.	4.0	1
213	An ion conducting ZIF-8 coating protected PEO based polymer electrolyte for high voltage lithium metal batteries. Chemical Engineering Journal, 2022, 447, 137503.	6.6	25
214	Minimizing the interfacial resistance for a solid-state lithium battery running at room temperature. Chemical Engineering Journal, 2022, 448, 137740.	6.6	27
215	Insights into the enhanced electrochemical performance of MnV ₂ O ₆ nanoflakes as an anode material for advanced lithium storage. Nanoscale, 2022, 14, 10428-10438.	2.8	5
216	Functional Janus Membranes: Promising Platform for Advanced Lithium Batteries and Beyond. Energy and Environmental Materials, 2023, 6, .	7.3	3

#	ARTICLE	IF	CITATIONS
217	Research progress on space charge layer effect in lithium-ion solid-state battery. <i>Science China Technological Sciences</i> , 2022, 65, 2246-2258.	2.0	4
218	An asymmetric bilayer polymer-ceramic solid electrolyte for high-performance sodium metal batteries. <i>Journal of Energy Chemistry</i> , 2022, 74, 18-25.	7.1	21
219	Effects of Molecular Weight on the Electrochemical Properties of Poly(vinylidene difluoride)-Based Polymer Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32075-32083.	4.0	17
220	Are Polymer-Based Electrolytes Ready for High-Voltage Lithium Battery Applications? An Overview of Degradation Mechanisms and Battery Performance. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	70
221	Double-layer solid-state electrolyte enables compatible interfaces for high-performance lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2022, 74, 91-99.	7.1	8
222	“Tree-Trunk” Design for Flexible Quasi-Solid-State Electrolytes with Hierarchical Ion Channels Enabling Ultralong-Life Lithium-Metal Batteries. <i>Advanced Materials</i> , 2022, 34, .	11.1	29
223	Solid Polymer Electrolytes for Lithium Batteries: A Tribute to Michel Armand. <i>Inorganics</i> , 2022, 10, 110.	1.2	8
224	Cellulose mesh supported ultrathin ceramic-based composite electrolyte for high-performance Li metal batteries. <i>Journal of Membrane Science</i> , 2022, 661, 120907.	4.1	8
225	Strategies for rational design of polymer-based solid electrolytes for advanced lithium energy storage applications. <i>Energy Storage Materials</i> , 2022, 52, 430-464.	9.5	44
226	Dual-Interlayers Constructed by Ti ₃ C ₂ T _x /Ionic Liquid Enhance Efficient Performance for Solid Garnet Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
227	Optimized functional additive enabled stable cathode and anode interfaces for high-voltage all-solid-state lithium batteries with significantly improved cycling performance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 20331-20342.	5.2	13
228	Coordinating ionic and electronic conductivity on 3D porous host enabling deep dense lithium deposition toward high-capacity lithium metal anodes. <i>Nanoscale</i> , 2022, 14, 13722-13730.	2.8	5
229	A Review on Design Considerations in Polymer and Polymer Composite Solid-State Electrolytes for Solid Li Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
230	Insights Into the Interfacial Degradation of High-Voltage All-Solid-State Lithium Batteries. <i>Nano-Micro Letters</i> , 2022, 14, .	14.4	30
231	Bifunctional MOF Doped PEO Composite Electrolyte for Long-Life Cycle Solid Lithium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 45476-45483.	4.0	37
232	Recent progress in solid polymer electrolytes with various dimensional fillers: a review. <i>Materials Today Sustainability</i> , 2022, 20, 100224.	1.9	9
233	Melamine-Regulated Ceramic/Polymer Electrolyte Interface Promotes High Stability in Lithium-Metal Battery. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 47822-47830.	4.0	7
234	Opportunities of Flexible and Portable Electrochemical Devices for Energy Storage: Expanding the Spotlight onto Semi-solid/Solid Electrolytes. <i>Chemical Reviews</i> , 2022, 122, 17155-17239.	23.0	67

#	ARTICLE	IF	CITATIONS
235	An integrated polymer/electrode interface for high performance ceramic/polymer electrolyte-based solid-state lithium batteries. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	2
236	Multi-component solid PVDF-HFP/PPC/LLTO-nanorods composite electrolyte enabling advanced solid-state lithium metal batteries. <i>Electrochimica Acta</i> , 2022, 435, 141384.	2.6	7
237	A review on design considerations in polymer and polymer composite solid-state electrolytes for solid Li batteries. <i>Journal of Power Sources</i> , 2023, 553, 232267.	4.0	18
238	Effective transport network driven by tortuosity gradient enables high-electrochem-active solid-state batteries. <i>National Science Review</i> , 2023, 10, .	4.6	11
239	Single-Ion Conducting Polymeric Protective Interlayer for Stable Solid Lithium-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 56110-56119.	4.0	11
240	Solid-State Li Ion Batteries with Oxide Solid Electrolytes: Progress and Perspective. <i>Energy Technology</i> , 2023, 11, .	1.8	14
241	Enhanced Performance of Lithium Polymer Batteries Based on the Nickel-Rich $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ Cathode Material and Dual Salts. <i>ACS Applied Energy Materials</i> , 2022, 5, 15768-15779.	2.5	4
242	Novel quasi-solid-state composite electrolytes boost interfacial Li^+ transport for long-cycling and dendrite-free lithium metal batteries. <i>Energy Storage Materials</i> , 2023, 56, 258-266.	9.5	3
243	Challenges of polymer electrolyte with wide electrochemical window for high energy solid-state lithium batteries. <i>Informa-Materials</i> , 2023, 5, .	8.5	37
244	Recent Progress of Polymer Electrolytes for Solid-State Lithium Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 1253-1277.	3.2	15
245	Regulating Na^+ Ion Solvation in Quasi-Solid Electrolyte to Stabilize Na Metal Anode. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	9
246	Ionic Conduction in Polymer-Based Solid Electrolytes. <i>Advanced Science</i> , 2023, 10, .	5.6	66
247	Synergistic effect of 1D bismuth Nanowires/2D graphene composites for high performance flexible anodes in sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2023, 11, 8081-8090.	5.2	5
248	Highly Elastic, Healable, and Durable Anhydrous High-Temperature Proton Exchange Membranes Cross-Linked with Highly Dense Hydrogen Bonds. <i>Macromolecular Rapid Communications</i> , 2023, 44, .	2.0	0
249	Achieving stable interface for lithium metal batteries using fluoroethylene carbonate-modified garnet-type $\text{Li}_6.4\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$ composite electrolyte. <i>Electrochimica Acta</i> , 2023, 446, 142063.	2.6	5
250	Multi-chain hydrophobic polymer protective layer with high elasticity for stable lithium metal anode. <i>Journal of Materials Science</i> , 2023, 58, 2713-2720.	1.7	1
251	4.2V polymer all-solid-state lithium batteries enabled by high-concentration PEO solid electrolytes. <i>Energy Storage Materials</i> , 2023, 57, 171-179.	9.5	31
252	Designing Bidirectionally Functional Polymer Electrolytes for Stable Solid Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	14

#	ARTICLE	IF	CITATIONS
253	A review of all-solid-state electrolytes for lithium batteries: high-voltage cathode materials, solid-state electrolytes and electrode-electrolyte interfaces. <i>Materials Chemistry Frontiers</i> , 2023, 7, 1268-1297.	3.2	13
254	Research Progress of Stable Lithium Metal Anodes. <i>Advances in Analytical Chemistry</i> , 2023, 13, 11-26.	0.1	0
255	12 Å Thick Sintered Garnet Ceramic Skeleton Enabling High-Energy-Density Solid-State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	35
256	Elastomeric Electrolyte for High Capacity and Long-Cycle-Life Solid-State Lithium Metal Battery. <i>Small Methods</i> , 2023, 7, .	4.6	10
257	Durable and Adjustable Interfacial Engineering of Polymeric Electrolytes for Both Stable Ni-Rich Cathodes and High-Energy Metal Anodes. <i>Advanced Materials</i> , 2023, 35, .	11.1	6
258	Solid-state lithium-ion batteries for grid energy storage: opportunities and challenges. <i>Science China Chemistry</i> , 2024, 67, 43-66.	4.2	15
259	Tailoring Vertically Aligned Inorganic-Polymer Nanocomposites with Abundant Lewis Acid Sites for Ultra-Stable Solid-State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	17
260	Self-shutdown function and uniform Li-ion flux enabled by a double-layered polymer electrolyte for high-performance Li metal batteries. <i>Journal of Solid State Electrochemistry</i> , 0, .	1.2	0
261	Anode Interfacial Issues in Solid-State Li Batteries: Mechanistic Understanding and Mitigating Strategies. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	20
262	Li-ion Transfer Mechanism of Ambient-Temperature Solid Polymer Electrolyte toward Lithium Metal Battery. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	11
263	Achieving high-energy and high-safety lithium metal batteries with high-voltage-stable solid electrolytes. <i>Matter</i> , 2023, 6, 1096-1124.	5.0	26
264	High-Voltage Solid-State Lithium Metal Batteries with Stable Anodic and Cathodic Interfaces by a Laminated Solid Polymer Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 17144-17151.	4.0	4
265	Enhanced rate capability and cycling stability of conductive oxide-coated LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ for lithium-ion batteries. <i>Ionics</i> , 2023, 29, 1711-1720.	1.2	0
266	Covalent Organic Framework with Multi-Cationic Molecular Chains for Gate Mechanism Controlled Superionic Conduction in All-Solid-State Batteries. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	8
267	Covalent Organic Framework with Multi-Cationic Molecular Chains for Gate Mechanism Controlled Superionic Conduction in All-Solid-State Batteries. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	3
268	Interfacial Modification, Electrode/Solid-Electrolyte Engineering, and Monolithic Construction of Solid-State Batteries. <i>Electrochemical Energy Reviews</i> , 2023, 6, .	13.1	26
269	Organoboron- and Cyano-Grafted Solid Polymer Electrolytes Boost the Cyclability and Safety of High-Voltage Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 21112-21122.	4.0	6
270	A Composite of Hierarchical Porous MOFs and Halloysite Nanotubes as Single-Ion-Conducting Electrolyte Toward High-Performance Solid-State Lithium-Ion Batteries. <i>Advanced Materials</i> , 2023, 35, .	11.1	11

#	ARTICLE	IF	CITATIONS
271	Metal-organic frameworks for solid-state electrolytes: A mini review. <i>Electrochemistry Communications</i> , 2023, 150, 107491.	2.3	18
301	A review of solid-state lithium metal batteries through in-situ solidification. <i>Science China Chemistry</i> , 0, , .	4.2	1
306	The significance of fillers in composite polymer electrolytes for optimizing lithium battery. <i>Ionics</i> , 2024, 30, 647-675.	1.2	0
316	Roadmap for rechargeable batteries: present and beyond. <i>Science China Chemistry</i> , 0, , .	4.2	0
327	Solid Polymer Electrolytes-Based Composite Cathodes for Advanced Solid-State Lithium Batteries. <i>Korean Journal of Chemical Engineering</i> , 2024, 41, 385-402.	1.2	0
331	Lithium batteries - Secondary systems - All-solid state systems Lithium-ion polymer battery. , 2024, , .		0