

Fundamentals of inorganic solid-state electrolytes for b

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A New Superionic Plastic Polymorph of the Na ⁺ Conductor Na ₃ PS ₄ , 2019, 1, 641-646.		50
2	Review of Solid-State Battery Technology Progress. , 2019, , .		11
3	Lithium-ion battery pioneers awarded Chemistry Nobel. Physics Today, 2019, 72, 20-24.	0.3	2
4	Polyimide-Coated Glass Microfiber as Polysulfide Perm-Selective Separator for High-Performance Lithium-Sulphur Batteries. Nanomaterials, 2019, 9, 1612.	1.9	7
5	High-Voltage Superionic Halide Solid Electrolytes for All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2020, 5, 533-539.	8.8	250
6	Porous film host-derived 3D composite polymer electrolyte for high-voltage solid state lithium batteries. Energy Storage Materials, 2020, 26, 283-289.	9.5	242
7	Voltage issue of aqueous rechargeable metal-ion batteries. Chemical Society Reviews, 2020, 49, 180-232.	18.7	522
8	Native Defects and Their Doping Response in the Lithium Solid Electrolyte Li ₇ La ₃ Zr ₂ O ₁₂ . Chemistry of Materials, 2020, 32, 1876-1886.	3.2	39
9	MXene-derived three-dimensional carbon nanotube network encapsulate CoS ₂ nanoparticles as an anode material for solid-state sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 3018-3026.	5.2	51
10	Sodium/Na ⁺ Alumina Interface: Effect of Pressure on Voids. ACS Applied Materials & Interfaces, 2020, 12, 678-685.	4.0	86
11	Physical properties and conductivity relaxation processes in sodium sulfo-borophosphate glasses. Journal of Physics Condensed Matter, 2020, 32, 115702.	0.7	1
12	Intrinsic Lithiophilicity of Li ⁺ Garnet Electrolytes Enabling High-Rate Lithium Cycling. Advanced Functional Materials, 2020, 30, 1906189.	7.8	107
13	A quasi-solid composite electrolyte with dual salts for dendrite-free lithium metal batteries. New Journal of Chemistry, 2020, 44, 1817-1824.	1.4	54
14	Research Progresses on Interfaces in Solid-State Sodium Batteries: A Topic Review. Advanced Materials Interfaces, 2020, 7, 2001444.	1.9	23
15	Lowering the Interfacial Resistance in Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ Poly(Ethylene Oxide) Composite Electrolytes. Cell Reports Physical Science, 2020, 1, 100214.	2.8	10
16	Li ₁₀ GeP ₂ S ₁₂ -Type Superionic Conductors: Synthesis, Structure, and Ionic Transportation. Advanced Energy Materials, 2020, 10, 2002153.	10.2	101
17	Tailoring the Cation Lattice for Chloride Lithium-Ion Conductors. Advanced Energy Materials, 2020, 10, 2002356.	10.2	56
18	High-performance all-inorganic portable electrochromic Li-ion hybrid supercapacitors toward safe and smart energy storage. Energy Storage Materials, 2020, 33, 258-267.	9.5	45

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19	Macroscopic Displacement Reaction of Copper Sulfide in Lithium Solid-State Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2002394.	10.2	37
20	Oxygen Substitution for Li ₁₀ GeP ₂ S ₁₂ -Type Phase with Enhanced Electrochemical Stabilities for All-Solid-State Batteries. <i>Chemistry of Materials</i> , 2020, 32, 8860-8867.	3.2	24
21	Lithium Metal-Based Composite: An Emerging Material for Next-Generation Batteries. <i>Matter</i> , 2020, 3, 1009-1030.	5.0	35
22	Lithium and Chlorine-Rich Preparation of Mechanochemically Activated Antiperovskite Composites for Solid-State Batteries. <i>Frontiers in Chemistry</i> , 2020, 8, 562549.	1.8	8
23	In Situ Investigation of Chemomechanical Effects in Thiophosphate Solid Electrolytes. <i>Matter</i> , 2020, 3, 2138-2159.	5.0	67
24	Solid-State Electrolyte Design for Lithium Dendrite Suppression. <i>Advanced Materials</i> , 2020, 32, e2002741.	11.1	219
25	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
26	Two-step in-situ hydrothermal synthesis of nanosheet-constructed porous MnMoS ₄ arrays on 3D Ni foam as a binder-free electrode in high-performance supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125456.	2.3	21
27	Under Pressure: Mechanochemical Effects on Structure and Ion Conduction in the Sodium-Ion Solid Electrolyte Na ₃ PS ₄ . <i>Journal of the American Chemical Society</i> , 2020, 142, 18422-18436.	6.6	58
28	Mechanism of enhanced ionic conductivity by rotational nitrite group in antiperovskite Na ₃ ONO ₂ . <i>Journal of Materials Chemistry A</i> , 2020, 8, 21265-21272.	5.2	29
29	Recently advances and perspectives of anode-free rechargeable batteries. <i>Nano Energy</i> , 2020, 78, 105344.	8.2	108
30	Toward High-Capacity Battery Anode Materials: Chemistry and Mechanics Intertwined. <i>Chemistry of Materials</i> , 2020, 32, 8755-8771.	3.2	28
31	Structural Disorder in Li ₆ PS ₅ I Speeds ⁷ Li Nuclear Spin Recovery and Slows Down ³¹ P Relaxation—Implications for Translational and Rotational Jumps as Seen by Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22934-22940.	1.5	16
32	Solid state chemistry for developing better metal-ion batteries. <i>Nature Communications</i> , 2020, 11, 4976.	5.8	125
33	Fundamentals and perspectives in developing zinc-ion battery electrolytes: a comprehensive review. <i>Energy and Environmental Science</i> , 2020, 13, 4625-4665.	15.6	497
34	Design Principles of Artificial Solid Electrolyte Interphases for Lithium-Metal Anodes. <i>Cell Reports Physical Science</i> , 2020, 1, 100119.	2.8	133
35	Local Charge Inhomogeneity and Lithium Distribution in the Superionic Argyrodites Li ₆ PS ₅ X (X = Cl, Br, I). <i>Inorganic Chemistry</i> , 2020, 59, 11009-11019.	1.9	56
36	Bipolar Electrodes for Next-Generation Rechargeable Batteries. <i>Advanced Science</i> , 2020, 7, 2001207.	5.6	41

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37	Different Behaviors of Metal Penetration in Na and Li Solid Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 53781-53787.	4.0	12
38	Research progress in Li-argyrodite-based solid-state electrolytes. Journal of Materials Chemistry A, 2020, 8, 25663-25686.	5.2	68
39	Atomistic Insights into the Role of Grain Boundary in Ionic Conductivity of Polycrystalline Solid-State Electrolytes. Journal of Physical Chemistry C, 2020, 124, 26241-26248.	1.5	11
40	Ruddlesdenâ€“Popper phases of lithium-hydroxide-halide antiperovskites: two dimensional Li-ion conductors. RSC Advances, 2020, 10, 41816-41820.	1.7	6
41	Recycling for All Solid-State Lithium-Ion Batteries. Matter, 2020, 3, 1845-1861.	5.0	38
42	A solid-state route to stabilize cubic $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ at low temperature for all-solid-state-battery applications. Chemical Communications, 2020, 56, 15197-15200.	2.2	9
43	First-principles study of $\text{CaB}_{12}\text{H}_{12}$ as a potential solid-state conductor for Ca. Physical Chemistry Chemical Physics, 2020, 22, 27600-27604.	1.3	8
44	In-Built Polymer-in-Solvent and Solvent-in-Polymer Electrolytes for High-Voltage Lithium Metal Batteries. Cell Reports Physical Science, 2020, 1, 100146.	2.8	10
45	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. Nature Communications, 2020, 11, 5700.	5.8	122
46	Toward design of cation transport in solid-state battery electrolytes: Structure-dynamics relationships. Current Opinion in Solid State and Materials Science, 2020, 24, 100875.	5.6	27
47	Role of Lithium Iodide Addition to Lithium Thiophosphate: Implications beyond Conductivity. Chemistry of Materials, 2020, 32, 7150-7158.	3.2	12
48	An ultrathin, strong, flexible composite solid electrolyte for high-voltage lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 18802-18809.	5.2	48
49	Synthesis of Antiperovskite Solid Electrolytes: Comparing Li_3Si , Na_3Si , and Ag_3Si . Inorganic Chemistry, 2020, 59, 11244-11247.	1.9	16
50	Comprehensive Investigation into Garnet Electrolytes Toward Application-Oriented Solid Lithium Batteries. Electrochemical Energy Reviews, 2020, 3, 656-689.	13.1	99
51	Boosting Li-Ion Transport in Transition-Metal-Doped Li_2SnO_3 . Inorganic Chemistry, 2020, 59, 11841-11846.	1.9	15
52	A flexible composite solid electrolyte with a highly stable interphase for dendrite-free and durable all-solid-state lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 18043-18054.	5.2	77
53	Modifying the Properties of Fast Lithium-Ion Conductorsâ€“The Lithium Phosphidotetrelates $\text{Li}_{14}\text{SiP}_6$, $\text{Li}_{14}\text{GeP}_6$, and $\text{Li}_{14}\text{SnP}_6$. Chemistry of Materials, 2020, 32, 6925-6934.	3.2	21
54	Physicochemical Concepts of the Lithium Metal Anode in Solid-State Batteries. Chemical Reviews, 2020, 120, 7745-7794.	23.0	468

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55	A review of composite solid-state electrolytes for lithium batteries: fundamentals, key materials and advanced structures. <i>Chemical Society Reviews</i> , 2020, 49, 8790-8839.	18.7	461
56	Soft Mode Metal-Linker Dynamics in Carboxylate MOFs Evidenced by Variable-Temperature Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 19291-19299.	6.6	38
57	Origin of Fast Ion Conduction in Na ₃ PS ₄ : Insight from Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20671-20681.	1.5	14
58	Recent Developments and Challenges in Hybrid Solid Electrolytes for Lithium-Ion Batteries. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	52
59	Electrochromic Metallo-Organic Nanoscale Films: A Molecular Mix and Match Approach to Thermally Robust and Multistate Solid-State Devices. <i>Advanced Electronic Materials</i> , 2020, 6, 2000407.	2.6	11
60	Na ₃ Er ₁ Zr ₆ Cl ₆ Halide-Based Fast Sodium-Ion Conductor with Vacancy-Driven Ionic Transport. <i>ACS Applied Energy Materials</i> , 2020, 3, 10164-10173.	2.5	68
61	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
62	Quantifying the impact of disorder on Li-ion and Na-ion transport in perovskite titanate solid electrolytes for solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19603-19611.	5.2	15
63	Polydopamine Coated Lithium Lanthanum Titanate in Bilayer Membrane Electrolytes for Solid Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46231-46238.	4.0	38
64	Polydopamine-Coated Garnet Particles Homogeneously Distributed in Poly(propylene carbonate) for the Conductive and Stable Membrane Electrolytes of Solid Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46162-46169.	4.0	41
65	Structure Design of Cathode Electrodes for Solid-State Batteries: Challenges and Progress. <i>Small Structures</i> , 2020, 1, 2000042.	6.9	73
66	Effects of Nanoscale Surface Lithium Depletion on the Optical Properties and Electronic Band Structures of Lithium Transition-Metal Phosphates. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19969-19979.	1.5	5
67	Phase Behavior in Rhombohedral NaSiCON Electrolytes and Electrodes. <i>Chemistry of Materials</i> , 2020, 32, 7908-7920.	3.2	58
68	Effect of Microstructure on Ionic Transport in Silica-Based Sodium Containing Nanoconfined Systems and Their Electrochemical Performance as Electrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21155-21169.	1.5	11
69	Mitigating Interfacial Instability in Polymer Electrolyte-Based Solid-State Lithium Metal Batteries with 4 V Cathodes. <i>ACS Energy Letters</i> , 2020, 5, 3244-3253.	8.8	93
70	In Pursuit of a Dendrite-Free Electrolyte/Electrode Interface on Lithium Metal Anodes: A Minireview. <i>Energy & Fuels</i> , 2020, 34, 10503-10512.	2.5	27
71	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
72	Sulfide and Oxide Inorganic Solid Electrolytes for All-Solid-State Li Batteries: A Review. <i>Nanomaterials</i> , 2020, 10, 1606.	1.9	179

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73	Silicon-Doped Argyrodite Solid Electrolyte $\text{Li}_6\text{PS}_5\text{I}$ with Improved Ionic Conductivity and Interfacial Compatibility for High-Performance All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41538-41545.	4.0	90
74	Ammine Magnesium Borohydride Nanocomposites for All-Solid-State Magnesium Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 9264-9270.	2.5	53
75	4 V room-temperature all-solid-state sodium battery enabled by a passivating cathode/hydroborate solid electrolyte interface. <i>Energy and Environmental Science</i> , 2020, 13, 5048-5058.	15.6	61
76	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e2000030.	11.1	156
77	Dense Sphe-ne-type Solid Electrolyte Through Rapid Sintering for Solid-state Lithium Metal Battery. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 439-446.	1.3	11
78	A Highly Efficient All-Solid-State Lithium/Electrolyte Interface Induced by an Energetic Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14003-14008.	7.2	70
79	A Highly Efficient All-Solid-State Lithium/Electrolyte Interface Induced by an Energetic Reaction. <i>Angewandte Chemie</i> , 2020, 132, 14107-14112.	1.6	4
80	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
81	Pressure management and cell design in solid-electrolyte batteries, at the example of a sodium-nickel chloride battery. <i>Journal of Power Sources</i> , 2020, 465, 228268.	4.0	15
82	Emerging soluble organic redox materials for next-generation grid energy-storage applications. <i>MRS Communications</i> , 2020, 10, 215-229.	0.8	4
83	Revealing the Impact of Space-Charge Layers on the Li-Ion Transport in All-Solid-State Batteries. <i>Joule</i> , 2020, 4, 1311-1323.	11.7	111
84	Salt nanoconfinement in zirconium-based metal-organic frameworks leads to pore-size and loading-dependent ionic conductivity enhancement. <i>Chemical Communications</i> , 2020, 56, 7245-7248.	2.2	8
85	High Cycling Stability for Solid-State Li Metal Batteries via Regulating Solvation Effect in Poly(Vinylidene Fluoride)-Based Electrolytes. <i>Batteries and Supercaps</i> , 2020, 3, 876-883.	2.4	84
86	Origin of Superionic $\text{Li}_3\text{Y} \cdot \text{In}_x\text{Cl}_6$ Halide Solid Electrolytes with High Humidity Tolerance. <i>Nano Letters</i> , 2020, 20, 4384-4392.	4.5	94
87	Single crystal cathodes enabling high-performance all-solid-state lithium-ion batteries. <i>Energy Storage Materials</i> , 2020, 30, 98-103.	9.5	109
88	Principals and strategies for constructing a highly reversible zinc metal anode in aqueous batteries. <i>Nano Energy</i> , 2020, 74, 104880.	8.2	225
89	Composites of nanodimensional glass in the system $\text{Na}_2\text{O} \cdot \text{SiO}_2$ /Mesoporous silica and their high ionic conductivity. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 142, 109470.	1.9	11
90	Interface between Lithium Metal and Garnet Electrolyte: Recent Progress and Perspective. <i>Batteries and Supercaps</i> , 2020, 3, 1006-1015.	2.4	17

#	ARTICLE	IF	CITATIONS
91	Red algae-derived k-carrageenan-based proton-conducting electrolytes for the wearable electrical devices. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2249-2260.	1.2	18
92	Relationships Between Na ⁺ Distribution, Concerted Migration, and Diffusion Properties in Rhombohedral NASICON. <i>Advanced Energy Materials</i> , 2020, 10, 2001486.	10.2	64
93	Mg ₃ (BH ₄) ₄ (NH ₂) ₂ as Inorganic Solid Electrolyte with High Mg ²⁺ Ionic Conductivity. <i>ACS Applied Energy Materials</i> , 2020, 3, 6093-6097.	2.5	26
94	Evolution of 3D Printing Methods and Materials for Electrochemical Energy Storage. <i>Advanced Materials</i> , 2020, 32, e2000556.	11.1	134
95	Enhanced Ion Conduction in Li _{2.5} Zn _{0.25} PS ₄ via Anion Doping. <i>Chemistry of Materials</i> , 2020, 32, 3036-3042.	3.2	9
96	An Adjustable Porosity Plastic Crystal Electrolyte Enables High Performance All-Solid-State Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , 2020, 132, 9468-9473.	1.6	13
97	Superionic Halogen-Rich Li-Argyrodites Using In Situ Nanocrystal Nucleation and Rapid Crystal Growth. <i>Nano Letters</i> , 2020, 20, 2303-2309.	4.5	75
98	Ideal two-dimensional solid electrolytes for fast ion transport: metal trihalides MX ₃ with intrinsic atomic pores. <i>Nanoscale</i> , 2020, 12, 7188-7195.	2.8	9
99	Low-temperature paddlewheel effect in glassy solid electrolytes. <i>Nature Communications</i> , 2020, 11, 1483.	5.8	102
100	Site-Occupation-Tuned Superionic Li _x ScCl _{3+x} Halide Solid Electrolytes for All-Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 7012-7022.	6.6	260
101	Advanced Liquid Electrolytes for Rechargeable Li Metal Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1910777.	7.8	201
102	Room-Temperature Stable Inorganic Halide Perovskite as Potential Solid Electrolyte for Chloride Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18634-18641.	4.0	35
103	Copper Thiophosphate (Cu ₃ PS ₄) as Electrode for Sodium-Ion Batteries with Ether Electrolyte. <i>Advanced Functional Materials</i> , 2020, 30, 1910583.	7.8	25
104	An Adjustable Porosity Plastic Crystal Electrolyte Enables High Performance All-Solid-State Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9382-9387.	7.2	50
105	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
106	Development of Lithium-Ion Batteries Wins Nobel Prize. <i>Engineering</i> , 2020, 6, 487-488.	3.2	6
107	Advanced Characterization Techniques for Interface in All-Solid-State Batteries. <i>Small Methods</i> , 2020, 4, 2000111.	4.6	35
108	Should All Electrochemical Energy Materials Be Isomaterially Heterostructured to Optimize Contra and Co-varying Physicochemical Properties?. <i>Frontiers in Chemistry</i> , 2020, 8, 515.	1.8	4

#	ARTICLE	IF	CITATIONS
109	Enhancing the Interfacial Ionic Transport via <i>in Situ</i> 3D Composite Polymer Electrolytes for Solid-State Lithium Batteries. ACS Applied Energy Materials, 2020, 3, 7200-7207.	2.5	15
110	Precursor-based surface modification of cathodes using Ta and W for sulfide-based all-solid-state batteries. Scientific Reports, 2020, 10, 10501.	1.6	14
111	Garnet-type solid-state electrolytes and interfaces in all-solid-state lithium batteries: progress and perspective. Applied Materials Today, 2020, 20, 100750.	2.3	17
112	Electrodeposition and Mechanical Stability at Lithium-Solid Electrolyte Interface during Plating in Solid-State Batteries. Cell Reports Physical Science, 2020, 1, 100106.	2.8	77
113	Electrolytes with reversible switch between liquid and solid phases. Current Opinion in Electrochemistry, 2020, 21, 297-302.	2.5	8
114	Mechanochemical synthesis and ion transport properties of Na ₃ OX (X = Cl, Br, I and BH ₄) antiperovskite solid electrolytes. Journal of Power Sources, 2020, 471, 228489.	4.0	47
115	Recent progress and perspective on electrolytes for sodium/potassium-based devices. Energy Storage Materials, 2020, 31, 328-343.	9.5	68
116	Dynamics of porous and amorphous magnesium borohydride to understand solid state Mg-ion-conductors. Scientific Reports, 2020, 10, 9080.	1.6	38
117	Controlling Dendrite Growth in Solid-State Electrolytes. ACS Energy Letters, 2020, 5, 833-843.	8.8	322
118	Nanofluid Based on Carbon Dots Functionalized with Ionic Liquids for Energy Applications. Energies, 2020, 13, 649.	1.6	5
119	Materials design of ionic conductors for solid state batteries. Progress in Energy, 2020, 2, 022001.	4.6	146
120	Na- and K-Doped Li ₂ SiO ₃ as an Alternative Solid Electrolyte for Solid-State Lithium Batteries. Journal of Physical Chemistry C, 2020, 124, 4982-4988.	1.5	12
121	Recent Development of Mg Ion Solid Electrolyte. Frontiers in Chemistry, 2020, 8, 125.	1.8	41
122	Ammonia-assisted fast Li-ion conductivity in a new hemiammine lithium borohydride, LiBH ₄ ·1/2NH ₃ . Chemical Communications, 2020, 56, 3971-3974.	2.2	60
123	DFT modelling of explicit solid–solid interfaces in batteries: methods and challenges. Physical Chemistry Chemical Physics, 2020, 22, 10412-10425.	1.3	44
124	Li-ion Cooperative Migration and Oxygen Sulfide Synergistic Effect in Li ₁₄ P ₂ Ge ₂ S ₁₆ ·xO _x ·y.2 Solid–State–Electrolyte Enables Extraordinary Conductivity and High Stability. Small, 2020, 16, e1906374.		27
125	A glimpse on all-solid-state Li-ion battery (ASSLIB) performance based on novel solid polymer electrolytes: a topical review. Journal of Materials Science, 2020, 55, 6242-6304.	1.7	68
126	Insights into the chemical and electronic interface evolution of Li ₄ Ti ₅ O ₁₂ cycled in Li ₂ S·P ₂ S ₅ enabled by <i>in operando</i> X-ray photoelectron spectroscopy. Journal of Materials Chemistry A, 2020, 8, 5138-5146.	5.2	23

#	ARTICLE	IF	CITATIONS
127	Review of Polymer Electrolytes for Rechargeable Batteries: From Nanocomposite to Nanohybrid. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070524.	1.3	135
128	New Na _{1+x} Ge ₂ (SiO ₄) _x (PO ₄) _{3-x} NASICON Series with Improved Grain and Grain Boundary Conductivities. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13914-13922.	4.0	8
129	How Certain Are the Reported Ionic Conductivities of Thiophosphate-Based Solid Electrolytes? An Interlaboratory Study. <i>ACS Energy Letters</i> , 2020, 5, 910-915.	8.8	98
130	Hollow nanotubular clay composited comb-like methoxy poly(ethylene glycol) acrylate polymer as solid polymer electrolyte for lithium metal batteries. <i>Electrochimica Acta</i> , 2020, 340, 135995.	2.6	39
131	Analysis of Interfacial Effects in All-Solid-State Batteries with Thiophosphate Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9277-9291.	4.0	73
132	A coupled electro-chemo-mechanical model for all-solid-state thin film Li-ion batteries: The effects of bending on battery performances. <i>Journal of Power Sources</i> , 2020, 452, 227803.	4.0	36
133	A 20 °C operating high capacity solid-state Li-S battery with an engineered carbon support cathode structure. <i>Applied Materials Today</i> , 2020, 19, 100585.	2.3	11
134	Plasma Synthesis of Spherical Crystalline and Amorphous Electrolyte Nanopowders for Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11570-11578.	4.0	15
135	Clarifying the relationship between redox activity and electrochemical stability in solid electrolytes. <i>Nature Materials</i> , 2020, 19, 428-435.	13.3	271
136	Mechanochemical synthesis of amorphous and crystalline Na ₂ P ₂ S ₆ – elucidation of local structural changes by X-ray total scattering and NMR. <i>Dalton Transactions</i> , 2020, 49, 1668-1673.	1.6	7
137	Achieving Both High Ionic Conductivity and High Interfacial Stability with the Li _{2+x} C _{1-x} B _x O ₃ Solid-State Electrolyte: Design from Theoretical Calculations. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6007-6014.	4.0	17
138	Computational investigation of chalcogenide spinel conductors for all-solid-state Mg batteries. <i>Chemical Communications</i> , 2020, 56, 1952-1955.	2.2	31
139	Microstructure evolution and transport properties of garnet-type Li _{6.5} La _{2.5} Ba _{0.5} TaZrO ₁₂ electrolyte for all-solid-state Li-ion batteries. <i>Applied Surface Science</i> , 2020, 510, 145399.	3.1	9
140	Diffusion and migration in polymer electrolytes. <i>Progress in Polymer Science</i> , 2020, 103, 101220.	11.8	100
141	Role of Framework Flexibility in Ion Transport: A Molecular Dynamics Study of LiM ₂ IV(PO ₄) ₃ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 4001-4009.	1.5	13
142	Facile template-free synthesis of 3D hierarchical ravine-like interconnected MnCo ₂ S ₄ nanosheet arrays for hybrid energy storage device. <i>Carbon</i> , 2020, 161, 299-308.	5.4	61
143	Nanoscale characteristics of practical LiFePO ₄ materials - Effects on electrical, magnetic and electrochemical properties. <i>Materials Characterization</i> , 2020, 162, 110171.	1.9	12
144	Submicron-Sized Nb-Doped Lithium Garnet for High Ionic Conductivity Solid Electrolyte and Performance of Quasi-Solid-State Lithium Battery. <i>Materials</i> , 2020, 13, 560.	1.3	44

#	ARTICLE	IF	CITATIONS
145	Defect chemistry of disordered solid-state electrolyte $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. Journal of Materials Chemistry A, 2020, 8, 3851-3858.	5.2	27
146	An all-solid-state lithium battery using the $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ and $\text{Li}_{6.7}\text{La}_3\text{Zr}_{1.7}\text{Ta}_{0.3}\text{O}_{12}$ ceramic enhanced polyethylene oxide electrolytes with superior electrochemical performance. Ceramics International, 2020, 46, 11397-11405.	2.3	42
147	Ceramic-Based Flexible Sheet Electrolyte for Li Batteries. ACS Applied Materials & Interfaces, 2020, 12, 10382-10388.	4.0	47
148	Pressure effects on sulfide electrolytes for all solid-state batteries. Journal of Materials Chemistry A, 2020, 8, 5049-5055.	5.2	191
149	Microstructural and Electrochemical Properties of Al- and Ga-Doped $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Garnet Solid Electrolytes. ACS Applied Energy Materials, 2020, 3, 4708-4719.	2.5	50
150	Mechanical vs. chemical stability of sulphide-based solid-state batteries. Which one is the biggest challenge to tackle? Overview of solid-state batteries and hybrid solid state batteries. Journal of Materials Chemistry A, 2020, 8, 10150-10167.	5.2	34
151	Classical and Emerging Characterization Techniques for Investigation of Ion Transport Mechanisms in Crystalline Fast Ionic Conductors. Chemical Reviews, 2020, 120, 5954-6008.	23.0	140
152	Highly conductive and nonflammable composite polymer electrolytes for rechargeable quasi-solid-state Li-metal batteries. Journal of Power Sources, 2020, 464, 228182.	4.0	27
153	Enhanced densification and ionic conductivity of Li-garnet electrolyte: Efficient Li_2CO_3 elimination and fast grain-boundary transport construction. Chemical Engineering Journal, 2020, 393, 124797.	6.6	33
154	Sodium-Storage Behavior of Exfoliated MoS_2 as an Electrode Material for Solid-State Batteries with Na_3PS_4 as the Solid Electrolyte. Journal of Physical Chemistry C, 2020, 124, 10298-10305.	1.5	13
155	Densification of a Solid-State NASICON Sodium-Ion Electrolyte Below 400 °C by Cold Sintering With a Fused Hydroxide Solvent. ACS Applied Energy Materials, 2020, 3, 4356-4366.	2.5	33
156	In Situ Construction of an Ultra-Stable Conductive Composite Interface for High-Voltage All-Solid-State Lithium Metal Batteries. Angewandte Chemie, 2020, 132, 11882-11886.	1.6	25
157	Perspectives for Polymer Electrolytes: A View from Fundamentals of Ionic Conductivity. Macromolecules, 2020, 53, 4141-4157.	2.2	221
158	Fundamentals of Electrolytes for Solid-State Batteries: Challenges and Perspectives. Frontiers in Materials, 2020, 7, .	1.2	72
159	Stable Seamless Interfaces and Rapid Ionic Conductivity of $\text{Ca}^{2+}/\text{CeO}_2/\text{LiTFSI}/\text{PEO}$ Composite Electrolyte for High-Rate and High-Voltage All-Solid-State Battery. Advanced Energy Materials, 2020, 10, 2000049.	10.2	252
160	In Situ Construction of an Ultra-Stable Conductive Composite Interface for High-Voltage All-Solid-State Lithium Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 11784-11788.	7.2	126
161	Solvent-Free Method Prepared a Sandwich-like Nanofibrous Membrane-Reinforced Polymer Electrolyte for High-Performance All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 21586-21595.	4.0	46
162	Single-atom-layer traps in a solid electrolyte for lithium batteries. Nature Communications, 2020, 11, 1828.	5.8	35

#	ARTICLE	IF	CITATIONS
163	Impact of the Li substructure on the diffusion pathways in alpha and beta Li_3PS_4 : an <i>in situ</i> high temperature neutron diffraction study. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12446-12456.	5.2	37
164	Rational Design of Mixed Electronic-Ionic Conducting Ti -Doping $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ for Lithium Dendrites Suppression. <i>Advanced Functional Materials</i> , 2021, 31, 2001918.	7.8	57
165	Interphases, Interfaces, and Surfaces of Active Materials in Rechargeable Batteries and Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e1905245.	11.1	30
166	Interfacial Effects in Lithium and Sodium Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2001455.	10.2	57
167	Understanding all solid-state lithium batteries through in situ transmission electron microscopy. <i>Materials Today</i> , 2021, 42, 137-161.	8.3	64
168	A Multilayer Ceramic Electrolyte for All-Solid-State Li Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3781-3790.	7.2	71
169	Tailoring grain growth and densification toward a high-performance solid-state electrolyte membrane. <i>Materials Today</i> , 2021, 42, 41-48.	8.3	32
170	Solid-State Li-Metal Batteries: Challenges and Horizons of Oxide and Sulfide Solid Electrolytes and Their Interfaces. <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	312
171	Interface Issues and Challenges in All-Solid-State Batteries: Lithium, Sodium, and Beyond. <i>Advanced Materials</i> , 2021, 33, e2000721.	11.1	248
172	Protecting lithium metal anode in all-solid-state batteries with a composite electrolyte. <i>Rare Metals</i> , 2021, 40, 409-416.	3.6	49
173	Maximizing ionic transport of $\text{Li}_{1+x}\text{Al}_x\text{Ti}_2\text{-xP}_3\text{O}_{12}$ electrolytes for all-solid-state lithium-ion storage: A theoretical study. <i>Journal of Materials Science and Technology</i> , 2021, 73, 45-51.	5.6	12
174	Tailoring percolative conduction networks and reaction interfaces via infusion of polymeric ionic conductor for high-performance solid-state batteries. <i>Chemical Engineering Journal</i> , 2021, 408, 127274.	6.6	5
175	Challenges of today for Na-based batteries of the future: From materials to cell metrics. <i>Journal of Power Sources</i> , 2021, 482, 228872.	4.0	169
176	Inorganic sodium solid-state electrolyte and interface with sodium metal for room-temperature metal solid-state batteries. <i>Energy Storage Materials</i> , 2021, 34, 28-44.	9.5	63
177	Tuning a compatible interface with LLZTO integrated on cathode material for improving NCM811/LLZTO solid-state battery. <i>Chemical Engineering Journal</i> , 2021, 405, 127031.	6.6	36
178	Nano-interface engineering in all-solid-state lithium metal batteries: Tailoring exposed crystal facets of epitaxially grown $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ films. <i>Nano Energy</i> , 2021, 79, 105480.	8.2	20
179	Machine learning-accelerated quantum mechanics-based atomistic simulations for industrial applications. <i>Journal of Computer-Aided Molecular Design</i> , 2021, 35, 557-586.	1.3	29
180	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

#	ARTICLE	IF	CITATIONS
181	Research progress and application prospect of solid-state electrolytes in commercial lithium-ion power batteries. <i>Energy Storage Materials</i> , 2021, 35, 70-87.	9.5	126
182	Improvement of Graphite Interfacial Stability in All-Solid-State Cells Adopting Sulfide Glassy Electrolytes. <i>ChemElectroChem</i> , 2021, 8, 689-696.	1.7	7
183	Fast Li-ion Conductivity in Superadamantanoid Lithium Thioborate Halides. <i>Angewandte Chemie</i> , 2021, 133, 7051-7056.	1.6	2
184	Theoretical study of Na ⁺ transport in the solid-state electrolyte Na ₃ OBr based on deep potential molecular dynamics. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 425-432.	3.0	22
185	Solid Electrolytes for High-Temperature Stable Batteries and Supercapacitors. <i>Advanced Energy Materials</i> , 2021, 11, 2002869.	10.2	64
186	Dimethyl carbonate adsorption enabling enhanced overall electrochemical properties for solid composite electrolyte. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157340.	2.8	6
187	Fast Li-ion Conductivity in Superadamantanoid Lithium Thioborate Halides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6975-6980.	7.2	15
188	A Multilayer Ceramic Electrolyte for All-Solid-State Li Batteries. <i>Angewandte Chemie</i> , 2021, 133, 3825-3834.	1.6	13
189	Scalable Processing Routes for the Production of All-Solid-State Batteries—Modeling Interdependencies of Product and Process. <i>Energy Technology</i> , 2021, 9, 2000665.	1.8	19
190	Fluoro(Phosphates,Sulfates) or (Phosphate,Sulfate) Fluorides: Why Does It Matter?. <i>Advanced Energy Materials</i> , 2021, 11, 2002971.	10.2	6
191	A brief review of recent advances in garnet structured solid electrolyte based lithium metal batteries. <i>Journal of Energy Storage</i> , 2021, 33, 102157.	3.9	48
192	Sn-O dual-doped Li-argyrodite electrolytes with enhanced electrochemical performance. <i>Journal of Energy Chemistry</i> , 2021, 59, 530-537.	7.1	43
193	Structure and ionic conductivity of Na ₃ Sc ₂ Si ₃ P ₃ O ₁₂ (x=0.0, 0.2, 0.4, 0.8) NASICON materials: A combined neutron diffraction, MAS NMR and impedance study. <i>Solid State Sciences</i> , 2021, 111, 106470.	1.5	14
194	Inorganic Solid Electrolytes for All-Solid-State Sodium Batteries: Fundamentals and Strategies for Battery Optimization. <i>Advanced Functional Materials</i> , 2021, 31, 2008165.	7.8	55
195	Modelling Bulk Electrolytes and Electrolyte Interfaces with Atomistic Machine Learning. <i>Batteries and Supercaps</i> , 2021, 4, 585-595.	2.4	29
196	The unusual delamination phenomenon of three kinds of lithium-ion battery separators. <i>Polymer International</i> , 2021, 70, 288-297.	1.6	3
197	Enhanced Li-ion transport in divalent metal-doped Li ₂ SnO ₃ . <i>Dalton Transactions</i> , 2021, 50, 3020-3026.	1.6	6
198	Advanced liquid electrolytes enable practical applications of high-voltage lithium-metal full batteries. <i>Chemical Communications</i> , 2021, 57, 840-858.	2.2	27

#	ARTICLE	IF	CITATIONS
199	Electrode materials and device architecture strategies for flexible supercapacitors in wearable energy storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8099-8128.	5.2	93
200	New Cost-effective Halide Solid Electrolytes for All-solid-state Batteries: Mechanochemically Prepared Fe ³⁺ -Substituted Li ₂ ZrCl ₆ . <i>Advanced Energy Materials</i> , 2021, 11, 2003190.	10.2	132
201	Lithium-ion transport in inorganic active fillers used in PEO-based composite solid electrolyte sheets. <i>RSC Advances</i> , 2021, 11, 31855-31864.	1.7	15
202	Visualizing Lithium Dendrite Formation within Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 451-458.	8.8	77
203	Phase formation through synthetic control: polymorphism in the sodium-ion solid electrolyte Na ₄ P ₂ S ₆ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 8692-8703.	5.2	6
204	Post-lithium-ion battery cell production and its compatibility with lithium-ion cell production infrastructure. <i>Nature Energy</i> , 2021, 6, 123-134.	19.8	612
205	Atomic/molecular layer deposition for energy storage and conversion. <i>Chemical Society Reviews</i> , 2021, 50, 3889-3956.	18.7	109
206	Les batteries sont-elles la bonne option pour un développement durable? <i>Comptes Rendus - Geoscience</i> , 2020, 352, 401-414.	0.4	3
207	In Situ Strain Measurement in Solid-State Li-Ion Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 010516.	1.3	16
208	New insights into Li distribution in the superionic argyrodite Li ₆ PS ₅ Cl. <i>Chemical Communications</i> , 2021, 57, 10787-10790.	2.2	11
209	A renewable future: a comprehensive perspective from materials to systems for next-generation batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3344-3377.	3.2	11
210	Delocalization Transition in Colloidal Crystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1096-1106.	1.5	6
211	Quantitative determination of lithium depletion during rapid cycling in sulfide-based all-solid-state batteries. <i>Chemical Communications</i> , 2021, 57, 3453-3456.	2.2	11
212	Two-Dimensional Substitution: Toward a Better Understanding of the Structure-Transport Correlations in the Li-Superionic Thio-LISICONs. <i>Chemistry of Materials</i> , 2021, 33, 727-740.	3.2	17
213	Two-dimensional materials as a stabilized interphase for the solid-state electrolyte Li ₁₀ GeP ₂ S ₁₂ in lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4810-4821.	5.2	12
214	Elucidating the nature of grain boundary resistance in lithium lanthanum titanate. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6487-6498.	5.2	44
215	Interplay between Li ₃ YX ₆ (X = Cl or Br) solid electrolytes and the Li metal anode. <i>Science China Materials</i> , 2021, 64, 1378-1385.	3.5	21
216	Investigation of alkali and alkaline earth solvation structures in tetraglyme solvent. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26120-26129.	1.3	7

#	ARTICLE	IF	CITATIONS
217	Microstructure and Pressure-Driven Electrodeposition Stability in Solid-State Batteries. Cell Reports Physical Science, 2021, 2, 100301.	2.8	32
218	Ionic Liquid Therapy for Reducing Interfacial Resistance Between Electrode and Ceramic Solid Electrolyte. SSRN Electronic Journal, 0, , .	0.4	0
219	Fundamental air stability in solid-state electrolytes: principles and solutions. Materials Chemistry Frontiers, 2021, 5, 7452-7466.	3.2	22
220	Atomic and molecular layer deposition in pursuing better batteries. Journal of Materials Research, 2021, 36, 2-25.	1.2	22
221	Research progress on the interfaces of solid-state lithium metal batteries. Journal of Materials Chemistry A, 2021, 9, 9481-9505.	5.2	19
222	A mechanistic review of lithiophilic materials: resolving lithium dendrites and advancing lithium metal-based batteries. Materials Chemistry Frontiers, 2021, 5, 6294-6314.	3.2	35
223	Interfacial modification enabled room temperature solid-state lithium-metal batteries. Ionics, 2021, 27, 1569-1578.	1.2	2
224	Chalcogenide-based inorganic sodium solid electrolytes. Journal of Materials Chemistry A, 2021, 9, 5134-5148.	5.2	23
225	Metal-organic frameworks and zeolite materials as active fillers for lithium-ion battery solid polymer electrolytes. Materials Advances, 2021, 2, 3790-3805.	2.6	27
226	Status and prospect of <i>in situ</i> and <i>operando</i> characterization of solid-state batteries. Energy and Environmental Science, 2021, 14, 4672-4711.	15.6	44
227	Anti-perovskites for solid-state batteries: recent developments, current challenges and future prospects. Journal of Materials Chemistry A, 2021, 9, 18746-18772.	5.2	68
228	Linking void and interphase evolution to electrochemistry in solid-state batteries using operando X-ray tomography. Nature Materials, 2021, 20, 503-510.	13.3	194
229	Theoretical insights into the diffusion mechanism of alkali ions in Ruddlesden-Popper antiperovskites. New Journal of Chemistry, 2021, 45, 4219-4226.	1.4	8
230	A composite solid electrolyte with an asymmetric ceramic framework for dendrite-free all-solid-state Li metal batteries. Journal of Materials Chemistry A, 2021, 9, 9665-9674.	5.2	30
231	Interphases for Alkali Metal Anodes. , 2022, , 137-145.		0
232	In Situ Diffusion Measurements of a NASICON-Structured All-Solid-State Battery Using Muon Spin Relaxation. ACS Applied Energy Materials, 2021, 4, 1527-1536.	2.5	13
233	Rethinking the Design of Ionic Conductors Using Meyer-Neldel Conductivity Plot. Advanced Energy Materials, 2021, 11, 2100325.	10.2	24
234	Cold sintering, enabling a route to co-sinter an all-solid-state lithium-ion battery. Japanese Journal of Applied Physics, 2021, 60, 037001.	0.8	22

#	ARTICLE	IF	CITATIONS
235	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. Nano Letters, 2021, 21, 2074-2080.	4.5	37
236	Ultra-high throughput manufacturing method for composite solid-state electrolytes. Science, 2021, 24, 102055.	1.9	8
237	Liquid Alloy Enabled Solid-State Batteries for Conformal Electrode-Electrolyte Interfaces. Advanced Functional Materials, 2021, 31, 21010863.	7.8	29
238	Isotropic Sulfurized Polyacrylonitrile Interlayer with Homogeneous Na ⁺ Flux Dynamics for Solid-State Na Metal Batteries. Advanced Energy Materials, 2021, 11, 2003469.	10.2	31
239	Interfacial Atomistic Mechanisms of Lithium Metal Stripping and Plating in Solid-State Batteries. Advanced Materials, 2021, 33, e2008081.	11.1	53
240	NASICON-Type Na ₃ Zr ₂ Si ₂ PO ₁₂ Solid-State Electrolytes for Sodium Batteries**. ChemElectroChem, 2021, 8, 1035-1047.	1.7	68
241	Electrochemical Properties of Cathode according to the Type of Sulfide Electrolyte and the Application of Surface Coating. Journal of Electrochemical Science and Technology, 2021, 12, 126-136.	0.9	12
242	Influence of Structural Distortion and Lattice Dynamics on Li-Ion Diffusion in Li ₃ OCl _{1-x} Br _x Superionic Conductors. ACS Applied Energy Materials, 2021, 4, 2107-2114.	2.5	16
243	Temperature, Ageing and Thermal Management of Lithium-Ion Batteries. Energies, 2021, 14, 1248.	1.6	54
244	Single-Ion Conducting Polymer Electrolytes for Solid-State Lithium-Metal Batteries: Design, Performance, and Challenges. Advanced Energy Materials, 2021, 11, 2003836.	10.2	206
245	The Obtaining Solid Electrolytes "Ionic Salt-Natural Zeolite". Ecology and Industry of Russia, 2021, 25, 23-27.	0.2	0
246	Microporous structure and mechanical behavior of separators used for lithium-ion battery. Journal of Polymer Research, 2021, 28, 1.	1.2	4
247	Porous Polyamide Skeleton-Reinforced Solid-State Electrolyte: Enhanced Flexibility, Safety, and Electrochemical Performance. ACS Applied Materials & Interfaces, 2021, 13, 11018-11025.	4.0	25
248	Comparative Molecular Dynamics Study of the Roles of Anion-Cation and Cation-Cation Correlation in Cation Diffusion in Li ₂ B ₁₂ H ₁₂ and LiCB ₁₁ H ₁₂ . Chemistry of Materials, 2021, 33, 2357-2369.	3.2	16
249	Dendrites in Solid-State Batteries: Ion Transport Behavior, Advanced Characterization, and Interface Regulation. Advanced Energy Materials, 2021, 11, 2003250.	10.2	69
250	Enhancing Interfacial Contact in Solid-State Batteries with a Gradient Composite Solid Electrolyte. Small, 2021, 17, e2006578.	5.2	32
251	Garnet-Poly(μ -caprolactone-co-trimethylene carbonate) Polymer-in-Ceramic Composite Electrolyte for All-Solid-State Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 2531-2542.	2.5	32
252	Solid-State Electrolytes for Sodium Metal Batteries. Energy & Fuels, 2021, 35, 9063-9079.	2.5	60

#	ARTICLE	IF	CITATIONS
253	Uranyl Peroxide Nanocage Assemblies for Solid-State Electrolytes. ACS Applied Nano Materials, 2021, 4, 3597-3603.	2.4	7
254	Current Trends in Nanoscale Interfacial Electrode Engineering for Sulfide-Based All-Solid-State Li-Ion Batteries. Energy Technology, 2021, 9, 2001096.	1.8	17
255	Functionalized gel polymer electrolyte membrane for high performance Li metal batteries. Solid State Ionics, 2021, 361, 115572.	1.3	10
256	Mechanistic Origin of Superionic Lithium Diffusion in Anion-Disordered $\text{Li}_6\text{PS}_5\text{X}$ Argyrodites. Chemistry of Materials, 2021, 33, 2004-2018.	3.2	63
257	Effect of surface carbonates on the cyclability of LiNbO_3 -coated NCM622 in all-solid-state batteries with lithium thiophosphate electrolytes. Scientific Reports, 2021, 11, 5367.	1.6	21
258	Electrochemical Performance of Li_xSiO_n Polymer Electrolytes Derived from an Agriculture Waste Product, Rice Hull Ash. ACS Applied Polymer Materials, 2021, 3, 2144-2152.	2.0	2
259	First-Principles Study of Microscopic Electrochemistry at the LiCoO_2 /Cathode/ LiNbO_3 Coating/ Li_3PS_4 Solid Electrolyte Interfaces in an All-Solid-State Battery. ACS Applied Materials & Interfaces, 2021, 13, 11765-11773.	4.0	29
260	Manipulating Nonlinear Optical Response via Domain Control in Nanocrystal-In-Glass Composites. Advanced Materials, 2021, 33, e2006482.	11.1	11
261	Tailoring Slurries Using Cosolvents and Li Salt Targeting Practical All-Solid-State Batteries Employing Sulfide Solid Electrolytes. Advanced Energy Materials, 2021, 11, 2003766.	10.2	41
262	The Working Principle of a $\text{Li}_2\text{CO}_3/\text{LiNbO}_3$ Coating on NCM for Thiophosphate-Based All-Solid-State Batteries. Chemistry of Materials, 2021, 33, 2110-2125.	3.2	116
264	Interfacial Chemistry Enables Stable Cycling of All-Solid-State Li Metal Batteries at High Current Densities. Journal of the American Chemical Society, 2021, 143, 6542-6550.	6.6	200
265	A Decade of Progress on Solid-State Electrolytes for Secondary Batteries: Advances and Contributions. Advanced Functional Materials, 2021, 31, 2100891.	7.8	73
266	Mechanochemical synthesis of Li_2OHI with enhanced lithium ionic conductivity. Functional Materials Letters, 2021, 14, 2150012.	0.7	0
267	Enhancing the Thermal Stability of NASICON Solid Electrolyte Pellets against Metallic Lithium by Defect Modification. ACS Applied Materials & Interfaces, 2021, 13, 18743-18749.	4.0	29
268	Designed high-performance lithium-ion battery electrodes using a novel hybrid model-data driven approach. Energy Storage Materials, 2021, 36, 435-458.	9.5	55
269	Metal-Organic Frameworks Nanocomposites with Different Dimensionalities for Energy Conversion and Storage. Advanced Energy Materials, 2022, 12, 2100346.	10.2	86
270	Quasi-Solid-State Electrolytes for Lithium-Ion Batteries. , 2021, , 113-137.		0
271	Battery Materials Design Essentials. Accounts of Materials Research, 2021, 2, 319-326.	5.9	24

#	ARTICLE	IF	CITATIONS
272	Editorsâ€™ Choiceâ€”Quantifying the Impact of Charge Transport Bottlenecks in Composite Cathodes of All-Solid-State Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 040537.	1.3	97
273	Atomistic Insights into the Effects of Doping and Vacancy Clustering on Li-Ion Conduction in the $\text{Li}_{1-x}\text{Al}_x\text{OCl}$ Antiperovskite Solid Electrolyte. <i>ACS Applied Energy Materials</i> , 2021, 4, 5094-5100.	2.5	24
274	High Performance Composite Polymer Electrolytes for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101380.	7.8	151
275	Maintaining a Flat Li Surface during the Li Stripping Process via Interface Design. <i>Chemistry of Materials</i> , 2021, 33, 2814-2823.	3.2	25
276	Insights into the reactive sintering and separated specific grain/grain boundary conductivities of $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$. <i>Journal of Power Sources</i> , 2021, 492, 229631.	4.0	40
277	A highly stable and flexible zeolite electrolyte solid-state Li-air battery. <i>Nature</i> , 2021, 592, 551-557.	13.7	306
278	Interactions are important: Linking multi-physics mechanisms to the performance and degradation of solid-state batteries. <i>Materials Today</i> , 2021, 49, 145-183.	8.3	51
279	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
280	Fast Ion-Conducting Thioboracite with a Perovskite Topology and Argyrodite-like Lithium Substructure. <i>Journal of the American Chemical Society</i> , 2021, 143, 6952-6961.	6.6	16
281	Designing inorganic electrolytes for solid-state Li-ion batteries: A perspective of LGPS and garnet. <i>Materials Today</i> , 2021, 50, 418-441.	8.3	59
282	Visualizing plating-induced cracking in lithium-anode solid-electrolyte cells. <i>Nature Materials</i> , 2021, 20, 1121-1129.	13.3	221
283	X-ray Nanoimaging of Crystal Defects in Single Grains of Solid-State Electrolyte $\text{Li}_{1-x}\text{Al}_x\text{OCl}$. <i>Nano Letters</i> , 2021, 21, 4570-4576.	4.5	13
284	Insights into the Electrochemical Stability and Lithium Conductivity of Li_4MS_4 (M = Si, Ge, and Sn). <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22438-22447.	4.0	7
285	Dislocations in ceramic electrolytes for solid-state Li batteries. <i>Scientific Reports</i> , 2021, 11, 8949.	1.6	14
286	A Polar and Ordered-Channel Composite Separator Enables Antidendrite and Long-Cycle Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25890-25897.	4.0	7
287	Li-ion conductivity of NASICON-type $\text{Li}_{1+2x}\text{Zr}_{2-x}\text{Ca}_x(\text{PO}_4)_3$ solid electrolyte prepared by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158641.	2.8	9
288	Designing Polymer-Salt Electrolyte and Fully Infiltrated 3D Electrode for Integrated Solid-State Lithium Batteries. <i>Angewandte Chemie</i> , 2021, 133, 13041-13050.	1.6	30
289	Zeolite-based Electrolyte Accelerating the Realization of Solid-state Li-Air Battery. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 801-802.	1.3	9

#	ARTICLE	IF	CITATIONS
290	Quasi-Solid-State Li ⁺ O ₂ Batteries Performance Enhancement Using an Integrated Composite Polymer-Based Architecture. ACS Applied Energy Materials, 2021, 4, 6221-6232.	2.5	8
291	Innovative Approaches to Li-Argyrodite Solid Electrolytes for All-Solid-State Lithium Batteries. Accounts of Chemical Research, 2021, 54, 2717-2728.	7.6	121
292	Pressure-Driven and Creep-Enabled Interface Evolution in Sodium Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 26533-26541.	4.0	12
293	Temperature Dependence of Lithium Anode Voiding in Argyrodite Solid-State Batteries. ACS Applied Materials & Interfaces, 2021, 13, 22708-22716.	4.0	38
294	Designing Polymer-In-Salt Electrolyte and Fully Infiltrated 3D Electrode for Integrated Solid-State Lithium Batteries. Angewandte Chemie - International Edition, 2021, 60, 12931-12940.	7.2	202
295	Smart Construction of an Intimate Lithium Garnet Interface for All-Solid-State Batteries by Tuning the Tension of Molten Lithium. Advanced Functional Materials, 2021, 31, 2101556.	7.8	97
296	A Stretchable and Safe Polymer Electrolyte with a Protecting Layer Strategy for Solid-State Lithium Metal Batteries. Advanced Science, 2021, 8, 2003241.	5.6	46
297	Electrochemical Impedance Spectroscopy for All-Solid-State Batteries: Theory, Methods and Future Outlook. ChemElectroChem, 2021, 8, 1930-1947.	1.7	176
298	Strategies to anode protection in lithium metal battery: A review. Informa An-Materially, 2021, 3, 1333-1363.	8.5	140
299	Solid-state rigid-rod polymer composite electrolytes with nanocrystalline lithium ion pathways. Nature Materials, 2021, 20, 1255-1263.	13.3	110
300	Break-Even Analysis of All-Solid-State Batteries with Li-Garnet Solid Electrolytes. ACS Energy Letters, 2021, 6, 2202-2207.	8.8	32
301	Na ₂ ZrCl ₆ enabling highly stable 3 V all-solid-state Na-ion batteries. Energy Storage Materials, 2021, 37, 47-54.	9.5	53
302	Tailoring inorganic-polymer composites for the mass production of solid-state batteries. Nature Reviews Materials, 2021, 6, 1003-1019.	23.3	409
304	Particles in composite polymer electrolyte for solid-state lithium batteries: A review. Particuology, 2022, 60, 14-36.	2.0	57
305	Atomistic Mechanisms Underlying Non-Arrhenius Ion Transport in Superionic Conductor AgCrSe ₂ . ACS Applied Energy Materials, 2021, 4, 7157-7167.	2.5	10
306	Building a C-P bond to unlock the reversible and fast lithium storage performance of black phosphorus in all-solid-state lithium-ion batteries. Materials Today Energy, 2021, 20, 100662.	2.5	5
307	Cross-Linked Chains of Metal-Organic Framework Afford Continuous Ion Transport in Solid Batteries. ACS Energy Letters, 2021, 6, 2434-2441.	8.8	67
308	Sparse ab initio x-ray transmission spectromotography for nanoscopic compositional analysis of functional materials. Science Advances, 2021, 7, .	4.7	16

#	ARTICLE	IF	CITATIONS
309	Operando analysis of the molten Li LLZO interface: Understanding how the physical properties of Li affect the critical current density. <i>Matter</i> , 2021, 4, 1947-1961.	5.0	62
310	Structural, electrical and electrochemical studies of ionic liquid-based polymer gel electrolyte using magnesium salt for supercapacitor application. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	21
311	Li-Ion Conductivity Enhancement of $\text{LiBH}_4 \cdot \text{NH}_3$ with <i>In Situ</i> Formed Li_2O Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31635-31641.	4.0	14
312	Lithium Ytterbium-Based Halide Solid Electrolytes for High Voltage All-Solid-State Batteries. , 2021, 3, 930-938.		80
313	Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2100748.	10.2	129
314	Experimental and Computational Study of Lithium Salt-/Plastic Crystal-Assisted Ionogels. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 935-947.	1.7	3
315	On processing structure-conductivity relations in NASICON-type $\text{LiSn}_2(\text{PO}_4)_3$. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	0
316	All-Solid-State Li-Ion Batteries Using a Combination of $\text{Sb}_2\text{S}_3/\text{Li}_2\text{S-P}_2\text{S}_5/\text{Acetylene Black}$ as the Electrode Composite and LiBH_4 as the Electrolyte. <i>ACS Applied Energy Materials</i> , 2021, 4, 6269-6276.	2.5	5
317	Good Solid-State Electrolytes Have Low, Glass-Like Thermal Conductivity. <i>Small</i> , 2021, 17, e2101693.	5.2	23
318	Impedance spectroscopy studies of the chlorophosphate glasses. <i>Materials Today: Proceedings</i> , 2022, 51, 2022-2026.	0.9	5
319	Defect Engineering and Anisotropic Modulation of Ionic Transport in Perovskite Solid Electrolyte $\text{Li}_x\text{La}_{(1-x)}/3\text{NbO}_3$. <i>Molecules</i> , 2021, 26, 3559.	1.7	7
320	Room-temperature fast zinc-ion conduction in molecule-flexible solids. <i>Materials Today Energy</i> , 2021, 20, 100630.	2.5	16
321	Solid-State Post Li Metal Ion Batteries: A Sustainable Forthcoming Reality?. <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	49
322	Exploring Aliovalent Substitutions in the Lithium Halide Superionic Conductor $\text{Li}_3\text{In}_2\text{ZrCl}_6$ (0.78) $\text{Li}_3\text{In}_2\text{ZrCl}_6$ (0.78)		0.78
323	Synthesis and Characterization of Lithium-Ion Conductive LATP-LaPO ₄ Composites Using La ₂ O ₃ Nano-Powder. <i>Materials</i> , 2021, 14, 3502.	1.3	9
324	Modification strategies of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ ceramic electrolyte for high-performance solid-state batteries. <i>Tungsten</i> , 2021, 3, 260-278.	2.0	17
325	Design Principles and Applications of Next-Generation High-Energy-Density Batteries Based on Liquid Metals. <i>Advanced Materials</i> , 2021, 33, e2100052.	11.1	38
326	Comprehensive Insights into Electrolytes and Solid Electrolyte Interfaces in Potassium-Ion Batteries. <i>Energy Storage Materials</i> , 2021, 38, 30-49.	9.5	72

#	ARTICLE	IF	CITATIONS
327	Unveiling Interfacial Li-Ion Dynamics in $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}/\text{PEO}(\text{LiTFSI})$ Composite Polymer-Ceramic Solid Electrolytes for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30653-30667.	4.0	25
328	In situ monitoring nanoscale solid-state phase transformation of Ag nanowire during electrochemical reaction. <i>Scripta Materialia</i> , 2021, 199, 113835.	2.6	1
329	A large enhancement of ionic conductivity in $\text{SrCoO}_{2.5}$ controlled by isostructural phase transition and negative linear compressibility. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	2
330	<i>In Situ</i> / <i>Operando</i> Methods of Characterizing All-Solid-State Li-Ion Batteries: Understanding Li-Ion Transport during Cycle. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16921-16937.	1.5	9
331	Experimental Evaluation of Influence of Stress on Li Chemical Potential and Phase Equilibrium in Two-phase Battery Electrode Materials. <i>Electrochemistry</i> , 2021, 89, 355-362.	0.6	6
332	Boosting the Electrochemical Performance of All-Solid-State Batteries with Sulfide $\text{Li}_6\text{PS}_5\text{Cl}$ Solid Electrolyte Using Li_2WO_4 -Coated LiCoO_2 Cathode. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100624.	1.9	20
333	A High-Capacity, Long-Cycling All-Solid-State Lithium Battery Enabled by Integrated Cathode/Ultrathin Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021, 11, 2101612.	10.2	45
334	Blocking lithium dendrite growth in solid-state batteries with an ultrathin amorphous Li-La-Zr-O solid electrolyte. <i>Communications Materials</i> , 2021, 2, .	2.9	45
335	Extending insertion electrochemistry to soluble layered halides with superconcentrated electrolytes. <i>Nature Materials</i> , 2021, 20, 1545-1550.	13.3	25
336	Strontium Stannate as an Alternative Anode Material for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14947-14956.	1.5	9
337	Recent Advances of Composite Solid-State Electrolytes for Lithium-Based Batteries. <i>Energy & Fuels</i> , 2021, 35, 11118-11140.	2.5	16
338	High-Temperature Ultrafast Sintering: Exploiting a New Kinetic Region to Fabricate Porous Solid-State Electrolyte Scaffolds. <i>Advanced Materials</i> , 2021, 33, e2100726.	11.1	24
339	A cost-effective and humidity-tolerant chloride solid electrolyte for lithium batteries. <i>Nature Communications</i> , 2021, 12, 4410.	5.8	141
340	Interface regulation enabling three-dimensional $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ -reinforced composite solid electrolyte for high-performance lithium batteries. <i>Journal of Power Sources</i> , 2021, 501, 230027.	4.0	37
341	Characterization of cathode-electrolyte interface in all-solid-state batteries using TOF-SIMS, XPS, and UPS/LEIPS. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021, 39, .	0.6	12
342	Insights into the Rich Polymorphism of the Na^+ Ion Conductor Na_3PS_4 from the Perspective of Variable-Temperature Diffraction and Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 5652-5667.	3.2	23
343	Current Status and Prospects of Solid-State Batteries as the Future of Energy Storage. , 0, , .		1
344	Roadmap on inorganic perovskites for energy applications. <i>JPhys Energy</i> , 2021, 3, 031502.	2.3	40

#	ARTICLE	IF	CITATIONS
345	Antiperovskite K_3OI for K-Ion Solid State Electrolyte. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7120-7126.	2.1	33
346	In situ formation of polymer-inorganic solid-electrolyte interphase for stable polymeric solid-state lithium-metal batteries. <i>CheM</i> , 2021, 7, 3052-3068.	5.8	76
347	Investigation of Delamination-Induced Performance Decay at the Cathode/LLZO Interface. <i>Chemistry of Materials</i> , 2021, 33, 5527-5541.	3.2	24
348	Antiperovskite Ionic Conductor Layer for Stabilizing the Interface of NASICON Solid Electrolyte Against Li Metal in All-Solid-State Batteries**. <i>Batteries and Supercaps</i> , 2021, 4, 1491-1498.	2.4	23
349	Improved ionic conductivity of $Na_3+Sc Zr_2-Si_2PO_{12}$ ($x=0.2, 0.3, 0.4, 0.5$) NASICON via optimized sintering conditions: Investigation of crystal structure, local atomic structure, and microstructure. <i>Chemical Physics Letters</i> , 2021, 776, 138706.	1.2	11
350	Modified $Li_7P_3S_{11}$ Glass-Ceramic Electrolyte and Its Characterization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37071-37081.	4.0	12
351	Roadmap of Solid-State Lithium-Organic Batteries toward $500 Wh kg^{-1}$. <i>ACS Energy Letters</i> , 2021, 6, 3287-3306.	8.8	31
352	Optimizing Electrode/Electrolyte Interphases and Li-Ion Flux/Solvation for Lithium-Metal Batteries with Quasi-Functional Heptafluorobutyric Anhydride. <i>Angewandte Chemie</i> , 2021, 133, 20885-20890.	1.6	17
353	Computational Search for Novel Zn-Ion Conductors: A Crystallochemical, Bond Valence, and Density Functional Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17590-17599.	1.5	12
354	Comparison of $LiTaO_3$ and $LiNbO_3$ Surface Layers Prepared by Post- and Precursor-Based Coating Methods for Ni-Rich Cathodes of All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38333-38345.	4.0	51
355	Optimizing Electrode/Electrolyte Interphases and Li-Ion Flux/Solvation for Lithium-Metal Batteries with Quasi-Functional Heptafluorobutyric Anhydride. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20717-20722.	7.2	175
356	Review on the critical issues for the realization of all-solid-state lithium metal batteries with garnet electrolyte: interfacial chemistry, dendrite growth, and critical current densities. <i>Ionics</i> , 2021, 27, 4105-4126.	1.2	24
357	Improved ionic conductivity and battery function in a lithium iodide solid electrolyte via particle size modification. <i>Electrochimica Acta</i> , 2021, 388, 138569.	2.6	6
358	Interfacial Defect of Lithium Metal in Solid-State Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21494-21501.	7.2	20
359	Synthesis Optimization of Electrochemically Active $LiCoMnO_4$ for High-Voltage Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 13449-13456.	2.5	1
360	Electrochemically-Matched and Nonflammable Janus Solid Electrolyte for Lithium-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39271-39281.	4.0	16
361	Universal Machine Learning Interatomic Potentials: Surveying Solid Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8115-8120.	2.1	45
362	Review: Inorganic Solid State Electrolytes: Insights on Current and Future Scope. <i>Journal of the Electrochemical Society</i> , 2021, 168, 080536.	1.3	11

#	ARTICLE	IF	CITATIONS
363	Interfacial Defect of Lithium Metal in Solid-State Batteries. <i>Angewandte Chemie</i> , 2021, 133, 21664-21671.	1.6	7
364	Coupled crack propagation and dendrite growth in solid electrolyte of all-solid-state battery. <i>Nano Energy</i> , 2021, 86, 106057.	8.2	51
365	First-Principles Prediction of the Electrochemical Stability and Reaction Mechanisms of Solid-State Electrolytes. <i>JACS</i> , 2021, 1, 1488-1496.	3.6	31
366	Computational discovery of energy materials in the era of big data and machine learning: A critical review. <i>Materials Reports Energy</i> , 2021, 1, 100047.	1.7	24
367	A detailed characterisation study of Li ₆ PS ₅ Cl ionic conductors from several synthetic routes. <i>Solid State Sciences</i> , 2021, 118, 106681.	1.5	9
368	Lithium solid-state batteries: State-of-the-art and challenges for materials, interfaces and processing. <i>Journal of Power Sources</i> , 2021, 502, 229919.	4.0	92
369	Review of Electrolyte and Electrode Designs for Enhanced Ion Transport Properties to Enable High Performance Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090501.	1.3	33
370	From High- to Low-Temperature: The Revival of Sodium-Beta Alumina for Sodium Solid-State Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	29
371	A Perspective on the Commercial Viability of Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100401.	3.1	33
372	Garnet-type solid electrolyte: Advances of ionic transport performance and its application in all-solid-state batteries. <i>Journal of Advanced Ceramics</i> , 2021, 10, 933-972.	8.9	64
373	All-solid lithium-sulfur batteries: present situation and future progress. <i>Ionics</i> , 2021, 27, 4937-4960.	1.2	9
374	Devil is in the Defects: Electronic Conductivity in Solid Electrolytes. <i>Chemistry of Materials</i> , 2021, 33, 7484-7498.	3.2	49
375	Improved battery performance of silicon modified Na _{0.67} Fe _{0.5} Mn _{0.5} O ₂ and its structural and electrochemical properties: An investigation of infrared thermal imaging. <i>Journal of Energy Storage</i> , 2021, 41, 102979.	3.9	5
376	Heavily Tungsten-Doped Sodium Thioantimonate Solid-State Electrolytes with Exceptionally Low Activation Energy for Ionic Diffusion. <i>Angewandte Chemie</i> , 2021, 133, 26362-26370.	1.6	2
377	Progress in solid-state high voltage lithium-ion battery electrolytes. <i>Advances in Applied Energy</i> , 2021, 4, 100070.	6.6	36
378	Enhanced interfacial kinetics and fast Na ⁺ conduction of hybrid solid polymer electrolytes for all-solid-state batteries. <i>Energy Storage Materials</i> , 2021, 43, 463-470.	9.5	7
379	An advance review of solid-state battery: Challenges, progress and prospects. <i>Sustainable Materials and Technologies</i> , 2021, 29, e00297.	1.7	74
380	Sheet-type all-solid-state batteries with sulfidic electrolytes: Analysis of kinetic limitations based on a cathode morphology study. <i>Journal of Power Sources</i> , 2021, 505, 230064.	4.0	15

#	ARTICLE	IF	CITATIONS
381	Heavily Tungsten-Doped Sodium Thioantimonate Solid-State Electrolytes with Exceptionally Low Activation Energy for Ionic Diffusion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26158-26166.	7.2	18
382	Interface engineering for composite cathodes in sulfide-based all-solid-state lithium batteries. <i>Journal of Energy Chemistry</i> , 2021, 60, 32-60.	7.1	64
383	Low-sintering-temperature garnet oxides by conformal sintering-aid coating. <i>Cell Reports Physical Science</i> , 2021, 2, 100569.	2.8	28
384	A review of technologies and applications on versatile energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111263.	8.2	192
385	Perovskite Quantum Dots for Lewis Acid-Base Interactions and Interface Engineering in Lithium-Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 11470-11479.	2.5	7
386	Robust and high thermal-stable composite polymer electrolyte reinforced by PI nanofiber network. <i>Nanotechnology</i> , 2021, 32, 495401.	1.3	9
387	Constructing layer/tunnel biphasic Na _{0.6} Fe _{0.04} Mn _{0.96} O ₂ enables simultaneous kinetics enhancement and phase transition suppression for high power/energy density sodium-ion full cell. <i>Energy Storage Materials</i> , 2021, 40, 320-328.	9.5	19
388	TEM Observation of LaPO ₄ -Dispersed LTP Lithium-Ion Conductor. <i>Electrochemistry</i> , 2021, 89, 480-483.	0.6	0
389	Identifying Migration Channels and Bottlenecks in Monoclinic NASICON-Type Solid Electrolytes with Hierarchical Ion Transport Algorithms. <i>Advanced Functional Materials</i> , 2021, 31, 2107747.	7.8	33
390	High-safety separators for lithium-ion batteries and sodium-ion batteries: advances and perspective. <i>Energy Storage Materials</i> , 2021, 41, 522-545.	9.5	227
391	Revisiting TiS ₂ as a diffusion-dependent cathode with promising energy density for all-solid-state lithium secondary batteries. <i>Energy Storage Materials</i> , 2021, 41, 289-296.	9.5	28
392	Well-dispersed single-crystalline nickel-rich cathode for long-life high-voltage all-solid-state batteries. <i>Journal of Power Sources</i> , 2021, 508, 230335.	4.0	21
393	Na ₅ YSi ₄ O ₁₂ : A sodium superionic conductor for ultrastable quasi-solid-state sodium-ion batteries. <i>Energy Storage Materials</i> , 2021, 41, 196-202.	9.5	23
394	A high-performance, solution-processable polymer/ceramic/ionic liquid electrolyte for room temperature solid-state Li metal batteries. <i>Nano Energy</i> , 2021, 89, 106351.	8.2	27
395	Functional polymers for lithium metal batteries. <i>Progress in Polymer Science</i> , 2021, 122, 101453.	11.8	39
396	Chemical interface engineering of solid garnet batteries for long-life and high-rate performance. <i>Chemical Engineering Journal</i> , 2021, 424, 130423.	6.6	25
397	Reactive surface coating of metallic lithium and its role in rechargeable lithium metal batteries. <i>Electrochimica Acta</i> , 2021, 397, 139270.	2.6	7
398	A Machine Learning Shortcut for Screening the Spinel Structures of Mg/Zn Ion Battery Cathodes with a High Conductivity and Rapid Ion Kinetics. <i>Energy Storage Materials</i> , 2021, 42, 277-285.	9.5	18

#	ARTICLE	IF	CITATIONS
399	N,S-codoped carbon dots as deposition regulating electrolyte additive for stable lithium metal anode. <i>Energy Storage Materials</i> , 2021, 42, 679-686.	9.5	43
400	Novel Bi ³⁺ /Eu ³⁺ co-doped oxyfluoride transparent KY3F10 glass ceramics with wide tunable emission and high optical temperature sensitivity. <i>Journal of Luminescence</i> , 2021, 239, 118366.	1.5	9
401	A thin and flexible solid electrolyte templated by controllable porous nanocomposites toward extremely high performance all-solid-state lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 425, 130632.	6.6	30
402	Designing composite polymer electrolytes for all-solid-state lithium batteries. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100828.	2.5	15
403	An all coupled electrochemical-mechanical model for all-solid-state Li-ion batteries considering the effect of contact area loss and compressive pressure. <i>Energy</i> , 2022, 239, 121929.	4.5	11
404	Zeolite membranes: Synthesis and applications. <i>Separation and Purification Technology</i> , 2021, 278, 119295.	3.9	46
405	Advances and prospects of PVDF based polymer electrolytes. <i>Journal of Energy Chemistry</i> , 2022, 64, 62-84.	7.1	188
406	Identifying a Li-rich superionic conductor from charge/discharge structural evolution study: Li ₂ MnO ₃ . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4829-4834.	1.3	2
407	Lithium Molybdenum Borate Glasses Doped with Cu ²⁺ ions as Solid Electrolytes. <i>Journal of the Institution of Engineers (India): Series E, O, , 1</i> .	0.5	1
408	Stable cycling via absolute intercalation in graphite-based lithium-ion battery incorporated by solidified ether-based polymer electrolyte. <i>Materials Advances</i> , 2021, 2, 3898-3905.	2.6	4
409	Enhanced room temperature ionic conductivity of the LiBH ₄ ·1/2NH ₃ ·Al ₂ O ₃ composite. <i>Chemical Communications</i> , 2021, 57, 2380-2383.	2.2	16
410	Resistance to fracture in the glassy solid electrolyte Lipon. <i>Journal of Materials Research</i> , 2021, 36, 787-796.	1.2	21
411	Electrochemical energy storage devices working in extreme conditions. <i>Energy and Environmental Science</i> , 2021, 14, 3323-3351.	15.6	140
412	Flexible Composite Solid Electrolyte with an Active Inorganic Filler. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2237-2245.	3.2	13
413	A kinetically stable anode interface for Li ₃ YCl ₆ -based all-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15012-15018.	5.2	39
414	Chapter 5. 2D Nanomaterial-based Polymer Composite Electrolytes for Lithium-based Batteries. <i>Inorganic Materials Series</i> , 2021, , 204-274.	0.5	2
415	Tri-Doping of Sol-Gel Synthesized Garnet-Type Oxide Solid-State Electrolyte. <i>Micromachines</i> , 2021, 12, 134.	1.4	10
416	Constructing Li-Rich Artificial SEI Layer in Alloy Polymer Composite Electrolyte to Achieve High Ionic Conductivity for All-Solid-State Lithium Metal Batteries. <i>Advanced Materials</i> , 2021, 33, e2004711.	11.1	82

#	ARTICLE	IF	CITATIONS
417	NMR Studies of Oxide-type Solid State Electrolytes in All Solid State Batteries. New Developments in NMR, 2021, , 297-322.	0.1	0
418	Flexible poly(vinylidene fluoride-co-hexafluoropropylene)-based gel polymer electrolyte for high-performance lithium-ion batteries. RSC Advances, 2021, 11, 11943-11951.	1.7	27
419	A dramatic reduction in the sintering temperature of the refractory sodium Na^2O -alumina solid electrolyte via cold sintering. Journal of Materials Chemistry A, 2021, 9, 22002-22014.	5.2	11
420	Recent progress in aqueous zinc-ion batteries: a deep insight into zinc metal anodes. Journal of Materials Chemistry A, 2021, 9, 6013-6028.	5.2	105
421	Supercapacitors: History, Theory, Emerging Technologies, and Applications. , 2021, , 417-449.		2
422	Progress and Challenges for All-Solid-State Sodium Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2000057.	2.8	49
423	Crystalline LiPON as a Bulk-Type Solid Electrolyte. ACS Energy Letters, 2021, 6, 445-450.	8.8	43
424	Phonon-Ion Interactions: Designing Ion Mobility Based on Lattice Dynamics. Advanced Energy Materials, 2021, 11, 2002787.	10.2	55
425	Cell failures of all-solid-state lithium metal batteries with inorganic solid electrolytes: Lithium dendrites. Energy Storage Materials, 2020, 33, 309-328.	9.5	63
426	Critical interface between inorganic solid-state electrolyte and sodium metal. Materials Today, 2020, 41, 200-218.	8.3	62
427	Visualizing Lithium Distribution and Degradation of Composite Electrodes in Sulfide-based All-Solid-State Batteries Using Operando Time-of-Flight Secondary Ion Mass Spectrometry. ACS Applied Materials & Interfaces, 2021, 13, 580-586.	4.0	28
428	High Ionic Conductivity Achieved in $\text{Li}_3\text{Y}(\text{Br}_3\text{Cl}_3)$ Mixed Halide Solid Electrolyte via Promoted Diffusion Pathways and Enhanced Grain Boundary. ACS Energy Letters, 2021, 6, 298-304.	8.8	84
429	2020 roadmap on solid-state batteries. JPhys Energy, 2020, 2, 032008.	2.3	74
430	Modelling and understanding battery materials with machine-learning-driven atomistic simulations. JPhys Energy, 2020, 2, 041003.	2.3	51
431	Computational and experimental (re)investigation of the structural and electrolyte properties of $\text{Li}_4\text{P}_2\text{S}_6$. Physical Review Materials, 2020, 4, .	0.9	
432	The Role of Local Inhomogeneities on Dendrite Growth in LLZO-Based Solid Electrolytes. Journal of the Electrochemical Society, 2020, 167, 100537.	1.3	51
433	Mechanical failures in solid-state lithium batteries and their solution. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 226201.	0.2	5
434	Atomic-scale investigation of cation doping and defect clustering in the anti-perovskite Na_3OCl sodium-ion conductor. Journal of Materials Chemistry A, 2022, 10, 2249-2255.	5.2	21

#	ARTICLE	IF	CITATIONS
435	Anharmonic lattice dynamics of superionic lithium nitride. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2295-2304.	5.2	9
436	A novel polymer electrolyte with high elasticity and high performance for lithium metal batteries. <i>Chemical Communications</i> , 2021, 57, 11493-11496.	2.2	3
437	A critical discussion on the analysis of buried interfaces in Li solid-state batteries. <i>Ex situ</i> and <i>in situ</i> operando studies. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25341-25368.	5.2	14
438	Configuring solid-state batteries to power electric vehicles: a deliberation on technology, chemistry and energy. <i>Chemical Communications</i> , 2021, 57, 12587-12594.	2.2	18
439	A Flexible, Fireproof, Composite Polymer Electrolyte Reinforced by Electrospun Polyimide for Room-Temperature Solid-State Batteries. <i>Polymers</i> , 2021, 13, 3622.	2.0	7
440	Synthesis of Electrospun NASICON $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ Solid Electrolyte Nanofibers by Control of Germanium Hydrolysis. <i>Journal of the Electrochemical Society</i> , 2021, 168, 110512.	1.3	6
441	Perspectives for next generation lithium-ion battery cathode materials. <i>APL Materials</i> , 2021, 9, .	2.2	44
442	Progress of Solid-State Electrolytes Used in Organic Secondary Batteries. <i>ChemElectroChem</i> , 0, , .	1.7	1
443	Visualization of Solid-State Synthesis for Chalcogenide Na Superionic Conductors by <i>in situ</i> Neutron Diffraction. <i>ChemSusChem</i> , 2021, 14, 5161-5166.	3.6	1
444	Separator Wettability Enhanced by Electrolyte Additive to Boost the Electrochemical Performance of Lithium Metal Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 210.	14.4	8
445	Universal ether-based electrolyte chemistry towards high voltage and long life Na-ion full batteries. <i>Angewandte Chemie</i> , 0, , .	1.6	15
446	Reaction of $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ and $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ in Co-Sintered Composite Cathodes for Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47488-47498.	4.0	20
447	Quantification of the Li-ion diffusion over an interface coating in all-solid-state batteries via NMR measurements. <i>Nature Communications</i> , 2021, 12, 5943.	5.8	36
448	Ether-Based Electrolyte Chemistry Towards High Voltage and Long Life Na-ion Full Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26837-26846.	7.2	147
449	Elastic Modulus, Hardness, and Fracture Toughness of $\text{Li}_{6.4}\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$ Solid Electrolyte. <i>Chinese Physics Letters</i> , 2021, 38, 098401.	1.3	7
450	Understanding fast-ion conduction in solid electrolytes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190451.	1.6	12
451	Zeolitic imidazolate framework enables practical room-temperature operation of solid-state lithium batteries. <i>Materials Today Physics</i> , 2021, 21, 100554.	2.9	6
452	Computational Auxiliary for the Progress of Sodium-Ion Solid-State Electrolytes. <i>ACS Nano</i> , 2021, 15, 17232-17246.	7.3	42

#	ARTICLE	IF	CITATIONS
453	On the Origin of Zero Interface Resistance in the $\text{Li}_{6.25}\text{Al}_{0.25}\text{La}_3\text{Zr}_2\text{O}_{12}$ Li_0 System: An Atomistic Investigation. ACS Applied Materials & Interfaces, 2021, 13, 52629-52635.	4.0	4
454	Anode interface in all-solid-state lithium-metal batteries: Challenges and strategies. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 228805.	0.2	5
455	Multiscale Modelling and Simulation of Advanced Battery Materials. SEMA SIMAI Springer Series, 2021, , 69-113.	0.4	2
456	Reduction of Grain Boundary Resistance of $\text{La}_{0.5}\text{Li}_{0.5}\text{TiO}_3$ by the Addition of Organic Polymers. Nanomaterials, 2021, 11, 61.	1.9	4
457	The role and the necessary features of electrolytes for microsupercapacitors. , 2022, , 47-116.		3
458	Structural details in Li_3PS_4 : Variety in thiophosphate building blocks and correlation to ion transport. Energy Storage Materials, 2022, 44, 168-179.	9.5	16
459	Physical issues in solid garnet batteries. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 228804.	0.2	4
460	Brief overview of microscopic physical image of ion transport in electrolytes. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 226601.	0.2	27
461	Two-Dimensional Cu_2MoS_4 -Loaded Silicon Nanospheres as an Anode for High-Performance Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 13061-13069.	2.5	10
462	Emerging Characterization Techniques for Electrode Interfaces in Sulfide-Based All-Solid-State Lithium Batteries. Small Structures, 2022, 3, 2100146.	6.9	21
463	Perspectives in Electrochemical in-situ Structural Reconstruction of Cathode Materials for Multivalent-ion Storage. Energy and Environmental Materials, 2023, 6, .	7.3	23
464	Origin of high electrochemical stability of multi-metal chloride solid electrolytes for high energy all-solid-state lithium-ion batteries. Nano Energy, 2022, 92, 106674.	8.2	36
465	Atomic and molecular layer deposition in pursuing better batteries. Journal of Materials Research, 0, , 1-24.	1.2	1
466	Fast Na diffusion and anharmonic phonon dynamics in superionic Na_3PS_4 . Energy and Environmental Science, 2021, 14, 6554-6563.	15.6	36
467	All-solid-state hybrid electrode configuration for high-performance all-solid-state batteries: Comparative study with composite electrode and diffusion-dependent electrode. Journal of Power Sources, 2022, 518, 230736.	4.0	17
468	In situ modified sulfide solid electrolyte enabling stable lithium metal batteries. Journal of Power Sources, 2022, 518, 230739.	4.0	25
469	High-throughput dynamic modeling of Li migration behaviors in garnet electrolyte. Acta Materialia, 2022, 223, 117476.	3.8	1
470	Structural origin of low Li-ion conductivity in perovskite solid-state electrolyte. Nano Energy, 2022, 92, 106758.	8.2	18

#	ARTICLE	IF	CITATIONS
471	Pushing the boundaries of lithium battery research with atomistic modelling on different scales. <i>Progress in Energy</i> , 2022, 4, 012002.	4.6	12
472	Electrode-to-electrode monolithic integration for high-voltage bipolar solid-state batteries based on plastic-crystal polymer electrolyte. <i>Chemical Engineering Journal</i> , 2022, 433, 133753.	6.6	7
473	Insights into the nitride-regulated processes at the electrolyte/electrode interface in quasi-solid-state lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2022, 67, 780-786.	7.1	11
474	Swallowing Lithium Dendrites in All-Solid-State Battery by Lithiation with Silicon Nanoparticles. <i>Advanced Science</i> , 2022, 9, e2103786.	5.6	27
475	Powerful qua-functional electrolyte additive for lithium metal batteries. <i>Green Energy and Environment</i> , 2022, 7, 361-364.	4.7	5
476	In situ, operando characterization of materials for electrochemical devices. <i>Cell Reports Physical Science</i> , 2021, 2, 100660.	2.8	14
477	Ultrafast Synthesis of I ⁺ -Rich Lithium Argyrodite Glass ⁺ Ceramic Electrolyte with High Ionic Conductivity. <i>Advanced Materials</i> , 2022, 34, e2107346.	11.1	34
478	Interface Modeling via Tailored Energy Band Alignment: Toward Electrochemically Stabilized All-Solid-State Li-Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2107555.	7.8	11
479	Preparation of Composite Electrodes for All-Solid-State Batteries Based on Sulfide Electrolytes: An Electrochemical Point of View. <i>Batteries</i> , 2021, 7, 77.	2.1	8
480	Printed solid-state electrolytes for form factor-free Li-metal batteries. <i>Current Opinion in Electrochemistry</i> , 2021, , 100889.	2.5	0
481	Subtle Local Structural Details Influence Ion Transport in Glassy Li ⁺ Thiophosphate Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57567-57575.	4.0	5
482	Thermal and Electrochemical Interface Compatibility of a Hydroborate Solid Electrolyte with 3 V-Class Cathodes for All-Solid-State Sodium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55319-55328.	4.0	7
483	High-Pressure Synthesis and Lithium-Ion Conduction of Li ₄ OBr ₂ Derivatives with a Layered Inverse-Perovskite Structure. <i>Chemistry of Materials</i> , 2021, 33, 9194-9201.	3.2	8
484	Mechanical Behavior and Dendrite Resistance of closo Δ -Hydroborate Solid Electrolyte. <i>Advanced Materials Interfaces</i> , 0, , 2101254.	1.9	8
485	Emerging Two-Dimensional Covalent and Coordination Polymers for Stable Lithium Metal Batteries: From Liquid to Solid. <i>ACS Nano</i> , 2021, 15, 19026-19053.	7.3	20
486	In Search of the Best Solid Electrolyte-Layered Oxide Pairing for Assembling Practical All-Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 13575-13585.	2.5	26
487	An oxygen vacancy-rich ZnO layer on garnet electrolyte enables dendrite-free solid state lithium metal batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133665.	6.6	23
488	Dual impact of superior SEI and separator wettability to inhibit lithium dendrite growth. <i>Rare Metals</i> , 2022, 41, 353-355.	3.6	26

#	ARTICLE	IF	CITATIONS
489	Anion Control of the Electrolyte Na ₃ SbS ₄ Br Extends Cycle Life in Solid-State Sodium Batteries. <i>Chemistry of Materials</i> , 2021, 33, 9184-9193.	3.2	13
490	Inter-grain Li ⁺ conduction in Sc and Y doped LATP compounds. <i>Physica B: Condensed Matter</i> , 2022, 627, 413599.	1.3	10
491	Ion migration and defect effect of electrode materials in multivalent-ion batteries. <i>Progress in Materials Science</i> , 2022, 125, 100911.	16.0	79
492	Ce(NO ₃) ₃ as an electrolyte additive to regulate uniform lithium deposition for stable all-solid-state batteries. <i>Solid State Ionics</i> , 2022, 374, 115831.	1.3	4
493	Growth Parameters and Diffusion Barriers for Functional High-Voltage Thin-Film Batteries Based on Spinel LiNi _{0.5} Mn _{1.5} O ₄ Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	4.0	3
494	Nonaqueous rechargeable aluminum batteries. <i>Joule</i> , 2022, 6, 134-170.	11.7	54
495	Quantitative investigation of the influence of electrode morphology in the electro-chemo-mechanical response of li-ion batteries.. <i>Electrochimica Acta</i> , 2022, 405, 139778.	2.6	9
496	Preparation of free-standing Li ₃ InCl ₆ solid electrolytes film with infiltration-method enable roll-to-roll manufacture. <i>Materials Letters</i> , 2022, 310, 131463.	1.3	9
497	Electrolyte/electrode interfacial electrochemical behaviors and optimization strategies in aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2022, 45, 618-646.	9.5	125
498	New perspectives of functional metal borohydrides. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163014.	2.8	25
499	Electrochemical impedance characteristics at various conditions for commercial solidâ€liquid electrolyte lithium-ion batteries: Part 1. experiment investigation and regression analysis. <i>Energy</i> , 2022, 242, 122880.	4.5	25
500	Molecular bridges stabilize lithium metal anode and solid-state electrolyte interface. <i>Chemical Engineering Journal</i> , 2022, 432, 134271.	6.6	9
501	Enhanced Electrochemical Properties of All-Solid-State Batteries Using a Surface-Modified LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Cathode. <i>Journal of Electrochemical Science and Technology</i> , 0, , .	0.9	0
502	Assembling Iron Oxide Nanoparticles into Aggregates by Li ₃ PO ₄ : A Universal Strategy Inspired by Frogspawn for Robust Li-Storage. <i>ACS Nano</i> , 2022, 16, 2968-2977.	7.3	12
503	TiO ₂ as Second Phase in Na ₃ Zr ₂ Si ₂ PO ₁₂ to Suppress Dendrite Growth in Sodium Metal Solidâ€State Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	35
504	Composite polymer electrolytes reinforced by a three-dimensional polyacrylonitrile/Li _{0.33} La _{0.55} TiO ₃ nanofiber framework for room-temperature dendrite-free all-solid-state lithium metal battery. <i>Rare Metals</i> , 2022, 41, 1870-1879.	3.6	48
505	Ion migration mechanism in all-inorganic Ruddlesdenâ€Popper lead halide perovskites by first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 403-410.	1.3	7
506	Multiscale understanding of high-energy cathodes in solid-state batteries: from atomic scale to macroscopic scale. <i>Materials Futures</i> , 2022, 1, 012101.	3.1	34

#	ARTICLE	IF	CITATIONS
507	A Direct View on Li-Ion Transport and Li-Metal Plating in Inorganic and Hybrid Solid-State Electrolytes. <i>Accounts of Chemical Research</i> , 2022, 55, 333-344.	7.6	25
508	Atomistic level aqueous dissolution dynamics of NASICON-Type $\text{Li}_x\text{Al}_x\text{Ti}_{2x}\text{(PO}_4)_3$ (LATP). <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4125-4130.	1.3	3
509	Modeling of damage of solid electrolyte matrix in composite electrode: Role of ionic conductivity. <i>Journal Physics D: Applied Physics</i> , 0, , .	1.3	0
510	SolidPAC is an interactive battery-on-demand energy density estimator for solid-state batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100756.	2.8	18
511	The chemical origin of temperature-dependent lithium-ion concerted diffusion in sulfide solid electrolyte $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. <i>Journal of Energy Chemistry</i> , 2022, 70, 59-66.	7.1	22
512	Conductivity, microstructure and mechanical properties of tape-cast LATP with LiF and SiO ₂ additives. <i>Journal of Materials Science</i> , 2022, 57, 925-938.	1.7	14
513	Structure, Composition, Transport Properties, and Electrochemical Performance of the Electrode-Electrolyte Interphase in Non-Aqueous Na-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	27
514	Antiperovskite Electrolytes for Solid-State Batteries. <i>Chemical Reviews</i> , 2022, 122, 3763-3819.	23.0	96
515	Exploiting the paddle-wheel mechanism for the design of fast ion conductors. <i>Nature Reviews Materials</i> , 2022, 7, 389-405.	23.3	83
516	Multivalent Ion Conduction in Inorganic Solids. <i>Chemistry of Materials</i> , 2022, 34, 881-898.	3.2	14
517	Designing Versatile Polymers for Lithium-Ion Battery Applications: A Review. <i>Polymers</i> , 2022, 14, 403.	2.0	19
518	Hybrid covalent organic-framework-based electrolytes for optimizing interface resistance in solid-state lithium-ion batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100731.	2.8	6
519	H_2O and CO_2 surface contamination of the lithium garnet $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ solid electrolyte. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4960-4973.	5.2	6
520	The challenges and opportunities of battery-powered flight. <i>Nature</i> , 2022, 601, 519-525.	13.7	143
521	Role of Areal Capacity in Determining Short Circuiting of Sulfide-Based Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4051-4060.	4.0	35
522	Coordination-Assisted Precise Construction of Metal Oxide Nanofilms for High-Performance Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 2179-2188.	6.6	38
523	A Nanoscale Design Approach for Enhancing the Li-Ion Conductivity of the $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ Solid Electrolyte. , 2022, 4, 424-431.		23
524	High performance lithium ion electrolyte based on a three-dimensional holey graphene framework cross-linked with a polymer. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	7

#	ARTICLE	IF	CITATIONS
525	Computational screening of spinel structure cathodes for Li-ion battery with low expansion and rapid ion kinetics. <i>Computational Materials Science</i> , 2022, 204, 111187.	1.4	5
526	A novel thioctic acid-functionalized hybrid network for solid-state batteries. <i>Energy Storage Materials</i> , 2022, 46, 570-576.	9.5	13
527	A flexible, robust, and high ion-conducting solid electrolyte membranes enabled by interpenetrated network structure for all-solid-state lithium metal battery. <i>Journal of Energy Chemistry</i> , 2022, 68, 603-611.	7.1	26
528	Nominally stoichiometric $\text{Na}_3(\text{W}_x\text{Si}_x\text{Sb}_{1-x}\text{S}_4)$ as a superionic solid electrolyte. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1233-1243.	3.0	8
529	Dynamically disordered hydrogen bonds in the hureaulite-type phosphatic oxyhydroxide $\text{Mn}_5[(\text{PO}_4)_2(\text{PO}_3(\text{OH}))_2](\text{HOH})_4$. <i>Journal of Chemical Physics</i> , 2022, 156, 094502.	1.2	0
530	Size Effect of MgO on the Ionic Conduction Properties of a $\text{LiBH}_4 \cdot 1/2\text{NH}_3$ MgO Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8947-8954.	4.0	5
531	Ionic liquid-containing cathodes empowering ceramic solid electrolytes. <i>IScience</i> , 2022, 25, 103896.	1.9	11
532	Sodium mechanics: Effects of temperature, strain rate, and grain rotation and implications for sodium metal batteries. <i>Extreme Mechanics Letters</i> , 2022, 52, 101644.	2.0	3
533	Reducing the crystallinity of PEO-based composite electrolyte for high performance lithium batteries. <i>Composites Part B: Engineering</i> , 2022, 234, 109729.	5.9	25
534	Challenges, interface engineering, and processing strategies toward practical $\text{S}_2\text{O}_8^{2-}$ -based all-solid-state lithium batteries. <i>Informa Mater Jy</i> , 2022, 4, .	8.5	92
535	Achieving superior ionic conductivity of $\text{Li}_6\text{PS}_5\text{I}$ via introducing LiCl . <i>Solid State Ionics</i> , 2022, 377, 115871.	1.3	12
536	Perspectives of ionic covalent organic frameworks for rechargeable batteries. <i>Coordination Chemistry Reviews</i> , 2022, 458, 214431.	9.5	27
537	Potential Solid-State Electrolytes with Good Balance between Ionic Conductivity and Electrochemical Stability: $\text{Li}_5\text{M}_2\text{M}'\text{O}_4$ ($\text{M} = \text{Al, Ti, Zr, Hf}$)	11.0	100
538	Partially Fluorinated Linear Carboxylate Esters Employed as Co-Solvents for High-Voltage Lithium-Ion Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
539	Hydride ion intercalation and conduction in the electride Sr_3CrN_3 . <i>Journal of Materials Chemistry C</i> , 2022, 10, 6628-6633.	2.7	6
540	Historical development and novel concepts on electrolytes for aqueous rechargeable batteries. <i>Energy and Environmental Science</i> , 2022, 15, 1805-1839.	15.6	71
541	Atomistic insight into the dopant impacts at the garnet $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ solid electrolyte grain boundaries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10083-10091.	5.2	13
542	Influence of Ti^{IV} substitution on the properties of a $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ nanofiber-based solid electrolyte. <i>Nanoscale</i> , 2022, 14, 5094-5101.	2.8	4

#	ARTICLE	IF	CITATIONS
543	Ion transport in composite polymer electrolytes. <i>Materials Advances</i> , 2022, 3, 3809-3819.	2.6	22
544	Synergistic Effect of Lithium Salts with Fillers and Solvents in Composite Electrolytes for Superior Room-Temperature Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 2484-2494.	2.5	36
545	Study of $\text{LiCoO}_2/\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}:\text{Ta}$ Interface Degradation in All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11288-11299.	4.0	36
546	Revealing the Design Principles of Ni-Rich Cathodes for All-Solid-State Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	27
547	Avoiding CO_2 Improves Thermal Stability at the Interface of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Electrolyte with Layered Oxide Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	17
548	A review of the recent progress in battery informatics. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	53
549	Optimized Lithium-Indium Chloride Solid Electrolyte for High Energy All-Solid-State Batteries. <i>Nano Hybrids and Composites</i> , 0, 34, 3-8.	0.8	0
550	Facile Method for the Formation of Intimate Interfaces in Sulfide-Based All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9242-9248.	4.0	14
551	Reducing Impedance at a Li-Metal Anode/Garnet-Type Electrolyte Interface Implementing Chemically Resolvable In Layers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14739-14752.	4.0	24
552	Machine learning in energy storage materials. , 2022, 1, 175-195.		45
553	Universal Solution Synthesis of Sulfide Solid Electrolytes Using Alkahest for All-Solid-State Batteries. <i>Advanced Materials</i> , 2022, 34, e2200083.	11.1	36
554	Anomalous Thermal Decomposition Behavior of Polycrystalline $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ in PEO-Based Solid Polymer Electrolyte. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	19
555	Lithium superionic conductors with corner-sharing frameworks. <i>Nature Materials</i> , 2022, 21, 924-931.	18.3	67
556	Recent Advances in Interface Engineering for All-Solid-State Batteries. <i>Ceramist</i> , 2022, 25, 104-121.	0.0	0
557	Enhancement of Superionic Conductivity by Halide Substitution in Strongly Stacking Faulted Li_3HoBr_6 Phases. <i>Chemistry of Materials</i> , 2022, 34, 3227-3235.	3.2	19
558	Stable All-Solid-State Lithium Metal Batteries Enabled by Machine Learning Simulation Designed Halide Electrolytes. <i>Nano Letters</i> , 2022, 22, 2461-2469.	4.5	32
559	The Influence of Surface Chemistry on Critical Current Density for Garnet Electrolyte. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	22
560	In situ infrared nanospectroscopy of the local processes at the Li/polymer electrolyte interface. <i>Nature Communications</i> , 2022, 13, 1398.	5.8	28

#	ARTICLE	IF	CITATIONS
561	Insights into the sinterability and electrical properties of $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3\text{-(Li}_2\text{CO}_3\text{-Bi}_2\text{O}_3)$ composite electrolytes. <i>Ceramics International</i> , 2022, 48, 8387-8394.	2.3	17
562	Review of modification strategies in emerging inorganic solid-state electrolytes for lithium, sodium, and potassium batteries. <i>Joule</i> , 2022, 6, 543-587.	11.7	90
563	Editors' Choice Review Designing Defects and Diffusion through Substitutions in Metal Halide Solid Electrolytes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040551.	1.3	22
564	Tetrahedral Alignment and Covalent Bonding Enable Fast Sodium Conduction in Na_3XS_4 (X = P, V). <i>Journal of Physical Chemistry C</i> , 2022, 126, 6161-6170.	1.5	3
565	Influence of Porosity of Sulfide-Based Artificial Solid Electrolyte Interphases on Their Performance with Liquid and Solid Electrolytes in Li and Na Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16147-16156.	4.0	11
566	Thin Yet Strong Composite Polymer Electrolyte Reinforced by Nanofibrous Membrane for Flexible Dendrite-Free Solid-State Lithium Metal Batteries. <i>Advanced Energy and Sustainability Research</i> , 0, , 2100193.	2.8	1
567	Ferroelectric Engineered Electrode-Composite Polymer Electrolyte Interfaces for All-Solid-State Sodium Metal Battery. <i>Advanced Science</i> , 2022, 9, e2105849.	5.6	22
568	Interface Engineering of a Ceramic Electrolyte by Ta_2O_5 Nanofilms for Ultrastable Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	22
569	Stacking Faults Assist Lithium-Ion Conduction in a Halide-Based Superionic Conductor. <i>Journal of the American Chemical Society</i> , 2022, 144, 5795-5811.	6.6	50
570	Effect of Concentration and Temperature on the Structure and Ion Transport in Diglyme-Based Sodium-Ion Electrolyte. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2119-2129.	1.2	5
571	Solid-state lithium battery cathodes operating at low pressures. <i>Joule</i> , 2022, 6, 636-646.	11.7	42
572	Improving Cyclability of All-Solid-State Batteries via Stabilized Electrolyte-Electrode Interface with Additive in Poly(propylene carbonate) Based Solid Electrolyte. <i>Advanced Science</i> , 2022, 9, e2105448.	5.6	18
573	3D flame-retardant skeleton reinforced polymer electrolyte for solid-state dendrite-free lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2022, 71, 174-181.	7.1	30
574	Lead-Free Solid-State Organic-Inorganic Halide Perovskite Electrolyte for Lithium-Ion Conduction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17479-17485.	4.0	5
575	High-Energy Batteries: Beyond Lithium-Ion and Their Long Road to Commercialisation. <i>Nano-Micro Letters</i> , 2022, 14, 94.	14.4	79
576	Exploring the characteristics of technological knowledge interaction dynamics in the field of solid-state batteries: A patent-based approach. <i>Journal of Cleaner Production</i> , 2022, 353, 131689.	4.6	10
577	Partially fluorinated linear carboxylate esters employed as co-solvents for high-voltage lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 526, 231152.	4.0	8
578	Safe and Energy-Dense Flexible Solid-State Lithium-Oxygen Battery with a Structured Three-Dimensional Polymer Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4894-4903.	3.2	4

#	ARTICLE	IF	CITATIONS
579	A Series of Ternary Metal Chloride Superionic Conductors for High-Performance All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	42
580	Influence of Rutile and Anatase TiO_2 Precursors on the Synthesis of a $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ti}_{1.5}(\text{PO}_4)_3$ Electrolyte for Solid-State Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040515.	1.3	3
581	A Bifunctional Chemomechanics Strategy To Suppress Electrochemo-Mechanical Failure of Ni-Rich Cathodes for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17674-17681.	4.0	23
582	Raising the Intrinsic Safety of Layered Oxide Cathodes by Surface Re-lithiation with LLZTO Garnet-type Solid Electrolytes. <i>Advanced Materials</i> , 2022, 34, e2200655.	11.1	30
583	Teaching Metal-Organic Frameworks to Conduct: Ion and Electron Transport in Metal-Organic Frameworks. <i>Annual Review of Materials Research</i> , 2022, 52, 103-128.	4.3	18
584	Design and Characterization of Host Frameworks for Facile Magnesium Transport. <i>Annual Review of Materials Research</i> , 2022, 52, 129-158.	4.3	11
585	SiCN Ceramics as Electrode Materials for Sodium/Sodium Ion Cells – Insights from ^{23}Na In-situ Solid-State NMR. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	9
586	Dynamic Investigation of Battery Materials via Advanced Visualization: From Particle, Electrode to Cell Level. <i>Advanced Materials</i> , 2022, 34, e2200777.	11.1	21
588	Electrochemical stability of a NASICON solid electrolyte from the lithium aluminum germanium phosphate (LAGP) series. <i>Solid State Ionics</i> , 2022, 378, 115888.	1.3	13
589	Hybrid amorphous-crystalline silicate composites as feasible solid-state electrolytes. <i>Materials and Design</i> , 2022, 217, 110599.	3.3	7
590	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
591	Design of a fast ion-transport interlayer on cathode-electrolyte interface for solid-state lithium metal batteries. <i>Energy Storage Materials</i> , 2022, 48, 205-211.	9.5	9
592	Bipolar stackings high voltage and high cell level energy density sulfide based all-solid-state batteries. <i>Energy Storage Materials</i> , 2022, 48, 458-465.	9.5	46
593	Stabilizing the interphase between Li and Argyrodite electrolyte through synergistic phosphating process for all-solid-state lithium batteries. <i>Nano Energy</i> , 2022, 96, 107104.	8.2	43
594	LiF involved interphase layer enabling thousand cycles of LAGP-based solid-state Li metal batteries with 80% capacity retention. <i>Energy Storage Materials</i> , 2022, 48, 145-154.	9.5	16
595	Surface-roughened current collectors for anode-free all-solid-state batteries. <i>Journal of Energy Chemistry</i> , 2022, 70, 248-257.	7.1	14
596	Enhancing the mechanical stability of composite electrodes by regulating the volume of active material using a prelithiation strategy. <i>Journal of Energy Storage</i> , 2022, 51, 104390.	3.9	4
597	Correlated Lithium-Ion Migration in Solid Electrolyte $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. <i>Nihon Kessho Gakkaishi</i> , 2021, 63, 280-286.	0.0	0

#	ARTICLE	IF	CITATIONS
598	Single-Ion-Conducting $\text{Polymer-in-Ceramic}$ -Hybrid Electrolyte with an Intertwined NASICON-Type Nanofiber Skeleton. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61067-61077.	4.0	14
599	Enhanced Room-Temperature Ionic Conductivity of $\text{NaCB}_{11}\text{H}_{12}$ via High-Energy Mechanical Milling. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61346-61356.	4.0	21
600	Recent Advances in Materials Design Using Atomic Layer Deposition for Energy Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	34
601	Double-Layer Solid Composite Electrolytes Enabling Improved Room-Temperature Cycling Performance for High-Voltage Lithium Metal Batteries. <i>ACS Omega</i> , 2022, 7, 994-1002.	1.6	9
602	Multifunctional Interface for High-Rate and Long-Durable Garnet-Type Solid Electrolyte in Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2022, 7, 381-389.	8.8	76
603	Effect of UV light polymerization time on the properties of plastic crystal composite polyacrylate polymer electrolyte for all solid-state lithium-ion batteries. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	6
604	Recent Advances on Polyoxometalate-Based Ion-Conducting Electrolytes for Energy-Related Devices. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	20
605	Bimetallic Hexagonal Layered Ni-Co Sulfides with High Electrochemical Performance for All-Solid-State Lithium Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 17061-17067.	3.2	8
606	Superionic Solid Electrolyte $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Synthesis and Thermodynamics for Application in All-Solid-State Lithium-Ion Batteries. <i>Materials</i> , 2022, 15, 281.	1.3	1
607	Revealing Atomic-Scale Ionic Stability and Transport around Grain Boundaries of Garnet $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolyte. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	25
608	Fundamental Understanding and Construction of Solid-State Li-Air Batteries. <i>Small Science</i> , 2022, 2, .	5.8	17
609	Stable composite electrolytes of PVDF modified by inorganic particles for solid-state lithium batteries. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5262-5273.	1.9	6
610	Recent advances of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ -based solid-state lithium batteries towards high energy density. <i>Energy Storage Materials</i> , 2022, 49, 299-338.	9.5	30
611	Electrolytes for rechargeable aluminum batteries. <i>Progress in Materials Science</i> , 2022, 128, 100960.	16.0	32
612	Atomically Intimate Solid Electrolyte/Electrode Contact Capable of Surviving Long-Term Cycling with Repeated Phase Transitions. <i>Nano Letters</i> , 2022, 22, 3457-3464.	4.5	5
613	Experimental and theoretical study on enhanced electrochemistry of aluminum substitution LLZO garnet solid electrolytes. <i>Materials Research Express</i> , 0, , .	0.8	1
614	Enabling Stable Cycling of 4.6 V High-Voltage LiCoO_2 with an In Situ-Modified PEGDA-Based Quasi-Solid Electrolyte. <i>ACS Applied Energy Materials</i> , 2022, 5, 5170-5181.	2.5	7
615	Effects of fabrication atmosphere conditions on the physico-chemical properties of garnet electrolyte. <i>Ionics</i> , 2022, 28, 2673-2683.	1.2	1

#	ARTICLE	IF	CITATIONS
616	Assessing the Long-Term Reactivity to Achieve Compatible Electrolyte–Electrode Interfaces for Solid-State Rechargeable Lithium Batteries Using First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8227-8237.	1.5	3
617	Three-dimensional networking binders prepared in situ during wet-slurry process for all-solid-state batteries operating under low external pressure. <i>Energy Storage Materials</i> , 2022, 49, 219-226.	9.5	31
618	Nonflammable, robust and flexible electrolytes enabled by phosphate coupled polymer–polymer for Li-metal batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 222-231.	5.0	11
619	Nanoscale interface engineering of inorganic Solid-State electrolytes for High-Performance alkali metal batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 41-66.	5.0	12
620	MOF-based electrolytes for battery applications. , 2022, , 341-362.		0
621	Design and developments in ceramic materials for electrochemical applications. , 2022, , 353-377.		0
622	Li-ion conductivity in $\text{Li}_2\text{OHCl} \cdot \text{Br}$ solid electrolytes: grains, grain boundaries and interfaces. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11574-11586.	5.2	24
623	Thermodynamics and Structure–Property Relationships of Charged Block Polymers. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	3
624	Active Interphase Enables Stable Performance for an All–Solid–State Battery. <i>Small</i> , 2022, 18, e2200266.	5.2	7
625	Progress and perspectives on electrospinning techniques for solid-state lithium batteries. , 2022, 4, 539-575.		25
626	Review–Electrospun Inorganic Solid-State Electrolyte Fibers for Battery Applications. <i>Journal of the Electrochemical Society</i> , 2022, 169, 050527.	1.3	7
627	Application of Auger electron spectroscopy in lithium-ion conducting oxide solid electrolytes. <i>Nano Research</i> , 0, , .	5.8	5
628	–Tailored Microstructure–Engineered Interface toward Advanced Room Temperature All–Solid–State Na Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
629	High-performance lithium-ion batteries with gel polymer electrolyte based on ultra-thin PVDF film. <i>Ionics</i> , 2022, 28, 3269-3276.	1.2	1
630	Solid–State Iontronic Devices: Mechanisms and Applications. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	17
631	Separator–Wetted, Acid– and Water–Scavenged Electrolyte with Optimized Li–ion Solvation to Form Dual Efficient Electrode Electrolyte Interphases via Hexa–Functional Additive. <i>Advanced Science</i> , 2022, 9, e2201297.	5.6	25
632	Super Long–Cycling All–Solid–State Battery with Thin $\text{Li}_6\text{PS}_5\text{Cl}$ –Based Electrolyte. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	58
633	Preparation of hybrid perovskite-type $\text{Li}_0.33\text{La}_0.56\text{TiO}_3$ by adding ionic liquids. <i>Journal of Rare Earths</i> , 2023, 41, 758-763.	2.5	3

#	ARTICLE	IF	CITATIONS
634	Metal Hydrides with In Situ Built Electron/Ion Dual-Conductive Framework for Stable All-Solid-State Li-Ion Batteries. <i>ACS Nano</i> , 2022, 16, 8040-8050.	7.3	5
635	Metal-Organic Frameworks Derived Electrolytes Build Multiple Wetting Interfaces for Integrated Solid-State Lithium-Oxygen Battery. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	30
636	Combining NMR and molecular dynamics simulations for revealing the alkali-ion transport in solid-state battery materials. <i>Current Opinion in Electrochemistry</i> , 2022, 35, 101048.	2.5	1
637	Water-in-Eutectogel-Electrolytes for Quasi-Solid-State Aqueous Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	27
638	All-solid-state lithium-sulfur batteries assembled by composite polymer electrolyte and amorphous sulfur/rGO composite cathode. <i>Solid State Ionics</i> , 2022, 380, 115926.	1.3	5
639	A simple preparation process of lithium titanium aluminum phosphate solid electrolyte with ultra-high ionic conductivity. <i>Journal of Solid State Chemistry</i> , 2022, 311, 123155.	1.4	0
640	Constructing 3D Li ⁺ -percolated transport network in composite polymer electrolytes for rechargeable quasi-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2022, 49, 433-444.	9.5	54
641	Synergistically reinforced poly(ethylene oxide)-based composite electrolyte for high-temperature lithium metal batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 1029-1036.	5.0	7
642	Interface science in polymer-based composite solid electrolytes in lithium metal batteries. <i>SusMat</i> , 2022, 2, 264-292.	7.8	21
643	Advanced inorganic/polymer hybrid electrolytes for all-solid-state lithium batteries. <i>Journal of Advanced Ceramics</i> , 2022, 11, 835-861.	8.9	45
644	Direct correlation between void formation and lithium dendrite growth in solid-state electrolytes with interlayers. <i>Nature Materials</i> , 2022, 21, 1050-1056.	13.3	84
645	Design of a multi-functional gel polymer electrolyte with a 3D compact stacked polymer micro-sphere matrix for high-performance lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12563-12574.	5.2	31
646	Progress, challenges and perspectives of computational studies on glassy superionic conductors for solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11854-11880.	5.2	11
647	On the interfacial lithium dynamics in Li ₇ La ₃ Zr ₂ O ₁₂ :poly(ethylene oxide) (LiTFSI) composite polymer-ceramic solid electrolytes under strong polymer phase confinement. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 870-882.	5.0	14
648	Applying Classical, <i>Ab Initio</i> , and Machine-Learning Molecular Dynamics Simulations to the Liquid Electrolyte for Rechargeable Batteries. <i>Chemical Reviews</i> , 2022, 122, 10970-11021.	23.0	138
649	Lithium Bromide-Induced Organic-Rich Cathode/Electrolyte Interphase for High-Voltage and Flame-Retardant All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24469-24479.	4.0	13
650	The multicomponent synergistic effect of a hierarchical Li _{0.485} La _{0.505} TiO ₃ solid-state electrolyte for dendrite-free lithium-metal batteries. <i>Nanoscale</i> , 2022, 14, 7768-7777.	2.8	4
651	Review on the lithium transport mechanism in solid-state battery materials. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2023, 13, .	6.2	11

#	ARTICLE	IF	CITATIONS
652	Multiscale Polymeric Materials for Advanced Lithium Battery Applications. <i>Advanced Materials</i> , 2023, 35, .	11.1	18
653	Ionic Conductivity of Nanocrystalline and Amorphous $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$: The Detrimental Impact of Local Disorder on Ion Transport. <i>Journal of the American Chemical Society</i> , 2022, 144, 9597-9609.	6.6	21
654	Approaches to Combat the Polysulfide Shuttle Phenomenon in $\text{Li}^{\ominus}\text{S}$ Battery Technology. <i>Batteries</i> , 2022, 8, 45.	2.1	10
655	Quantifying lithium enrichment at grain boundaries in $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ solid electrolyte by correlative microscopy. <i>Journal of Power Sources</i> , 2022, 539, 231417.	4.0	13
656	Cation-Assisted Lithium Ion Diffusion in a Lithium Oxythioborate Halide Glass Solid Electrolyte. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
657	Understanding the effect of lattice polarisability on the electrochemical properties of lithium tetrahaloaluminates, LiAl_4X_4 ($\text{X} = \text{Cl}, \text{Br}, \text{I}$). <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	3
658	Review of defect engineering in perovskites for photovoltaic application. <i>Materials Advances</i> , 2022, 3, 5234-5247.	2.6	28
659	Femtosecond X-ray Laser Reveals Intact Sea-Island Structures of Metastable Solid-State Electrolytes for Batteries. <i>Nano Letters</i> , 2022, 22, 4603-4607.	4.5	2
660	Borates as a new direction in the design of oxide ion conductors. <i>Science China Materials</i> , 2022, 65, 2737-2745.	3.5	8
661	Influence of Chloride Ion Substitution on Lithium-Ion Conductivity and Electrochemical Stability in a Dual-Halogen Solid-State Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25448-25456.	4.0	14
662	$\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ Cathodes Coated with Dual-Conductive Polymers for High-Rate and Long-Life Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24929-24937.	4.0	13
663	High-Performance Poly(vinylidene fluoride-hexafluoropropylene)-Based Composite Electrolytes with Excellent Interfacial Compatibility for Room-Temperature All-Solid-State Lithium Metal Batteries. <i>ACS Omega</i> , 2022, 7, 19631-19639.	1.6	4
664	Ultrafast Sintering for Ceramic-Based All-Solid-State Lithium Metal Batteries. <i>Advanced Materials</i> , 2022, 34, .	11.1	35
665	The Role of the Reducible Dopant in Solid Electrolyte-Lithium Metal Interfaces. <i>Chemistry of Materials</i> , 2022, 34, 5054-5064.	3.2	5
666	Gradient Design for High-Energy and High-Power Batteries. <i>Advanced Materials</i> , 2022, 34, .	11.1	53
667	Tailoring the interaction of covalent organic framework with the polyether matrix toward high-performance solid-state lithium metal batteries. , 2022, 4, 506-516.		25
668	Methylamine Lithium Borohydride as Electrolyte for All-Solid-State Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	20
669	Stable Lithium Plating and Stripping Enabled by a LiPON Nanolayer on PP Separator. <i>Small</i> , 2022, 18, .	5.2	6

#	ARTICLE	IF	CITATIONS
670	<i>In-Situ</i> Construction of Ceramic-Polymer All-Solid-State Electrolytes for High-Performance Room-Temperature Lithium Metal Batteries. , 2022, 4, 1297-1305.		13
671	Methylamine Lithium Borohydride as Electrolyte for All-Solid-State Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
672	In-situ forming lithiophilic-lithiophobic gradient interphases for dendrite-free all-solid-state Li metal batteries. <i>Nano Energy</i> , 2022, 99, 107395.	8.2	10
673	A thin free-standing composite solid electrolyte film for solid-state lithium metal batteries. <i>Chemical Communications</i> , 2022, 58, 7646-7649.	2.2	5
674	The resistive nature of decomposing interfaces of solid electrolytes with alkali metal electrodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19732-19742.	5.2	14
675	A review on recent advancements in solid state lithium-sulfur batteries: fundamentals, challenges, and perspectives. <i>Progress in Energy</i> , 2022, 4, 042001.	4.6	7
676	Composite Solid Electrolyte for High Voltage Solid-State Li-Metal Battery. <i>ChemElectroChem</i> , 2022, 9, .	1.7	6
677	The interphasial degradation of 4.2V-class poly(ethylene oxide)-based solid batteries beyond electrochemical voltage limit. <i>Journal of Energy Chemistry</i> , 2022, 75, 504-511.	7.1	9
678	Toward High Rate Performance Solid-State Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	24
679	Fundamental insight into the interaction between a lithium salt and an inorganic filler for ion mobility using a synergic theoretical-experimental approach. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 734-742.	5.0	3
680	Sodium-Ion Solid-State Electrolyte. <i>ACS Symposium Series</i> , 0, , 275-294.	0.5	0
681	Towards Solid-State Magnesium Batteries: Ligand-Assisted Superionic Conductivity. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	16
682	Microrod Patterned Lithium Metal Surface for High-performance Solid-state Lithium Batteries. <i>Chemistry Letters</i> , 2022, 51, 891-893.	0.7	6
683	The Nature of Interface Interactions Leading to High Ionic Conductivity in LiBH ₄ /SiO ₂ Nanocomposites. <i>ACS Applied Energy Materials</i> , 2022, 5, 8057-8066.	2.5	7
684	Unveiling the Side-Chain Effect on Ionic Conductivity of Poly(ethylene oxide)-Based Polymer-Brush Electrolytes. <i>ACS Applied Energy Materials</i> , 2022, 5, 8410-8418.	2.5	7
685	Solid-State Rechargeable Lithium-Ion Batteries: Component Chemistries and Battery Architectures. <i>ACS Symposium Series</i> , 0, , 21-37.	0.5	0
686	Hydroborate-Based Solid Electrolytes for All-Solid-State Batteries. <i>ACS Symposium Series</i> , 0, , 353-393.	0.5	4
687	Troubleshooting the Limited Zn ²⁺ Storage Performance of the Ag ₂ V ₄ O ₁₁ Cathode in Zinc Sulfate Electrolytes via Favorable Synergism with Reduced Graphene Oxides. <i>ACS Applied Energy Materials</i> , 2022, 5, 8292-8303.	2.5	9

#	ARTICLE	IF	CITATIONS
688	Microscopic theory of ionic motion in solids. <i>Physical Review B</i> , 2022, 105, .	1.1	5
689	Tailoring the surface energy and area surface resistance of solid-electrolyte polymer membrane for dendrite free, high-performance, and safe solid-state Li-batteries. <i>Journal of Power Sources</i> , 2022, 541, 231690.	4.0	1
690	Investigation of lithiation/delithiation processes in ceramic solid electrolyte by means of Neutron Depth Profiling. <i>Journal of Power Sources</i> , 2022, 542, 231719.	4.0	5
691	Ionicâ€“electronic dual-conductive polymer modified LiCoO ₂ cathodes for solid lithium batteries. <i>Chemical Communications</i> , 2022, 58, 8638-8641.	2.2	16
692	Structure, Electrical Properties and Conduction Mechanism of New Germanate Mixed Conductors Zn-doped In ₂ Ge ₂ O ₇ . <i>Inorganic Chemistry Frontiers</i> , 0, , .	3.0	2
693	The Preliminary Exploration of Composition Origin of Garnet Type Solid Inorganic Electrolytes by Cluster-Plus-Glue-Atom Model. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
694	Unravelling the alkali transport properties in nanocrystalline A ₃ OX (A = Li, Na, X = Cl, Br) solid state electrolytes. A theoretical prediction. <i>RSC Advances</i> , 2022, 12, 20029-20036.	1.7	9
695	Artificially Transformed Ultra-Stable Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ Incorporated Composite Solid Electrolyte Towards High Voltage Solid Lithium Metal Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
696	Study on cation-tuned performance of halide solid electrolyte. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.2	0
697	Thioâ€“LISICON and LGPSâ€“Type Solid Electrolytes for Allâ€“Solidâ€“State Lithiumâ€“Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	35
698	Alâ€“Doping Driven Suppression of Capacity and Voltage Fadings in 4dâ€“Element Containing Liâ€“Ionâ€“Battery Cathode Materials: Machine Learning and Density Functional Theory. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	42
699	Recent development in the field of ceramics solid-state electrolytes: lâ€“oxide ceramic solid-state electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 1809-1838.	1.2	16
700	In Situ Formed Protective Layer: Toward a More Stable Interface between the Lithium Metal Anode and Li ₆ PS ₅ Cl Solid Electrolyte. <i>ACS Applied Energy Materials</i> , 2022, 5, 8428-8436.	2.5	28
701	The promise of alloy anodes for solid-state batteries. <i>Joule</i> , 2022, 6, 1418-1430.	11.7	56
702	Structure and Evolution of Quasiâ€“Solidâ€“State Hybrid Electrolytes Formed Inside Electrochemical Cells. <i>Advanced Materials</i> , 2022, 34, .	11.1	30
703	Superior Fastâ€“Charging Lithiumâ€“Ion Batteries Enabled by the Highâ€“Speed Solidâ€“State Lithium Transport of an Intermetallic Cu ₆ Sn ₅ Network. <i>Advanced Materials</i> , 2022, 34, .	11.1	14
704	Customizable solid-state batteries toward shape-conformal and structural power supplies. <i>Materials Today</i> , 2022, 58, 297-312.	8.3	11
705	Wet-slurry fabrication using PVdF-HFP binder with sulfide electrolytes via synergetic cosolvent approach for all-solid-state batteries. <i>Chemical Engineering Journal</i> , 2022, 450, 138047.	6.6	13

#	ARTICLE	IF	CITATIONS
706	Spatiotemporal mapping of microscopic strains and defects to reveal Li-dendrite-induced failure in all-solid-state batteries. <i>Materials Today</i> , 2022, 57, 180-191.	8.3	12
707	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
708	Visualization of battery materials and their interfaces/interphases using cryogenic electron microscopy. <i>Materials Today</i> , 2022, 58, 238-274.	8.3	17
709	NaSICON: A promising solid electrolyte for solid-state sodium batteries. , 2022, 1, 396-416.		44
710	Recent advanced development of stabilizing sodium metal anodes. <i>Green Energy and Environment</i> , 2023, 8, 1279-1307.	4.7	10
711	Sodium-based solid electrolytes and interfacial stability. Towards solid-state sodium batteries. <i>Materials Today Communications</i> , 2022, 32, 104009.	0.9	6
712	Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ Reinforced Polystyrene-Poly(ethylene oxide)-Poly(propylene oxide)-Poly(ethylene) Tj ETQq0.0.0 rgBT /Overlock 1 metal batteries. <i>Journal of Power Sources</i> , 2022, 542, 231797.	4.0	17
713	Cation-assisted lithium ion diffusion in a lithium oxythioborate halide glass solid electrolyte. <i>Electrochimica Acta</i> , 2022, 426, 140806.	2.6	1
714	Oxygen vacancies boosted fast Mg ²⁺ migration in solids at room temperature. <i>Energy Storage Materials</i> , 2022, 51, 630-637.	9.5	23
715	Key issues and emerging trends in sulfide all solid state lithium battery. <i>Energy Storage Materials</i> , 2022, 51, 527-549.	9.5	31
716	Solvent-free green synthesis of nonflammable and self-healing polymer film electrolytes for lithium metal batteries. <i>Applied Energy</i> , 2022, 323, 119571.	5.1	17
717	Heuristic Design of Cathode Hybrid Coating for Power-Limited Sulfide-Based All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	23
718	Molecular Insights into the Effect of Asymmetric Anions on Lithium Coordination and Transport Properties in Salt-Doped Poly(ionic liquid) Electrolytes. <i>Macromolecules</i> , 2022, 55, 6703-6715.	2.2	4
719	Boosting the Rate Performance and Capacity of Sb ₂ S ₃ Nanorods Cathode by Carbon Coating in All-Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	9
720	Issues Concerning Interfaces with Inorganic Solid Electrolytes in All-Solid-State Lithium Metal Batteries. <i>Sustainability</i> , 2022, 14, 9090.	1.6	6
721	Microscopic theory of thermalization in one dimension with nonlinear bath coupling. <i>Physical Review Research</i> , 2022, 4, .	1.3	2
722	Progress in the development of solid-state electrolytes for reversible room-temperature sodium-sulfur batteries. <i>Materials Advances</i> , 2022, 3, 6415-6440.	2.6	26
723	Advances in studying interfacial reactions in rechargeable batteries by photoelectron spectroscopy. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19466-19505.	5.2	17

#	ARTICLE	IF	CITATIONS
724	Could Capacitive Behavior be Triggered in Inorganic Electrolyte-Based All-Solid-State Batteries?. <i>Advanced Functional Materials</i> , 0, , 2205667.	7.8	0
725	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
726	Superionic Conduction in One-Dimensional Nanostructures. <i>ACS Nano</i> , 2022, 16, 12445-12451.	7.3	3
727	Inorganic/Organic Hybrid Electrolytes Based on Al-Doped Li ₇ La ₃ Zr ₂ O ₁₂ and Ionic Liquids. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7318.	1.3	4
728	Designing Cathodes and Cathode Active Materials for Solid-State Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	72
729	On the way to understand the keys for the stabilization of the conductive phase in doped-NASICON-type materials. <i>Ceramics International</i> , 2022, 48, 31755-31762.	2.3	2
730	Defect-driven anomalous transport in fast-ion conducting solid electrolytes. <i>Nature Materials</i> , 2022, 21, 1066-1073.	13.3	17
731	Regulating Electronic Conductivity at Cathode Interface for Low-Temperature Halide-Based All-Solid-State Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	9
732	Low electronic conductivity of $\text{Li}_7\text{O}_{12}\text{Li}_8\text{Mg}_8$ solid electrolytes from first principles. <i>Physical Review Materials</i> , 2022, 6, .	0.9	8
733	Lithium-ion conductive glass-ceramic electrolytes enable safe and practical Li batteries. <i>Materials Today Energy</i> , 2022, 29, 101118.	2.5	8
734	Role of Electronic Passivation in Stabilizing the Lithium- $\text{Li}_x\text{PO}_z\text{N}_z$ Solid-Electrolyte Interphase. , 2022, 1, .		
735	Enhanced Electrochemical Properties and Optimized Li ⁺ Transmission Pathways of PEO/LLZTO -Based Composite Electrolytes Modified by Supramolecular Combination. <i>Energy and Environmental Materials</i> , 2024, 7, .	7.3	10
736	High-performance PEO-based solid-state LiCoO ₂ lithium metal battery enabled by poly(acrylic acid) artificial cathode electrolyte interface. <i>Materials Today Energy</i> , 2022, 29, 101128.	2.5	3
737	Deciphering Fast Ion Transport in Glasses: A Case Study of Sodium and Silver Vitreous Sulfides. <i>Inorganic Chemistry</i> , 2022, 61, 12870-12885.	1.9	6
738	Fast Ion Transport Mechanism and Electrochemical Stability of Trivalent Metal Iodide-based Na ₃ XI ₆ (X = Sc, Y, La, and In). <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 36864-36874.	4.0	6
739	Toward Optimization of the Chemical/Electrochemical Compatibility of Halide Solid Electrolytes in All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2022, 7, 2979-2987.	8.8	26
740	Filler-Integrated Composite Polymer Electrolyte for Solid-State Lithium Batteries. <i>Advanced Materials</i> , 2023, 35, .	11.1	105
741	Ionically and Electronically Conductive Phases in a Composite Anode for High-Rate and Stable Lithium Stripping and Plating for Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 38786-38794.	4.0	26

#	ARTICLE	IF	CITATIONS
742	Heat Treatment-Induced Conductivity Enhancement in Sulfide-Based Solid Electrolytes: What is the Role of the Thio-LISICON II Phase and of Other Nanoscale Phases?. <i>Chemistry of Materials</i> , 2022, 34, 7721-7729.	3.2	1
743	Machine Learning Methods for Multiscale Physics and Urban Engineering Problems. <i>Entropy</i> , 2022, 24, 1134.	1.1	0
744	Priority and Prospect of Sulfide-Based Solid Electrolyte Membrane. <i>Advanced Materials</i> , 2023, 35, .	11.1	15
745	Low Na ⁺ -alumina electrolyte/cathode interfacial resistance enabled by a hydroborate electrolyte opening up new cell architecture designs for all-solid-state sodium batteries. <i>Materials Futures</i> , 2022, 1, 031001.	3.1	8
746	Thermodynamics as a Driving Factor of LiCoO ₂ Grain Growth on Nanocrystalline Ta-LLZO Thin Films for All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 39907-39916.	4.0	3
748	Fundamental investigations on the sodium-ion transport properties of mixed polyanion solid-state battery electrolytes. <i>Nature Communications</i> , 2022, 13, .	5.8	26
749	An account on the deep eutectic solvents-based electrolytes for rechargeable batteries and supercapacitors. <i>Sustainable Materials and Technologies</i> , 2022, 33, e00477.	1.7	10
750	First-principles study of a stable anode interface based on the electron tunneling effect to suppress transition metal reduction in lithium halide solid-state electrolytes. <i>Chemical Engineering Journal Advances</i> , 2022, 12, 100377.	2.4	4
751	Unexpected pressure effects on sulfide-based polymer-in-ceramic solid electrolytes for all-solid-state batteries. <i>Nano Energy</i> , 2022, 102, 107679.	8.2	11
752	Direct recycling of shorted solid-state electrolytes enabled by targeted recovery. <i>Energy Storage Materials</i> , 2022, 52, 365-370.	9.5	8
753	Li ₁₀ Sn _{0.95} P ₂ S _{11.9} xO _x : A new sulfide solid electrolyte for all-solid-state batteries. <i>Journal of Alloys and Compounds</i> , 2022, 926, 166731.	2.8	5
754	Li-Ion Conductive Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ (LATP) Solid Electrolyte Prepared by Cold Sintering Process with Various Sintering Additives. <i>Nanomaterials</i> , 2022, 12, 3178.	1.9	9
755	PVDF-based electrolyte decorated by Li ₂₉ Zr ₉ Nb ₃ O ₄₀ Li-ion conductor and electrochemical performance of related solid-state batteries. <i>Journal of Power Sources</i> , 2022, 548, 232109.	4.0	10
756	Investigation of protic ionic liquid electrolytes for porous RuO ₂ micro-supercapacitors. <i>Journal of Power Sources</i> , 2022, 548, 232040.	4.0	13
757	Effects of lithium bis(oxalato)borate-derived surface coating layers on the performances of high-Ni cathodes for all-solid-state batteries. <i>Applied Energy</i> , 2022, 326, 119991.	5.1	11
758	Effect of TeO ₂ sintering aid on the microstructure and electrical properties of Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ solid electrolyte. <i>Journal of Alloys and Compounds</i> , 2022, 927, 167019.	2.8	9
759	Control of side reactions using LiNbO ₃ mixed/doped solid electrolyte for enhanced sulfide-based all-solid-state batteries. <i>Chemical Engineering Journal</i> , 2023, 452, 138955.	6.6	12
760	Evolving aprotic Li-air batteries. <i>Chemical Society Reviews</i> , 2022, 51, 8045-8101.	18.7	37

#	ARTICLE	IF	CITATIONS
761	Failure Mechanisms Investigation of Ultra-Thin Composite Polymer Electrolyte-Based Solid-State Lithium Batteries. SSRN Electronic Journal, 0, , .	0.4	0
762	An Ultrathin Zn-Bdc Mof Nanosheets Functionalized Polyacrylonitrile Composite Separator with Anion Immobilization and Li+RedistributionFor Dendrite-Free Li Metal Battery. SSRN Electronic Journal, 0, , .	0.4	0
763	Machine Learning for Battery Research. SSRN Electronic Journal, 0, , .	0.4	0
764	Ion-Selective Fibers in Constructing Solid Polymer Electrolyte for High-Rate and Long-Cycling Solid-State Batteries. SSRN Electronic Journal, 0, , .	0.4	0
765	Enhancing first-principles simulations of complex solid-state ion conductors using topological analysis of procrystal electron density. Npj Computational Materials, 2022, 8, .	3.5	2
766	DualUse of Seawater Batteries for Energy Storage and Water Desalination. Small, 2022, 18, .	5.2	20
767	Amorphous hollow carbon film as a flexible host for liquid Na-K alloy anode. Chinese Chemical Letters, 2023, 34, 107767.	4.8	5
768	High Formability Bromide Solid Electrolyte with Improved Ionic Conductivity for Bulk-Type All-Solid-State LithiumMetal Batteries. ACS Applied Energy Materials, 2022, 5, 10604-10610.	2.5	2
769	High ceramic content composite solid-state electrolyte films prepared via a scalable solvent-free process. Nano Research, 2023, 16, 3847-3854.	5.8	5
770	Probing the Phase Transition during the Formation of Lithium Lanthanum Zirconium Oxide Solid Electrolyte. ACS Applied Materials & Interfaces, 2022, 14, 41978-41987.	4.0	4
771	Tunable Fabrication of Hollow Nano Sword-Like CuCo_2O_4 Derived from BimetalOrganic Frameworks as Binder-Free Electrodes. ACS Sustainable Chemistry and Engineering, 2022, 10, 13310-13318.	3.2	10
772	Advances in electrolyte safety and stability of ion batteries under extreme conditions. Nano Research, 2023, 16, 2311-2324.	5.8	10
773	MetalOrganic Framework Sandwiching Porous SuperEngineering Polymeric Membranes as Anionphilic Separators for Dendritefree Lithium Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	42
774	Dense inorganic electrolyte particles as a lever to promote composite electrolyte conductivity. Nature Materials, 2022, 21, 1412-1418.	13.3	30
775	InOperando LithiumIon Transport Tracking in an AllSolidState Battery. Small, 2022, 18, .	5.2	5
776	CO_2 Laser Sintering of Garnet-Type Solid-State Electrolytes. ACS Energy Letters, 2022, 7, 3392-3400.	8.8	17
777	Composite polymer electrolyte incorporating WO_3 nanofillers with enhanced performance for dendrite-free solid-state lithium battery. Ceramics International, 2023, 49, 4473-4481.	2.3	15
778	Anion Donicity of Liquid Electrolytes for Lithium Carbon Fluoride Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	11

#	ARTICLE	IF	CITATIONS
779	Revealing the Impact of Cl Substitution on the Crystallization Behavior and Interfacial Stability of Superionic Lithium Argyrodites. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	18
780	NMR Study of Lithium Transport in Liquidâ€‘Ceramic Hybrid Solid Composite Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 43226-43236.	4.0	6
781	Anion Donicity of Liquid electrolytes for Lithium Carbon Fluoride Batteries. <i>Angewandte Chemie</i> , 0, , .	1.6	0
782	Buffering Volume Change in Solid-State Battery Composite Cathodes with CO ₂ -Derived Block Polycarbonate Ethers. <i>Journal of the American Chemical Society</i> , 2022, 144, 17477-17486.	6.6	32
783	Role of Interfaces in Solidâ€‘State Batteries. <i>Advanced Materials</i> , 2023, 35, .	11.1	29
784	Tailored Organic Cathode Material with Multiâ€‘Active Site and Compatible Groups for Stable Quasiâ€‘Solidâ€‘State Lithiumâ€‘Organic Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	21
785	All-solid-state Li battery with atomically intimate electrodeâ€‘electrolyte contact. <i>Applied Physics Letters</i> , 2022, 121, 143904.	1.5	2
786	Solid-state NMR studies of coatings and interfaces in batteries. <i>Current Opinion in Colloid and Interface Science</i> , 2022, 62, 101638.	3.4	2
787	Machine learning for battery research. <i>Journal of Power Sources</i> , 2022, 549, 232125.	4.0	22
788	Effect of the mechanical strength on the ion transport in a transition metal lithium halide electrolyte: first-principle calculations. <i>Materials Today Communications</i> , 2022, 33, 104570.	0.9	4
789	Introduction: What is inorganic electrochemistry?. , 2022, , .		0
790	Studies of Anomalies in Mixed Conduction of Na<sub>2</sub>O and V<sub>2</sub>O<sub>5</sub>; Doped Boro-Phosphate Glasses. <i>New Journal of Glass and Ceramics</i> , 2022, 12, 1-18.	0.6	2
791	The plastic crystal composite polyacrylate polymer electrolyte with a semi-interpenetrating network structure for all-solid-state LIBs. <i>New Journal of Chemistry</i> , 2022, 46, 21640-21647.	1.4	2
792	Future Challenges to Address the Market Demands of All-Solid-State Batteries. <i>Advances in Material Research and Technology</i> , 2022, , 275-295.	0.3	2
793	Prospective Electrolytes for Solid-State Battery. <i>Advances in Material Research and Technology</i> , 2022, , 127-155.	0.3	0
794	Revealing the dynamic evolution of Li filaments within solid electrolytes by operando small-angle neutron scattering. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	4
795	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
796	Evaluating Electrolyteâ€‘Anode Interface Stability in Sodium All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 47706-47715.	4.0	20

#	ARTICLE	IF	CITATIONS
797	Single- to Few-Layer Nanoparticle Cathode Coating for Thiophosphate-Based All-Solid-State Batteries. ACS Nano, 2022, 16, 18682-18694.	7.3	9
798	Degradation at the Na ₃ SbS ₄ /Anode Interface in an Operating All-Solid-State Sodium Battery. ACS Applied Materials & Interfaces, 2022, 14, 48705-48714.	4.0	6
799	Ultrafast Crystallization and Sintering of Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ Glass and Its Impact on Ion Conduction. ACS Applied Energy Materials, 2022, 5, 14466-14475.	2.5	5
800	Pushing Forward Simulation Techniques of Ion Transport in Ion Conductors for Energy Materials. ACS Materials Au, 2023, 3, 75-82.	2.6	4
801	Advances in sulfide-based all-solid-state lithium-sulfur battery: Materials, composite electrodes and electrochemo-mechanical effects. Chemical Engineering Journal, 2023, 454, 139923.	6.6	12
802	Li-Ion Diffusion Correlations in LiAlGeO ₄ : Quasielastic Neutron Scattering and Ab Initio Simulation. ACS Applied Energy Materials, 2022, 5, 14119-14126.	2.5	1
803	Decoupling Parasitic Reactions at the Positive Electrode Interfaces in Argyrodite-Based Systems. ACS Applied Materials & Interfaces, 2022, 14, 49284-49294.	4.0	8
804	Achieving High Performance of Lithium Metal Batteries by Improving the Interfacial Compatibility between Organic and Inorganic Electrolytes Using a Lithium Single-Ion Polymer. ACS Applied Energy Materials, 2022, 5, 14175-14184.	2.5	1
805	Failure mechanisms investigation of ultra-thin composite polymer electrolyte-based solid-state lithium metal batteries. Electrochimica Acta, 2022, 436, 141441.	2.6	4
806	First-principles study on selenium-doped Li ₁₀ GeP ₂ S ₁₂ solid electrolyte: Effects of doping on moisture stability and Li-ion transport properties. Materials Today Chemistry, 2022, 26, 101223.	1.7	3
807	Effects of Li contents on the stability, electronic and Li-ion diffusion properties of Li _{3-x} La _x (^{2/3} -x)TiO ₃ surface. Wuli Xuebao/Acta Physica Sinica, 2023, .		
808	Interfacial stability analysis between Ca-doped Na ₃ PS ₄ solid electrolyte and Na anode from first-principles calculations. Computational Materials Science, 2023, 216, 111848.	1.4	1
809	Structure dependence of fracture toughness and ionic conductivity in lithium borophosphate glassy electrolytes for all-solid-state batteries. Journal of Power Sources, 2023, 553, 232302.	4.0	2
810	Vacancy-controlled quaternary sulfide Na _{3-x} Zn _{1-x} Ga _{1+x} S ₄ with improved ionic conductivity and aqueous stability. Journal of Materials Chemistry A, 2022, 10, 25039-25046.	5.2	7
811	Asymmetrical interface modification between electrodes and garnet-type electrolyte enabling all-solid-state lithium batteries. Journal of Power Sources, 2023, 554, 232335.	4.0	5
812	Rapid discovery of inorganic-organic solid composite electrolytes by unsupervised learning. Chemical Engineering Journal, 2023, 454, 140151.	6.6	8
813	Artificially transformed ultra-stable Li _{6.75} La ₃ Zr _{1.75} Ta _{0.25} O ₁₂ incorporated composite solid electrolyte towards high voltage solid lithium metal batteries. Chemical Engineering Journal, 2023, 454, 140251.	6.6	6
814	Disentangling Cation and Anion Dynamics in Li ₃ PS ₄ Solid Electrolytes. Chemistry of Materials, 2022, 34, 10561-10571.	3.2	13

#	ARTICLE	IF	CITATIONS
815	Overview and perspectives of solid electrolytes for sodium batteries. International Journal of Applied Ceramic Technology, 2023, 20, 563-584.	1.1	7
816	The preliminary exploration of composition origin of garnet-type solid inorganic electrolytes by cluster-plus-glue-atom model. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	0
817	Prospects of LLZO type solid electrolyte: From material design to battery application. Chemical Engineering Journal, 2023, 454, 140375.	6.6	20
819	Recent Advances in Porous Polymers for Solid-State Rechargeable Lithium Batteries. Polymers, 2022, 14, 4804.	2.0	8
820	Progress and Prospects of Inorganic Solidâ€‘State Electrolyteâ€‘Based Allâ€‘Solidâ€‘State Pouch Cells. Advanced Materials, 2023, 35, .	11.1	30
821	Secondary Zincâ€‘Air Batteries: A View on Rechargeability Aspects. Batteries, 2022, 8, 244.	2.1	12
822	Insight into the Key Factors in High Li ⁺ Transference Number Composite Electrolytes for Solid Lithium Batteries. ChemSusChem, 2023, 16, .	3.6	19
823	Oxideâ€‘Based Solidâ€‘State Batteries: A Perspective on Composite Cathode Architecture. Advanced Energy Materials, 2023, 13, .	10.2	34
824	Theoretical insights into interfacial stability and ionic transport of Li ₂ O/Br solid electrolyte for all-solid-state batteries. RSC Advances, 2022, 12, 34627-34633.	1.7	0
825	The application road of silicon-based anode in lithium-ion batteries: From liquid electrolyte to solid-state electrolyte. Energy Storage Materials, 2023, 55, 244-263.	9.5	46
826	An ultralight lithiophilic framework with Faraday-shielded cages for stable lithium metal anodes. Journal of Materials Chemistry A, 2023, 11, 657-665.	5.2	2
827	Investigating the Li ⁺ substructure and ionic transport in Li ₁₀ GeP ₂ S ₁₂ (0.25). Physical Chemistry Chemical Physics, 0, , .	1.3	2
828	Materials design and preparation for high energy density and high power density electrochemical supercapacitors. Materials Science and Engineering Reports, 2023, 152, 100713.	14.8	54
829	First-principles study on interfacial performance of Cl, Br and O-doped Li ₃ PS ₄ against lithium for all-solid-state batteries. Journal of Solid State Chemistry, 2023, 318, 123771.	1.4	1
830	Design of metal-organic frameworks for improving pseudo-solid-state magnesium-ion electrolytes: Open metal sites, isoreticular expansion, and framework topology. Journal of Materials Science and Technology, 2023, 144, 15-27.	5.6	9
831	Solid Electrolytes for Lithium-Metal Batteries. , 2023, , 213-225.		0
832	3D Printed Batteries: A Critical Overview of Progress and Future Outlooks. , 2022, , 1-33.		0
833	Effective transport network driven by tortuosity gradient enables high-electrochem-active solid-state batteries. National Science Review, 2023, 10, .	4.6	11

#	ARTICLE	IF	CITATIONS
834	Composite Electrolytes Prepared by Improving the Interfacial Compatibility of Organic-Inorganic Electrolytes for Dendrite-Free, Long-Life All-Solid Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 53828-53839.	4.0	6
835	Effects of fluorination on crystal structure and electrochemical performance of antiperovskite solid electrolytes. Journal of Energy Chemistry, 2023, 77, 521-528.	7.1	11
836	Halide Solid-State Electrolytes: Stability and Application for High Voltage All-Solid-State Li Batteries. Advanced Energy Materials, 2023, 13, .	10.2	29
837	Control of Ionic Conductivity by Lithium Distribution in Cubic Oxide Argyrodites $\text{Li}_{6+x}\text{P}_{1-x}\text{Si}_x\text{O}_5\text{Cl}$. Journal of the American Chemical Society, 2022, 144, 22178-22192.	6.6	6
838	Eliminating interfacial O-involving degradation in Li-rich Mn-based cathodes for all-solid-state lithium batteries. Science Advances, 2022, 8, .	4.7	42
839	Enhancement of ionic conductivity and fracture toughness by infiltrating porous $\text{Li}_{0.33}\text{La}_{0.56}\text{TiO}_3$ pellets. Journal of Rare Earths, 2024, 42, 392-398.	2.5	1
840	Cathode materials for single-phase solid-solid conversion Li-S batteries. Matter, 2023, 6, 316-343.	5.0	14
841	Zeolite-Based Electrolytes: A Promising Choice for Solid-State Batteries. , 2022, 1, .		3
842	Lithium-Rich Li_2Ti_3 Cathode Enables High-Energy Sulfide All-Solid-State Lithium Batteries. Advanced Energy Materials, 2023, 13, .	10.2	9
843	Metal-air batteries: progress and perspective. Science Bulletin, 2022, 67, 2449-2486.	4.3	61
844	Diameter-dependent ultrafast lithium-ion transport in carbon nanotubes. Journal of Chemical Physics, 2023, 158, .	1.2	2
845	Atomic Layer Deposition Derived Zirconia Coatings on Ni-Rich Cathodes in Solid-State Batteries: Correlation Between Surface Constitution and Cycling Performance. Small Science, 2023, 3, .	5.8	5
846	Fluorinated Solid-State Electrolytes for Lithium Batteries: Interface Design and Ion Conduction Mechanisms. Advanced Engineering Materials, 2023, 25, .	1.6	2
847	Annealing-Free Thioantimonate Argyrodites with High Li-Ion Conductivity and Low Elastic Modulus. Advanced Functional Materials, 2023, 33, .	7.8	4
848	Structure of the Solid-State Electrolyte $\text{Li}_{3+2x}\text{P}_1\text{Al}_x\text{S}_4$: Lithium-Ion Transport Properties in Crystalline vs Glassy Phases. ACS Applied Materials & Interfaces, 2022, 14, 56767-56779.	4.0	4
849	Effect of Charge Non-Uniformity on the Lithium Dendrites and Improvement by the LiF Interfacial Layer. ACS Applied Energy Materials, 2022, 5, 15078-15085.	2.5	5
850	Ultrathin thiol-ene crosslinked polymeric electrolyte for solid-state and high-performance lithium metal batteries. Science China Materials, 2023, 66, 1332-1340.	3.5	2
851	Composite Cathode Design for High-Energy All-Solid-State Lithium Batteries with Long Cycle Life. ACS Energy Letters, 2023, 8, 521-528.	8.8	16

#	ARTICLE	IF	CITATIONS
853	Environmental life cycle assessment of emerging solid-state batteries: A review. <i>Chemical Engineering Journal Advances</i> , 2023, 13, 100439.	2.4	8
854	Modified cathode-electrolyte interphase toward high-performance batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 101197.	2.8	7
855	Transforming Interface Chemistry throughout Garnet Electrolyte for Dendrite-Free Solid-State Batteries. <i>ACS Energy Letters</i> , 2023, 8, 537-544.	8.8	16
856	The role of grain boundaries in solid-state Li-metal batteries. <i>Materials Futures</i> , 2023, 2, 013501.	3.1	12
857	Toward Understanding of the Li-Ion Migration Pathways in the Lithium Aluminum Sulfides Li_3AlS_3 and $\text{Li}_{4.3}\text{AlS}_{3.3}\text{Cl}_{0.7}$ via $^{6,7}\text{Li}$ Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Chemistry of Materials</i> , 2023, 35, 27-40.	3.2	3
858	Microstructural and mechanical characterization of $\text{Na}_{1+x}\text{Hf}_2\text{Si}_2.3\text{P}_0.7\text{O}_{10.85+0.5x}$ and $\text{Na}_{1+x}\text{Zr}_2\text{P}_3\text{Si}_x\text{O}_{12}$ NASICON-type solid electrolytes. <i>Journal of Materials Science</i> , 2023, 58, 144-156.	1.7	1
859	Accelerating Li-ion diffusion in $\hat{\Gamma}^2$ -eucryptite by tuning Li ⁺ -Li correlation. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	1
860	All-Solid-State Garnet-Based Lithium Batteries at Work—In Operando TEM Investigations of Delithiation/Lithiation Process and Capacity Degradation Mechanism. <i>Advanced Science</i> , 2023, 10, .	5.6	8
861	Interphases and Electrode Crosstalk Dictate the Thermal Stability of Solid-State Batteries. <i>ACS Energy Letters</i> , 2023, 8, 398-407.	8.8	20
862	Solid-State Li Ion Batteries with Oxide Solid Electrolytes: Progress and Perspective. <i>Energy Technology</i> , 2023, 11, .	1.8	14
863	Recent Progress on the Performance of Zn-Ion Battery Using Various Electrolyte Salt and Solvent Concentrations. <i>ACS Applied Electronic Materials</i> , 2023, 5, 100-116.	2.0	6
864	Large-scale preparation of ultrathin composite polymer electrolytes with excellent mechanical properties and high thermal stability for solid-state lithium-metal batteries. <i>Energy Storage Materials</i> , 2023, 55, 847-856.	9.5	11
865	Investigation of Structure, Ionic Conductivity, and Electrochemical Stability of Halogen Substitution in Solid-State Ion Conductor $\text{Li}_3\text{YBr}_x\text{Cl}_{6-x}$. <i>Journal of Physical Chemistry C</i> , 2023, 127, 125-132.	1.5	7
866	UV-cured Polymer Solid Electrolyte Reinforced using a Ceramic-Polymer Composite Layer for Stable Solid-State Li Metal Batteries. <i>Journal of Electrochemical Science and Technology</i> , 2023, 14, 85-95.	0.9	2
867	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
868	Review on composite solid electrolytes for solid-state lithium-ion batteries. <i>Materials Today Sustainability</i> , 2023, 21, 100316.	1.9	17
869	MgF ₂ as an effective additive for improving ionic conductivity of ceramic solid electrolytes. <i>Materials Today Energy</i> , 2023, 32, 101248.	2.5	4
870	Ion Conduction in Composite Polymer Electrolytes: Potential Electrolytes for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2023, 16, .	3.6	5

#	ARTICLE	IF	CITATIONS
871	Design of Solid Electrolytes with Fast Ion Transport: Computation-Driven and Practical Approaches. <i>Energy Material Advances</i> , 2023, 4, .	4.7	16
872	Recent Progress and Perspectives of Solid State Na-CO ₂ Batteries. <i>Batteries</i> , 2023, 9, 36.	2.1	4
873	Correlate phonon modes with ion transport via isotope substitution. <i>Science China Chemistry</i> , 0, .	4.2	0
874	Visualizing ion transport in polymers via ion-chromic indicators. <i>ACS Macro Letters</i> , 2023, 12, 86-92.	2.3	0
875	High-Ionic-Conductivity Sodium-Based Ionic Gel Polymer Electrolyte for High-Performance and Ultrastable Microsupercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 3054-3068.	4.0	1
876	Exploration of Metal Alloys as Zero-Resistance Interfacial Modification Layers for Garnet-Type Solid Electrolytes. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	7
877	Challenges of polymer electrolyte with wide electrochemical window for high energy solid-state lithium batteries. <i>Informa-Materials</i> , 2023, 5, .	8.5	37
879	A Free-Standing Ion-Conductive Membrane Based on Quasi-Dissociated LiPF ₆ . <i>Journal of Physical Chemistry C</i> , 2023, 127, 1363-1371.	1.5	0
880	A review of the effect of external pressure on all-solid-state batteries. <i>ETransportation</i> , 2023, 15, 100220.	6.8	18
881	First principles study on Li metallic phase nucleation at grain boundaries in a lithium lanthanum titanium oxide (LLTO) solid electrolyte. <i>Journal of Materials Chemistry A</i> , 2023, 11, 2889-2898.	5.2	2
882	A gradient oxy-thiophosphate-coated Ni-rich layered oxide cathode for stable all-solid-state Li-ion batteries. <i>Nature Communications</i> , 2023, 14, .	5.8	25
883	Optimization on transport of charge carriers in cathode of sulfide electrolyte-based solid-state lithium-sulfur batteries. <i>Nano Research</i> , 2023, 16, 8139-8158.	5.8	4
884	Machine Learning Interatomic Potential to Investigate Fundamentals of Electrolytes for Li-ion Solid-State Batteries. , 2023, 1, 83-91.		2
885	Toward better batteries: Solid-state battery roadmap 2035+. <i>ETransportation</i> , 2023, 16, 100224.	6.8	24
886	Synthesis, Structure and Mg ²⁺ Ionic Conductivity of Isopropylamine Magnesium Borohydride. <i>Inorganics</i> , 2023, 11, 17.	1.2	1
887	Nanoarray Architecture of Ultra-Lithiophilic Metal Nitrides for Stable Lithium Metal Anodes. <i>Small</i> , 2023, 19, .	5.2	2
888	Advances and applications of computational simulations in the inhibition of lithium dendrite growth. <i>Ionics</i> , 2023, 29, 879-893.	1.2	4
889	Upper-Bound Energy Minimization to Search for Stable Functional Materials with Graph Neural Networks. <i>Jacs Au</i> , 2023, 3, 113-123.	3.6	2

#	ARTICLE	IF	CITATIONS
890	Stable Cycling of All-Solid-State Lithium Metal Batteries Enabled by Salt Engineering of PEO-Based Polymer Electrolytes. <i>Energy and Environmental Materials</i> , 0, , .	7.3	4
891	Li ₅ NCl ₂ : A Fully-Reduced, Highly-Disordered Nitride-Halide Electrolyte for Solid-State Batteries with Lithium-Metal Anodes. <i>ACS Applied Energy Materials</i> , 2023, 6, 1661-1672.	2.5	6
892	Minimal model of drag in one-dimensional crystals. <i>Physical Review Research</i> , 2023, 5, .	1.3	1
893	Re-investigating the structure-property relationship of the solid electrolytes Li ₃ In ₁ Zr ₁ Cl ₆ and the impact of In-Zr substitution. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	3
894	Transition metal ions in solid electrolytes. <i>Ceramics and glasses</i> , 2023, , 1-25.		0
895	Electrochemically Stable Li ₃ In ₁ Hf ₁ Cl ₆ Halide Solid Electrolytes for All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 5504-5511.	4.0	7
896	Influencing Factors on Ion Conductivity and Interfacial Stability of Solid Polymer Electrolytes, Exemplified by Polycarbonates, Polyoxalates and Polymalonates. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	3
897	Ambient temperature liquid salt electrolytes. <i>Chemical Communications</i> , 2023, 59, 2620-2623.	2.2	3
898	Solid-state batteries based on composite polymer electrolytes. , 2023, , 47-80.		0
900	Fundamentals of the Cathode-Electrolyte Interface in All-Solid-State Lithium Batteries. <i>ChemSusChem</i> , 2023, 16, .	3.6	1
901	Built-in superionic conductive phases enabling dendrite-free, long lifespan and high specific capacity composite lithium for stable solid-state lithium batteries. <i>Energy and Environmental Science</i> , 2023, 16, 1049-1061.	15.6	18
902	Electro-Chemo-Mechanical Challenges and Perspective in Lithium Metal Batteries. <i>Applied Mechanics Reviews</i> , 2023, 75, .	4.5	10
903	Role of Cation Size on Order-Disorder Phase Transition Temperature and Cation Hopping Mechanism based on LiCB ₁₁ H ₁₂ . <i>Materials Advances</i> , 0, , .	2.6	0
904	Composition and Structure Design of Poly(vinylidene fluoride)-Based Solid Polymer Electrolytes for Lithium Batteries. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	18
905	Electrostatic Interaction on Liquid-Liquid Phase Separation at Low Salt Fraction Revealed by Scattering Techniques. <i>Macromolecules</i> , 2023, 56, 2818-2830.	2.2	0
906	Solid-State Li-air batteries: Fundamentals, challenges, and strategies. <i>SmartMat</i> , 2023, 4, .	6.4	2
907	Stabilization strategies for high-capacity NCM materials targeting for safety and durability improvements. <i>ETransportation</i> , 2023, 16, 100233.	6.8	4
908	In situ formed LiF-Li ₃ N interface layer enables ultra-stable sulfide electrolyte-based all-solid-state lithium batteries. <i>Journal of Energy Chemistry</i> , 2023, 79, 272-278.	7.1	19

#	ARTICLE	IF	CITATIONS
909	Ferroelastic toughening: Can it solve the mechanics challenges of solid electrolytes?. Current Opinion in Solid State and Materials Science, 2023, 27, 101056.	5.6	3
910	Latest progresses and the application of various electrolytes in high-performance solid-state lithium-sulfur batteries. Journal of Energy Chemistry, 2023, 82, 170-197.	7.1	2
911	Sandwich-Structured Quasi-Solid Polymer Electrolyte Enables High-Capacity, Long-Cycling, and Dendrite-Free Lithium Metal Battery at Room Temperature. Small, 2023, 19, .	5.2	4
912	Thin Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ -based composite solid electrolyte with a reinforced interface of in situ formed poly(1,3-dioxolane) for lithium metal batteries. Journal of Colloid and Interface Science, 2023, 644, 53-63.	5.0	6
913	High-performance solid-state lithium metal batteries achieved by interface modification. Journal of Energy Chemistry, 2023, 79, 357-364.	7.1	27
914	Geometrical design of top-to-bottom magnesiophilicity-gradient host for reversible Mg-metal batteries. Energy Storage Materials, 2023, 59, 102762.	9.5	4
915	Long-term cycling quasi-solid-state lithium batteries enabled by 3D nanofibrous TiO ₂ @Li anodes and in-situ polymerized gel-electrolytes. Chemical Engineering Journal, 2023, 464, 142627.	6.6	4
916	SnS ₂ quantum dot as bifunctional electrolyte additive for lithium metal anode. Applied Surface Science, 2023, 620, 156849.	3.1	2
917	The effect of defects for the ion transport of Li ₃ ScCl ₆ and Li ₃ InCl ₆ with the interface of lithium metal anode: A first-principles study. Materials Today Communications, 2023, 35, 105764.	0.9	0
918	Suppressing storage-induced degradation of Li ₇ La ₃ Zr ₂ O ₁₂ via encapsulation with hydrophobicity-tailored polymer nanolayer. Electrochimica Acta, 2023, 453, 142358.	2.6	1
919	Solid-state polymer magnesium supercapacitor. Solid State Ionics, 2023, 394, 116189.	1.3	2
920	Enhanced grain connection and ionic conductivity of Na _{3.3} La _{0.3} Zr _{1.7} Si ₂ PO ₁₂ ceramic electrolyte by adding Na ₂ B ₄ O ₇ . Solid State Ionics, 2023, 396, 116229.	1.3	3
921	Towards advanced lithium metal solid-state batteries: Durable and safe multilayer pouch cell enabled by a nanocomposite solid electrolyte. Solid State Ionics, 2023, 392, 116148.	1.3	4
922	Strategies for fitting accurate machine-learned inter-atomic potentials for solid electrolytes. Materials Futures, 2023, 2, 015101.	3.1	3
923	Solid electrolytes for Li-ion batteries via machine learning. Materials Letters, 2023, 337, 133926.	1.3	5
924	Influencing Factors on Ion Conductivity and Interfacial Stability of Solid Polymer Electrolytes, Exemplified by Polycarbonates, Polyoxalates and Polymalonates. Angewandte Chemie - International Edition, 2023, 62, .	7.2	19
925	Electrolytes for Batteries. , 2022, , 1-24.		0
926	Recent progress of theoretical research on inorganic solid state electrolytes for Li metal batteries. Journal of Power Sources, 2023, 561, 232720.	4.0	6

#	ARTICLE	IF	CITATIONS
927	Advances in thermal-related analysis techniques for solid-state lithium batteries. <i>Informa-Materials</i> , 2023, 5, .	8.5	13
928	Lithiation Gradients and Tortuosity Factors in Thick NMC111-Argyrodite Solid-State Cathodes. <i>ACS Energy Letters</i> , 2023, 8, 1273-1280.	8.8	5
929	State of the art of lithium-ion battery material potentials: An analytical evaluations, issues and future research directions. <i>Journal of Cleaner Production</i> , 2023, 394, 136246.	4.6	28
930	Designing All-Solid-State Batteries by Theoretical Computation: A Review. <i>Electrochemical Energy Reviews</i> , 2023, 6, .	13.1	17
931	A hybrid Carbon-Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ conductive coating for high current rate LiFePO ₄ cathode material. <i>Chemical Engineering Journal</i> , 2023, 461, 141750.	6.6	3
932	Thin lamellar Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte with g-C ₃ N ₄ as grain boundary modifier for high-performance all-solid-state lithium battery. <i>Journal of Power Sources</i> , 2023, 562, 232784.	4.0	5
933	Ultrathin positively charged electrode skin for durable anion-intercalation battery chemistries. <i>Nature Communications</i> , 2023, 14, .	5.8	9
934	A Review of Polymer-Based Solid-State Electrolytes for Lithium-Metal Batteries: Structure, Kinetic, Interface Stability, and Application. <i>Batteries and Supercaps</i> , 2023, 6, .	2.4	14
935	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
936	B-site mixed cationic tetrahedral layer confined the concentration and mobility of interstitial oxygen in mellite family. <i>Journal of Materials Chemistry A</i> , 2023, 11, 5615-5626.	5.2	5
937	Surface engineering of inorganic solid-state electrolytes via interlayers strategy for developing long-cycling quasi-all-solid-state lithium batteries. <i>Nature Communications</i> , 2023, 14, .	5.8	31
938	Accelerated Short Circuiting in Anode-Free Solid-State Batteries Driven by Local Lithium Depletion. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	13
939	Advanced Characterization Techniques for Sulfide-Based Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	12
940	Solvent-Free and Long-Cycling Garnet-Based Lithium-Metal Batteries. <i>ACS Energy Letters</i> , 2023, 8, 1468-1476.	8.8	9
941	Bonding Lithium Metal with Garnet Electrolyte by Interfacial Lithiophobicity/Lithiophilicity Transition Mechanism over 380 °C. <i>Small Methods</i> , 2023, 7, .	4.6	6
942	Charge fluctuation drives anion rotation to enhance the conductivity of Na ₁₁ M ₂ PS ₁₂ (M = Si, Ge, Sn) superionic conductors. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 7634-7641.	1.3	2
943	Drying Process of Sulfide-Based All-Solid-State Battery Components Investigation on Adhesion Strength and Microstructural Changes. <i>Energy Technology</i> , 0, , 2300098.	1.8	1
944	Insight into the structural and electrochemical properties of the interface between a Na ₆ SOI ₂ solid electrolyte and a metallic Na anode. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 8544-8555.	1.3	2

#	ARTICLE	IF	CITATIONS
945	Flexible solid-state lithium-sulfur batteries based on structural designs. <i>Energy Storage Materials</i> , 2023, 57, 429-459.	9.5	11
946	Full Control of Solid-State Electrolytes for Electrostatic Gating. <i>Advanced Materials</i> , 2023, 35, .	11.1	2
947	Solid-state lithium-ion batteries for grid energy storage: opportunities and challenges. <i>Science China Chemistry</i> , 2024, 67, 43-66.	4.2	15
948	The challenges and perspectives of developing solid-state electrolytes for rechargeable multivalent battery. <i>Journal of Solid State Electrochemistry</i> , 2023, 27, 1291-1327.	1.2	6
949	Challenges and Opportunities to Mitigate the Catastrophic Thermal Runaway of High-Energy Batteries. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	22
950	Neutron diffraction for revealing the structures and ionic transport mechanisms of antiperovskite solid electrolytes. , 2023, 42, 100048.		1
951	Lithiophilic Magnetic Host Facilitates Target-Deposited Lithium for Practical Lithium-Metal Batteries. <i>Small</i> , 2023, 19, .	5.2	7
952	Surface Construction of a High-Ionic-Conductivity Buffering Layer on a LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Cathode for Stable All-Solid-State Sulfide-Based Batteries. <i>Journal of Electronic Materials</i> , 2023, 52, 2904-2912.	1.0	4
953	Fabrication of composite solid electrolyte based on MOF with functional ionic liquid for integrated lithium-air batteries. <i>Ionics</i> , 2023, 29, 1803-1812.	1.2	1
954	Suppressing Unfavorable Interfacial Reactions Using Polyanionic Oxides as Efficient Buffer Layers: Low-Cost Li ₃ PO ₄ Coatings for Sulfide-Electrolyte-Based All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 12998-13011.	4.0	6
955	Realization of high-performance room temperature solid state Li-metal batteries using a LiF/PVDF-HFP composite membrane for protecting an LATP ceramic electrolyte. <i>Journal of Materials Chemistry A</i> , 2023, 11, 7605-7616.	5.2	7
956	A dielectric electrolyte composite with high lithium-ion conductivity for high-voltage solid-state lithium metal batteries. <i>Nature Nanotechnology</i> , 2023, 18, 602-610.	15.6	76
957	Understanding and Engineering Interfacial Adhesion in Solid-State Batteries with Metallic Anodes. <i>ChemSusChem</i> , 2023, 16, .	3.6	8
958	Understanding the evolution of lithium dendrites at Li _{6.25} Al _{0.25} La ₃ Zr ₂ O ₁₂ grain boundaries via operando microscopy techniques. <i>Nature Communications</i> , 2023, 14, .	5.8	24
959	Application and Research Progress of Covalent Organic Frameworks for Solid-State Electrolytes in Lithium Metal Batteries. <i>Materials</i> , 2023, 16, 2240.	1.3	3
960	A Li ₄ Ti ₅ O ₁₂ Composite Anode for Reducing Interfacial Resistance of Solid-State Batteries. <i>Small Structures</i> , 2023, 4, .	6.9	4
961	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
962	Reviving bipolar construction to design and develop high-energy sodium-ion batteries. <i>Journal of Energy Storage</i> , 2023, 63, 107139.	3.9	7

#	ARTICLE	IF	CITATIONS
963	Stable zinc metal anode with an ultrathin carbon coating for zinc-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2023, 936, 117357.	1.9	4
964	Defect chemistry and ion transport in low-dimensional-networked Li-rich anti-perovskites as solid electrolytes for solid-state batteries. <i>Energy Advances</i> , 2023, 2, 653-666.	1.4	4
965	Thermal, Electrical, and Environmental Safeties of Sulfide Electrolyte-Based All-Solid-State Li-Ion Batteries. <i>ACS Omega</i> , 2023, 8, 12411-12417.	1.6	4
966	A Finite Element Formulation to Three-Dimensionally Resolve Space-Charge Layers in Solid Electrolytes. <i>Journal of the Electrochemical Society</i> , 2023, 170, 040513.	1.3	1
967	Predicting the Na ⁺ ion transport properties of NaSICON materials using density functional theory and Kinetic Monte Carlo. <i>Journal of Materials Chemistry A</i> , 2023, 11, 9160-9177.	5.2	2
968	Uncorrelated Lithium-Ion Hopping in a Dynamic Solvent-Anion Network. <i>ACS Energy Letters</i> , 2023, 8, 1944-1951.	8.8	7
969	Progress and Perspective of Glass-Ceramic Solid-State Electrolytes for Lithium Batteries. <i>Materials</i> , 2023, 16, 2655.	1.3	2
970	A Solid-State Lithium Battery with PVDF-HFP-Modified Fireproof Ionogel Polymer Electrolyte. <i>ACS Applied Energy Materials</i> , 2023, 6, 4016-4026.	2.5	6
971	Deciphering How Anion Clusters Govern Lithium Conduction in Glassy Thiophosphate Electrolytes through Machine Learning. <i>ACS Energy Letters</i> , 2023, 8, 1969-1975.	8.8	5
972	In Situ Measurement of Buried Electrolyte-Electrode Interfaces for Solid State Batteries with Nanometer Level Precision. <i>ACS Energy Letters</i> , 2023, 8, 1985-1991.	8.8	4
973	Accelerated Workflow for Antiperovskite-based Solid State Electrolytes. <i>Batteries and Supercaps</i> , 2023, 6, .	2.4	4
974	Oxygen Vacancy Migration in Ca ₂ Ga ₂ GeO ₇ Melilite. <i>ACS Applied Energy Materials</i> , 2023, 6, 3986-3995.	2.5	4
975	Theoretical design of defects as a driving force for ion transport in Li ₃ OBr solid electrolyte. <i>Energy and Environmental Materials</i> , 0, , .	7.3	0
976	Extraordinary Ionic Conductivity Excited by Hierarchical Ion Transport Pathways in MOF-Based Quasi-Solid Electrolytes. <i>Advanced Materials</i> , 2023, 35, .	11.1	9
977	Interfacial Modification, Electrode/Solid-Electrolyte Engineering, and Monolithic Construction of Solid-State Batteries. <i>Electrochemical Energy Reviews</i> , 2023, 6, .	13.1	26
978	Stable Li LAGP Interface Enabled by Confining Solvate Ionic Liquid in a Hyperbranched Polyanionic Copolymer for NASICON-Based Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2023, 6, 4363-4371.	2.5	7
979	A LaCl ₃ -based lithium superionic conductor compatible with lithium metal. <i>Nature</i> , 2023, 616, 77-83.	13.7	84
980	Choosing Carbon Conductive Additives for NMC-LATP Composite Cathodes: Impact on Thermal Stability. <i>Journal of the Electrochemical Society</i> , 2023, 170, 040523.	1.3	2

#	ARTICLE	IF	CITATIONS
981	Challenges for fluoride superionic conductors: fundamentals, design, and applications. <i>Journal of Physics Condensed Matter</i> , 2023, 35, 293002.	0.7	3
982	Lamellar Ionic Liquid Composite Electrolyte for Wide-Temperature Solid-State Lithium-Metal Battery. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	7
983	Functionalized Separator Strategies toward Advanced Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	60
984	Li-ion transport at the LiFePO ₄ /Li ₃ PO ₄ interface and its enhancement through surface nitrogen doping. <i>Journal of Applied Physics</i> , 2023, 133, .	1.1	2
985	Li ion diffusion behavior of Li ₃ OCl solid-state electrolytes with different defect structures: insights from the deep potential model. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 13297-13307.	1.3	2
986	A Flexible Solid Polymer Electrolyte based Polymerized Ionic Liquid for High Performance Solid-State Batteries. <i>Batteries and Supercaps</i> , 2023, 6, .	2.4	1
987	Artificial intelligence-navigated development of high-performance electrochemical energy storage systems through feature engineering of multiple descriptor families of materials. <i>Energy Advances</i> , 2023, 2, 615-645.	1.4	3
988	Materials Towards the Development of Li Rechargeable Thin Film Battery. , 2023, 2, 26-40.		3
990	Screening of Sintering Aids for Oxide Ceramics: A Case of NASICON Electrolyte. <i>Small</i> , 2023, 19, .	5.2	3
991	A Medium-Temperature All-Solid-State Sodium Battery Utilizing Sodium-Beta Alumina and a Polymeric Composite Positive Electrode. <i>Journal of the Electrochemical Society</i> , 2023, 170, 050501.	1.3	2
1005	Polyimides as Promising Materials for Lithium-Ion Batteries: A Review. <i>Nano-Micro Letters</i> , 2023, 15, .	14.4	20
1021	Building Better Full Manganese-Based Cathode Materials for Next-Generation Lithium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , 2023, 6, .	13.1	10
1032	Alternate Crystal Structure Achieving Ionic Conductivity above 1 mS cm ⁻¹ in Cost-Effective Zr-Based Chloride Solid Electrolytes. <i>Nano Letters</i> , 2023, 23, 6081-6087.	4.5	5
1049	Electrode/electrolyte interphases in high-temperature batteries: a review. <i>Energy and Environmental Science</i> , 2023, 16, 2825-2855.	15.6	7
1058	Insights into interfacial physiochemistry in sulfide solid-state batteries: a review. <i>Materials Chemistry Frontiers</i> , 2023, 7, 4810-4832.	3.2	4
1060	Recent progress and strategic perspectives of inorganic solid electrolytes: fundamentals, modifications, and applications in sodium metal batteries. <i>Chemical Society Reviews</i> , 2023, 52, 4933-4995.	18.7	23
1061	Thin film oxide solid electrolytes towards high energy density batteries: progress of preparation methods and interface optimization. <i>Journal of Materials Chemistry A</i> , 2023, 11, 15122-15139.	5.2	0
1080	Electrospinning techniques for inorganic-organic composite electrolytes of all-solid-state lithium metal batteries: a brief review. <i>Journal of Materials Chemistry A</i> , 2023, 11, 16539-16558.	5.2	4

#	ARTICLE	IF	CITATIONS
1102	A reflection on polymer electrolytes for solid-state lithium metal batteries. Nature Communications, 2023, 14, .	5.8	15
1109	Ion Migration Mechanism Study of Hydroborate/Carborate Electrolytes for All-Solid-State Batteries. Electrochemical Energy Reviews, 2023, 6, .	13.1	1
1120	All-solid-state lithium-sulfur batteries enabled by single-ion conducting binary nanoparticle electrolytes. Materials Horizons, 2023, 10, 4139-4147.	6.4	0
1139	Printed Solid-State Batteries. Electrochemical Energy Reviews, 2023, 6, .	13.1	1
1147	Zirconia-free NaSICON solid electrolyte materials for sodium all-solid-state batteries. Journal of Materials Chemistry A, 0, , .	5.2	1
1176	Safety of lithium battery materials chemistry. Journal of Materials Chemistry A, 2023, 11, 25236-25246.	5.2	1
1185	Trend of Developing Aqueous Liquid and Gel Electrolytes for Sustainable, Safe, and High-Performance Li-Ion Batteries. Nano-Micro Letters, 2024, 16, .	14.4	0
1200	Potassium ion pre-intercalated MnO ₂ for aqueous multivalent ion batteries. Frontiers of Optoelectronics, 2023, 16, .	1.9	0
1243	A Review on Engineering Design for Enhancing Interfacial Contact in Solid-State Lithium-Sulfur Batteries. Nano-Micro Letters, 2024, 16, .	14.4	1
1255	Research Progress on the Solid Electrolyte of Solid-State Sodium-Ion Batteries. Electrochemical Energy Reviews, 2024, 7, .	13.1	0
1282	Predicting Li Transport Activation Energy with Graph Convolutional Neural Network. Communications in Computer and Information Science, 2024, , 153-164.	0.4	0
1323	Polymer Electrolytes for Rechargeable Batteries. , 2024, , 233-292.		0