

Approaching Practically Accessible Solid-State Batteries Electrolytes and Interfaces

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Critical challenges and progress of solid garnet electrolytes for all-solid-state batteries. <i>Materials Today Chemistry</i> , 2020, 18, 100368.	3.5	21
2	Macroscopic Displacement Reaction of Copper Sulfide in Lithium Solid-State Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2002394.	19.5	37
3	Designing composite solid-state electrolytes for high performance lithium ion or lithium metal batteries. <i>Chemical Science</i> , 2020, 11, 8686-8707.	7.4	82
4	Fast Charge Transfer across the $\text{Li}_{0.7}\text{La}_{0.3}\text{Zr}_{0.2}\text{O}_{12}$ Solid Electrolyte/ LiCoO_2 Cathode Interface Enabled by an Interphase-Engineered All-Thin-Film Architecture. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36196-36207.	8.0	67
5	Structure promoted electrochemical behavior and chemical stability of Ag-doped solid electrolyte in sulfide glass system. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6348-6355.	3.8	3
6	Adhesive Sulfide Solid Electrolyte Interface for Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54876-54883.	8.0	30
7	Dynamic Evolution of a Cathode Interphase Layer at the Surface of $\text{Li}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ in Quasi-Solid-State Lithium Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 20752-20762.	13.7	58
8	Enhanced Performance of $\text{Li}_{6.4}\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$ Solid Electrolyte by the Regulation of Grain and Grain Boundary Phases. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56118-56125.	8.0	54
9	Materials Design Principles for Air-Stable Lithium/Sodium Solid Electrolytes. <i>Angewandte Chemie</i> , 2020, 132, 17625-17629.	2.0	13
10	Digital Twin-Driven All-Solid-State Battery: Unraveling the Physical and Electrochemical Behaviors. <i>Advanced Energy Materials</i> , 2020, 10, 2001563.	19.5	42
11	Physicochemical Concepts of the Lithium Metal Anode in Solid-State Batteries. <i>Chemical Reviews</i> , 2020, 120, 7745-7794.	47.7	468
12	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.	38.1	461
13	Between Liquid and All Solid: A Prospect on Electrolyte Future in Lithium-Ion Batteries for Electric Vehicles. <i>Energy Technology</i> , 2020, 8, 2000580.	3.8	48
14	Structure Design of Cathode Electrodes for Solid-State Batteries: Challenges and Progress. <i>Small Structures</i> , 2020, 1, 2000042.	12.0	73
15	Cathode-Sulfide Solid Electrolyte Interfacial Instability: Challenges and Solutions. <i>Frontiers in Energy Research</i> , 2020, 0, .	2.3	4
16	Interface engineering of inorganic solid-state electrolytes for high-performance lithium metal batteries. <i>Energy and Environmental Science</i> , 2020, 13, 3780-3822.	30.8	96
17	Homogeneous and Fast Ion Conduction of PEO-Based Solid-State Electrolyte at Low Temperature. <i>Advanced Functional Materials</i> , 2020, 30, 2007172.	14.9	246
18	Sulfide and Oxide Inorganic Solid Electrolytes for All-Solid-State Li Batteries: A Review. <i>Nanomaterials</i> , 2020, 10, 1606.	4.1	179

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19	Dense Sphene-type Solid Electrolyte Through Rapid Sintering for Solid-state Lithium Metal Battery. Chemical Research in Chinese Universities, 2020, 36, 439-446.	2.6	11
20	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. ACS Applied Energy Materials, 2020, 3, 5101-5106.	5.1	14
21	A review on energy chemistry of fast-charging anodes. Chemical Society Reviews, 2020, 49, 3806-3833.	38.1	323
22	The Thermal Stability of Lithium Solid Electrolytes with Metallic Lithium. Joule, 2020, 4, 812-821.	24.0	197
23	Origin of Superionic Li ₃ Y ¹⁶ Ln ₃ Cl ₆ Halide Solid Electrolytes with High Humidity Tolerance. Nano Letters, 2020, 20, 4384-4392.	9.1	94
24	Highly Conducting Bombyx mori Silk Fibroin-Based Electrolytes Incorporating Glycerol, Dimethyl Sulfoxide and [Bmim]PF ₆ . Journal of the Electrochemical Society, 2020, 167, 070551.	2.9	10
25	A new halospinel superionic conductor for high-voltage all solid state lithium batteries. Energy and Environmental Science, 2020, 13, 2056-2063.	30.8	148
26	LISICON-Based Amorphous Oxide for Bulk-Type All-Solid-State Lithium-Ion Battery. ACS Applied Energy Materials, 2020, 3, 3220-3229.	5.1	43
27	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. ACS Energy Letters, 2020, 5, 1035-1043.	17.4	176
28	Materials Design Principles for Air-Stable Lithium/Sodium Solid Electrolytes. Angewandte Chemie - International Edition, 2020, 59, 17472-17476.	13.8	120
29	Planting Repulsion Centers for Faster Ionic Diffusion in Superionic Conductors. Angewandte Chemie - International Edition, 2020, 59, 18457-18462.	13.8	4
30	Planting Repulsion Centers for Faster Ionic Diffusion in Superionic Conductors. Angewandte Chemie, 2020, 132, 18615-18620.	2.0	2
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32	A Long Cycle Life, All-Solid-State Lithium Battery with a Ceramic-Polymer Composite Electrolyte. ACS Applied Energy Materials, 2020, 3, 2916-2924.	5.1	73
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35	3D Printing for Electrochemical Energy Applications. Chemical Reviews, 2020, 120, 2783-2810.	47.7	255
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37	Mechanical <i>vs.</i> 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.	10.3	34
38	Interfacial properties in energy storage systems studied by soft x-ray absorption spectroscopy and resonant inelastic x-ray scattering. Journal of Chemical Physics, 2020, 152, 140901.	3.0	13
39	A stabilized PEO-based solid electrolyte <i>via</i> a facile interfacial engineering method for a high voltage solid-state lithium metal battery. Chemical Communications, 2020, 56, 5633-5636.	4.1	43
40	Understanding all solid-state lithium batteries through in situ transmission electron microscopy. Materials Today, 2021, 42, 137-161.	14.2	64
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42	Interfacial Reactions in Inorganic All-Solid-State Lithium Batteries. Batteries and Supercaps, 2021, 4, 8-38.	4.7	39
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51	Inorganic Solid Electrolytes for All-Solid-State Sodium Batteries: Fundamentals and Strategies for Battery Optimization. Advanced Functional Materials, 2021, 31, 2008165.	14.9	55
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60	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.	19.5	132
61	Amorphous Dual-Layer Coating: Enabling High Li-Ion Conductivity of Non-Sintered Garnet-Type Solid Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2009692.	14.9	42
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74	Functional polymers in electrolyte optimization and interphase design for lithium metal anodes. Journal of Materials Chemistry A, 2021, 9, 13388-13401.	10.3	43
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81	Interface Aspects in All-Solid-State Li-Based Batteries Reviewed. Advanced Energy Materials, 2021, 11, 2003939.	19.5	66
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733	Redox-active ferrocene upgrading PEO electrolyte for durable all-solid-state lithium-metal batteries. <i>Journal of Power Sources</i> , 2023, 581, 233459.	7.8	0
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737	A review on ion transport pathways and coordination chemistry between ions and electrolytes in energy storage devices. <i>Journal of Energy Storage</i> , 2023, 74, 109311.	8.1	6
738	Recent Advances in Liquid Metals for Rechargeable Batteries. <i>Advanced Functional Materials</i> , 0, , .	14.9	0
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839	Preparation and characterization of hybrid solid-state electrolytes for high performance lithium-ion batteries. <i>Solid State Sciences</i> , 2024, 148, 107444.	3.2	0
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