

Designing solid-state electrolytes for safe, energy-dense

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The opportunity of metal organic frameworks and covalent organic frameworks in lithium (ion) batteries and fuel cells. <i>Energy Storage Materials</i> , 2020, 33, 360-381.	9.5	47
2	Efficient room-temperature solid-state lithium ion conductors enabled by mixed-graft block copolymer architectures. <i>Giant</i> , 2020, 3, 100027.	2.5	29
3	Electrochemical Reactions and Failure Mechanism Study of Sodium-Aqueous Polysulfide Conversion Reactions in Redox Flow Batteries. <i>Energy Technology</i> , 2020, 8, 2000581.	1.8	0
4	Lithium Metal-Based Composite: An Emerging Material for Next-Generation Batteries. <i>Matter</i> , 2020, 3, 1009-1030.	5.0	35
5	Geometric and Electronic Properties of Li <sub>2</sub> GeO <sub>3</sub> . <i>Frontiers in Materials</i> , 2020, 7, .	1.2	11
6	Computation-Guided Synthesis of New Garnet-Type Solid-State Electrolytes via an Ultrafast Sintering Technique. <i>Advanced Materials</i> , 2020, 32, e2005059.	11.1	15
7	Recently advances and perspectives of anode-free rechargeable batteries. <i>Nano Energy</i> , 2020, 78, 105344.	8.2	108
8	Advances in Materials Design for All-Solid-state Batteries: From Bulk to Thin Films. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4727.	1.3	27
9	Recycling for All Solid-State Lithium-Ion Batteries. <i>Matter</i> , 2020, 3, 1845-1861.	5.0	38
10	In-Built Polymer-in-Solvent and Solvent-in-Polymer Electrolytes for High-Voltage Lithium Metal Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100146.	2.8	10
11	Structural and electrochemical studies of bromide derived ionic liquid-based gel polymer electrolyte for energy storage application. <i>Journal of Energy Storage</i> , 2020, 32, 101723.	3.9	15
12	An ultrathin, strong, flexible composite solid electrolyte for high-voltage lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18802-18809.	5.2	48
13	A polycarboxylic/ether composite polymer electrolyte via in situ UV-curing for all-solid-state lithium battery. <i>Royal Society Open Science</i> , 2020, 7, 200598.	1.1	1
14	Polyethylene Oxide-Based Composites as Solid-State Polymer Electrolytes for Lithium Metal Batteries: A Mini Review. <i>Frontiers in Chemistry</i> , 2020, 8, 640.	1.8	38
15	4.2 V poly(ethylene oxide)-based all-solid-state lithium batteries with superior cycle and safety performance. <i>Energy Storage Materials</i> , 2020, 32, 191-198.	9.5	77
16	Performance and behavior of LLZO-based composite polymer electrolyte for lithium metal electrode with high capacity utilization. <i>Nano Energy</i> , 2020, 77, 105196.	8.2	32
17	Potential-Dependent Layering in the Electrochemical Double Layer of Water-in-Salt Electrolytes. <i>ACS Applied Energy Materials</i> , 2020, 3, 8086-8094.	2.5	28
18	Advances in materials for all-climate sodium-ion batteries. <i>EcoMat</i> , 2020, 2, e12043.	6.8	32

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19	Polymer electrolytes and interfaces toward solid-state batteries: Recent advances and prospects. <i>Energy Storage Materials</i> , 2020, 33, 26-54.	9.5	123
20	Digital Twin-Driven All-Solid-State Battery: Unraveling the Physical and Electrochemical Behaviors. <i>Advanced Energy Materials</i> , 2020, 10, 2001563.	10.2	42
21	Multi-scale Imaging of Solid-State Battery Interfaces: From Atomic Scale to Macroscopic Scale. <i>CheM</i> , 2020, 6, 2199-2218.	5.8	64
22	Designing Comb-Chain Crosslinker-Based Solid Polymer Electrolytes for Additive-Free All-Solid-State Lithium Metal Batteries. <i>Nano Letters</i> , 2020, 20, 6914-6921.	4.5	35
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26	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
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38	Fast Charging All Solid-State Lithium Batteries Enabled by Rational Design of Dual Vertically Aligned Electrodes. Advanced Functional Materials, 2020, 30, 2005357.	7.8	24
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586	Silicon-carbide fiber-reinforced polymer electrolyte for all-solid-state lithium-metal batteries. <i>Rare Metals</i> , 2022, 41, 3774-3782.	3.6	5
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692	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
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710	Fast Li <sup>+</sup> Transport via Silica Network-Driven Nanochannels in Ionomer-In-Framework for Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	6
711	Tape-Casting Method of Hybrid Solid Electrolytes with a Residual Active Solvent of Tetraethylene Glycol Dimethyl Ether. <i>ACS Applied Energy Materials</i> , 2023, 6, 2031-2038.	2.5	3
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718	Integrated interface configuration by in-situ interface chemistry enabling uniform lithium deposition in all-solid-state lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2023, 80, 458-465.	7.1	19
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