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Recent advances in all-solid-state rechargeable lithium batte

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#	Paper	IF	Citations
1139	Efficient Storing Energy Harvested by Triboelectric Nanogenerators Using a Safe and Durable All-Solid-State Sodium-Ion Battery. <b>2017</b> , 4, 1700072		120
1138	Review Practical Challenges Hindering the Development of Solid State Li Ion Batteries. <b>2017</b> , 164, A1731-A1744		408
1137	Non-successive degradation in bulk-type all-solid-state lithium battery with rigid interfacial contact. <b>2017</b> , 79, 1-4		45
1136	Electrochemistry for the Generation of Renewable Chemicals: One-Pot Electrochemical Deoxygenation of Xylose to $\gamma$ -Valerolactone. <b>2017</b> , 10, 2015-2022		7
1135	A novel class of halogen-free, super-conductive lithium argyrodites: Synthesis and characterization. <b>2017</b> , 366, 151-160		16
1134	Facile synthesis of NASICON-type $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ solid electrolyte and its application for enhanced cyclic performance in lithium ion batteries through the introduction of an artificial $\text{Li}_3\text{PO}_4$ SEI layer. <b>2017</b> , 7, 46545-46552		47
1133	Zirconia-supported solid-state electrolytes for high-safety lithium secondary batteries in a wide temperature range. <b>2017</b> , 5, 24677-24685		25
1132	Superior Blends Solid Polymer Electrolyte with Integrated Hierarchical Architectures for All-Solid-State Lithium-Ion Batteries. <b>2017</b> , 9, 36886-36896		78
1131	Porous Perovskite $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.8}\text{Mn}_{0.2}\text{O}_3$ Nanofibers Loaded with $\text{RuO}_2$ Nanosheets as an Efficient and Durable Bifunctional Catalyst for Rechargeable $\text{LiO}_2$ Batteries. <b>2017</b> , 7, 7737-7747		79
1130	Recent advances in printable secondary batteries. <b>2017</b> , 5, 22442-22458		40
1129	Amorphous modified silyl-terminated 3D polymer electrolyte for high-performance lithium metal battery. <i>Nano Energy</i> , <b>2017</b> , 41, 646-653	17.1	67
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1112	Synthesis of the solid electrolyte Li <sub>2</sub> O <sub>11</sub> F <sub>2</sub> O <sub>5</sub> and its application for lithium-ion batteries. <b>2017</b> , 308, 40-45	6
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1089	Fluoroethylene Carbonate-Based Electrolyte with 1 M Sodium Bis(fluorosulfonyl)imide Enables High-Performance Sodium Metal Electrodes. <b>2018</b> , 10, 15270-15280	85
1088	A $\text{K}_2\text{Fe}_4\text{O}_7$ superionic conductor for all-solid-state potassium metal batteries. <b>2018</b> , 6, 8413-8418	50
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1086	Synthesis of Ta and Ca doped $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ solid-state electrolyte via simple solution method and its application in suppressing shuttle effect of Li-S battery. <b>2018</b> , 744, 386-394		39
1085	Developing lithiated polyvinyl formal based single-ion conductor membrane with a significantly improved ionic conductivity as solid-state electrolyte for batteries. <b>2018</b> , 552, 349-356		24
1084	A durable and safe solid-state lithium battery with a hybrid electrolyte membrane. <i>Nano Energy</i> , <b>2018</b> , 45, 413-419	17.1	322
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1082	$\text{Li}_0.33\text{La}_0.557\text{TiO}_3$ ceramic nanofiber-enhanced polyethylene oxide-based composite polymer electrolytes for all-solid-state lithium batteries. <b>2018</b> , 6, 4279-4285		188
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1078	Sustainable Interfaces between Si Anodes and Garnet Electrolytes for Room-Temperature Solid-State Batteries. <b>2018</b> , 10, 2185-2190		28
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1076	PEO/garnet composite electrolytes for solid-state lithium batteries: From $\square$ ceramic-in-polymer to $\square$ polymer-in-ceramic $\square$ <i>Nano Energy</i> , <b>2018</b> , 46, 176-184	17.1	672
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1008	Mitigating Interfacial Potential Drop of Cathode-Solid Electrolyte via Ionic Conductor Layer To Enhance Interface Dynamics for Solid Batteries. <b>2018</b> , 140, 6767-6770	137
1007	Special report on the achievements realized by researchers of Chinese Academy of Sciences in the field of energy storage technologies. <b>2018</b> , 18, 285-294	3
1006	All-solid-state batteries with slurry coated LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> composite cathode and Li <sub>6</sub> PS <sub>5</sub> Cl electrolyte: Effect of binder content. <b>2018</b> , 391, 73-79	109
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998	High-performance polycrystalline RuO <sub>x</sub> cathodes for thin film Li-ion batteries. <b>2018</b> , 283, 228-233	4
997	Water-tolerant lithium metal cycling in high lithium concentration phosphonium-based ionic liquid electrolytes. <b>2018</b> , 2, 2276-2283	20

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993	Interfacial challenges and progress for inorganic all-solid-state lithium batteries. <b>2018</b> , 284, 177-187		67
992	All-solid-state planar integrated lithium ion micro-batteries with extraordinary flexibility and high-temperature performance. <i>Nano Energy</i> , <b>2018</b> , 51, 613-620	17.1	68
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989	A facile strategy to enhance the stability of Li-rich cathode: Electrochemical performance improvement and mechanism exploration. <b>2018</b> , 44, 17425-17433		15
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822	Recent Progress in All-Solid-State Lithium-Sulfur Batteries Using High Li-Ion Conductive Solid Electrolytes. <b>2019</b> , 2, 199-230	118
821	Recent Advances in Rational Electrode Designs for High-Performance Alkaline Rechargeable Batteries. <b>2019</b> , 29, 1807847	113
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721	Enhanced Surface Interactions Enable Fast Li Conduction in Oxide/Polymer Composite Electrolyte. <b>2020</b> , 59, 4131-4137	114
720	Novel dry deposition of LiNbO <sub>3</sub> or Li <sub>2</sub> ZrO <sub>3</sub> on LiNi <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> O <sub>2</sub> for high performance all-solid-state lithium batteries. <b>2020</b> , 386, 123975	27
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717	Cathode-doped sulfide electrolyte strategy for boosting all-solid-state lithium batteries. <b>2020</b> , 391, 123529	16
716	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <b>2020</b> , 59, 10732-10745	56
715	Dual regulation of Li <sup>+</sup> migration of Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> M <sub>0.6</sub> O <sub>12</sub> (M = Sb, Ta, Nb) by bottleneck size and bond length of MO. <b>2020</b> , 103, 2483-2490	13
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709	Li <sub>2</sub> CO <sub>3</sub> : A Critical Issue for Developing Solid Garnet Batteries. <b>2020</b> , 5, 252-262	96

708	Creation of Lithium-Ion-Conducting Channels in Gel Polymer Electrolytes through Non-Solvent-Induced Phase Separation for High-Rate Lithium-Ion Batteries. <b>2020</b> , 8, 2138-2146	10
707	A Multifunctional Separator Enables Safe and Durable Lithium/Magnesium Sulfur Batteries under Elevated Temperature. <b>2020</b> , 10, 1902023	31
706	Microstructure and ionic conductivity of Li <sub>1.5</sub> Al <sub>0.5</sub> Ge <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> solid electrolyte prepared by spark plasma sintering. <b>2020</b> , 46, 7634-7641	4
705	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <b>2020</b> , 132, 10821-10834	17
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698	A quasi-solid composite electrolyte with dual salts for dendrite-free lithium metal batteries. <b>2020</b> , 44, 1817-1824	27
697	Lithium superionic conduction in Li <sub>10</sub> P <sub>4</sub> N <sub>10</sub> : A promising inorganic solid electrolyte candidate. <b>2020</b> , 477, 228744	3
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695	Reviewing the current status and development of polymer electrolytes for solid-state lithium batteries. <b>2020</b> , 33, 188-215	93
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691	Effects of a dual doping strategy on the structure and ionic conductivity of garnet-type electrolyte. <b>2020</b> , 356, 115427	8

690	Dihexyl-Substituted Poly(3,4-Propylenedioxythiophene) as a Dual Ionic and Electronic Conductive Cathode Binder for Lithium-Ion Batteries. <b>2020</b> , 32, 9176-9189	16
689	Highly Conductive Garnet-Type Electrolytes: Access to LiLaZrTaO Prepared by Molten Salt and Solid-State Methods. <b>2020</b> , 12, 48580-48590	10
688	Preparation and Discharge Performance of Thin-Film Thermal Battery. <b>2020</b> , 8, 2000737	2
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686	Novel and highly efficient catalyst for LiD <sub>2</sub> battery: Porous LaCo <sub>0.6</sub> Ni <sub>0.4</sub> O <sub>3</sub> nanofibers decorated with ultrafine Co <sub>3</sub> O <sub>4</sub> nanoparticles. <b>2020</b> , 363, 137235	4
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680	Improvement of Lithium Metal Polymer Batteries through a Small Dose of Fluorinated Salt. <b>2020</b> , 11, 6133-6138	9
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678	The rise and fall of American lithium. <b>2020</b> , 162, 105034	12
677	Recent advances in alloy-based anode materials for potassium ion batteries. <b>2020</b> , 39, 970-988	36
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530	Li-ion conductivity and electrochemical stability of A-site deficient perovskite-structured Li <sub>3x-y</sub> La <sub>1-x</sub> Al <sub>1-y</sub> Ti <sub>y</sub> O <sub>3</sub> electrolytes. <b>2021</b> , 133, 111019		7
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526	Advanced electrolyte design for stable lithium metal anode: From liquid to solid. <i>Nano Energy</i> , <b>2021</b> , 80, 105516	17.1	34
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514	High-Energy All-Solid-State Organic Lithium Batteries Based on Ceramic Electrolytes. <b>2021</b> , 6, 201-207		16
513	Advancement of technology towards high-performance non-aqueous aluminum-ion batteries. <b>2021</b> , 57, 169-188		7
512	High capacity $\text{MgH}_2$ composite electrodes for all-solid-state Li-ion battery operating at ambient temperature. <b>2021</b> , 46, 1030-1037		4
511	Nanocomposite with fast $\text{Li}^+$ conducting percolation network: Solid polymer electrolyte with $\text{Li}^+$ non-conducting filler. <i>Nano Energy</i> , <b>2021</b> , 79, 105475	17.1	17

510	Lithium/Sulfide All-Solid-State Batteries using Sulfide Electrolytes. <b>2021</b> , 33, e2000751	105
509	Combined wet milling and heat treatment in water vapor for producing amorphous to crystalline ultrafine LiAlTi(PO) solid electrolyte particles.. <b>2021</b> , 11, 14796-14804	2
508	Composite Solid Electrolytes with NASICON-Type LATP and PVDF/PEO for Solid-State Lithium Batteries. <b>2021</b> , 60, 1494-1500	9
507	Effects of Annealing on Electrochemical Properties of Solvothermally Synthesized CuSnS Anode Nanomaterials. <b>2021</b> , 16, 17	
506	Stereolithographic Additive Manufacturing of Solid Electrolyte Sheets with Micro Emboss Patterns and Microstructural Densifications through Pressing and Heating Treatments. <b>2021</b> , 10, 279-283	
505	Polyaddition enabled functional polymer/inorganic hybrid electrolytes for lithium metal batteries. <b>2021</b> , 9, 6881-6889	1
504	Recent developments in battery technologies. <b>2021</b> , 517-543	1
503	Flame-retardant single-ion conducting polymer electrolytes based on anion acceptors for high-safety lithium metal batteries. <b>2021</b> , 9, 7692-7702	8
502	High performance LATP thin film electrolytes for all-solid-state microbattery applications. <b>2021</b> , 9, 17760-17769	
501	matExplorer: Visual Exploration on Predicting Ionic Conductivity for Solid-state Electrolytes. <b>2021</b> , PP,	2
500	Green and Sustainable Battery Materials. <b>2021</b> , 1-29	
499	Formation of Stable Interphase of Polymer-in-Salt Electrolyte in All-Solid-State Lithium Batteries. <b>2021</b> , 2021, 1-10	18
498	Gel-polymer electrolytes based on polyurethane ionomers for lithium power sources.. <b>2021</b> , 11, 21548-21559	2
497	Quantitative Measurement of Li-Ion Concentration and Diffusivity in Solid-State Electrolyte. <b>2021</b> , 4, 784-790	3
496	Surface-modified boron nitride as a filler to achieve high thermal stability of polymer solid-state lithium-metal batteries. <b>2021</b> , 9, 20530-20543	8
495	In situ generation of a soft-tough asymmetric composite electrolyte for dendrite-free lithium metal batteries. <b>2021</b> , 9, 4018-4025	12
494	A facile preparation of PEO/ClO <sub>4</sub> -doped SiO <sub>2</sub> composite solid-state electrolyte with improved electrochemical performance for lithium-metal batteries. <b>2021</b> , 5, 1538-1547	4
493	Peculiarly fast Li-ion conduction mechanism in a succinonitrile-based molecular crystal electrolyte: a molecular dynamics study. <b>2021</b> , 9, 14897-14903	5

492	The effect of lithium excess toward synthesis of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ cubic garnet-type as solid electrolyte for all solid-state rechargeable batteries. <b>2021</b> ,	1
491	Advances in Electrolytes for Sodium-Sulfur Batteries. <b>2021</b> ,	0
490	Interplay between multiple doping elements in high-voltage $\text{LiCoO}_2$ . <b>2021</b> , 9, 5702-5710	7
489	Chlorine-doped $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ as an electrolyte for solid lithium metal batteries. <b>2021</b> , 5, 5336-5343	8
488	Cryogenic Electron Microscopy Reveals that Applied Pressure Promotes Short Circuits in Li Batteries.	
487	Reactivity-guided formulation of composite solid polymer electrolytes for superior sodium metal batteries. <b>2021</b> , 9, 18632-18643	5
486	Lithium Salt-Induced In Situ Living Radical Polymerizations Enable Polymer Electrolytes for Lithium-Ion Batteries. <b>2021</b> , 54, 874-887	26
485	Stoichiometric tuning of lattice flexibility and Na diffusion in $\text{NaAlSiO}_4$ : quasielastic neutron scattering experiment and ab initio molecular dynamics simulations. <b>2021</b> , 9, 16129-16136	0
484	In Situ Diffusion Measurements of a NASICON-Structured All-Solid-State Battery Using Muon Spin Relaxation. <b>2021</b> , 4, 1527-1536	4
483	Solvothermal synthesis high lithium ionic conductivity of Gd-doped $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ solid electrolyte. <b>2021</b> , 14, 2140002	0
482	Solid Polymer Electrolytes with High Conductivity and Transference Number of Li Ions for Li-Based Rechargeable Batteries. <b>2021</b> , 8, 2003675	35
481	A Systematic Study of Vinyl Ether-Based Poly(Ethylene Oxide) Side-Chain Polymer Electrolytes. <b>2021</b> , 3, 1573-1582	10
480	Incorporating multifunctional $\text{LiAlSiO}_4$ into polyethylene oxide for high-performance solid-state lithium batteries. <b>2021</b> , 53, 116-123	10
479	Recovery of Lithium from Brine with a High Mg/Li Ratio Using Hydroxyl-Functionalized Ionic Liquid and Tri-n-butyl Phosphate. <b>2021</b> , 7, 256-265	1
478	Tortuosity Modulation toward High-Energy and High-Power Lithium Metal Batteries. <b>2021</b> , 11, 2003663	13
477	Electrochemical Properties of Cathode according to the Type of Sulfide Electrolyte and the Application of Surface Coating. <b>2021</b> , 12, 126-136	3
476	High $\text{Li}^+$ and $\text{Na}^+$ Conductivity in New Hybrid Solid Electrolytes based on the Porous MIL-121 Metal Organic Framework. <b>2021</b> , 11, 2003542	4
475	Computational insight into the structural properties and redox chemistry of poly (ethylene carbonate) as electrolytes for Lithium batteries. <b>2021</b> , 882, 114995	1

474	Signal Origin of Electrochemical Strain Microscopy and Link to Local Chemical Distribution in Solid State Electrolytes.. <b>2021</b> , 5, e2001279	4
473	Influence of lithium phosphate on the structural and lithium-ion conducting properties of lithium aluminum titanium phosphate pellets. <b>2021</b> , 27, 2473-2481	0
472	Determination of Solid-State Li Diffusion Coefficient of Lithium Insertion Materials from Rate Capability Tests on Diluted Electrode. <b>2021</b> , 89, 157-161	5
471	Self-adaptive multiblock-copolymer-based hybrid solid-state electrolyte for safe and stable lithium-metal battery. <b>2021</b> , 371, 137702	2
470	3D glass fiber cloth reinforced polymer electrolyte for solid-state lithium metal batteries. <b>2021</b> , 621, 118940	29
469	Chemical stability of Li4PS4I solid electrolyte against hydrolysis. <b>2021</b> , 22, 100918	11
468	Bifunctional In Situ Polymerized Interface for Stable LAGP-Based Lithium Metal Batteries. <b>2021</b> , 8, 2100072	7
467	Addition of Calcined Na2B4O7 on the Synthesis of Li7La3Zr2O12. <b>2021</b> , 24, 77-84	1
466	Composite Lithium Protective Layer Formed In Situ for Stable Lithium Metal Batteries. <b>2021</b> , 13, 12099-12105	9
465	Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications. <b>2021</b> , 33, e2004577	51
464	Simulation of Fabrication and Degradation of All-Solid-State Batteries with Ductile Particles. <b>2021</b> , 168, 030538	4
463	Manufacturing scalability implications of materials choice in inorganic solid-state batteries. <b>2021</b> , 5, 564-580	11
462	Garnet-Based Solid-State Li Batteries: From Materials Design to Battery Architecture. <b>2021</b> , 6, 1920-1941	19
461	A Decade of Progress on Solid-State Electrolytes for Secondary Batteries: Advances and Contributions. <b>2021</b> , 31, 2100891	25
460	Atomic Layer Deposition of Ni-Co-O Thin-Film Electrodes for Solid-State LIBs and the Influence of Chemical Composition on Overcapacity. <b>2021</b> , 11,	5
459	Coupled nonlinear stress and electric field numerical simulation for all-solid-state lithium-ion batteries. <b>2021</b> , 8, 100049	0
458	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. <b>2021</b> , 121, 5986-6056	48
457	Miniaturized Cells. <b>2021</b> , 205-262	

456	High Performance Composite Polymer Electrolytes for Lithium-Ion Batteries. <b>2021</b> , 31, 2101380	34
455	Flexible Quasi-Solid-State Composite Electrolyte of Poly (Propylene Glycol)-co-Pentaerythritol Triacrylate/LiAlGe(PO) for High-Performance Lithium-Sulfur Battery. <b>2021</b> , 14,	3
454	An energy conservation and environmental improvement solution-ultra-capacitor/battery hybrid power source for vehicular applications. <b>2021</b> , 44, 100998	4
453	Stabilizing electrode/electrolyte interface in Li-S batteries using liquid/solid Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> hybrid electrolyte. <b>2021</b> , 546, 149034	6
452	Area Oversizing of Lithium Metal Electrodes in Solid-State Batteries: Relevance for Overvoltage and thus Performance?. <b>2021</b> , 14, 2163-2169	5
451	Li metal coated with Li <sub>3</sub> PO <sub>4</sub> film via atomic layer deposition as battery anode. <b>2021</b> , 27, 2445-2454	2
450	Preparation and properties of a novel green solid polymer electrolyte for all-solid-state lithium battery. <b>2021</b> , 138, 50945	2
449	Visual Analysis on Machine Learning Assisted Prediction of Ionic Conductivity for Solid-State Electrolytes. <b>2021</b> ,	1
448	Strategies to Boost Ionic Conductivity and Interface Compatibility of Inorganic - Organic Solid Composite Electrolytes. <b>2021</b> , 36, 291-308	26
447	Designing inorganic electrolytes for solid-state Li-ion batteries: A perspective of LGPS and garnet. <b>2021</b> , 50, 418-418	15
446	Ultrathin Layered Double Hydroxide Nanosheets Enabling Composite Polymer Electrolyte for All-Solid-State Lithium Batteries at Room Temperature. <b>2021</b> , 31, 2101168	20
445	Environment-Friendly Design of Lithium Batteries Starting from Biopolymer-Based Electrolyte. <b>2021</b> , 16, 2130006	0
444	Insights into the Electrochemical Stability and Lithium Conductivity of LiMS (M = Si, Ge, and Sn). <b>2021</b> , 13, 22438-22447	3
443	Enhanced performance of MgH <sub>2</sub> composite electrode using glass-ceramic electrolytes for all-solid-state Li-ion batteries. <b>2021</b> , 863, 158729	6
442	Quasi-Solid-State LiO <sub>2</sub> Batteries Performance Enhancement Using an Integrated Composite Polymer-Based Architecture. <b>2021</b> , 4, 6221-6232	1
441	Origin of High Interfacial Resistance in Solid-State Batteries: LLTO/LCO Half-Cells**. <b>2021</b> , 8, 1847-1857	1
440	The critical role of inorganic nanofillers in solid polymer composite electrolyte for Li <sup>+</sup> transportation. <b>2021</b> , 3, 482-508	18
439	An advanced solid polymer electrolyte composed of poly(propylene carbonate) and mesoporous silica nanoparticles for use in all-solid-state lithium-ion batteries. <b>2021</b> , 37, 476-490	23

438	Safety challenges and safety measures of Li-ion batteries. <b>2021</b> , 9, 1647-1672	10
437	A Stretchable and Safe Polymer Electrolyte with a Protecting-Layer Strategy for Solid-State Lithium Metal Batteries. <b>2021</b> , 8, 2003241	16
436	Solvent extraction of lithium from hydrochloric acid leaching solution of high-alumina coal fly ash. <b>2021</b> , 771, 138510	2
435	Solid Polymer Electrolyte Membranes on the Basis of Fluorosiloxane Matrix. <b>2021</b> , 15, 198-204	0
434	Recent Advances and Perspectives on the Polymer Electrolytes for Sodium/Potassium-Ion Batteries. <b>2021</b> , 17, e2006627	33
433	Development of sputtered nitrogen-doped $\text{Li}_{1+x}\text{Al}_x\text{Ge}_{2-x}(\text{PO}_4)_3$ thin films for solid state batteries. <b>2021</b> , 364, 115613	1
432	Direct View on the Origin of High $\text{Li}^+$ Transfer Impedance in All-Solid-State Battery. <b>2021</b> , 31, 2103971	5
431	Hybrid Polymer-Garnet Materials for All-Solid-State Energy Storage Devices. <b>2021</b> , 6, 15551-15558	0
430	A graphene oxide coated sulfide-based solid electrolyte for dendrite-free lithium metal batteries. <b>2021</b> , 177, 52-59	5
429	Review on Computational-Assisted to Experimental Synthesis, Interfacial Perspectives of Garnet-Solid Electrolytes for All-Solid-State Lithium Batteries. <b>2021</b> , 168, 060529	7
428	Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. 2100748	26
427	Recent smart lithium anode configurations for high-energy lithium metal batteries. <b>2021</b> , 38, 262-275	14
426	Lanthanide doping of $\text{Li}_7\text{La}_{3-x}\text{M}_x\text{Zr}_2\text{O}_{12}$ (M=Sm, Dy, Er, Yb; $x=0.1\bar{1}.0$ ) and dopant size effect on the electrochemical properties. <b>2021</b> , 47, 17034-17040	2
425	Improving the Interfacial Contact between $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ and Lithium Anode by Depositing a Film of Silver. <b>2021</b> , 168, 060515	0
424	Fabrication of $\text{LiFePO}_4$ -Based Composite Cathode Deposited on LLTO Li-Ion Conducting Solid Electrolyte via Slurry Coating and Hot-Pressing. 319, 30-34	
423	A molecular dynamics study of a fully zwitterionic copolymer/ionic liquid-based electrolyte: Li transport mechanisms and ionic interactions. <b>2021</b> , 42, 1689-1703	0
422	Rationally Designed PEGDA-LLZTO Composite Electrolyte for Solid-State Lithium Batteries. <b>2021</b> , 13, 30703-30711	5
421	Stabilizing the Na/ $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ interface through intrinsic feature regulation of $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ . <b>2021</b> , 2, 100478	2

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419	Polyether Single and Double Crystalline Blends and the Effect of Lithium Salt on Their Crystallinity and Ionic Conductivity. <b>2021</b> , 13,	
418	Effect of temperature on concentrated electrolytes for advanced lithium ion batteries. <b>2021</b> , 154, 214503	2
417	Energy Storage Ceramics: A Bibliometric Review of Literature. <b>2021</b> , 14,	2
416	Unusually High Ion Conductivity in Large-Scale Patternable Two-Dimensional MoS Film. <b>2021</b> ,	1
415	Revealing and excluding the root cause of the electronic conductivity in Mg-ion $\text{MgSc}_2\text{Se}_4$ solid electrolyte. <b>2021</b> , 23, 100998	1
414	Effects of Applied Interfacial Pressure on Li-Metal Cycling Performance and Morphology in 4 M LiFSI in DME. <b>2021</b> , 13, 31668-31679	4
413	Rational Design of a Trifunctional Binder for Hard Carbon Anodes Showing High Initial Coulombic Efficiency and Superior Rate Capability for Sodium-Ion Batteries. <b>2021</b> , 31, 2104137	4
412	Thermal transport in lithium-ion battery: A micro perspective for thermal management. <b>2022</b> , 17, 1	3
411	Unique Carbonate-Based Single Ion Conducting Block Copolymers Enabling High-Voltage, All-Solid-State Lithium Metal Batteries. <b>2021</b> , 54, 6911-6924	8
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409	Thin-film solid-state lithium-ion batteries. Materials and technology. <b>2021</b> , 1967, 012043	
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407	PEO Infiltration of Porous Garnet-Type Lithium-Conducting Solid Electrolyte Thin Films. <b>2021</b> , 4, 421-436	1
406	Li-ion conducting glass ceramic (LICGC)/reduced graphene oxide sandwich-like structure composite for high-performance lithium-ion batteries. <b>2021</b> , 500, 229976	4
405	Investigation of Sputter-Deposited Thin Films of Lithium Phosphorous Sulfuric Oxynitride (LiPSON) as Solid Electrolyte for Electrochromic Devices. <b>2021</b> , 258, 2100032	0
404	Ternary Si-SiO-Al Composite Films as High-Performance Anodes for Lithium-Ion Batteries. <b>2021</b> , 13, 34447-34456	4
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- 402 Recent Advances in Application of Ionic Liquids in Electrolyte of Lithium Ion Batteries. **2021**, 40, 102659 14
- 401 Effect of Coordination Behavior in Polymer Electrolytes for Sodium-Ion Conduction: A Molecular Dynamics Study of Poly(ethylene oxide) and Poly(tetrahydrofuran). **2021**, 54, 8553-8562 1
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- 399 Interface Improvement of LiLaZrTaO@LaSnO and Cathode Transfer Printing Technology with Splendid Electrochemical Performance for Solid-State Lithium Batteries. **2021**, 13, 39414-39423
- 398 Review of Inorganic Solid State Electrolytes: Insights on Current and Future Scope. **2021**, 168, 080536 2
- 397 Extraction of Lithium from Magnesium-Rich Solution Using Tri-n-butyl Phosphate and Sodium Hexafluorophosphate. **2021**, 7, 1368-1378 4
- 396 A Monolithic Solid-State Sodium-Sulfur Battery with Al-Doped NaZr(SiPO) Electrolyte. **2021**, 13, 42927-42934 4
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383	Enhanced Cyclability of CrO Cathode for PEO-Based All-Solid-State Lithium-Ion Batteries by Atomic Layer Deposition of AlO. <b>2021</b> , 14,	1
382	All-solid lithium-sulfur batteries: present situation and future progress. <b>2021</b> , 27, 4937	3
381	Heterovalent Cation Substitution to Enhance the Ionic Conductivity of Halide Electrolytes. <b>2021</b> , 13, 47610-47618	4
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376	Strategies of binder design for high-performance lithium-ion batteries: a mini review. 1	3
375	Polymer electrolytes and interfaces in solid-state lithium metal batteries. <b>2021</b> ,	21
374	A solid-liquid hybrid electrolyte for lithium ion batteries enabled by a single-body polymer/indium tin oxide architecture. <b>2021</b> , 54, 475501	1
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370	Enabling lithium metal battery with flexible polymer/garnet type solid oxide composite electrolyte. <b>2021</b> , 368, 115710	0
369	Si nanoparticles embedded in carbon nanofiber sheathed with Li <sub>6</sub> PS <sub>5</sub> Cl as an anode material for all-solid-state batteries. <b>2021</b> , 510, 230425	5
368	'Environment-friendly' polymer solid electrolyte membrane via a rapid surface-initiating polymeration strategy. <b>2021</b> , 421, 129710	8
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366	Insights into evolution processes and degradation mechanisms of anion-tunable interfacial stability in all-solid-state lithium-sulfur batteries. <b>2021</b> , 41, 642-649	2
365	Lithium bis(trifluoromethanesulfonyl)imide blended in polyurethane acrylate photocurable solid polymer electrolytes for lithium-ion batteries. <b>2021</b> , 62, 485-496	4
364	High-efficiency and low-cost preparation of solid electrolytes Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> based on molten salt method. <b>2021</b> , 881, 160620	4
363	A mono-comb poly (siloxane-g-ethylene oxide) electrospun fiber membrane for solid-state sodium ion batteries. <b>2021</b> , 426, 131901	4
362	Fast Li-ion transport pathways via 3D continuous networks in homogeneous garnet-type electrolyte for solid-state lithium batteries. <b>2021</b> , 43, 190-201	4
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349	Pulsed Laser Deposition as a Tool for the Development of All Solid-State Microbatteries. <b>2021</b> , 104, e2000203	9

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345	The effects of temperature and membrane thickness on the performance of aqueous alkaline redox flow batteries using naphthoquinone and ferrocyanide as redox couple. <b>2020</b> , 37, 2326-2333	6
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