CITATION REPORT List of articles citing

Recent Advances in Inorganic Solid Electrolytes for Lithium Batteries

DOI: 10.3389/fenrg.2014.00025 Frontiers in Energy Research, 2014, 2, .

Source: https://exaly.com/paper-pdf/57448212/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
219	Electrolytic properties of Na+-doped pillared montmorillonite. 2015 , 10, 872-877		
218	Safer Electrolytes for Lithium-Ion Batteries: State of the Art and Perspectives. 2015 , 8, 2154-75		474
217	Very fast bulk Li ion diffusivity in crystalline Li(1.5)Al(0.5)Ti(1.5)(PO4)3 as seen using NMR relaxometry. 2015 , 17, 32115-21		59
216	Role of IonIbn Correlations on Fast Ion Transport: Molecular Dynamics Simulation of Na2Ni2TeO6. 2015 , 119, 18030-18037		20
215	Ion Dynamics in Solid Electrolytes: NMR Reveals the Elementary Steps of Li+ Hopping in the Garnet Li6.5La3Zr1.75Mo0.25O12. <i>Chemistry of Materials</i> , 2015 , 27, 6571-6582	9.6	49
214	Toward Understanding the Lithium Transport Mechanism in Garnet-type Solid Electrolytes: Li+ Ion Exchanges and Their Mobility at Octahedral/Tetrahedral Sites. <i>Chemistry of Materials</i> , 2015 , 27, 6650-66	5 99 6	78
213	Advances of aqueous rechargeable lithium-ion battery: A review. 2015 , 274, 237-251		267
212	Preparation, Structural Characterization, and Electrical Conductivity of Highly Ion-Conducting Glasses and Glass Ceramics in the System Li1+xAlxSnyGe2-(x+y)(PO4)3. 2016 , 120, 14556-14567		21
211	Lithium-Ion Mobility in Quaternary Boro-Germano-Phosphate Glasses. 2016 , 120, 3978-87		17
210	Mixed Electronic and Ionic Conductor-Coated Cathode Material for High-Voltage Lithium Ion Battery. 2016 , 8, 12205-10		40
209	Challenges and prospects of the role of solid electrolytes in the revitalization of lithium metal batteries. 2016 , 4, 17251-17259		202
208	Investigating the all-solid-state batteries based on lithium garnets and a high potential cathode - LiMnNiO. 2016 , 8, 18412-18420		48
207	Unravelling Li-Ion Transport from Picoseconds to Seconds: Bulk versus Interfaces in an Argyrodite Li6PS5Cl-Li2S All-Solid-State Li-Ion Battery. 2016 , 138, 11192-201		141
206	Ultra-slow Li ion jump diffusion in Li2SnO3 studied by two-time 7Li spin-alignment echo NMR and 7Li NMR relaxometry. 2016 , 293, 85-93		3
205	Plating a Dendrite-Free Lithium Anode with a Polymer/Ceramic/Polymer Sandwich Electrolyte. 2016 , 138, 9385-8		662
204	Membrane Separators for Electrochemical Energy Storage Technologies. 2016 , 417-462		1
203	A dense transparent polymeric single ion conductor for lithium ion batteries with remarkable long-term stability. 2016 , 336, 75-82		60

202	Structural origin of the superionic Na conduction in Na2B10H10closo-borates and enhanced conductivity by Na deficiency for high performance solid electrolytes. 2016 , 4, 17740-17748	50
201	Ion-ion repulsion and entropic effects on Na+ transport in Na2Ni2TeO6: Molecular dynamics study. 2016 ,	2
200	Synthesis and conductivity studies of Li1.5Al0.5Ge1.5(PO4)3 solid electrolyte. 2016 , 52, 279-284	10
199	An Unexpected Pathway: 6Li-Exchange NMR Spectroscopy Points to Vacancy-Driven Out-of-Plane Li-Ion Hopping in Crystalline Li2SnO3. 2016 , 120, 3130-3138	18
198	Is Li-doped MgAl2O4 a potential solid electrolyte for an all-spinel Li-ion battery?. 2016 , 287, 71-76	14
197	Li+ interstitials as the charge carriers in superionic lithium-rich anti-perovskites. 2016 , 4, 1586-1590	22
196	Inorganic Solid-State Electrolytes for Lithium Batteries: Mechanisms and Properties Governing Ion Conduction. 2016 , 116, 140-62	1273
195	Preparation of Li7La3(Zr2[Nb)O12 (x= 0fl.5) and Li3BO3/LiBO2 composites at low temperatures using a solgel process. 2016 , 285, 6-12	50
194	A new NASICON lithium ion-conducting glass-ceramic of the Li1+xCrx(GeyTi1))21(PO4)3 system. 2017 , 301, 1-9	18
193	Dual Substitution Strategy to Enhance Li+ Ionic Conductivity in Li7La3Zr2O12 Solid Electrolyte. Chemistry of Materials, 2017 , 29, 1769-1778 9.6	117
192	Electrolytes for Li- and Na-Ion Batteries: Concepts, Candidates, and the Role of Nanotechnology. 2017 , 1-43	7
191	Effects of Mechanical Strain on Ionic Conductivity in the Interface between LiPON and Ni-Mn Spinel. 2017 , 164, A594-A599	2
190	Emerging Prototype Sodium-Ion Full Cells with Nanostructured Electrode Materials. 2017, 13, 1604181	88
189	Boosting the electrochemical performance of Li-garnet based all-solid-state batteries with Li4Ti5O12 electrode: Routes to cheap and large scale ceramic processing. 2017 , 38, 182-188	15
188	Enhancing ionic conductivity in composite polymer electrolytes with well-aligned ceramic nanowires. 2017 , 2,	520
188		520 20
	nanowires. 2017 , 2,	

184	Superior polymer backbone with poly(arylene ether) over polyamide for single ion conducting polymer electrolytes. 2017 , 525, 349-358		47
183	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. 2017 , 117, 13123-13186		291
182	Fast Li-Ion Dynamics in Stoichiometric Li2Sta2Se3taeSe2 Glasses. <i>Chemistry of Materials</i> , 2017 , 29, 8704-8710	9.6	15
181	Computational and Experimental Investigation of the Electrochemical Stability and Li-Ion Conduction Mechanism of LiZr2(PO4)3. <i>Chemistry of Materials</i> , 2017 , 29, 8983-8991	9.6	53
180	Accessing the bottleneck in all-solid state batteries, lithium-ion transport over the solid-electrolyte-electrode interface. 2017 , 8, 1086		212
179	Tailored perovskite Li0.33La0.56TiO3 via an adipic acid-assisted solution process: A promising solid electrolyte for lithium batteries. 2017 , 729, 338-343		11
178	Revealing the relation between the structure, Li-ion conductivity and solid-state battery performance of the argyrodite Li6PS5Br solid electrolyte. 2017 , 5, 21178-21188		52
177	Effect of sulfur addition on the electrochemical performance of lithium-vanadium-phosphate glasses as electrodes for energy storage devices. 2017 , 804, 36-41		5
176	Construction of interconnected micropores in poly(arylene ether) based single ion conducting blend polymer membranes via vapor-induced phase separation. 2017 , 544, 47-57		29
175	Insights from Local Network Structures and Localized Diffusion on the Ease of Lithium Ion Transport in Two Mixed Glass-Former Systems. 2017 , 121, 17641-17657		11
174	On the way to high-conductivity single lithium-ion conductors. 2017 , 21, 1879-1905		53
173	Effect of Sintering Additives on Relative Density and Li-ion Conductivity of Nb-Doped Li7La3ZrO12 Solid Electrolyte. 2017 , 100, 276-285		51
172	High Coulombic Efficiency of Lithium Plating/Stripping and Lithium Dendrite Prevention. 2017, 45-152		2
171	A review of solid electrolytes for safe lithium-sulfur batteries. 2017 , 60, 1508-1526		79
170	Trends in Effective Diffusion Coefficients for Ion-Exchange Strengthening of Soda-Lime-Silicate Glasses. 2017 , 4,		13
169	Sulfide solid electrolytes for all-solid-state lithium batteries: Structure, conductivity, stability and application. 2018 , 14, 58-74		228
168	A High-Performance and Durable Poly(ethylene oxide)-Based Composite Solid Electrolyte for All Solid-State Lithium Battery. 2018 , 122, 9852-9858		133
167	Enhanced electrochemical performance of Li4Ti5O12 through in-situ coating 70Li2S-30P2S5 solid electrolyte for all-solid-state lithium batteries. 2018 , 752, 8-13		17

(2018-2018)

166	Perspectives for restraining harsh lithium dendrite growth: Towards robust lithium metal anodes. 2018 , 15, 148-170		166
165	Nature of mixed electrical transport in Ag2OInOIP2O5 glasses containing WO3 and MoO3. 2018 , 276, 434-445		19
164	Solid-State Sodium Batteries. 2018 , 8, 1703012		275
163	Designing Safe Electrolyte Systems for a High-Stability Lithium Bulfur Battery. 2018, 8, 1702348		210
162	Cruising in ceramicsdiscovering new structures for all-solid-state batteriesfundamentals, materials, and performances. 2018 , 24, 639-660		33
161	Eutectogels: A New Class of Solid Composite Electrolytes for Li/Li-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 655-662	9.6	51
160	Emerging applications of spark plasma sintering in all solid-state lithium-ion batteries and beyond. 2018 , 391, 10-25		19
159	Structural and Electrochemical Evaluation of Three- and Two-Dimensional Organohalide Perovskites and Their Influence on the Reversibility of Lithium Intercalation. 2018 , 57, 4181-4188		36
158	Characterization of lithium-rich garnet-type Li 6.5 La 2.5 Ba 0.5 ZrTaO 12 for beyond intercalation chemistry-based lithium-ion batteries. 2018 , 318, 71-81		12
157	Recent achievements on sulfide-type solid electrolytes: crystal structures and electrochemical performance. 2018 , 53, 3927-3938		38
156	Lithium and copper transport properties in phosphate glasses: A Molecular Dynamics study. 2018 , 481, 522-529		7
155	Evolution of Boson peak with Li-salt concentration in superionic xLi2SO4[[1☑]LiPO3 glasses. 2018 , 551, 315-319		1
154	Ionic liquid/ether-plasticized quasi-solid-state electrolytes for long-life lithiumBxygen cells. 2018 , 42, 19521-19527		1
153	Slurry-Based Processing of Solid Electrolytes: A Comparative Binder Study. 2018 , 165, A3993-A3999		29
152	A 4 V Cathode Compatible, Superionic Conductive Solid Polymer Electrolyte for Solid Lithium Metal Batteries with Long Cycle Life. 2018 , 1, 6064-6071		40
151	An AB alternating diblock single ion conducting polymer electrolyte membrane for all-solid-state lithium metal secondary batteries. 2018 , 566, 181-189		26
150	Properties of Lithium Trivanadate Film Electrodes Formed on Garnet-Type Oxide Solid Electrolyte by Aerosol Deposition. 2018 , 11,		12
149	Facile Synthesis toward the Optimal Structure-Conductivity Characteristics of the Argyrodite LiPSCl Solid-State Electrolyte. 2018 , 10, 33296-33306		98

148	Progress and future prospects of high-voltage and high-safety electrolytes in advanced lithium batteries: from liquid to solid electrolytes. 2018 , 6, 11631-11663		166
147	Progress in solid electrolytes toward realizing solid-state lithium batteries. 2018 , 394, 74-85		132
146	Formation of self-limited, stable and conductive interfaces between garnet electrolytes and lithium anodes for reversible lithium cycling in solid-state batteries. 2018 , 6, 11463-11470		116
145	Lithium ion conductivity of solid solutions based on Li8ZrO6. 2018 , 22, 2959-2964		1
144	Development of the cold sintering process and its application in solid-state lithium batteries. 2018 , 393, 193-203		53
143	Lithium-ion conducting solid electrolytes of Li1.4Al0.4Ge0.2Ti1.4(PO4)3 and MOx (M = Al, Ti, and Zr) composites. 2018 , 324, 114-127		18
142	Sol-Gel Processing of Solid Electrolytes for Li-Ion Batteries. 2018, 2631-2648		1
141	Electrochemical properties of NASICON-structured glass-ceramics of the Li1+xCrx(GeyTi1-y)2-x(PO4)3 system. 2018 , 283, 1835-1844		2
140	Model Based Assessment of Performance of Lithium-Ion Batteries Using Single Ion Conducting Electrolytes. 2018 , 284, 639-646		10
139	Structure, Chemistry, and Charge Transfer Resistance of the Interface between Li7La3Zr2O12 Electrolyte and LiCoO2 Cathode. <i>Chemistry of Materials</i> , 2018 , 30, 6259-6276	5	79
138	Lithium Conductivity and Meyer-Neldel Rule in Li3PO4[li3VO4[li4GeO4 Lithium Superionic Conductors. <i>Chemistry of Materials</i> , 2018 , 30, 5573-5582	5	48
137	Toward 3D Solid-State Batteries via Atomic Layer Deposition Approach. <i>Frontiers in Energy Research</i> , 2018 , 6,	3	17
136	Enabling room-temperature solid-state lithium-metal batteries with fluoroethylene carbonate-modified plastic crystal interlayers. 2019 , 18, 311-319		60
135	Two-Dimensional Hybrid Halide Perovskite as Electrode Materials for All-Solid-State Lithium Secondary Batteries Based on Sulfide Solid Electrolytes. 2019 , 2, 6569-6576		13
134	The study of lithium vanadium oxide LiV3O8 as an electrode material for all-solid-state lithium-ion batteries with solid electrolyte Li3.4Si0.4P0.6O4. 2019 , 320, 134570		3
133	Interfacial Incompatibility and Internal Stresses in All-Solid-State Lithium Ion Batteries. 2019 , 9, 1901810		46
132	Synthesis and Study of Conductivity of Al-Substituted Li7La3Zr2O12. 2019 , 55, 558-564		2
131	Inorganic sulfide solid electrolytes for all-solid-state lithium secondary batteries. 2019 , 7, 20540-20557		66

(2019-2019)

130	Recent advances on separator membranes for lithium-ion battery applications: From porous membranes to solid electrolytes. 2019 , 22, 346-375	127
129	Ab Initio Study of the Interface of the Solid-State Electrolyte Li9N2Cl3Iwith a Li-Metal Electrode. 2019 , 166, A2048-A2057	10
128	Fabrics of Diverse Chemistries Promote the Formation of Giant Vesicles from Phospholipids and Amphiphilic Block Copolymers. 2019 , 35, 9264-9273	3
127	Lithium Ion Diffusion Mechanism and Associated Defect Behaviors in Crystalline Li1+xAlxGe2I(PO4)3 Solid-State Electrolytes. 2019 , 123, 27385-27398	18
126	Ionic Conductivity of Lithium Germanium Phosphate Glass-Ceramics. 2019, 123, 23312-23322	8
125	A bird's-eye view of Li-stuffed garnet-type Li7La3Zr2O12 ceramic electrolytes for advanced all-solid-state Li batteries. 2019 , 12, 2957-2975	192
124	Insights into a layered hybrid solid electrolyte and its application in long lifespan high-voltage all-solid-state lithium batteries. 2019 , 7, 3882-3894	48
123	Pulsed Laser Deposited Films for Microbatteries. 2019 , 9, 386	31
122	On the Functionality of Coatings for Cathode Active Materials in Thiophosphate-Based All-Solid-State Batteries. 2019 , 9, 1900626	125
121	Conductivity features of semiconducting tungsten-phosphate glasses. 2019 , 43, 5020-5026	1
120	Charge Transfer and Storage of an Electrochemical Cell and Its Nano Effects. 2019 , 29-87	
119	Thermoelectric harvesters and the internet of things: technological and economic drivers. 2019 , 1, 024001	17
118	Computational investigation of the Mg-ion conductivity and phase stability of MgZr(PO) 2019 , 9, 12590-1259	9513
117	Utmost limits of various solid electrolytes in all-solid-state lithium batteries: A critical review. 2019 , 109, 367-385	94
116	Managing transport properties in composite electrodes/electrolytes for all-solid-state lithium-based batteries. 2019 , 4, 850-871	21
115	An efficient multi-doping strategy to enhance Li-ion conductivity in the garnet-type solid electrolyte Li7La3Zr2O12. 2019 , 7, 8589-8601	56
114	Probing Li ion dynamics in amorphous xLi2SO4?(1 肽)LiPO3 by quasielastic neutron scattering. 2019 , 334, 95-98	9
113	Solid-State Electrolyte. 2019 , 1-9	1

112	Editors' ChoiceUnderstanding Chemical Stability Issues between Different Solid Electrolytes in All-Solid-State Batteries. 2019 , 166, A975-A983	43
111	In situ studies: electrochemistry and scattering. 2019 , 15, 18-26	7
110	The effect of short-range interaction and correlations on the charge and electric field distribution in a model solid electrolyte. 2019 , 335, 156-163	2
109	Polymer-Mineral Composite Solid Electrolytes. 2019 , 4, 2659-2664	
108	Study of Transport Properties and Microstructure of Lithium-Conducting Li0.33La0.56TiO3 Ceramic. 2019 , 92, 1351-1358	O
107	Hierarchically Porous Organic Materials Derived From Copolymers: Preparation and Electrochemical Applications. 2019 , 59, 149-186	4
106	Composite solid electrolytes for all-solid-state lithium batteries. 2019 , 136, 27-46	148
105	Recent advances in Li1+xAlxTi2⊠(PO4)3 solid-state electrolyte for safe lithium batteries. 2019 , 19, 379-400	121
104	Atomistic Insight into Ion Transport and Conductivity in Ga/Al-Substituted LiLaZrO Solid Electrolytes. 2019 , 11, 753-765	24
103	Recent Progress in Lithium Lanthanum Titanate Electrolyte towards All Solid-State Lithium Ion Secondary Battery. 2019 , 44, 265-282	39
102	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. 2020 , 69, 104396	40
101	Liquid-phase synthesis of 100Li3PS4-50LiI-xLi3PO4 solid electrolytes. 2020 , 345, 115184	8
100	Emerging applications of atomic layer deposition for lithium-sulfur and sodium-sulfur batteries. 2020 , 26, 513-533	20
99	Current status and future perspectives of lithium metal batteries. 2020 , 480, 228803	37
98	Facile synthesis and performance of NASICON Li1+xAlxGe2-x(PO4)3 electrolytes for all solid state lithium-ion battery. 2020 , 356, 115454	2
97	An epoxy-reinforced ceramic sheet as a durable solid electrolyte for solid state Na-ion batteries. 2020 , 8, 14528-14537	11
96	Flexible All-Solid-State Li-Ion Battery Manufacturable in Ambient Atmosphere. 2020 , 12, 37067-37078	7
95	Effect of Dopants on the Lithium Metazirconate Conductivity. 2020 , 56, 467-476	2

(2020-2020)

94	Methods for Lithium Ion NASICON Preparation: From Solid-State Synthesis to Highly Conductive Glass-Ceramics. 2020 , 124, 26518-26539		11
93	Probing the Fast Lithium-Ion Transport in Small-Molecule Solid Polymer Electrolytes by Solid-State NMR. 2020 , 53, 10078-10085		5
92	Enabling High-Energy Solid-State Batteries with Stable Anode Interphase by the Use of Columnar Silicon Anodes. 2020 , 10, 2001320		34
91	Tri-Doped BaCeO-BaZrO as a Chemically Stable Electrolyte with High Proton-Conductivity for Intermediate Temperature Solid Oxide Electrolysis Cells (SOECs). 2020 , 12, 38275-38284		14
90	A review of composite solid-state electrolytes for lithium batteries: fundamentals, key materials and advanced structures. 2020 , 49, 8790-8839		153
89	Interfaces in Garnet-Based All-Solid-State Lithium Batteries. 2020 , 10, 2001318		37
88	Solid Electrolyte Interphases on Sodium Metal Anodes. 2020 , 30, 2004891		56
87	Structure and Diffusion Pathways in Li6PS5Cl Argyrodite from Neutron Diffraction, Pair-Distribution Function Analysis, and NMR. <i>Chemistry of Materials</i> , 2020 , 32, 8420-8430	9.6	9
86	NMR Investigations of Crystalline and Glassy Solid Electrolytes for Lithium Batteries: A Brief Review. 2020 , 21,		10
85	Atomic layer deposition of solid-state electrolytes for next-generation lithium-ion batteries and beyond: Opportunities and challenges. 2020 , 30, 296-328		30
84	Effect of Fland B3+ ions and heat treatment on the enhancement of electrochemical and electrical properties of nanosized LiTi2(PO4)3 glass-ceramic for lithium-ion batteries. 2020 , 832, 154943		4
83	Simultaneously enhancing the thermal stability and electrochemical performance of solid polymer electrolytes by incorporating rod-like Zn2(OH)BO3 particles. 2020 , 45, 19601-19610		5
82	A Single-Ion Conducting UiO-66 Metal Drganic Framework Electrolyte for All-Solid-State Lithium Batteries. 2020 , 3, 4007-4013		39
81	Regulating electrodeposition morphology of lithium: towards commercially relevant secondary Li metal batteries. 2020 , 49, 2701-2750		160
80	Fabrication and electrochemical behavior of thin composite solid electrolyte for all-solid lithium batteries. 2020 , 26, 2863-2874		6
79	Exhaustive and informatics-aided search for fast Li-ion conductor with NASICON-type structure using material simulation and Bayesian optimization. 2020 , 8, 041112		13
78	Polymeric Backbone Eutectogels as a New Generation of Hybrid Solid-State Electrolytes. <i>Chemistry of Materials</i> , 2020 , 32, 3783-3793	9.6	22
77	Recent Progress in Solid Electrolytes for Energy Storage Devices. 2020 , 30, 2000077		44

76	Lithium Ion Conduction in Cathode Coating Materials from On-the-Fly Machine Learning. <i>Chemistry of Materials</i> , 2020 , 32, 3741-3752	30
75	Effect of Liquid Electrolyte Soaking on the Interfacial Resistance of LiLaZrO for All-Solid-State Lithium Batteries. 2020 , 12, 20605-20612	11
74	Solid-State LiMetal Batteries: Challenges and Horizons of Oxide and Sulfide Solid Electrolytes and Their Interfaces. 2021 , 11, 2002689	105
73	Regulating lithium deposition via bifunctional regular-random cross-linking network solid polymer electrolyte for Li metal batteries. 2021 , 484, 229186	11
72	Glasses: Phosphates. 2021 , 580-590	O
71	Heat treatment effects in oxygen-doped £i3PS4 solid electrolyte prepared by wet chemistry method. 2021 , 25, 1259-1269	3
70	Recent advancements in solid electrolytes integrated into all-solid-state 2D and 3D lithium-ion microbatteries. 2021 , 9, 15140-15178	10
69	Solution Processing of Lithium-Rich Amorphous Li-La-Zr-O Ion Conductor and Its Application for Cycling Durability Improvement of LiCoO2 Cathode as Coating Layer. 2021 , 8, 2001767	1
68	Fundamental air stability in solid-state electrolytes: principles and solutions.	3
67	Critical Issues in XLPE-Based Polymer Nanocomposites and Their Blends. 2021 , 63-83	
66	In situ polymerization process: an essential design tool for lithium polymer batteries. 2021 , 14, 2708-2788	31
65	An investigation into compressive deformation and failure mechanisms in a novel Li-ion solid-state electrolyte. 2021 , 6, 154-161	2
64	Current Trends in Nanoscale Interfacial Electrode Engineering for Sulfide-Based All-Solid-State	8
	Li-Ion Batteries. 2021 , 9, 2001096	
63	Li-Ion Batteries. 2021 , 9, 2001096 A Performance and Cost Overview of Selected Solid-State Electrolytes: Race between Polymer Electrolytes and Inorganic Sulfide Electrolytes. 2021 , 7, 18	9
63 62	A Performance and Cost Overview of Selected Solid-State Electrolytes: Race between Polymer	9
	A Performance and Cost Overview of Selected Solid-State Electrolytes: Race between Polymer Electrolytes and Inorganic Sulfide Electrolytes. 2021 , 7, 18 Synthesis and electrochemical performance of (100-x)Li7P3S11-xLi3SI composite solid electrolyte	
62	A Performance and Cost Overview of Selected Solid-State Electrolytes: Race between Polymer Electrolytes and Inorganic Sulfide Electrolytes. 2021 , 7, 18 Synthesis and electrochemical performance of (100-x)Li7P3S11-xLi3SI composite solid electrolyte for all-solid-state lithium batteries. 2021 , 95, 350-356	

58	Ion-Conducting, Electron-Blocking Layer for High-Performance Solid Electrolytes. 2021 , 2, 2100014		11
57	Formation of ceramic targets for solid electrolytes sputtering. 2021 , 1942, 012002		O
56	Lithium sensors based on Li6La3Ta1.5Y0.5O12 and Li6BaLa2Ta2O12 garnet electrolytes for molten lead alloys. 2021 , 339, 129831		1
55	Feasible Energy Density Pushes of Li-Metal vs. Li-Ion Cells. 2021 , 11, 7592		4
54	A comprehensive review on energy storage in hybrid electric vehicle. 2021 , 8, 621-621		10
53	Design, fabrication and application of PEO/CMC-Li @PI hybrid polymer electrolyte membrane in all-solid-state lithium battery. 2021 , 389, 138747		2
52	3D printing of an anode scaffold for lithium batteries guided by mixture design-based sequential learning. 2021 , 295, 117159		6
51	A novel approach to prepare Li-La-Zr-O solid state electrolyte films by suspension plasma spray. 2021 , 368, 115679		2
50	Understanding the sodium-ion dynamics in NASICON (Na3Al2P3O12) glass containing NaF: Scaling of electrical conductivity spectra. 2021 , 885, 160952		1
49	Syntheses and Characterization of Novel Perovskite-Type LaScO-Based Lithium Ionic Conductors. 2021 , 26,		2
48	CHAPTER 11:Sulfide-based Electrolytes in Solid State Batteries. 2021 , 364-390		
47	Sol G el Processing of Solid Electrolytes for Li-ion Batteries. 2016 , 1-18		1
46	Influence of Aliovalent Cation Substitution and Mechanical Compression on Li-Ion Conductivity and Diffusivity in Argyrodite Solid Electrolytes. <i>Chemistry of Materials</i> , 2021 , 33, 146-157	.6	23
45	High Voltage Solid State Batteries: Targeting High Energy Density with Polymer Composite Electrolytes. 2020 , 167, 020548		13
44	Modeling, Preparation, and Elemental Doping of Li7La3Zr2O12 Garnet-Type Solid Electrolytes: A Review. 2019 , 56, 111-129		24
43	Molecular Dynamics Simulation of Li-Ion Conduction at Grain Boundaries in NASICON-Type LiZr2(PO4)3 Solid Electrolytes.		5
42	Tuning of Li-argyrodites ionic conductivity through silicon substitution (Li6+xP1-xSixS5Cl0.5Br0.5) and their electrochemical performance in lithium solid state batteries. 2021 , 400, 139431		1
41	Sintering Additives for Garnet-Type Electrolytes. 2019 , 111-128		O

40	The role and the necessary features of electrolytes for microsupercapacitors. 2022, 47-116	O
39	1.??????????? <mark></mark> ₫???????????? <mark>□2020</mark> , 88, 3-8	
38	FEATURES OF PHASE TRANSFORMATIONS IN THE SYNTHESIS OF COMPLEX LITHIUM-CONDUCTING OXIDE MATERIALS. 2021 , 87, 14-34	
37	Perovskite Solid-State Electrolytes for Lithium Metal Batteries. 2021 , 7, 75	4
36	Mg-based inorganic nanofibers constructing fast and multi-dimensional ion conductive pathways for all-solid-state lithium metal batteries. 2021 , 67, 684-684	1
35	Ionic Conductivity of Hybrid Composite Solid Polymer Electrolytes of PEOnLiClO4-Cubic Li7La3Zr2O12 Films. 2021 , 9, 2090	
34	The role of critical raw materials for novel strategies in sustainable secondary batteries.	0
33	LLCZN/PEO/LiPF6 Composite Solid-State Electrolyte for Safe Energy Storage Application. 2022 , 8, 3	1
32	Interfaces in all solid state Li-metal batteries: A review on instabilities, stabilization strategies, and scalability. 2022 , 45, 969-1001	8
31	Non-equilibrium molecular dynamics study on atomistic origin of grain boundary resistivity in NASICON-type Li-ion conductor. 2022 , 226, 117596	1
30	Electrical Conductivity of Ceramics Based on (Cu1-x Agx)7 Si S5 I Nanocrystalline Powders. 2020,	
29	Photopatternable solid electrolyte for integrable organic electrochemical transistors: operation and hysteresis.	5
28	Density Functional Theory Studies on Li Metal Electrode/Garnet-Type Li 7 La 3 Zr 2 O 12 Solid Electrolyte Interfaces for Application in All-Solid-State Batteries. 2100546	1
27	Chemical Stability of Sulfide Solid-state Electrolytes: Stability Toward Humid Air and Compatibility with Solvents and Binders.	12
26	Interface modification of NASICON-type Li-ion conducting ceramic electrolytes: a critical evaluation. 2022 , 3, 3055-3069	2
25	Crystal structure, ion transport and optical properties of new high-conductivity Ag7(Si1 ြkGex)S5I solid solutions. 2022 , 57, 6706-6722	O
24	ReviewMicrostructural Modification in Lithium Garnet Solid-State Electrolytes: Emerging Trends. 2022 , 169, 030548	О
23	Recent developments and progress of halogen elements in enhancing the performance of all-solid-state lithium metal batteries. 2022 , 49, 19-57	1

22	Progress, challenges and perspectives of computational studies on glassy superionic conductors for solid-state batteries.		3
21	Phase Evolution and Li Diffusion in LATP Solid-State Electrolyte Synthesized via a Direct Heat-Cycling Method. 2200017		
20	Composite Cathodes for Solid-State Lithium Batteries: Latholytes Lithe Underrated Giants. 2200032		0
19	Solid Li- and Na-Ion Electrolytes for Next Generation Rechargeable Batteries. <i>Chemistry of Materials</i> ,	9.6	3
18	Ion transport mechanism in anhydrous lithium thiocyanate LiSCN Part I: ionic conductivity and defect chemistry.		1
17	Solid-State Electrolytes for Lithium Batteries. 2022 ,		O
16	Synergetic Effect of Li-Ion Concentration and Triple Doping on Ionic Conductivity of Li7La3Zr2O12 Solid Electrolyte. 2022 , 12, 2946		О
15	A Multiscale Hollow Spherical LATP Active Filler Improves Conductivity and Mechanical Strength in Composite Solid Electrolytes for Li Batteries. 2022 , 126, 15104-15117		O
14	Doped superior garnet electrolyte toward all-solid-state Li metal batteries. 2022, 13, 100119		Ο
13	Polycationic doping of the LATP ceramic electrolyte for Li-ion batteries. 2022 , 12, 29595-29601		1
12	Opportunities of Flexible and Portable Electrochemical Devices for Energy Storage: Expanding the Spotlight onto Semi-solid/Solid Electrolytes.		3
11	A strategy of enhancing the ionic conductivity of Li7La3Zr2O12 under accurate sintering conditions. 2022 , 24, 29159-29164		O
10	Fluorinated Solid-State Electrolytes for Lithium Batteries: Interface Design and Ion Conduction Mechanisms.		O
9	A Study of Li3.8Ge0.9S0.1O4 Solid Electrolyte Stability Relative to Electrode Materials of Lithium Power Sources. 2023 , 9, 66		O
8	Gram-scale carbothermic control of LLZO garnet solid electrolyte particle size. 2023 , 457, 141349		О
7	Next-generation battery technology based on solid-state electrolytes. 2023 , 1-46		O
6	Mechanistic Insights into the Cycling Behavior of Sulfur Dry-Film Cathodes. 2200439		0
5	Current trends, challenges, and prospects in material advances for improving the overall safety of lithium-ion battery pack. 2023 , 463, 142336		O

4	Solid-state lithium-ion batteries for grid energy storage: opportunities and challenges.	1
3	A New Spinel Chloride Solid Electrolyte with High Ionic Conductivity and Stability for Na-Ion Batteries. 2023 , 5, 1009-1017	O
2	On the Use of Water and Methanol with Zeolites for Heat Transfer. 2023, 11, 4317-4328	O
1	Preparation of argyrodite Li60xZnxPS50OxCl with improved electrochemical performance and air stability for all-solid-state batteries. 2023 , 957, 170273	O