Akitoshi Hayashi

List of Publications by Year
in descending order

376 papers	21,660 citations	8755 75 h-index	12946 131 g-index
386 all docs	386 docs citations	386 times ranked	8660 citing authors

#	Article	IF	Citations
1	A sulphide lithium super ion conductor is superior to liquid ion conductors for use in rechargeable batteries. Energy and Environmental Science, 2014, 7, 627-631.	30.8	994
2	Superionic glass-ceramic electrolytes for room-temperature rechargeable sodium batteries. Nature Communications, 2012, 3, 856.	12.8	795
3	New, Highly Ion-Conductive Crystals Precipitated from Li2S-P2S5 Glasses. Advanced Materials, 2005, 17, 918-921.	21.0	759
4	Sulfide Solid Electrolyte with Favorable Mechanical Property for All-Solid-State Lithium Battery. Scientific Reports, 2013, 3, 2261.	3.3	702
5	Interfacial Observation between LiCoO₂ Electrode and Li₂Sâˆ’P₂S₅ Solid Electrolytes of All-Solid-State Lithium Secondary Batteries Using Transmission Electron Microscopy. Chemistry of Materials, 2010, 22, 949-956.	6.7	526
6	Structural change of Li2Sâ€“P2S5 sulfide solid electrolytes in the atmosphere. Solid State Ionics, 2011, 182, 116-119.	2.7	414
7	Recent development of sulfide solid electrolytes and interfacial modification for all-solid-state rechargeable lithium batteries. Journal of Asian Ceramic Societies, 2013, 1, 17-25.	2.3	375
8	Preparation of Li₂Sâ€“P₂S₅ Amorphous Solid Electrolytes by Mechanical Milling. Journal of the American Ceramic Society, 2001, 84, 477-79.	3.8	350
9	Crystal structure of a superionic conductor, Li7P3S11. Solid State Ionics, 2007, 178, 1163-1167.	2.7	325
10	Formation of superionic crystals from mechanically milled Li2Sâ€“P2S5 glasses. Electrochemistry Communications, 2003, 5, 111-114.	4.7	306
11	All-solid-state Li/S batteries with highly conductive glassâ€“ceramic electrolytes. Electrochemistry Communications, 2003, 5, 701-705.	4.7	302
12	High lithium ion conducting glass-ceramics in the system Li2Sâ€“P2S5. Solid State Ionics, 2006, 177, 2721-2725.	2.7	294
13	Sulfurâ€“carbon composite electrode for all-solid-state Li/S battery with Li2Sâ€“P2S5 solid electrolyte. Electrochimica Acta, 2011, 56, 6055-6059.	5.2	281
14	Recent progress of glass and glass-ceramics as solid electrolytes for lithium secondary batteries. Solid State Ionics, 2006, 177, 2715-2720.	2.7	251
15	High sodium ion conductivity of glassâ€“ceramic electrolytes with cubic Na3PS4. Journal of Power Sources, 2014, 258, 420-423.	7.8	244
16	High-capacity Li2Sâ€“nanocarbon composite electrode for all-solid-state rechargeable lithium batteries. Journal of Materials Chemistry, 2012, 22, 10015.	6.7	240
17	Liquid-phase syntheses of sulfide electrolytes for all-solid-state lithium battery. Nature Reviews Chemistry, 2019, 3, 189-198.	30.2	238
18	In situ SEM study of a lithium deposition and dissolution mechanism in a bulk-type solid-state cell with a Li2Sâ€“P2S5 solid electrolyte. Physical Chemistry Chemical Physics, 2013, 15, 18600.	2.8	233

#	Article	IF	Citations
19	A sodium-ion sulfide solid electrolyte with unprecedented conductivity at room temperature. Nature Communications, 2019, 10, 5266.	12.8	216
20	Preparation of high lithium-ion conducting Li6PS5Cl solid electrolyte from ethanol solution for all-solid-state lithium batteries. Journal of Power Sources, 2015, 293, 941-945.	7.8	209
21	All-solid-state rechargeable lithium batteries with Li2S as a positive electrode material. Journal of Power Sources, 2008, 183, 422-426.	7.8	168
22	All-solid-state lithium secondary batteries using LiCoO2 particles with pulsed laser deposition coatings of Li2Sâ€“P2S5 solid electrolytes. Journal of Power Sources, 2011, 196, 6735-6741.	7.8	165
23	Improvement of chemical stability of Li3PS4 glass electrolytes by adding MxOy (M = Fe, Zn, and Bi) nanoparticles. Journal of Materials Chemistry A, 2013, 1, 6320.	10.3	164
24	All-solid-state lithium secondary batteries using the 75Li2SÂ·25P2S5 glass and the 70Li2SÂ·30P2S5 glassâ€“ceramic as solid electrolytes. Journal of Power Sources, 2013, 233, 231-235.	7.8	157
25	Preparation and characterization of highly sodium ion conducting Na₃PS₄â€“Na₄SiS₄ solid electrolytes. RSC Advances, 2014, 4, 17120-17123.	3.6	156
26	Structural and Electronic-State Changes of a Sulfide Solid Electrolyte during the Li Deinsertionâ€“Insertion Processes. Chemistry of Materials, 2017, 29, 4768-4774.	6.7	151
27	Modification of Interface Between LiCoO[sub 2] Electrode and Li[sub 2]Sâ€“P[sub 2]S[sub 5] Solid Electrolyte Using Li[sub 2]Oâ€“SiO[sub 2] Glassy Layers. Journal of the Electrochemical Society, 2009, 156, A27.	2.9	150
28	Evaluation of elastic modulus of Li₂Sâ€“P₂S₅ glassy solid electrolyte by ultrasonic sound velocity measurement and compression test. Journal of the Ceramic Society of Japan, 2013, 121, 946-949.	1.1	149
29	Development of Sulfide Solid Electrolytes and Interface Formation Processes for Bulk-Type All-Solid-State Li and Na Batteries. Frontiers in Energy Research, 2016, 4, .	2.3	148
30	Sulfide Glassâ€Ceramic Electrolytes for Allâ€Solidâ€State Lithium and Sodium Batteries. International Journal of Applied Glass Science, 2014, 5, 226-235.	2.0	144
31	Fabrication of electrodeâ€“electrolyte interfaces in all-solid-state rechargeable lithium batteries by using a supercooled liquid state of the glassy electrolytes. Journal of Materials Chemistry, 2011, 21, 118-124.	6.7	138
32	Liquid-phase synthesis of a Li3PS4 solid electrolyte using N-methylformamide for all-solid-state lithium batteries. Journal of Materials Chemistry A, 2014, 2, 5095.	10.3	138
33	Improvement of High-Rate Performance of All-Solid-State Lithium Secondary Batteries Using LiCoO[sub 2] Coated with Li[sub 2]Oâ€“SiO[sub 2] Glasses. Electrochemical and Solid-State Letters, 2008, 11, A1.	2.2	131
34	Multimodal Plant Healthcare Flexible Sensor System. ACS Nano, 2020, 14, 10966-10975.	14.6	129
35	Superionic glasses and glassâ€“ceramics in the Li2Sâ€“P2S5 system for all-solid-state lithium secondary batteries. Solid State Ionics, 2012, 225, 342-345.	2.7	128
36	An argyrodite sulfide-based superionic conductor synthesized by a liquid-phase technique with tetrahydrofuran and ethanol. Journal of Materials Chemistry A, 2019, 7, 558-566.	10.3	127

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37	All-Solid-State Na/S Batteries with a Na₃PS₄ Electrolyte Operating at Room Temperature. Chemistry of Materials, 2017, 29, 5232-5238.	6.7	126
38	Mechanical Properties of Li₂Sâ€“P₂S₅ Glasses with Lithium Halides and Application in All-Solid-State Batteries. ACS Applied Energy Materials, 2018, 1, 1002-1007.	5.1	126
39	All-solid-state lithium secondary batteries using sulfide-based glassâ€“ceramic electrolytes. Journal of Power Sources, 2006, 159, 193-199.	7.8	123
40	Characterization of Li2S?P2S5 glass-ceramics as a solid electrolyte for lithium secondary batteries. Solid State Ionics, 2004, 175, 683-686.	2.7	122
41	Lithium ion conductivity of the Li2Sâ€“P2S5 glass-based electrolytes prepared by the melt quenching method. Solid State Ionics, 2007, 178, 837-841.	2.7	122
42	Low temperature synthesis of highly ion conductive Li7La3Zr2O12â€“Li3BO3 composites. Electrochemistry Communications, 2013, 33, 51-54.	4.7	119
43	Characteristics of the Li2Oâ€“Li2Sâ€“P2S5 glasses synthesized by the two-step mechanical milling. Journal of Non-Crystalline Solids, 2013, 364, 57-61.	3.1	118
44	Improved chemical stability and cyclability in Li2Sâ€“P2S5â€“P2O5â€“ZnO composite electrolytes for all-solid-state rechargeable lithium batteries. Journal of Alloys and Compounds, 2014, 591, 247-250.	5.5	118
45	XPS and SEM analysis between Li/Li3PS4 interface with Au thin film for all-solid-state lithium batteries. Solid State Ionics, 2018, 322, 1-4.	2.7	118
46	5 V class LiNi0.5Mn1.5O4 positive electrode coated with Li3PO4 thin film for all-solid-state batteries using sulfide solid electrolyte. Solid State Ionics, 2016, 285, 79-82.	2.7	116
47	Fabrication of favorable interface between sulfide solid electrolyte and Li metal electrode for bulk-type solid-state Li/S battery. Electrochemistry Communications, 2012, 22, 177-180.	4.7	115
48	Direct Ethanol Fuel Cell Using Hydrotalcite Clay as a Hydroxide Ion Conductive Electrolyte. Advanced Materials, 2010, 22, 4401-4404.	21.0	113
49	New lithium ion conducting glass-ceramics prepared from mechanochemical Li2Sâ€“P2S5 glasses. Solid State Ionics, 2002, 154-155, 635-640.	2.7	111
50	All-solid-state lithium secondary batteries with high capacity using black phosphorus negative electrode. Journal of Power Sources, 2011, 196, 6902-6905.	7.8	106
51	Low temperature synthesis of Al-doped Li7La3Zr2O12 solid electrolyte by a solâ€“gel process. Solid State Ionics, 2014, 255, 104-107.	2.7	106
52	All-solid-state lithium secondary batteries with oxide-coated LiCoO2 electrode and Li2Sâ€“P2S5 electrolyte. Journal of Power Sources, 2009, 189, 527-530.	7.8	104
53	Preparation and ionic conductivity of Li7P3S11â^’z glass-ceramic electrolytes. Journal of Non-Crystalline Solids, 2010, 356, 2670-2673.	3.1	104
54	Lithium-Ion-Conducting Argyrodite-Type Li₆PS₅X (X = Cl, Br, I) Solid Electrolytes Prepared by a Liquid-Phase Technique Using Ethanol as a Solvent. ACS Applied Energy Materials, 2018, 1, 3622-3629.	5.1	103

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55	Li₂Sâ€Based Solid Solutions as Positive Electrodes with Full Utilization and Superlong Cycle Life in Allâ€Solidâ€State Li/S Batteries. Advanced Sustainable Systems, 2017, 1, 1700017.	5.3	101
56	Structure, ionic conductivity and electrochemical stability of Li2Sâ€“P2S5â€“LiI glass and glassâ€“ceramic electrolytes. Solid State Ionics, 2012, 211, 42-45.	2.7	100
57	How Certain Are the Reported Ionic Conductivities of Thiophosphate-Based Solid Electrolytes? An Interlaboratory Study. ACS Energy Letters, 2020, 5, 910-915.	17.4	98
58	Enhancing utilization of lithium metal electrodes in all-solid-state batteries by interface modification with gold thin films. Journal of Power Sources, 2016, 309, 27-32.	7.8	97
59	All-solid-state lithium batteries with Li3PS4 glass as active material. Journal of Power Sources, 2015, 293, 721-725.	7.8	95
60	Raman imaging for LiCoO2 composite positive electrodes in all-solid-state lithium batteries using Li2Sâ€“P2S5 solid electrolytes. Journal of Power Sources, 2016, 302, 419-425.	7.8	93
61	Preparation of Li 3 BO 3 â€“Li 2 SO 4 glassâ€“ceramic electrolytes for all-oxide lithium batteries. Journal of Power Sources, 2014, 270, 603-607.	7.8	92
62	Preparation of Li2Sâ€“P2S5 solid electrolyte from N-methylformamide solution and application for all-solid-state lithium battery. Journal of Power Sources, 2014, 248, 939-942.	7.8	92
63	Preparation and characterization of lithium ion-conducting oxysulfide glasses. Solid State Ionics, 2000, 136-137, 1015-1023.	2.7	91
64	Li2S nanocomposites underlying high-capacity and cycling stability in all-solid-state lithiumâ€“sulfur batteries. Journal of Power Sources, 2015, 274, 471-476.	7.8	88
65	Electrical and electrochemical properties of glassâ€“ceramic electrolytes in the systems Li2Sâ€“P2S5â€“P2S3 and Li2Sâ€“P2S5â€“P2O5. Solid State Ionics, 2011, 192, 122-125.	2.7	85
66	Preparation and ionic conductivities of (100Ââˆ’Âx)(0.75Li2SÂ·0.25P2S5)Â·xLiBH4 glass electrolytes. Journal of Power Sources, 2013, 244, 707-710.	7.8	85
67	Xâ€ray Crystal Structure Analysis of Sodiumâ€Ion Conductivity in 94â€‰Na₃PS₄â‹…6â€‰Na₄SiS₄ Glassâ€Ceramic Electrolytes. ChemElectroChem, 2014, 1, 1130-1132.	3.4	85
68	Electrochemical Performance of Allâ€Solidâ€State Li/S Batteries with Sulfurâ€Based Composite Electrodes Prepared by Mechanical Milling at High Temperature. Energy Technology, 2013, 1, 186-192.	3.8	83
69	Lithium dissolution/deposition behavior with Li3PS4-LiI electrolyte for all-solid-state batteries operating at high temperatures. Electrochimica Acta, 2018, 286, 158-162.	5.2	83
70	Preparation of lithium ion conductive Al-doped Li7La3Zr2O12 thin films by a solâ€“gel process. Journal of Power Sources, 2015, 273, 844-847.	7.8	81
71	Electrochemical performance of all-solid-state lithium secondary batteries with Liâ€“Niâ€“Coâ€“Mn oxide positive electrodes. Electrochimica Acta, 2010, 55, 8821-8828.	5.2	80
72	Crystallization Process for Superionic Li7P3S11 Glass-Ceramic Electrolytes. Journal of the American Ceramic Society, 2011, 94, 1779-1783.	3.8	80

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73	Suppression of H2S gas generation from the 75Li2SÂ·25P2S5 glass electrolyte by additives. Journal of Materials Science, 2013, 48, 4137-4142.	3.7	78
74	All Solid-state Lithium Secondary Batteries Using High Lithium Ion Conducting Li2Sâ€"P2S5Glass-Ceramics. Chemistry Letters, 2002, 31, 1244-1245.	1.3	77
75	Solid state lithium secondary batteries using an amorphous solid electrolyte in the system (100â^'x)(0.6Li2SÂ·0.4SiS2)Â·xLi4SiO4 obtained by mechanochemical synthesis. Solid State Ionics, 2001, 140, 83-87.	2.7	76
76	Bulk-Type Lithium Metal Secondary Battery with Indium Thin Layer at Interface between Li Electrode and Li2S-P2S5 Solid Electrolyte. Electrochemistry, 2012, 80, 734-736.	1.4	76
77	Structure and properties of the Na2Sâ€"P2S5 glasses and glassâ€"ceramics prepared by mechanical milling. Journal of Power Sources, 2014, 269, 260-265.	7.8	76
78	Mechanical properties of sulfide glasses in all-solid-state batteries. Journal of the Ceramic Society of Japan, 2018, 126, 719-727.	1.1	75
79	Synthesis of nanosized nickel sulfide in high-boiling solvent for all-solid-state lithium secondary batteries. Journal of Materials Chemistry, 2011, 21, 2987.	6.7	74
80	Evaluation of ionic conductivity for Mgâ€"Al layered double hydroxide intercalated with inorganic anions. Solid State Ionics, 2011, 192, 185-187.	2.7	74
81	Invited paper: Recent development of bulk-type solid-state rechargeable lithium batteries with sulfide glass-ceramic electrolytes. Electronic Materials Letters, 2012, 8, 199-207.	2.2	74
82	Rechargeable lithium batteries, using sulfur-based cathode materials and Li2Sâ€"P2S5 glass-ceramic electrolytes. Electrochimica Acta, 2004, 50, 893-897.	5.2	73
83	Preparation of amorphous Li4SiO4â€"Li3PO4 thin films by pulsed laser deposition for all-solid-state lithium secondary batteries. Solid State Ionics, 2011, 182, 59-63.	2.7	72
84	Preparation and characterization of superionic conducting Li7P3S11 crystal from glassy liquids. Journal of the Ceramic Society of Japan, 2010, 118, 305-308.	1.1	71
85	Inorganicâ^'Organic Hybrid Membranes with Anhydrous Proton Conduction Prepared from 3-Aminopropyltriethoxysilane and Sulfuric Acid by the Solâ^'Gel Method. Journal of the American Chemical Society, 2006, 128, 16470-16471.	13.7	70
86	LiCoO[sub 2] Electrode Particles Coated with Li[sub 2]Sâ€"P[sub 2]S[sub 5] Solid Electrolyte for All-Solid-State Batteries. Electrochemical and Solid-State Letters, 2010, 13, A73.	2.2	69
87	Liquidâ€phase sintering of highly Na⁺ ion conducting Na₃Zr₂Si₂PO₁₂ ceramics using Na₃BO₃ additive. Journal of the American Ceramic Society, 2018, 101, 1255-1265.	3.8	69
88	Characterization of Li2Sâ€"SiS2â€"LixMOy (M=Si, P, Ge) amorphous solid electrolytes prepared by melt-quenching and mechanical milling. Solid State Ionics, 2002, 148, 381-389.	2.7	67
89	New Lithium-Ion Conducting Crystal Obtained by Crystallization of the Li[sub 2]Sâ€"P[sub 2]S[sub 5] Glasses. Electrochemical and Solid-State Letters, 2005, 8, A603.	2.2	67
90	Preparation and characterization of lithium ion conductive Li3SbS4 glass and glass-ceramic electrolytes. Solid State Ionics, 2019, 333, 45-49.	2.7	67

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91	All-solid-state lithium secondary batteries using nanocomposites of NiS electrode/Li2Sâ€“P2S5 electrolyte prepared via mechanochemical reaction. Journal of Power Sources, 2009, 189, 629-632.	7.8	66
92	Improvement of electrochemical performance in alkaline fuel cell by hydroxide ion conducting Niâ€“Al layered double hydroxide. Journal of Power Sources, 2013, 222, 493-497.	7.8	65
93	All-Solid-State Lithium Secondary Batteries Using NiS-Carbon Fiber Composite Electrodes Coated with Li₂Sâ€“P₂S₅ Solid Electrolytes by Pulsed Laser Deposition. ACS Applied Materials & Interfaces, 2013, 5, 686-690.	8.0	64
94	High Lithium Ion Conductivity of Glassâ€“Ceramics Derived from Mechanically Milled Glassy Powders. Chemistry Letters, 2001, 30, 872-873.	1.3	63
95	Novel technique to form electrodeâ€“electrolyte nanointerface in all-solid-state rechargeable lithium batteries. Electrochemistry Communications, 2008, 10, 1860-1863.	4.7	62
96	Structure and properties of the 70Li2S Â· (30 âˆ’x)P2S5Â·xP2O5 oxysulfide glasses and glassâ€“ceramics. Journal of Non-Crystalline Solids, 2008, 354, 370-373.	3.1	62
97	All-solid-state sodium batteries using amorphous TiS3 electrode with high capacity. Journal of Power Sources, 2015, 275, 284-287.	7.8	61
98	Electrochemical properties of all-solid-state lithium batteries with amorphous MoS₃ electrodes prepared by mechanical milling. Journal of Materials Chemistry A, 2015, 3, 14142-14147.	10.3	60
99	Glass Electrolytes with High Ion Conductivity and High Chemical Stability in the System LiI-Li2O-Li2S-P2S5. Electrochemistry, 2013, 81, 428-431.	1.4	59
100	Evaluation of mechanical properties of Na₂Sâ€“P₂S₅ sulfide glass electrolytes. Journal of Materials Chemistry A, 2015, 3, 22061-22065.	10.3	59
101	Electrochemical and structural evaluation for bulk-type all-solid-state batteries using Li4GeS4-Li3PS4 electrolyte coating on LiCoO2 particles. Journal of Power Sources, 2017, 360, 328-335.	7.8	59
102	Mechanochemical Synthesis and Characterization of Metastable Hexagonal Li₄SnS₄ Solid Electrolyte. Inorganic Chemistry, 2018, 57, 9925-9930.	4.0	59
103	Preparation and characterization of SnOâ€“P2O5 glasses as anode materials for lithium secondary batteries. Journal of Non-Crystalline Solids, 2004, 345-346, 478-483.	3.1	58
104	Application of LiCoO₂Particles Coated with Lithium Ortho-Oxosalt Thin Films to Sulfide-Type All-Solid-State Lithium Batteries. Journal of the Electrochemical Society, 2015, 162, A1610-A1616.	2.9	58
105	Design of composite positive electrode in all-solid-state secondary batteries with Li2S-P2S5 glassâ€“ceramic electrolytes. Journal of Power Sources, 2005, 146, 711-714.	7.8	57
106	Effects of Conductive Additives in Composite Positive Electrodes on Charge-Discharge Behaviors of All-Solid-State Lithium Secondary Batteries. Journal of the Electrochemical Society, 2005, 152, A1499.	2.9	56
107	Development of sulfide glass-ceramic electrolytes for all-solid-state lithium rechargeable batteries. Journal of Solid State Electrochemistry, 2010, 14, 1761-1767.	2.5	56
108	Preparation and structure of amorphous solid electrolytes based on lithium sulfide. Journal of Non-Crystalline Solids, 2000, 274, 30-38.	3.1	55

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109	Improvement of electrochemical performance of all-solid-state lithium secondary batteries by surface modification of LiMn2O4 positive electrode. Solid State Ionics, 2011, 192, 304-307.	2.7	55
110	Amorphous Titanium Sulfide Electrode for All-solid-state Rechargeable Lithium Batteries with High Capacity. Chemistry Letters, 2012, 41, 886-888.	1.3	55
111	Morphological Effect on Reaction Distribution Influenced by Binder Materials in Composite Electrodes for Sheet-type All-Solid-State Lithium-Ion Batteries with the Sulfide-based Solid Electrolyte. Journal of Physical Chemistry C, 2019, 123, 3292-3298.	3.1	53
112	Electrochemical Properties for the Lithium Ion Conductive (100â€xâ€‰)â€‰â€‰(â€‰0.6Li2â€‰Sâ€‰â€‰Â·â€‰0.4SiS2â€‰)â€ Glasses. Journal of the Electrochemical Society, 1999, 146, 3472-3475.	2.9	52
113	Electrochemical performance of all-solid-state lithium batteries with mechanochemically activated Li2Sâ€“Cu composite electrodes. Solid State Ionics, 2008, 179, 1702-1705.	2.7	52
114	Preparation of lithium ion conducting glasses and glassâ€“ceramics for all-solid-state batteries. Journal of Non-Crystalline Solids, 2008, 354, 1411-1417.	3.1	50
115	All-solid-state lithium secondary batteries with metal-sulfide-coated LiCoO2 prepared by thermal decomposition of dithiocarbamato complexes. Journal of Materials Chemistry, 2012, 22, 15247.	6.7	50
116	Visualization and Control of Chemically Induced Crack Formation in All-Solid-State Lithium-Metal Batteries with Sulfide Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 5000-5007.	8.0	50
117	High-rate performance of all-solid-state lithium secondary batteries using Li4Ti5O12 electrode. Journal of Power Sources, 2009, 189, 145-148.	7.8	49
118	Phase-Selective Synthesis of Nickel Phosphide in High-Boiling Solvent for All-Solid-State Lithium Secondary Batteries. Inorganic Chemistry, 2011, 50, 10820-10824.	4.0	49
119	Preparation and ionic conductivity of (100â^'x)(0.8Li2SÂ·0.2P2S5)Â·xLiI glassâ€“ceramic electrolytes. Journal of Solid State Electrochemistry, 2013, 17, 675-680.	2.5	48
120	A novel dischargeâ€“charge mechanism of a Sâ€“P₂S₅ composite electrode without electrolytes in all-solid-state Li/S batteries. Journal of Materials Chemistry A, 2017, 5, 11224-11228.	10.3	48
121	Electrical and mechanical properties of glass and glass-ceramic electrolytes in the system Li₃BO₃–Li₂SO₄. Journal of the Ceramic Society of Japan, 2017, 125, 433-437.	1.1	48
122	All-solid-state batteries with Li2O-Li2S-P2S5 glass electrolytes synthesized by two-step mechanical milling. Journal of Solid State Electrochemistry, 2013, 17, 2551-2557.	2.5	47
123	Effects of the microstructure of solid-electrolyte-coated LiCoO₂ on its discharge properties in all-solid-state lithium batteries. Journal of Materials Chemistry A, 2017, 5, 10658-10668.	10.3	47
124	Direct observation of a non-crystalline state of Li2Sâ€“P2S5 solid electrolytes. Scientific Reports, 2017, 7, 4142.	3.3	47
125	Electronic and Ionic Conductivities of LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂-Li₃PS₄Positive Composite Electrodes for All-Solid-State Lithium Batteries. Journal of the Electrochemical Society, 2017, 164, A3960-A3963.	2.9	47
126	Aqueous solution synthesis of Na₃SbS₄â€“Na₂WS₄ superionic conductors. Journal of Materials Chemistry A, 2020, 8, 1947-1954.	10.3	47

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127	Characterization of Li2Sâ€“SiS2â€“Li3MO3 (M=B, Al, Ga and In) oxysulfide glasses and their application to solid state lithium secondary batteries. Solid State Ionics, 2002, 152-153, 285-290.	2.7	46
128	Preparation of Highly Lithiumâ€Ion Conductive 80Li₂SÂ·20P₂S₅ Thinâ€Film Electrolytes Using Pulsed Laser Deposition. Journal of the American Ceramic Society, 2010, 93, 765-768.	3.8	46
129	Electrochemical performance of all-solid-state lithium batteries with Sn4P3 negative electrode. Journal of Power Sources, 2013, 244, 597-600.	7.8	46
130	The crystal structure and sodium disorder of high-temperature polymorph Î²-Na₃PS₄. Journal of Materials Chemistry A, 2017, 5, 25025-25030.	10.3	46
131	Highly Utilized Lithium Sulfide Active Material by Enhancing Conductivity in All-solid-state Batteries. Chemistry Letters, 2015, 44, 1664-1666.	1.3	45
132	Low temperature sintering of Na1+Zr2Si P3â^'O12 by the addition of Na3BO3. Scripta Materialia, 2018, 145, 67-70.	5.2	44
133	High-Temperature Performance of All-Solid-State Lithium-Metal Batteries Having Li/Li₃PS₄Interfaces Modified with Au Thin Films. Journal of the Electrochemical Society, 2018, 165, A1950-A1954.	2.9	44
134	<i>Operando</i> Confocal Microscopy for Dynamic Changes of Li⁺ Ion Conduction Path in Graphite Electrode Layers of All-Solid-State Batteries. Journal of Physical Chemistry Letters, 2020, 11, 900-904.	4.6	44
135	Electrical and electrochemical properties of the 70Li2SÂ·(30 â^'x)P2S5Â·xP2O5 glass-ceramic electrolytes. Solid State Ionics, 2008, 179, 1282-1285.	2.7	43
136	Formation of Li+ superionic crystals from the Li2Sâ€“P2S5 melt-quenched glasses. Journal of Materials Science, 2008, 43, 1885-1889.	3.7	43
137	Structural investigation of SnOâ€“B2O3 glasses by solid-state NMR and X-ray photoelectron spectroscopy. Journal of Non-Crystalline Solids, 2002, 306, 227-237.	3.1	42
138	Electrical and electrochemical properties of Li2Sâ€“P2S5â€“P2O5 glassâ€“ceramic electrolytes. Journal of Power Sources, 2005, 146, 715-718.	7.8	42
139	Preparation of Î±-Fe[sub 2]O[sub 3] Electrode Materials via Solution Process and Their Electrochemical Properties in All-Solid-State Lithium Batteries. Journal of the Electrochemical Society, 2007, 154, A725.	2.9	41
140	Electrochemical performance of all-solid-state lithium secondary batteries improved by the coating of Li2Oâ€“TiO2 films on LiCoO2 electrode. Journal of Power Sources, 2010, 195, 599-603.	7.8	41
141	Conductivity of 70Li2SÂ·30P2S5 glasses and glassâ€“ceramics added with lithium halides. Solid State Ionics, 2014, 263, 57-61.	2.7	41
142	Evaluation of youngâ€™s modulus of Li₂Sâ€“P₂S₅â€“P₂O<sub>5</sub oxysulfide glass solid electrolytes. Journal of the Ceramic Society of Japan, 2014, 122, 552-555.	1.1	41
143	Recent progress on interface formation in all-solid-state batteries. Current Opinion in Electrochemistry, 2017, 6, 108-114.	4.8	41
144	Mechanochemically Prepared Li₂Sâ€“P₂S₅â€“LiBH₄ Solid Electrolytes with an Argyrodite Structure. ACS Omega, 2018, 3, 5453-5458.	3.5	41

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146	Structure and properties of Li2Sâ€"P2S5â€"P2S3 glass and glassâ€"ceramic electrolytes. Journal of Power Sources, 2009, 189, 651-654.	7.8	39
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