Akitoshi Hayashi

List of Publications by Year
in descending order

376	21,660	10070 75	14779 131
papers	citations	h-index	g-index

386	386	386	10017
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Liquid-phase synthesis of Li3PS4 solid electrolyte using ethylenediamine. Journal of Sol-Gel Science and Technology, 2022, 101, 2-7.	1.1	9
2	Solid Electrolyte with Oxidation Tolerance Provides a Highâ€Capacity Li₂Sâ€Based Positive Electrode for Allâ€Solidâ€State Li/S Batteries. Advanced Functional Materials, 2022, 32, 2106174.	7.8	25
3	Characteristics of a Li₃BS₃ Thioborate Glass Electrolyte Obtained via a Mechanochemical Process. ACS Applied Energy Materials, 2022, 5, 1421-1426.	2.5	12
4	Kinetics of Interfacial Lithium-ion Transfer between a Graphite Negative Electrode and a Li₂S-P₂S₅ Glassy Solid Electrolyte. Electrochemistry, 2022, 90, 037003-037003.	0.6	3
5	Mechanochemical Synthesis of Pyrite Ni_{1âˆ’}<i>_x</i>Fe<i>_x</i>S<sub>2</su Electrode for All-solid-state Sodium Battery. Electrochemistry, 2022, 90, 037011-037011.	0.6	
6	Molybdenum polysulfide electrode with high capacity for all-solid-state sodium battery. Solid State Ionics, 2022, 376, 115848.	1.3	7
7	Studies on the inhibition of lithium dendrite formation in sulfide solid electrolytes doped with LiX (XÂ=ÂBr, I). Solid State Ionics, 2022, 377, 115869.	1.3	15
8	Synthesis of an AlI₃-doped Li₂S positive electrode with superior performance in all-solid-state batteries. Materials Advances, 2022, 3, 2488-2494.	2.6	11
9	Mechanochemically Prepared Highly Conductive Na_{2.88}Sb_{0.88}W_{0.12}S₄-NaI Composite Electrolytes for All-Solid-State Sodium Battery. Electrochemistry, 2022, 90, 047005-047005.	0.6	4
10	AC Impedance Analysis of the Degeneration and Recovery of Argyrodite Sulfide-Based Solid Electrolytes under Dry-Room-Simulated Condition. Electrochemistry, 2022, 90, 037012-037012.	0.6	14
11	Mechanochemical synthesis of amorphous MoS<i>_x</i> (<i>x</i> = 3, 4, 5, 6, and 7) electrode for all-solid-state sodium battery. Journal of the Ceramic Society of Japan, 2022, 130, 308-312.	0.5	2
12	Lithium-ion conductivity and crystallization temperature of multicomponent oxide glass electrolytes. Journal of Non-Crystalline Solids: X, 2022, 14, 100089.	0.5	2
13	Na2Sâ€“NaI solid solution as positive electrode in all-solid-state Na/S batteries. Journal of Power Sources, 2022, 532, 231313.	4.0	8
14	High Rate Capability from a Graphite Anode through Surface Modification with Lithium Iodide for All-Solid-State Batteries. ACS Applied Energy Materials, 2022, 5, 667-673.	2.5	15
15	Sodium-Ion Conducting Solid Electrolytes in the Na₂Sâ€“In₂S₃ System. Electrochemistry, 2022, 90, 067009-067009.	0.6	5
16	Characterizing the Structural Change of Na₃PS₄ Solid Electrolytes in a Humid N₂ Atmosphere. Journal of Physical Chemistry C, 2022, 126, 7383-7389.	1.5	6
17	Crystalline precursor derived from Li3PS4 and ethylenediamine for ionic conductors. Journal of Sol-Gel Science and Technology, 2022, 104, 627-634.	1.1	2
18	Formation of Passivate Interphases by Na₃BS₃-Glass Solid Electrolytes in All-Solid-State Sodium-Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 24480-24485.	4.0	14

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19	Amorphous Positive Electrode Materials Prepared Using LiMn_{1.5}Ni_{0.5}O₄ and Lithium Oxyacid Salts. Chemistry Letters, 2022, 51, 815-818.	0.7	2
20	Room-Temperature Preparation of All-Solid-State Lithium Batteries Using TiO₂ Anodes and Oxide Electrolytes. Journal of Physical Chemistry C, 2022, 126, 10320-10326.	1.5	6
21	Preparation and characterization of Na_{2.88}Sb_{0.88}W_{0.12}S_{4â^’}<i><sub solid electrolyte. Journal of the Ceramic Society of Japan, 2022, 130, 498-503.	[illegible]	[illegible]
22	Comparison of Sulfur Cathode Reactions between a Concentrated Liquid Electrolyte System and a Solid-State Electrolyte System by Soft X-Ray Absorption Spectroscopy. ACS Applied Energy Materials, 2021, 4, 186-193.	2.5	10
23	Synthesis and Electrochemical Properties of Li₃CuS₂ as a Positive Electrode Material for All-Solid-State Batteries. ACS Applied Energy Materials, 2021, 4, 20-24.	2.5	13
24	Preparation and characterization of sodium-ion conductive Na₃BS₃ glass and glassâ€“ceramic electrolytes. Materials Advances, 2021, 2, 1676-1682.	2.6	19
25	Li Negative Electrode. , 2021, , 137-142.		0
26	Visualizing Local Electrical Properties of Composite Electrodes in Sulfide All-Solid-State Batteries by Scanning Probe Microscopy. Journal of Physical Chemistry C, 2021, 125, 2841-2849.	1.5	11
27	Sulfur and Sulfide Positive Electrode. , 2021, , 125-135.		0
28	Structures and conductivities of stable and metastable Li₅GaS₄ solid electrolytes. RSC Advances, 2021, 11, 25211-25216.	1.7	7
29	Glass Electrolyte. , 2021, , 61-66.		0
30	High Ionic Conductivity of Liquid-Phase-Synthesized Li₃PS₄ Solid Electrolyte, Comparable to That Obtained via Ball Milling. ACS Applied Energy Materials, 2021, 4, 2275-2281.	2.5	33
31	Improvement of lithium ionic conductivity of Li3PS4 through suppression of crystallization using low-boiling-point solvent in liquid-phase synthesis. Solid State Ionics, 2021, 361, 115568.	1.3	21
32	Hydroxide ion Conduction Mechanism in Mg-Al CO32â^’ Layered Double Hydroxide. Journal of Electrochemical Science and Technology, 2021, 12, 230-236.	0.9	1
33	Preparation and characterization of hexagonal Li4GeO4-based glass-ceramic electrolytes. Solid State Ionics, 2021, 363, 115605.	1.3	9
34	Microstructure and Chargeâ€“Discharge Mechanism of a Li₃CuS₂ Positive Electrode Material for All-Solid-State Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 6290-6295.	2.5	10
35	Importance of Li-Metal/Sulfide Electrolyte Interphase Ionic Conductivity in Suppressing Short-Circuiting of All-Solid-State Li-Metal Batteries. Journal of the Electrochemical Society, 2021, 168, 060542.	1.3	10
36	<i>In situ</i> observation of the deterioration process of sulfide-based solid electrolytes using airtight and air-flow TEM systems. Microscopy (Oxford, England), 2021, 70, 519-525.	0.7	11

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37	Solid electrolytes Na₁₀₊<i>_x</i>Sn₁₊<i>_x</i>P_{2â^’}<i>_x</i>S<sub>12</sub prepared via a mechanochemical process. Journal of the Ceramic Society of Japan, 2021, 129, 323-328.	0.5	2
38	Investigation of the Suppression of Dendritic Lithium Growth with a Lithium-Iodide-Containing Solid Electrolyte. Chemistry of Materials, 2021, 33, 4907-4914.	3.2	30
39	Microstructure and Charge-discharge Properties of a Li3CuS2 active material for All-Solid-State Batteries. Microscopy and Microanalysis, 2021, 27, 3424-3425.	0.2	0
40	Glassy oxide electrolytes in the system Li₄SiO₄â€“Li₂SO₄ with excellent formability. Journal of the Ceramic Society of Japan, 2021, 129, 458-463.	0.5	2
41	Amorphous Li₂Oâ€“LiI Solid Electrolytes Compatible to Li Metal. Electrochemistry, 2021, 89, 334-336.	0.6	13
42	Electrode performance of amorphous MoS3 in all-solid-state sodium secondary batteries. Journal of Power Sources Advances, 2021, 10, 100061.	2.6	19
43	Development of All-solid-state Batteries. Journal of the Institute of Electrical Engineers of Japan, 2021, 141, 579-582.	0.0	1
44	Mechanochemical synthesis and characterization of Na3â€“P1â€“W S4 solid electrolytes. Journal of Power Sources, 2021, 506, 230100.	4.0	17
45	Crystallization behaviors in superionic conductor Na3PS4. Journal of Power Sources, 2021, 511, 230444.	4.0	9
46	Development, Structure, and Mechanical Properties of Sulfide Solid Electrolytes. , 2021, , 38-48.		0
47	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.	4.0	50
48	High-Rate Lithium Metal Plating and Stripping on Solid Electrolytes Using a Porous Current Collector with a High Aperture Ratio. ACS Applied Energy Materials, 2021, 4, 12613-12622.	2.5	4
49	Aqueous solution synthesis of Na₃SbS₄â€“Na₂WS₄ superionic conductors. Journal of Materials Chemistry A, 2020, 8, 1947-1954.	5.2	47
50	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. ACS Omega, 2020, 5, 26287-26294.	1.6	22
51	Exothermal behavior and microstructure of a LiNi1/3Mn1/3Co1/3O2 electrode layer using a Li4SnS4 solid electrolyte. Journal of Power Sources, 2020, 479, 228827.	4.0	22
52	First-Principles Calculation Study of Na⁺ Superionic Conduction Mechanism in W- and Mo-Doped Na₃SbS₄ Solid Electrolytes. Chemistry of Materials, 2020, 32, 8373-8381.	3.2	33
53	Preparation and characterization of composite quasi-solid electrolytes composed of 75Li2SÂ·25P2S5 glass and phosphate esters. Journal of Power Sources, 2020, 479, 228826.	4.0	2
54	Multimodal Plant Healthcare Flexible Sensor System. ACS Nano, 2020, 14, 10966-10975.	7.3	129

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55	Capacity Improvement by Nitrogen Doping to Lithium-Rich Cathode Materials with Stabilization Effect of Oxide Ions Redox. ACS Applied Energy Materials, 2020, 3, 4162-4167.	2.5	18
56	Fabrication of Mg-Al Layered Double Hydroxide Thin Membrane for All-Solid-State Alkaline Fuel Cell Using Glass Paper as a Support. Frontiers in Materials, 2020, 7, .	1.2	5
57	Reaction uniformity visualized by Raman imaging in the composite electrode layers of all-solid-state lithium batteries. Physical Chemistry Chemical Physics, 2020, 22, 13271-13276.	1.3	9
58	High-rate operation of sulfur/mesoporous activated carbon composite electrode for all-solid-state lithium-sulfur batteries. Journal of the Ceramic Society of Japan, 2020, 128, 233-237.	0.5	19
59	Electronic state of sulfide-based alkali-ion conducting solid-state electrolytes applied to all-solid-state secondary batteries. IOP Conference Series: Materials Science and Engineering, 2020, 835, 012041.	0.3	1
60	A reversible oxygen redox reaction in bulk-type all-solid-state batteries. Science Advances, 2020, 6, eaax7236.	4.7	34
61	Sulfide Electrolyte Suppressing Side Reactions in Composite Positive Electrodes for All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 29228-29234.	4.0	7
62	How Certain Are the Reported Ionic Conductivities of Thiophosphate-Based Solid Electrolytes? An Interlaboratory Study. ACS Energy Letters, 2020, 5, 910-915.	8.8	98
63	<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.	2.1	44
64	Control of Dendritic Growth of the Lithium Metal in All-Solid-State Lithium Metal Batteries: Effect of the Current Collector with Microsized Pores. ACS Applied Materials & Interfaces, 2020, 12, 22798-22803.	4.0	18
65	All-solid-state sodium-sulfur battery showing full capacity with activated carbon MSP20-sulfur-Na3SbS4 composite. Electrochemistry Communications, 2020, 116, 106741.	2.3	18
66	Preparation and Characterization of Cation-Substituted Na₃SbS₄ Solid Electrolytes. ACS Applied Energy Materials, 2020, 3, 11706-11712.	2.5	22
67	Preparation of sodium-ion-conductive Na_{3âˆ’}<i>_x</i>SbS_{4âˆ’}<i><sub>x</sub&g solid electrolytes. Journal of the Ceramic Society of Japan, 2020, 128, 641-647.	0.5	15
68	Quasi-Solid Electrolytes Comprising Sulfide Electrolyte and Carboxylate Esters: Investigation of the Influence of the Carboxylate Ester Structure. Journal of the Electrochemical Society, 2020, 167, 120521.	1.3	1
69	Characterization of quasi-solid electrolytes based on Li₃PS₄ glass with organic carbonate additives. Journal of the Ceramic Society of Japan, 2020, 128, 653-655.	0.5	0
70	Mechanochemical synthesis and characterization of amorphous Li₂CN₂ as a lithium ion conductor. Journal of the Ceramic Society of Japan, 2019, 127, 518-520.	0.5	10
71	Ion-exchange Synthesis of Li₂NaPS₄ from Na₃PS₄. Chemistry Letters, 2019, 48, 863-865.	0.7	0
72	New lithium-conducting nitride glass Li3BN2. Solid State Ionics, 2019, 339, 114985.	1.3	13

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73	Mechanochemical synthesis of cubic rocksalt Na₂TiS₃ as novel active materials for all-solid-state sodium secondary batteries. Journal of the Ceramic Society of Japan, 2019, 127, 514-517.	0.5	5
74	Microstructure and conductivity of Al-substituted Li7La3Zr2O12 ceramics with different grain sizes. Solid State Ionics, 2019, 342, 115047.	1.3	7
75	Metastable Materials for All-Solid-State Batteries. Electrochemistry, 2019, 87, 247-250.	0.6	12
76	Ex situ investigation of exothermal behavior and structural changes of the Li3PS4-â€€LiNi1/3Mn1/3Co1/3O2 electrode composites. Solid State Ionics, 2019, 342, 115046.	1.3	13
77	Mechanochemical Synthesis of Na-Sb Alloy Negative Electrodes and Their Application to All-solid-state Sodium Batteries. Electrochemistry, 2019, 87, 289-293.	0.6	10
78	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.	5.2	127
79	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.	1.5	53
80	Preparation and characterization of lithium ion conductive Li3SbS4 glass and glass-ceramic electrolytes. Solid State Ionics, 2019, 333, 45-49.	1.3	67
81	Lithium Dissolution/Deposition Behavior of Al-Doped Li₇La₃Zr₂O₁₂ Ceramics with Different Grain Sizes. Journal of the Electrochemical Society, 2019, 166, A5470-A5473.	1.3	15
82	Exothermal mechanisms in the charged LiNi1/3Mn1/3Co1/3O2 electrode layers for sulfide-based all-solid-state lithium batteries. Journal of Power Sources, 2019, 434, 226714.	4.0	29
83	Quantitative analysis of crystallinity in an argyrodite sulfide-based solid electrolyte synthesized via solution processing. RSC Advances, 2019, 9, 14465-14471.	1.7	22
84	Highly Stable Li/Li₃BO₃â€"Li₂SO₄ Interface and Application to Bulk-Type All-Solid-State Lithium Metal Batteries. ACS Applied Energy Materials, 2019, 2, 3042-3048.	2.5	19
85	Suspension synthesis of Na3-PS4-Cl solid electrolytes. Journal of Power Sources, 2019, 428, 131-135.	4.0	17
86	Sulfurâ€Based Composite Electrode with Interconnected Mesoporous Carbon for Allâ€Solidâ€State Lithiumâ€"Sulfur Batteries. Energy Technology, 2019, 7, 1900077.	1.8	38
87	Fast Cationic and Anionic Redox Reactions in Li₂RuO₃-Li₂SO₄ Positive Electrode Materials. ACS Applied Energy Materials, 2019, 2, 1594-1599.	2.5	6
88	Amorphous Niâ€Rich Li(Ni_{1â^'}<i>_x</i>_{â^'}<i>_y</i>Mn<i>_x</i>Co<i>_y</i>)O<sub Positive Electrode Materials for Bulkâ€Type Allâ€Oxide Solidâ€State Batteries. Advanced Materials Interfaces, 2019, 6, 1802016.	1.9	12
89	Formation of interfacial contact with ductile Li3BO3-based electrolytes for improving cyclability in all-solid-state batteries. Journal of Power Sources, 2019, 424, 215-219.	4.0	20
90	All-solid-state cells with Li4Ti5O12/carbon nanotube composite electrodes prepared by infiltration with argyrodite sulfide-based solid electrolytes via liquid-phase processing. Journal of Power Sources, 2019, 417, 125-131.	4.0	27

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91	Liquid-phase syntheses of sulfide electrolytes for all-solid-state lithium battery. Nature Reviews Chemistry, 2019, 3, 189-198.	13.8	238
92	A sodium-ion sulfide solid electrolyte with unprecedented conductivity at room temperature. Nature Communications, 2019, 10, 5266.	5.8	216
93	Sulfurâ€Based Composite Electrode with Interconnected Mesoporous Carbon for Allâ€Solidâ€State Lithiumâ€"Sulfur Batteries. Energy Technology, 2019, 7, 1980393.	1.8	6
94	Amorphous Na₂TiS₃ as an Active Material for All-solid-state Sodium Batteries. Chemistry Letters, 2019, 48, 288-290.	0.7	7
95	Glasses and Glass-Ceramics for Solid-State Battery Applications. Springer Handbooks, 2019, , 1697-1754.	0.3	9
96	Development of Solid Electrolytes for All-Solid-State Batteries. Nippon Gomu Kyokaishi, 2019, 92, 430-434.	0.0	0
97	Development of Next Generation Battery Materials by Mechanochemical Process. Journal of the Society of Powder Technology, Japan, 2019, 56, 452-458.	0.0	0
98	Mechanical Properties of Li₂Sâ€"P₂S₅ Glasses with Lithium Halides and Application in All-Solid-State Batteries. ACS Applied Energy Materials, 2018, 1, 1002-1007.	2.5	126
99	Crystallization behavior of the Li2Sâ€"P2S5 glass electrolyte in the LiNi1/3Mn1/3Co1/3O2 positive electrode layer. Scientific Reports, 2018, 8, 6214.	1.6	30
100	Amorphous LiCoO2-based Positive Electrode Active Materials with Good Formability for All-Solid-State Rechargeable Batteries. MRS Advances, 2018, 3, 1319-1327.	0.5	10
101	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.	1.3	118
102	Preparation of Na3PS4 electrolyte by liquid-phase process using ether. Solid State Ionics, 2018, 320, 33-37.	1.3	17
103	Preparation and characterization of Na3PS4â€"Na4GeS4 glass and glass-ceramic electrolytes. Solid State Ionics, 2018, 320, 193-198.	1.3	16
104	Preparation of Sodium Ion Conductive Na₁₀GeP₂S₁₂ Glass-ceramic Electrolytes. Chemistry Letters, 2018, 47, 13-15.	0.7	35
105	Low temperature sintering of Na1+Zr2Si P3â^'O12 by the addition of Na3BO3. Scripta Materialia, 2018, 145, 67-70.	2.6	44
106	Liquidâ€phase sintering of highly Na⁺ ion conducting Na₃Zr₂Si₂PO₁₂ ceramics using Na₃BO₃ additive. Journal of the American Ceramic Society, 2018, 101, 1255-1265.	1.9	69
107	Effect of introducing interlayers into electrode/electrolyte interface in all-solid-state battery using sulfide electrolyte. Solid State Ionics, 2018, 327, 150-156.	1.3	38
108	Thermal behavior and microstructures of cathodes for liquid electrolyte-based lithium batteries. Scientific Reports, 2018, 8, 15613.	1.6	17

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109	Amorphization of Sodium Cobalt Oxide Active Materials for High-Capacity All-Solid-State Sodium Batteries. Chemistry of Materials, 2018, 30, 6998-7004.	3.2	12
110	Mechanical properties of sulfide glasses in all-solid-state batteries. Journal of the Ceramic Society of Japan, 2018, 126, 719-727.	0.5	75
111	Oxide-Based Composite Electrolytes Using Na₃Zr₂Si₂PO₁₂/Na₃PS₄ Interfacial Ion Transfer. ACS Applied Materials & Interfaces, 2018, 10, 19605-19614.	4.0	15
112	Mechanochemically Prepared Li₂Sâ€"P₂S₅â€"LiBH₄ Solid Electrolytes with an Argyrodite Structure. ACS Omega, 2018, 3, 5453-5458.	1.6	41
113	Sodium thiophosphate electrolyte thin films prepared by pulsed laser deposition for bulk-type all-solid-state sodium rechargeable batteries. Journal of the Ceramic Society of Japan, 2018, 126, 475-481.	0.5	8
114	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.	1.3	44
115	Lithium dissolution/deposition behavior with Li3PS4-LiI electrolyte for all-solid-state batteries operating at high temperatures. Electrochimica Acta, 2018, 286, 158-162.	2.6	83
116	Preparation of Solid Electrolyte Particles and Solid-Solid Interfaces for All-Solid-State Batteries. , 2018, , 579-584.		0
117	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.	2.5	103
118	Preparation of an Amorphous 80LiCoO₂Â·20Li₂SO₄ Thin Film Electrode by Pulsed Laser Deposition. Electrochemistry, 2018, 86, 246-249.	0.6	2
119	Mechanochemical Synthesis and Characterization of Metastable Hexagonal Li₄SnS₄ Solid Electrolyte. Inorganic Chemistry, 2018, 57, 9925-9930.	1.9	59
120	Electrochemical Properties of All-solid-state Lithium Batteries with Amorphous FeS<i>_x</i>-based Composite Positive Electrodes Prepared via Mechanochemistry. Electrochemistry, 2018, 86, 175-178.	0.6	14
121	Optical microscopic observation of graphite composite negative electrodes in all-solid-state lithium batteries. Solid State Ionics, 2018, 323, 123-129.	1.3	31
122	Amorphous LiCoO 2 Li 2 SO 4 active materials: Potential positive electrodes for bulk-type all-oxide solid-state lithium batteries with high energy density. Journal of Power Sources, 2017, 348, 1-8.	4.0	29
123	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.	5.2	48
124	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.	5.2	47
125	Structural and Electronic-State Changes of a Sulfide Solid Electrolyte during the Li Deinsertionâ€"Insertion Processes. Chemistry of Materials, 2017, 29, 4768-4774.	3.2	151
126	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.	4.0	59

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127	Preparation and characterization of glass solid electrolytes in the pseudoternary system Li 3 BO 3 -Li 2 SO 4 -Li 2 CO 3. Solid State Ionics, 2017, 308, 68-76.	1.3	40
128	Solution-based sequential modification of LiCoO₂particle surfaces with iron(<scp>ii</scp>) oxalate nanolayers. CrystEngComm, 2017, 19, 4175-4181.	1.3	4
129	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.	2.7	101
130	All-Solid-State Na/S Batteries with a Na₃PS₄ Electrolyte Operating at Room Temperature. Chemistry of Materials, 2017, 29, 5232-5238.	3.2	126
131	Mechanochemical synthesis of high lithium ion conducting solid electrolytes in a Li2S-P2S5-Li3N system. Solid State Ionics, 2017, 304, 85-89.	1.3	35
132	Lithiumâ€“Sulfur Battery Electrolytes. , 2017, , 149-194.		0
133	Analysis of structural and thermal stability in the positive electrode for sulfide-based all-solid-state lithium batteries. Journal of Power Sources, 2017, 367, 42-48.	4.0	38
134	Favorable Carbon Conductive Additives in Li₃PS₄Composite Positive Electrode Prepared by Ball-Milling for All-Solid-State Lithium Batteries. Journal of the Electrochemical Society, 2017, 164, A2804-A2811.	1.3	21
135	Recent progress on interface formation in all-solid-state batteries. Current Opinion in Electrochemistry, 2017, 6, 108-114.	2.5	41
136	Characterization of sulfur nanocomposite electrodes containing phosphorus sulfide for high-capacity all-solid-state Na/S batteries. Solid State Ionics, 2017, 311, 6-13.	1.3	30
137	The crystal structure and sodium disorder of high-temperature polymorph Î²-Na₃PS₄. Journal of Materials Chemistry A, 2017, 5, 25025-25030.	5.2	46
138	Direct observation of a non-crystalline state of Li2Sâ€“P2S5 solid electrolytes. Scientific Reports, 2017, 7, 4142.	1.6	47
139	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.	1.3	47
140	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.	0.5	48
141	Title is missing!. Electrochemistry, 2017, 85, 347-351.	0.6	0
142	Title is missing!. Electrochemistry, 2017, 85, 586-590.	0.6	0
143	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, .	1.2	148
144	Preparation and characterization of Na₃BO₃â€“Na₂SO₄ glass electrolytes with Na⁺ ion conductivity prepared by a mechanical milling technique. Journal of Asian Ceramic Societies, 2016, 4, 6-10.	1.0	7

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145	Raman Spectroscopy for LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ Composite Positive Electrodes in All-Solid-State Lithium Batteries. Electrochemistry, 2016, 84, 812-814.	0.6	20
146	Improved electrochemical performance of amorphous TiS₃ electrodes compared to its crystal for all-solid-state rechargeable lithium batteries. Journal of the Ceramic Society of Japan, 2016, 124, 242-246.	0.5	14
147	X-ray photoelectron spectroscopy for sulfide glass electrolytes in the systems Li₂S–P₂S₅ and Li₂S–P₂S₅–LiBr. Journal of the Ceramic Society of Japan, 2016, 124, 597-601.	0.5	30
148	Mechanochemical synthesis and crystallization of Li₃BO₃–Li₂CO₃ glass electrolytes. Journal of the Ceramic Society of Japan, 2016, 124, 915-919.	0.5	27
149	Investigation of State-of-charge Distributions for LiCoO₂Composite Positive Electrodes in All-solid-state Lithium Batteries by Raman Imaging. Chemistry Letters, 2016, 45, 810-812.	0.7	25
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