Atsushi Sakuda

List of Publications by Citations

151 papers	4,935 citations	35 h-index	67 g-index
164 ext. papers	5,960 ext. citations	4.9 avg, IF	6.09 L-index

#	Paper	IF	Citations
151	Superionic glass-ceramic electrolytes for room-temperature rechargeable sodium batteries. *Nature Communications*, **2012**, 3, 856	17.4	603
150	Sulfide solid electrolyte with favorable mechanical property for all-solid-state lithium battery. *Scientific Reports*, **2013**, 3, 2261	4.9	504
149	Interfacial Observation between LiCoO2 Electrode and Li2SP2S5 Solid Electrolytes of All-Solid-State Lithium Secondary Batteries Using Transmission Electron Microscopy *Chemistry of Materials*, **2010**, 22, 949-956	9.6	415
148	Liquid-phase syntheses of sulfide electrolytes for all-solid-state lithium battery. *Nature Reviews Chemistry*, **2019**, 3, 189-198	34.6	138
147	All-solid-state lithium secondary batteries using LiCoO2 particles with pulsed laser deposition coatings of Li2SP2S5 solid electrolytes. *Journal of Power Sources*, **2011**, 196, 6735-6741	8.9	134
146	Modification of Interface Between LiCoO[sub 2] Electrode and Li[sub 2]SP[sub 2]S[sub 5] Solid Electrolyte Using Li[sub 2]OSiO[sub 2] Glassy Layers. *Journal of the Electrochemical Society*, **2009**, 156, A27	3.9	126
145	Improvement of High-Rate Performance of All-Solid-State Lithium Secondary Batteries Using LiCoO[sub 2] Coated with Li[sub 2]OSiO[sub 2] Glasses. *Electrochemical and Solid-State Letters*, **2008**, 11, A1		119
144	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,	3.8	117
143	A sodium-ion sulfide solid electrolyte with unprecedented conductivity at room temperature. *Nature Communications*, **2019**, 10, 5266	17.4	108
142	Evaluation of elastic modulus of Li2SP2S5 glassy solid electrolyte by ultrasonic sound velocity measurement and compression test. *Journal of the Ceramic Society of Japan*, **2013**, 121, 946-949	1	100
141	Mechanical Properties of Li2SP2S5 Glasses with Lithium Halides and Application in All-Solid-State Batteries. *ACS Applied Energy Materials*, **2018**, 1, 1002-1007	6.1	89
140	Electrode morphology in all-solid-state lithium secondary batteries consisting of LiNi1/3Co1/3Mn1/3O2 and Li2S-P2S5 solid electrolytes. *Solid State Ionics*, **2016**, 285, 112-117	3.3	86
139	All-Solid-State Battery Electrode Sheets Prepared by a Slurry Coating Process. *Journal of the Electrochemical Society*, **2017**, 164, A2474-A2478	3.9	83
138	All-solid-state lithium secondary batteries with oxide-coated LiCoO2 electrode and Li2SP2S5 electrolyte. *Journal of Power Sources*, **2009**, 189, 527-530	8.9	80
137	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	13	79
136	Preparation and ionic conductivities of (100 x)(0.75Li2S 0.25P2S5) xLiBH4 glass electrolytes. *Journal of Power Sources*, **2013**, 244, 707-710	8.9	68
135	LiCoO[sub 2] Electrode Particles Coated with Li[sub 2]SP[sub 2]S[sub 5] Solid Electrolyte for All-Solid-State Batteries. *Electrochemical and Solid-State Letters*, **2010**, 13, A73		62

134	Binder-free sheet-type all-solid-state batteries with enhanced rate capabilities and high energy densities. *Scientific Reports*, **2018**, 8, 1212	4.9	61
133	How Certain Are the Reported Ionic Conductivities of Thiophosphate-Based Solid Electrolytes? An Interlaboratory Study. *ACS Energy Letters*, **2020**, 5, 910-915	20.1	60
132	Preparation of amorphous Li4SiO4□Li3PO4 thin films by pulsed laser deposition for all-solid-state lithium secondary batteries. *Solid State Ionics*, **2011**, 182, 59-63	3.3	60
131	All-solid-state lithium secondary batteries using NiS-carbon fiber composite electrodes coated with Li□-P□□ solid electrolytes by pulsed laser deposition. *ACS Applied Materials & Interfaces*, **2013**, 5, 686-90	9.5	55
130	Rock-salt-type lithium metal sulphides as novel positive-electrode materials. *Scientific Reports*, **2014**, 4, 4883	4.9	54
129	Lithium dissolution/deposition behavior with Li3PS4-LiI electrolyte for all-solid-state batteries operating at high temperatures. *Electrochimica Acta*, **2018**, 286, 158-162	6.7	53
128	Amorphous TiS4 positive electrode for lithium□sulfur secondary batteries. *Electrochemistry Communications*, **2013**, 31, 71-75	5.1	51
127	Amorphous Metal Polysulfides: Electrode Materials with Unique Insertion/Extraction Reactions. *Journal of the American Chemical Society*, **2017**, 139, 8796-8799	16.4	50
126	Amorphous Titanium Sulfide Electrode for All-solid-state Rechargeable Lithium Batteries with High Capacity. *Chemistry Letters*, **2012**, 41, 886-888	1.7	48
125	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		46
124	Mechanical properties of sulfide glasses in all-solid-state batteries. *Journal of the Ceramic Society of Japan*, **2018**, 126, 719-727	1	46
123	Evaluation of mechanical properties of Na2S□P2S5 sulfide glass electrolytes. *Journal of Materials Chemistry A*, **2015**, 3, 22061-22065	13	45
122	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	3.9	42
121	Mechanochemical Synthesis and Characterization of Metastable Hexagonal LiSnS Solid Electrolyte. *Inorganic Chemistry*, **2018**, 57, 9925-9930	5.1	40
120	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	37
119	Fabrication of composite positive electrode sheet with high active material content and effect of fabrication pressure for all-solid-state battery. *Journal of the Ceramic Society of Japan*, **2017**, 125, 391-395	1	37
118	Electrochemical performance of all-solid-state lithium secondary batteries improved by the coating of Li2O□TiO2 films on LiCoO2 electrode. *Journal of Power Sources*, **2010**, 195, 599-603	8.9	36
117	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	3.8	35

116	Preparation and characterization of lithium ion conductive Li3SbS4 glass and glass-ceramic electrolytes. *Solid State Ionics*, **2019**, 333, 45-49	3.3	35
115	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	3.3	34
114	Preparation of Highly Lithium-Ion Conductive 80Li2S□20P2S5 Thin-Film Electrolytes Using Pulsed Laser Deposition. *Journal of the American Ceramic Society*, **2010**, 93, 765-768	3.8	34
113	Amorphous Niobium Sulfides as Novel Positive-Electrode Materials. *ECS Electrochemistry Letters*, **2014**, 3, A79-A81		33
112	Slurry mixing for fabricating silicon-composite electrodes in all-solid-state batteries with high areal capacity and cycling stability. *Journal of Power Sources*, **2018**, 402, 506-512	8.9	32
111	Application of graphite□solid electrolyte composite anode in all-solid-state lithium secondary battery with Li2S positive electrode. *Solid State Ionics*, **2014**, 262, 138-142	3.3	31
110	Recent progress on interface formation in all-solid-state batteries. *Current Opinion in Electrochemistry*, **2017**, 6, 108-114	7.2	29
109	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	3.9	28
108	Evaluation of young□ modulus of Li2S□P2S5□P2O5 oxysulfide glass solid electrolytes. *Journal of the Ceramic Society of Japan*, **2014**, 122, 552-555	1	27
107	Dry coating of active material particles with sulfide solid electrolytes for an all-solid-state lithium battery. *Journal of Power Sources*, **2020**, 448, 227579	8.9	27
106	Electronic and Ionic Conductivities of LiNi1/3Mn1/3Co1/3O2-Li3PS4Positive Composite Electrodes for All-Solid-State Lithium Batteries. *Journal of the Electrochemical Society*, **2017**, 164, A3960-A3963	3.9	25
105	All-solid-state Lithium Secondary Batteries Using Li2S□P2S5 Solid Electrolytes and LiFePO4 Electrode Particles with Amorphous Surface Layer. *Chemistry Letters*, **2012**, 41, 260-261	1.7	24
104	Mechanochemically Prepared LiS-PS-LiBH Solid Electrolytes with an Argyrodite Structure. *ACS Omega*, **2018**, 3, 5453-5458	3.9	24
103	Optical microscopic observation of graphite composite negative electrodes in all-solid-state lithium batteries. *Solid State Ionics*, **2018**, 323, 123-129	3.3	23
102	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	6.4	22
101	Rapid Preparation of Li2S-P2S5 Solid Electrolyte and Its Application for Graphite/Li2S All-Solid-State Lithium Secondary Battery. *ECS Electrochemistry Letters*, **2014**, 3, A31-A35		22
100	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	8.9	22
99	Preparation of Sodium Ion Conductive Na10GeP2S12 Glass-ceramic Electrolytes. *Chemistry Letters*, **2018**, 47, 13-15	1.7	20

98	Preparation of Li2S□GeS2 solid electrolyte thin films using pulsed laser deposition. *Solid State Ionics*, **2013**, 236, 1-4	3.3	19
97	Aqueous solution synthesis of Na3SbS4□Na2WS4 superionic conductors. *Journal of Materials Chemistry A*, **2020**, 8, 1947-1954	13	19
96	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	9.5	19
95	Sulfur-Based Composite Electrode with Interconnected Mesoporous Carbon for All-Solid-State Lithium□Sulfur Batteries. *Energy Technology*, **2019**, 7, 1900077	3.5	18
94	Preparation of Li2S-FeSxComposite Positive Electrode Materials and Their Electrochemical Properties with Pre-Cycling Treatments. *Journal of the Electrochemical Society*, **2015**, 162, A1745-A1750	3.9	18
93	Composite positive electrode based on amorphous titanium polysulfide for application in all-solid-state lithium secondary batteries. *Solid State Ionics*, **2014**, 262, 143-146	3.3	18
92	Electrochemical properties of all-solid-state lithium batteries with amorphous titanium sulfide electrodes prepared by mechanical milling. *Journal of Solid State Electrochemistry*, **2013**, 17, 2697-2701	2.6	18
91	A reversible oxygen redox reaction in bulk-type all-solid-state batteries. *Science Advances*, **2020**, 6, eaax7236	12.5	16
90	Favorable composite electrodes for all-solid-state batteries. *Journal of the Ceramic Society of Japan*, **2018**, 126, 675-683	1	16
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	8.9	15
88	High Reversibility of □Soft□ Electrode Materials in All-Solid-State Batteries. *Frontiers in Energy Research*, **2016**, 4,	3.8	15
87	A Reversible Rocksalt to Amorphous Phase Transition Involving Anion Redox. *Scientific Reports*, **2018**, 8, 15086	4.9	15
86	Suspension synthesis of Na3-xPS4-xClx solid electrolytes. *Journal of Power Sources*, **2019**, 428, 131-135	8.9	14
85	Li4GeS4□Li3PS4 electrolyte thin films with highly ion-conductive crystals prepared by pulsed laser deposition. *Journal of the Ceramic Society of Japan*, **2014**, 122, 341-345	1	14
84	Effects of volume variations under different compressive pressures on the performance and microstructure of all-solid-state batteries. *Journal of Power Sources*, **2020**, 473, 228595	8.9	14
83	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	6.1	14
82	Preparation of LiMn2O4 cathode thin films for thin film lithium secondary batteries by a mist CVD process. *Materials Research Bulletin*, **2014**, 53, 196-198	5.1	13
81	Preparation of amorphous TiS x thin film electrodes by the PLD method and their application to all-solid-state lithium secondary batteries. *Journal of Materials Science*, **2012**, 47, 6601-6606	4.3	13

80	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. *ACS Omega*, **2020**, 5, 26287-26294	3.9	13
79	Quantitative analysis of crystallinity in an argyrodite sulfide-based solid electrolyte synthesized solution processing.. *RSC Advances*, **2019**, 9, 14465-14471	3.7	12
78	Preparation of Na3PS4 electrolyte by liquid-phase process using ether. *Solid State Ionics*, **2018**, 320, 33-37	3.3	12
77	Investigation of the Suppression of Dendritic Lithium Growth with a Lithium-Iodide-Containing Solid Electrolyte. *Chemistry of Materials*, **2021**, 33, 4907-4914	9.6	12
76	Analysis of the discharge/charge mechanism in VS4 positive electrode material. *Solid State Ionics*, **2018**, 323, 32-36	3.3	12
75	Oxide-Based Composite Electrolytes Using NaZrSiPO/NaPS Interfacial Ion Transfer. *ACS Applied Materials & Interfaces*, **2018**, 10, 19605-19614	9.5	12
74	Electrochemical Properties of All-solid-state Lithium Batteries with Amorphous FeSx-based Composite Positive Electrodes Prepared via Mechanochemistry. *Electrochemistry*, **2018**, 86, 175-178	1.2	11
73	All-solid-state sodium-sulfur battery showing full capacity with activated carbon MSP20-sulfur-Na3SbS4 composite. *Electrochemistry Communications*, **2020**, 116, 106741	5.1	11
72	First-Principles Calculation Study of Na+ Superionic Conduction Mechanism in W- and Mo-Doped Na3SbS4 Solid Electrolytes. *Chemistry of Materials*, **2020**, 32, 8373-8381	9.6	11
71	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	3.3	10
70	Preparation of Li2S□GePS3 composite positive electrode materials and their electrochemical properties. *Solid State Ionics*, **2016**, 288, 199-203	3.3	10
69	Structure analyses of Fe-substituted Li2S-based positive electrode materials for Li-S batteries. *Solid State Ionics*, **2018**, 320, 387-391	3.3	9
68	Mechanochemical synthesis and characterization of amorphous Li2CN2 as a lithium ion conductor. *Journal of the Ceramic Society of Japan*, **2019**, 127, 518-520	1	9
67	Bulk-type All-solid-state Lithium Secondary Batteries Using Highly Ion-conductive Sulfide Solid Electrolyte Thin Films. *Electrochemistry*, **2014**, 82, 591-594	1.2	9
66	Development of Li2TiS3–Li3NbS4 by a mechanochemical process. *Journal of the Ceramic Society of Japan*, **2017**, 125, 268-271	1	9
65	Bulk-Type All-Solid-State Lithium Secondary Battery with Li2S-P2S5 Thin-Film Separator. *Electrochemistry*, **2012**, 80, 839-841	1.2	9
64	Amorphization of Sodium Cobalt Oxide Active Materials for High-Capacity All-Solid-State Sodium Batteries. *Chemistry of Materials*, **2018**, 30, 6998-7004	9.6	9
63	Amorphous Ni-Rich Li(Ni1□□MnxCoy)O2□i2SO4 Positive Electrode Materials for Bulk-Type All-Oxide Solid-State Batteries. *Advanced Materials Interfaces*, **2019**, 6, 1802016	4.6	8

62	Amorphous LiCoO2-based Positive Electrode Active Materials with Good Formability for All-Solid-State Rechargeable Batteries. *MRS Advances*, **2018**, 3, 1319-1327	0.7	8
61	Preparation of Novel Electrode Materials Based on Lithium Niobium Sulfides. *Electrochemistry*, **2014**, 82, 880-883	1.2	8
60	Metastable Materials for All-Solid-State Batteries. *Electrochemistry*, **2019**, 87, 247-250	1.2	7
59	Highly Stable Li/Li3BO3□i2SO4 Interface and Application to Bulk-Type All-Solid-State Lithium Metal Batteries. *ACS Applied Energy Materials*, **2019**, 2, 3042-3048	6.1	7
58	New lithium-conducting nitride glass Li3BN2. *Solid State Ionics*, **2019**, 339, 114985	3.3	7
57	Cubic Rocksalt Li2SnS3 and a Solid Solution with Li3NbS4 Prepared by Mechanochemical Synthesis. *Electrochemistry*, **2017**, 85, 580-584	1.2	7
56	Exothermal behavior and microstructure of a LiNi1/3Mn1/3Co1/3O2 electrode layer using a Li4SnS4 solid electrolyte. *Journal of Power Sources*, **2020**, 479, 228827	8.9	7
55	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	3.9	7
54	Electrode performance of amorphous MoS3 in all-solid-state sodium secondary batteries. *Journal of Power Sources Advances*, **2021**, 10, 100061	3.3	7
53	Lithium Dissolution/Deposition Behavior of Al-Doped Li7La3Zr2O12 Ceramics with Different Grain Sizes. *Journal of the Electrochemical Society*, **2019**, 166, A5470-A5473	3.9	6
52	Preparation and Characterization of Cation-Substituted Na3SbS4 Solid Electrolytes. *ACS Applied Energy Materials*, **2020**, 3, 11706-11712	6.1	6
51	Amorphous Li2O□il Solid Electrolytes Compatible to Li Metal. *Electrochemistry*, **2021**, 89, 334-336	1.2	6
50	Mechanochemical synthesis and characterization of Na3□P1□WxS4 solid electrolytes. *Journal of Power Sources*, **2021**, 506, 230100	8.9	6
49	Mechanochemical Synthesis of Na-Sb Alloy Negative Electrodes and Their Application to All-solid-state Sodium Batteries. *Electrochemistry*, **2019**, 87, 289-293	1.2	5
48	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	3.6	5
47	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	1	5
46	Microstructure and conductivity of Al-substituted Li7La3Zr2O12 ceramics with different grain sizes. *Solid State Ionics*, **2019**, 342, 115047	3.3	5
45	Liquid-phase synthesis of Li3PS4 solid electrolyte using ethylenediamine. *Journal of Sol-Gel Science and Technology*,1	2.3	5

44	Amorphous Na2TiS3 as an Active Material for All-solid-state Sodium Batteries. *Chemistry Letters*, **2019**, 48, 288-290	1.7	5
43	Synthesis and Electrochemical Properties of Li3CuS2 as a Positive Electrode Material for All-Solid-State Batteries. *ACS Applied Energy Materials*, **2021**, 4, 20-24	6.1	5
42	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	3.8	5
41	Sulfide Electrolyte Suppressing Side Reactions in Composite Positive Electrodes for All-Solid-State Lithium Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 29228-29234	9.5	4
40	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	1	4
39	Solid Electrolyte with Oxidation Tolerance Provides a High-Capacity Li2S-Based Positive Electrode for All-Solid-State Li/S Batteries. *Advanced Functional Materials*,2106174	15.6	4
38	Preparation and characterization of hexagonal Li4GeO4-based glass-ceramic electrolytes. *Solid State Ionics*, **2021**, 363, 115605	3.3	4
37	Fast Cationic and Anionic Redox Reactions in Li2RuO3-Li2SO4 Positive Electrode Materials. *ACS Applied Energy Materials*, **2019**, 2, 1594-1599	6.1	3
36	Elucidation of Capacity Degradation for Graphite in Sulfide-Based All-Solid-State Lithium Batteries: A Void Formation Mechanism. *ACS Applied Energy Materials*, **2020**, 3, 5472-5478	6.1	3
35	Preparation of Li2S-FeS2 Composite Electrode Materials and their Electrochemical Properties. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2013**, 60, 13-18	0.2	3
34	Characteristics of a Li3BS3 Thioborate Glass Electrolyte Obtained via a Mechanochemical Process. *ACS Applied Energy Materials*,	6.1	3
33	Molybdenum polysulfide electrode with high capacity for all-solid-state sodium battery. *Solid State Ionics*, **2022**, 376, 115848	3.3	3
32	Studies on the inhibition of lithium dendrite formation in sulfide solid electrolytes doped with LiX (X□=□Br, I). *Solid State Ionics*, **2022**, 377, 115869	3.3	3
31	Preparation of sodium-ion-conductive Na3□SbS4□Clx solid electrolytes. *Journal of the Ceramic Society of Japan*, **2020**, 128, 641-647	1	3
30	Sulfur-Based Composite Electrode with Interconnected Mesoporous Carbon for All-Solid-State Lithium□Sulfur Batteries. *Energy Technology*, **2019**, 7, 1980393	3.5	3
29	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	6.1	3
28	Preparation and characterization of sodium-ion conductive Na3BS3 glass and glass□eramic electrolytes. *Materials Advances*, **2021**, 2, 1676-1682	3.3	3
27	Preparation of an Amorphous 80LiCoO2□20Li2SO4 Thin Film Electrode by Pulsed Laser Deposition. *Electrochemistry*, **2018**, 86, 246-249	1.2	2

26	Improvement of Electrochemical Property of VS4 Electrode Material by Amorphization via Mechanical Milling Process. *Electrochemistry*, **2021**, 89, 239-243	1.2	2
25	Microstructure and Charge–Discharge Mechanism of a Li3CuS2 Positive Electrode Material for All-Solid-State Lithium-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 6290-6295	6.1	2
24	In situ observation of the deterioration process of sulfide-based solid electrolytes using airtight and air-flow TEM systems. *Microscopy (Oxford, England)*, **2021**, 70, 519-525	1.3	2
23	Structures and conductivities of stable and metastable LiGaS solid electrolytes.. *RSC Advances*, **2021**, 11, 25211-25216	3.7	2
22	Crystallization behaviors in superionic conductor Na3PS4. *Journal of Power Sources*, **2021**, 511, 230444	8.9	2
21	AC Impedance Analysis of the Degeneration and Recovery of Argyrodite Sulfide-Based Solid Electrolytes under Dry-Room-Simulated Condition. *Electrochemistry*, **2022**, 90, 037012-037012	1.2	2
20	Na2S–NaI solid solution as positive electrode in all-solid-state Na/S batteries. *Journal of Power Sources*, **2022**, 532, 231313	8.9	2
19	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	6.1	2
18	Solid electrolytes Na10+xSn1+xP2−xS12 prepared via a mechanochemical process. *Journal of the Ceramic Society of Japan*, **2021**, 129, 323-328	1	1
17	Glassy oxide electrolytes in the system Li4SiO4–Li2SO4 with excellent formability. *Journal of the Ceramic Society of Japan*, **2021**, 129, 458-463	1	1
16	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	3.9	0
15	Preparation and characterization of composite quasi-solid electrolytes composed of 75Li2S·25P2S5 glass and phosphate esters. *Journal of Power Sources*, **2020**, 479, 228826	8.9	0
14	Development of All-solid-state Batteries. *Journal of the Institute of Electrical Engineers of Japan*, **2021**, 141, 579-582	0	0
13	Lithium-ion conductivity and crystallization temperature of multicomponent oxide glass electrolytes. *Journal of Non-Crystalline Solids: X*, **2022**, 14, 100089	2.5	0
12	Characterizing the Structural Change of Na3PS4 Solid Electrolytes in a Humid N2 Atmosphere. *Journal of Physical Chemistry C*, **2022**, 126, 7383-7389	3.8	0
11	Ion-exchange Synthesis of Li2NaPS4 from Na3PS4. *Chemistry Letters*, **2019**, 48, 863-865	1.7	
10	Characterization of quasi-solid electrolytes based on Li3PS4 glass with organic carbonate additives. *Journal of the Ceramic Society of Japan*, **2020**, 128, 653-655	1	
9	Development of Solid Electrolytes for All-Solid-State Batteries. *Nippon Gomu Kyokaishi*, **2019**, 92, 430-434		

8	Development of Next Generation Battery Materials by Mechanochemical Process. *Journal of the Society of Powder Technology, Japan*, **2019**, 56, 452-458	0.3
7	1.??????????????????????????????. *Electrochemistry*, **2017**, 85, 586-590	1.2
6	Microstructure and Charge-discharge Properties of a Li3CuS2 active material for All-Solid-State Batteries. *Microscopy and Microanalysis*, **2021**, 27, 3424-3425	0.5
5	Sheet-Type Solid-State LIB **2021**, 119-123	
4	Solution Process **2021**, 77-83	
3	Development, Structure, and Mechanical Properties of Sulfide Solid Electrolytes **2021**, 38-48	
2	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	1
1	Crystalline precursor derived from Li3PS4 and ethylenediamine for ionic conductors. *Journal of Sol-Gel Science and Technology*,1	2.3