Kota Suzuki

List of Publications by Year
in descending order

107 papers	5,378 citations	159358 30 h-index	85405 71 g-index
108 all docs	108 docs citations	108 times ranked	4750 citing authors

#	Article	IF	Citations
1	High-power all-solid-state batteries using sulfide superionic conductors. Nature Energy, 2016, 1, .	19.8	2,421
2	Bulk-Type All Solid-State Batteries with 5 V Class LiNi_{0.5}Mn_{1.5}O₄ Cathode and Li₁₀GeP₂S₁₂ Solid Electrolyte. Chemistry of Materials, 2016, 28, 2634-2640.	3.2	221
3	All-Solid-State Batteries with Thick Electrode Configurations. Journal of Physical Chemistry Letters, 2018, 9, 607-613.	2.1	169
4	Synthesis, structure, and conduction mechanism of the lithium superionic conductor Li_{10+Î´}Ge_{1+Î´}P_{2â^Î´}S₁₂. Journal of Materials Chemistry A, 2015, 3, 438-446.	5.2	144
5	Superionic Conductors: Li_{10+Î´}[Sn_ySi_{1â€“y}]_{1+Î´}P_{2â^Î´}S₁₂ with a Li₁₀GeP₂S₁₂-type Structure in the Li₃PS₄â€“Li₄SnS₄â€“Li₄SiS₄ Quasi-ternary System. Chemistry of Materials, 2017, 29, 5859-5864.	3.2	134
6	Oxygen substitution effects in Li10GeP2S12 solid electrolyte. Journal of Power Sources, 2016, 324, 798-803.	4.0	131
7	Real-time observations of lithium battery reactionsâ€”operando neutron diffraction analysis during practical operation. Scientific Reports, 2016, 6, 28843.	1.6	101
8	Reactions at the electrode/electrolyte interface of all-solid-state lithium batteries incorporating Liâ€“M (M = Sn, Si) alloy electrodes and sulfide-based solid electrolytes. Solid State Ionics, 2016, 285, 101-105.	1.3	94
9	Synthesis, structure, and ionic conductivity of solid solution, Li_{10+Î´}M_{1+Î´}P_{2â^Î´}S₁₂ (M = Si, Sn). Faraday Discussions, 2014, 176, 83-94.	1.6	83
10	All-solid-state lithiumâ€“sulfur batteries with three-dimensional mesoporous electrode structures. Journal of Power Sources, 2016, 330, 120-126.	4.0	71
11	High Cycle Capability of All-Solid-State Lithiumâ€“Sulfur Batteries Using Composite Electrodes by Liquid-Phase and Mechanical Mixing. ACS Applied Energy Materials, 2018, 1, 2373-2377.	2.5	65
12	Phase DiagramÂof the Li₄GeS₄â€“Li₃<scp>PS</scp>₄ Quasiâ€Binary System Containing the Superionic Conductor Li₁₀GeP₂S₁₂. Journal of the American Ceramic Society, 2015, 98, 3352-3360.	1.9	64
13	Fabrication and electrochemical properties of a LiCoO2 and Li10GeP2S12 composite electrode for use in all-solid-state batteries. Solid State Ionics, 2016, 285, 136-142.	1.3	57
14	On the Mechanism of Crystal Water Insertion during Anomalous Spinel-to-Birnessite Phase Transition. Chemistry of Materials, 2016, 28, 5488-5494.	3.2	55
15	Synthesis, structure, and electrochemical properties of crystalline Liâ€“Pâ€“Sâ€“O solid electrolytes: Novel lithium-conducting oxysulfides of Li10GeP2S12 family. Solid State Ionics, 2016, 288, 229-234.	1.3	55
16	Lithium Superionic Conductor Li9.42Si1.02P2.1S9.96O2.04 with Li10GeP2S12-Type Structure in the Li2Sâ€“P2S5â€“SiO2 Pseudoternary System: Synthesis, Electrochemical Properties, and Structureâ€“Composition Relationships. Frontiers in Energy Research, 2016, 4, .	1.2	54
17	Fabrication and electrochemical properties of LiMn2O4/SrRuO3 multi-layer epitaxial thin film electrodes. Journal of Power Sources, 2013, 226, 340-345.	4.0	53
18	Sodium superionic conduction in tetragonal Na3PS4. Journal of Solid State Chemistry, 2018, 265, 353-358.	1.4	52

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19	Composite Sulfur Electrode Prepared by High-Temperature Mechanical Milling for use in an All-Solid-State Lithiumâ€“Sulfur Battery with a Li3.25Ge0.25P0.75S4 Electrolyte. Electrochimica Acta, 2017, 258, 110-115.	2.6	51
20	Surface Characterization of LiFePO4 Epitaxial Thin Films by X-ray/Neutron Reflectometry. Electrochemistry, 2010, 78, 413-415.	0.6	48
21	Effect of surface Li3PO4 coating on LiNi0.5Mn1.5O4 epitaxial thin film electrodes synthesized by pulsed laser deposition. Journal of Power Sources, 2014, 269, 293-298.	4.0	48
22	Structureâ€“property relationships in lithium superionic conductors having a Li₁₀GeP₂S₁₂-type structure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 727-736.	0.5	46
23	Synthesis and structure of novel lithium-ion conductor Li7Ge3PS12. Journal of Solid State Chemistry, 2017, 246, 334-340.	1.4	45
24	Fabrication and All Solid-State Battery Performance of TiS₂/Li₁₀GeP₂S₁₂ Composite Electrodes. Materials Transactions, 2016, 57, 549-552.	0.4	43
25	Dynamic Behavior at the Interface between Lithium Cobalt Oxide and an Organic Electrolyte Monitored by Neutron Reflectivity Measurements. Journal of Physical Chemistry C, 2016, 120, 20082-20088.	1.5	39
26	Lithium intercalation and structural changes at the LiCoO2 surface under high voltage battery operation. Journal of Power Sources, 2016, 307, 599-603.	4.0	37
27	Superionic lithium conductor with a cubic argyrodite-type structure in the Liâ€“Alâ€“Siâ€“S system. Journal of Solid State Chemistry, 2019, 270, 487-492.	1.4	35
28	Enhancing Fast Lithium Ion Conduction in Li₄GeO₄â€“Li₃PO₄ Solid Electrolytes. ACS Applied Energy Materials, 2019, 2, 6608-6615.	2.5	34
29	Highly reversible capacity at the surface of a lithium-rich manganese oxide: a model study using an epitaxial film system. Chemical Communications, 2015, 51, 1673-1676.	2.2	33
30	Structure and electrochemical properties of LiNi0.5Mn1.5O4 epitaxial thin film electrodes. Journal of Power Sources, 2014, 246, 365-370.	4.0	32
31	Synthesis, crystal structure, and ionic conductivity of hydride ion-conducting Ln₂LiHO₃ (Ln = La, Pr, Nd) oxyhydrides. Journal of Materials Chemistry A, 2018, 6, 23457-23463.	5.2	31
32	Ionic conduction mechanism of a lithium superionic argyrodite in the Liâ€“Alâ€“Siâ€“Sâ€“O system. Materials Advances, 2020, 1, 334-340.	2.6	30
33	Low temperature synthesis and ionic conductivity of the epitaxial Li_{0.17}La_{0.61}TiO₃film electrolyte. CrystEngComm, 2014, 16, 1044-1049.	1.3	26
34	High lithium ionic conductivity of Î³-Li3PO4-type solid electrolytes in Li4GeO4â^'Li4SiO4â€“Li3VO4 quasi-ternary system. Journal of Solid State Chemistry, 2020, 292, 121651.	1.4	26
35	Hetero-epitaxial growth of Li0.17La0.61TiO3 solid electrolyte on LiMn2O4 electrode for all solid-state batteries. Solid State Ionics, 2014, 262, 578-581.	1.3	25
36	Ambient Pressure Synthesis and H[−] Conductivity of LaSrLiH₂O₂. Electrochemistry, 2017, 85, 88-92.	0.6	25

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37	Composite Sulfur Electrode for All-solid-state Lithiumâ€“sulfur Battery with Li₂Sâ€“GeS₂â€“P₂S₅-based Thio-LISICON Solid Electrolyte. Electrochemistry, 2018, 86, 1-5.	1.5	25
38	Thin Film All-solid-state Battery Using Li₂MnO₃ Epitaxial Film Electrode. Chemistry Letters, 2019, 48, 192-195.	0.7	25
39	Mechanistic studies on lithium intercalation in a lithium-rich layered material using Li₂RuO₃epitaxial film electrodes and in situ surface X-ray analysis. Journal of Materials Chemistry A, 2014, 2, 17875-17882.	5.2	24
40	Oxygen Substitution for Liâ€“Siâ€“Pâ€“Sâ€“Cl Solid Electrolytes toward Purified Li₁₀GeP₂S₁₂-Type Phase with Enhanced Electrochemical Stabilities for All-Solid-State Batteries. Chemistry of Materials, 2020, 32, 8860-8867.	3.2	24
41	Effect of excess Li₂S on electrochemical properties of amorphous li₃ps₄ films synthesized by pulsed laser deposition. Journal of the American Ceramic Society, 2017, 100, 746-753.	1.9	21
42	Conduction Mechanism of Li₁₀GeP₂S₁₂-type Lithium Superionic Conductors in a Liâ€“Snâ€“Siâ€“Pâ€“S System. Chemistry of Materials, 2019, 31, 3485-3490.	3.2	21
43	Synthesis, Structure, and Electrochemical Properties of a Sulfur-Carbon Replica Composite Electrode for All-Solid-State Li-Sulfur Batteries. Journal of the Electrochemical Society, 2017, 164, A6178-A6183.	1.3	20
44	Anomalously High Ionic Conductivity of Li₂SiS₃-Type Conductors. Journal of the American Chemical Society, 2022, 144, 4989-4994.	6.6	20
45	Excess Lithium in Transition Metal Layers of Epitaxially Grown Thin Film Cathodes of Li₂MnO₃ Leads to Rapid Loss of Covalency during First Battery Cycle. Journal of Physical Chemistry C, 2019, 123, 28519-28526.	1.5	19
46	Fast material search of lithium ion conducting oxides using a recommender system. Journal of Materials Chemistry A, 2020, 8, 11582-11588.	5.2	19
47	Effect of Surface Chemical Bonding States on Lithium Intercalation Properties of Surfaceâ€Modified Lithium Cobalt Oxide. Batteries and Supercaps, 2019, 2, 454-463.	2.4	18
48	Performance of Li4Ti5O12-based reference electrode for the electrochemical analysis of all-solid-state lithium-ion batteries. Electrochemistry Communications, 2020, 116, 106743.	2.3	18
49	Extending the Frontiers of Lithium-Ion Conducting Oxides: Development of Multicomponent Materials with Î³-Li₃PO₄-Type Structures. Chemistry of Materials, 2022, 34, 3948-3959.	3.2	18
50	Reversible lithium intercalation in a lithium-rich layered rocksalt Li2RuO3 cathode through a Li3PO4 solid electrolyte. Journal of Power Sources, 2015, 300, 413-418.	4.0	17
51	Reaction Mechanism of Li₂MnO₃ Electrodes in an All-Solid-State Thin-Film Battery Analyzed by Operando Hard X-ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2022, 144, 236-247.	6.6	16
52	The effect of cation size on hydride-ion conduction in LnSrLiH₂O₂ (Ln = La,) Tj ETQq0 0 0 rgBT /Overlock 10 T	5.2	15
53	Stress distribution in the composite electrodes of sulfide all-solid-state lithium-ion batteries. Journal of Power Sources, 2020, 470, 228437.	4.0	15
54	Fabrication and lithium intercalation properties of epitaxial Li2RuO3 thin films. Thin Solid Films, 2012, 520, 4889-4893.	0.8	14

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55	Raman Imaging Analysis of Local Crystal Structures in LiCoO2 Thin Films Calcined at Different Temperatures. Analytical Sciences, 2017, 33, 853-858.	0.8	14
56	Li₁₀GeP₂S₁₂-Type Structured Solid Solution Phases in the Li_{9+Î´}P_{3+Î´â€²}S_{12â€“k}O_k System: Controlling Crystallinity by Synthesis to Improve the Air Stability. Inorganic Chemistry, 2022, 61, 52-61.	1.9	14
57	Characterization of Nano-Sized Epitaxial Li4Ti5O12(110) Film Electrode for Lithium Batteries. Electrochemistry, 2012, 80, 800-803.	0.6	13
58	High-capacity phase formation by surface modification of Li3PO4 on nanosized Li2RuO3 electrode for lithium batteries. Journal of Power Sources, 2012, 208, 447-451.	4.0	13
59	Reactions of the Li₂MnO₃ Cathode in an All-Solid-State Thin-Film Battery during Cycling. ACS Applied Materials & Interfaces, 2021, 13, 7650-7663.	4.0	13
60	Development of Spectroelectrochemical Cells for in situ Neutron Reflectometry. Journal of Physics: Conference Series, 2014, 502, 012054.	0.3	12
61	Effect of surface modification and oxygen deficiency on intercalation property of lithium nickel manganese oxide in an all-solid-state battery. Solid State Ionics, 2016, 288, 244-247.	1.3	12
62	Ambient pressure synthesis of La 2 Li HO 3 as a solid electrolyte for a hydrogen electrochemical cell. Journal of the American Ceramic Society, 2019, 102, 3228-3235.	1.9	12
63	Synthesis, structure and electrochemical properties of novel Liâ€“Coâ€“Mnâ€“O epitaxial thin-film electrode using layer-by-layer deposition process. Journal of Power Sources, 2015, 279, 502-509.	4.0	11
64	Syntheses, structures, and ionic conductivities of perovskite-structured lithiumâ€“strontiumâ€“aluminum/galliumâ€“tantalum-oxides. Journal of Solid State Chemistry, 2015, 225, 431-437.	1.4	11
65	Interfacial Analysis of Surface-Coated LiMn2O4Epitaxial Thin Film Electrode for Lithium Batteries. Journal of the Electrochemical Society, 2015, 162, A7083-A7090.	1.3	11
66	Study on the deterioration mechanism of layered rock-salt electrodes using epitaxial thin films â€“ Li(Ni, Co, Mn)O 2 and their Zr-O surface modified electrodes. Journal of Power Sources, 2017, 345, 108-119.	4.0	11
67	Kinetics and Stability of Li-Ion Transfer at the LiCoO₂ (104) Plane and Electrolyte Interface. Journal of the Electrochemical Society, 2018, 165, A3221-A3229.	1.3	11
68	Synthesis of Li10GeP2S12-type lithium superionic conductors under Ar gas flow. Journal of Power Sources, 2020, 473, 228524.	4.0	11
69	Annealing-induced evolution at the LiCoO₂/LiNbO₃ interface and its functions in all-solid-state batteries with a Li₁₀GeP₂S₁₂ electrolyte. Journal of Materials Chemistry A, 2021, 9, 4117-4125.	5.2	11
70	Operando analysis of electronic band structure in an all-solid-state thin-film battery. Communications Chemistry, 2022, 5, .	2.0	11
71	Neutron reflectometry analysis of Li₄Ti₅O₁₂/organic electrolyte interfaces: characterization of surface structure changes and lithium intercalation properties. Journal of Materials Research, 2016, 31, 3142-3150.	1.2	10
72	Fast Hydride-Ion Conduction in Perovskite Hydrides AELiH₃. ACS Applied Energy Materials, 2022, 5, 2968-2974.	2.5	10

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73	Reversible Charge/Discharge Reaction of a Ternary Metal Fluoride, Pb₂CuF₆: A Highly Conductive Cathode Material for Fluoride-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 1002-1009.	2.5	10
74	Lithium intercalation in the surface region of an LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ cathode through different crystal planes. RSC Advances, 2016, 6, 78963-78969.	1.7	9
75	Syntheses and Characterization of Novel Perovskite-Type LaScO3-Based Lithium Ionic Conductors. Molecules, 2021, 26, 299.	1.7	9
76	Reversible Structural Changes and High-Rate Capability of Li₃PO₄-Modified Li₂RuO₃ for Lithium-Rich Layered Rocksalt Oxide Cathodes. Journal of Physical Chemistry C, 2018, 122, 16607-16612.	1.5	8
77	A lithium conductor Li6.96Sn1.55Si1.71P0.8S12 with a cubic argyrodite-type structure in the Li2Sâ€“SnS2â€“SiS2â€“P2S5 system: Synthesis, structure, and electrochemical properties. Solid State Ionics, 2020, 356, 115458.	1.3	8
78	High-Pressure Synthesis and Lithium-Ion Conduction of Li₄OBr₂ Derivatives with a Layered Inverse-Perovskite Structure. Chemistry of Materials, 2021, 33, 9194-9201.	3.2	8
79	High-pressure synthesis of lithium-rich layered rock-salt Li2(Mn3/8Co1/4Ni3/8)O3- for lithium battery cathodes. Solid State Ionics, 2014, 262, 88-91.	1.3	7
80	Synthesis, Crystal Structure, and the Ionic Conductivity of New Lithium Ion Conductors, <i>M</i>-Doped LiScO₂ (<i>M</i> = Zr, Nb, Ta). Materials Transactions, 2016, 57, 1370-1373.	0.4	7
81	Synthesis and Lithium-Ion Conductivity of LiSr<i>B</i>₂O₆F (<i>B</i> =) Tj ETQq1 1 0.784314 rgBT /Overlo Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 26-33.	0.1	7
82	Lithium ion conduction in doped LaLiO2 system. Solid State Ionics, 2016, 285, 33-37.	1.3	6
83	Ex-situ Analysis of Lithium Distribution in a Sulfide-based All-solid-state Lithium Battery by Particle-induced X-ray and Gamma-ray Emission Measurements. Electrochemistry, 2020, 88, 45-49.	0.6	6
84	Absolute Local Quantification of Li as Function of State-of-Charge in All-Solid-State Li Batteries via 2D MeV Ion-Beam Analysis. Batteries, 2021, 7, 41.	2.1	6
85	Application of precise neutron focusing mirrors for neutron reflectometry: latest results and future prospects. Journal of Applied Crystallography, 2020, 53, 1462-1470.	1.9	6
86	Synthesis, structure, and electrical conductivity of Sr2LiH2N nitride hydride. Journal of Solid State Chemistry, 2022, 310, 123051.	1.4	5
87	Lithium distribution analysis in all-solid-state lithium battery using microbeam particle-induced X-ray emission and particle-induced gamma-ray emission techniques. International Journal of PIXE, 2017, 27, 11-20.	0.4	4
88	Precipitation of the Lithium Superionic Conductor Li₁₀GeP₂S₁₂ by a Liquid-phase Process. Chemistry Letters, 2020, 49, 1379-1381.	0.7	4
89	Discharge voltage profile changes via physicochemical phenomena in cycled all-solid-state cells based on Li₁₀GeP₂S₁₂ and LiNbO₃-coated LiCoO₂. Journal of Materials Chemistry A, 2021, 9, 17905-17912.	5.2	4
90	Synthesis, Crystal Structure, and Electrochemical Properties of Li_{1.2+}_xMn_{0.3}Co_{0.2}Ni_{0.3}O₂ (x > 0) for Lithium-ion Battery Cathodes. Electrochemistry, 2015, 83, 820-823.	0.6	3

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91	Control of the Phase Fractions in Layered Rock Salt and Spinel-Type Li-(Mn,Co,Ni)-O Epitaxial Thin Films: a Model Blended Cathode System for Lithium Batteries. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2015, 62, 531-537.	0.1	3
92	Electrochemical properties of copper-based compounds with polyanion frameworks. Journal of Solid State Chemistry, 2016, 235, 43-49.	1.4	3
93	Nanoscale optical imaging of lithium-ion distribution on a LiCoO2cathode surface. Applied Physics Express, 2017, 10, 052503.	1.1	3
94	Highly Ordered Mesoporous Carbon Support Materials for Air Electrode of Lithium Air Secondary Batteries. Electrochemistry, 2017, 85, 128-132.	0.6	3
95	Influence of Chemical Composition and Domain Morphology of Li₂MnO₃ on Battery Properties. Batteries and Supercaps, 2021, 4, 493-503.	2.4	3
96	Fabrication and All Solid-State Battery Performance of TiS₂/Li₁₀GeP₂S₁₂ Composite Electrodes. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2015, 62, 548-552.	0.1	2
97	Combinatorial Synthesis and Ionic Conductivity of Amorphous Oxynitrides in a Pseudo-ternary Li₃PO₄-Li₄SiO₄-LiAlO₂ System. Electrochemistry, 2022, 90, 037008-037008.	0.6	2
98	3ï¼Žä¸€å§‹å°„çŽ‡æ³•ã,'ç"¨ã•ã¥ãƒªãƒã,¦ãƒã,ãªãƒ³é›»æ±•çŒ€é¢ã®åé¿œè§£æž• Electrochemistry, 2016, 84, 534-538.	0.6	1
99	Influence of Morphology of Highly Ordered Mesoporous Carbon Replica on Electrochemical Properties of Air Electrodes with Pt-Ru Electrocatalyst/Carbon Replica Support in Nonaqueous Electrolyte Solution. Electrochemistry, 2019, 87, 52-58.	0.6	1
100	Synthesis and Lithium-ion Conductivity of Sr(La_{1â^'}<i>_x</i>Li₃<i>_x</i>)(Nb_{1â^'}<i>_y</i>Ta_y)O₆ with a K₂NiF₄ Structure. Electrochemistry, 2022, 90, 017005-017005.	0.6	1
101	Search for Lithium Ion Conducting Oxides Using the Predicted Ionic Conductivity by Machine Learning. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2022, 69, 108-116.	0.1	1
102	Structural Analysis of Electrode-Electrolyte Interface in Lithium Batteries. Hyomen Kagaku, 2016, 37, 52-59.	0.0	0
103	Synthesis and Structures of Novel Solid-State Electrolytes. , 2018, , 279-298.		0
104	Stability of Charged Phase and Cell Properties of LiMn₂₋_xAl_xO₄. Journal of the Electrochemical Society, 2018, 165, A1440-A1446.	1.3	0
105	Characterization of Cathode/Sulfide Electrolyte Interface Using a Thin-Film Model Battery. , 2021, , 167-178.		0
106	Crystalline Electrolyte. , 2021, , 49-60.		0
107	Practical Application of Data Science in Material Search of Lithium Ion Conductors. Journal of the Society of Powder Technology, Japan, 2022, 59, 220-225.	0.0	0