Masashi Kotobuki

List of Publications by Year
in descending order

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75 papers	3,721 citations	172386 29 h-index	128225 60 g-index
78 all docs	78 docs citations	78 times ranked	3986 citing authors

#	Article	IF	Citations
1	Properties of Al₂O₃ Pastes Using Inorganic Na₂SiO₃ Binder and Organic Binder for Direct Ink Writing. Physica Status Solidi (B): Basic Research, 2022, 259, 2100520.	0.7	4
2	Preparation of Y-doped Li7La3Zr2O12 by co-precipitation method. Ionics, 2022, 28, 2065-2072.	1.2	7
3	Ferroelectric Engineered Electrodeâ€Composite Polymer Electrolyte Interfaces for Allâ€Solidâ€State Sodium Metal Battery. Advanced Science, 2022, 9, e2105849.	5.6	22
4	Importance of substrate materials for sintering Li1.5Al0.5Ge1.5(PO4)3 solid electrolyte. Journal of Solid State Chemistry, 2022, 310, 123043.	1.4	1
5	A solid-liquid composite electrolyte with a vertical microporous <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mi mathvariant="bold">L</mml:mi><mml:msub><mml:mi mathvariant="bold-italic">i</mml:mi><mml:mn>1.5</mml:mn></mml:msub><mml:mi mathvariant="bold-italic">A</mml:mi><mml:msub><mml:mi mathvariant="bold-italic">l</mml:mi><mml:mn>0.5</mml:mn></mml:msub><mml:mi mathvariant="bold-i	2.0	3
6	Boron group element doping of Li1.5Al0.5Ge1.5(PO4)3 based on microwave sintering. Journal of Solid State Electrochemistry, 2021, 25, 527-534.	1.2	11
7	Recent progress of ceramic electrolytes for post Li and Na batteries. Functional Materials Letters, 2021, 14, 2130003.	0.7	15
8	Li-ion conductivity of NASICON-type Li1+2xZr2â^'xCax(PO4)3 solid electrolyte prepared by spark plasma sintering. Journal of Alloys and Compounds, 2021, 862, 158641.	2.8	9
9	Overcoming the Trade-off between Water Permeation and Mechanical Strength of Ceramic Membrane Supports by Interfacial Engineering. ACS Applied Materials & Interfaces, 2021, 13, 29199-29211.	4.0	26
10	Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big Gap between Ceramics and Polymers. Molecules, 2021, 26, 3331.	1.7	26
11	Nanoscale characterization of solid electrolyte by Scanning Probe Microscopy techniques. Electrochimica Acta, 2020, 334, 135553.	2.6	18
12	Feâ€“Pâ€“S electrodes for all-solid-state lithium secondary batteries using sulfide-based solid electrolytes. Journal of Power Sources, 2020, 449, 227576.	4.0	11
13	Preparation of Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ solid electrolyte via a sol-gel method using various Ti sources. Journal of Asian Ceramic Societies, 2020, 8, 891-897.	1.0	15
14	Flexible, stable, fast-ion-conducting composite electrolyte composed of nanostructured Na-super-ion-conductor framework and continuous Poly(ethylene oxide) for all-solid-state Na battery. Journal of Power Sources, 2020, 454, 227949.	4.0	34
15	High conductive Al-free Y-doped Li7La3Zr2O12 prepared by spark plasma sintering. Journal of Alloys and Compounds, 2020, 826, 154213.	2.8	19
16	Microstructural and Electrochemical Properties of Al- and Ga-Doped Li₇La₃Zr₂O₁₂ Garnet Solid Electrolytes. ACS Applied Energy Materials, 2020, 3, 4708-4719.	2.5	50
17	Highly conductive lithium aluminum germanium phosphate solid electrolyte prepared by sol-gel method and hot-pressing. Solid State Ionics, 2020, 350, 115320.	1.3	21
18	Stabilization of cubic Li7La3Zr2O12 by Al substitution in various atmospheres. Solid State Ionics, 2020, 350, 115323.	1.3	11

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19	Conformal, nanoscale Î³-Al2O3 coating of garnet conductors for solid-state lithium batteries. Solid State Ionics, 2019, 342, 115063.	1.3	15
20	Effect of Li salts on the properties of Li_{1.5}Al_{0.5}Ti_{1.5}(PO₄)₃ solid electrolytes prepared by the co-precipitation method. Journal of Asian Ceramic Societies, 2019, 7, 426-433.	1.0	10
21	Low temperature sintering of crystallized Li1.5Al0.5Ge1.5(PO4)3 using hot-press technique. Materials Today: Proceedings, 2019, 17, 408-415.	0.9	2
22	Preparation of thin solid electrolyte by hot-pressing and diamond wire slicing. RSC Advances, 2019, 9, 11670-11675.	1.7	25
23	A new approach for synthesizing bulk-type all-solid-state lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 9748-9760.	5.2	23
24	Preparation of Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ solid electrolytes via the co-precipitation method. Journal of Asian Ceramic Societies, 2019, 7, 551-557.	1.0	15
25	NASICON-structured solid-state electrolyte Li_{1.5}Al_{0.5-x}Ga_xGe_{1.5}(PO₄)₃ prepared by microwave sintering. Materials Technology, 2019, 34, 356-360.	1.5	12
26	Influence of precursor calcination temperature on sintering and conductivity of Li_{1.5}Al_{0.5}Ti_{1.5}(PO₄)₃ ceramics. Journal of Asian Ceramic Societies, 2019, 7, 69-74.	1.0	19
27	Review on solid electrolytes for all-solid-state lithium-ion batteries. Journal of Power Sources, 2018, 389, 198-213.	4.0	964
28	Research Update: Ca doping effect on the Li-ion conductivity in NASICON-type solid electrolyte LiZr2(PO4)3: A first-principles molecular dynamics study. APL Materials, 2018, 6, .	2.2	31
29	On fabrication procedures of Li-ion conducting garnets. Journal of Solid State Chemistry, 2017, 248, 51-60.	1.4	30
30	Al conductive hybrid solid polymer electrolyte. Solid State Ionics, 2017, 300, 165-168.	1.3	24
31	A hybrid polymer/oxide/ionic-liquid solid electrolyte for Na-metal batteries. Journal of Materials Chemistry A, 2017, 5, 6424-6431.	5.2	93
32	Communicationâ€”A Composite Polymer Electrolyte for Safer Mg Batteries. Journal of the Electrochemical Society, 2017, 164, A741-A743.	1.3	18
33	Y-Doped Na₂ZrO₃: A Na-Rich Layered Oxide as a High-Capacity Cathode Material for Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2017, 5, 4785-4792.	3.2	36
34	Roles of Alkaline Earth Ions in Garnetâ€Type Superionic Conductors. ChemElectroChem, 2017, 4, 266-271.	1.7	23
35	Na-rich layered Na2Ti1â^’xCrxO3â^’x/2 (xâ€‰=â€‰0, 0.06): Na-ion battery cathode materials with high capacity and long cycle life. Scientific Reports, 2017, 7, 373.	1.6	25
36	Improvement of Li ion conductivity of Li 5 La 3 Ta 2 O 12 solid electrolyte by substitution of Ge for Ta. Journal of Power Sources, 2017, 349, 105-110.	4.0	37

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37	Na-rich layered Na2Ru0.95Zr0.05O3 cathode material for Na-ion batteries. Journal of Power Sources, 2017, 342, 685-689.	4.0	28
38	Computational and Experimental Investigation of the Electrochemical Stability and Li-Ion Conduction Mechanism of LiZr₂(PO₄)₃. Chemistry of Materials, 2017, 29, 8983-8991.	3.2	68
39	Preparation and characterization of Ba-substituted Li1+xAlxGe2â^'x(PO4)3 (x = 0.5) solid electrolyte. Ceramics International, 2017, 43, 12616-12622.	2.3	27
40	Poly(vinylidene fluoride)-Based Al Ion Conductive Solid Polymer Electrolyte for Al Battery. Journal of the Electrochemical Society, 2017, 164, A3868-A3875.	1.3	31
41	Ruthenium doped cubic-garnet structured solid electrolyte Li₇La₃Zr_{2â^'<i>x</i>}Ru_{<i>x</i>}O₁₂. Materials Technology, 2016, 31, 623-627.	1.5	18
42	Study on stabilization of cubic Li₇La₃Zr₂O12 by Ge substitution in various atmospheres. Functional Materials Letters, 2016, 09, 1642005.	0.7	18
43	Solâ€"gel synthesis of Li1.5Al0.5Ge1.5(PO4)3 solid electrolyte. Ceramics International, 2015, 41, 8562-8567.	2.3	46
44	Preparation of Li7La3Zr2O12 solid electrolyte via a solâ€"gel method. Ceramics International, 2014, 40, 5043-5047.	2.3	57
45	Preparation of Li1.5Al0.5Ti1.5(PO4)3 solid electrolyte via a co-precipitation method. Ionics, 2013, 19, 1945-1948.	1.2	62
46	Preparation of Li1.5Al0.5Ti1.5(PO4)3 solid electrolyte via a solâ€"gel route using various Al sources. Ceramics International, 2013, 39, 4645-4649.	2.3	101
47	Fabrication of all-solid-state battery using Li 5 La 3 Ta 2 O 12 ceramic electrolyte. Ceramics International, 2013, 39, 6481-6487.	2.3	69
48	Improved Performance of Hydrothermally Synthesized by Ball Milling as a Positive Electrode for Li Ion Battery. ISRN Electrochemistry, 2013, 2013, 1-5.	0.9	2
49	First-principles density functional calculation of electrochemical stability of fast Li ion conducting garnet-type oxides. Physical Chemistry Chemical Physics, 2012, 14, 10008.	1.3	66
50	Electrochemical properties of Li7La3Zr2O12 solid electrolyte prepared in argon atmosphere. Journal of Power Sources, 2012, 199, 346-349.	4.0	56
51	Fabrication of LiNi0.5Mn1.5O4 thin film cathode by PVP solâ€"gel process and its application of all-solid-state lithium ion batteries using Li1+xAlxTi2â^'x(PO4)3 solid electrolyte. Solid State Ionics, 2012, 209-210, 30-35.	1.3	38
52	Design of a micro-pattern structure for a three dimensionally macroporous Snâ€"Ni alloy anode with high areal capacity. Chemical Communications, 2011, 47, 6144.	2.2	31
53	PREPARATION OF Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)<sub>3</su SOLID ELECTROLYTE BY SOL-GEL METHOD. Phosphorus Research Bulletin, 2011, 25, 61-63.	[illegible]	[illegible]
54	Fabrication of Li0.35La0.55TiO3 solid electrolyte with two-layered structure for all-solid-state Li battery by a colloidal crystal templating method. Journal of the Ceramic Society of Japan, 2011, 119, 189-193.	0.5	2

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55	Electrochemical Property of Honeycomb Type All-Solid-State Li Battery at High Temperature. Electrochemistry, 2011, 79, 464-466.	0.6	3
56	Improved Performance of Hydrothermally Synthesized LiMnPO4 by Mg Doping. Electrochemistry, 2011, 79, 467-469.	0.6	9
57	Electrochemical Properties of Three Dimensionally Ordered Composite Electrode Between TiO2 and Li1.5Al0.5Ti1.5(PO4)3. Electrochemistry, 2011, 79, 865-868.	0.6	1
58	Electrochemical properties of thin TiO2 electrode on Li1+xAlxGe2âˆ’x(PO4)3 solid electrolyte. Solid State Ionics, 2011, 198, 22-25.	1.3	22
59	A novel structure of ceramics electrolyte for future lithium battery. Journal of Power Sources, 2011, 196, 9815-9819.	4.0	50
60	Fabrication of all-solid-state rechargeable lithium-ion battery using mille-feuille structure of Li0.35La0.55TiO3. Journal of Power Sources, 2011, 196, 6947-6950.	4.0	14
61	Effect of sol composition on solid electrode/solid electrolyte interface for all-solid-state lithium ion battery. Electrochimica Acta, 2011, 56, 1023-1029.	2.6	71
62	Fabrication of all-solid-state lithium battery with lithium metal anode using Al2O3-added Li7La3Zr2O12 solid electrolyte. Journal of Power Sources, 2011, 196, 7750-7754.	4.0	305
63	Fabrication of Lithium-ion Microarray Battery by Electrophoresis. Electrochemistry, 2010, 78, 273-275.	0.6	4
64	All-solid-state lithium battery with a three-dimensionally ordered Li1.5Al0.5Ti1.5(PO4)3 electrode. Electrochimica Acta, 2010, 55, 6892-6896.	2.6	55
65	Compatibility of LiCoO2 and LiMn2O4 cathode materials for Li0.55La0.35TiO3 electrolyte to fabricate all-solid-state lithium battery. Journal of Power Sources, 2010, 195, 5784-5788.	4.0	49
66	Highly patterned cylindrical Niâ€“Sn alloys with 3-dimensionally ordered macroporous structure as anodes for lithium batteries. Electrochimica Acta, 2010, 55, 8030-8035.	2.6	45
67	ELECTROCHEMICAL PROPERIES OF HYDROTHERMALLY SYNTHESIZED LiCoPO₄ AS A HIGH VOLTAGE CATHODE MATERIAL FOR LITHIUM SECONDARY BATTERY. Phosphorus Research Bulletin, 2010, 24, 12-15.	0.1	12
68	Fabrication of Electrode With 3 Dimensionally Ordered Structure for All-Solid-State Battery. Materials Research Society Symposia Proceedings, 2010, 1266, 10601.	0.1	0
69	Fabrication of Three-Dimensional Battery Using Ceramic Electrolyte with Honeycomb Structure by Solâ€“Gel Process. Journal of the Electrochemical Society, 2010, 157, A493.	1.3	91
70	Compatibility of Li[sub 7]La[sub 3]Zr[sub 2]O[sub 12] Solid Electrolyte to All-Solid-State Battery Using Li Metal Anode. Journal of the Electrochemical Society, 2010, 157, A1076.	1.3	319
71	H2O-tolerant monolithic catalysts for preferential oxidation of carbon monoxide in the presence of hydrogen. Applied Catalysis A: General, 2009, 370, 50-53.	2.2	15
72	Effect of carbon source on electrochemical performance of carbon coated LiMnPO4 cathode. Journal of the Ceramic Society of Japan, 2009, 117, 1225-1228.	0.5	37

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73	Development of Pt/ZSM-5 Catalyst with High CO Selectivity for Preferential Oxidation of Carbon Monoxide in a Reformed Gas. Chemistry Letters, 2005, 34, 866-867.	0.7	26
74	Reaction mechanism of preferential oxidation of carbon monoxide on Pt, Fe, and Ptâ€"Fe/mordenite catalysts. Journal of Catalysis, 2005, 236, 262-269.	3.1	121
75	XAFS Characterization of Ptâ€"Fe/zeolite Catalysts for Preferential Oxidation of CO in Hydrogen Fuel Gases. Catalysis Letters, 2005, 103, 263-269.	1.4	28