

Kunimitsu Kataoka

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Discovery of the LiSrLaZrO Compound and the Investigation of Its Lithium-Ion Conductivity. <i>Inorganic Chemistry</i> , 2022, 61, 7835-7840.	4.0	2
2	Garnet-Type Lithium Ion Conducting Oxides: $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ and Its Chemical Derivatives. , 2021, , 201-219.		2
3	Oxide single crystals with high lithium-ion conductivity as solid electrolytes for all-solid-state lithium secondary battery applications. <i>Journal of the Ceramic Society of Japan</i> , 2020, 128, 7-18.	1.1	12
4	Orthorhombic Crystal System for a Garnet-type Lithium-Ion Conductor. <i>Inorganic Chemistry</i> , 2020, 59, 14376-14381.	4.0	7
5	Large single-crystal growth of tetragonal garnet-type $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ by melting method. <i>Solid State Ionics</i> , 2020, 349, 115312.	2.7	10
6	Structural and Li-ion diffusion properties of lithium tantalum phosphate LiTa_2PO_8 . <i>Solid State Ionics</i> , 2020, 351, 115314.	2.7	13
7	Structural Change and Morphological Surface Degradation upon Electrochemical Li Extraction from a Single Crystal of Spinel-type $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$. <i>Crystal Growth and Design</i> , 2020, 20, 4533-4539.	3.0	7
8	Synthesis, crystal structure and electrochemical property of $\text{Li}_{2.7}\text{MnTi}_3\text{O}_9$ with the $\text{Na}_{2.08}\text{Ti}_4\text{O}_9$ -type tunnel structure. <i>Solid State Ionics</i> , 2020, 357, 115467.	2.7	1
9	Lithium-ion conductivity and crystal structure of garnet-type solid electrolyte $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ using single-crystal. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 521-526.		
10	Development of a compact all-solid-state lithium secondary battery using single-crystal electrolyte. <i>Synthesiology</i> , 2019, 12, 29-40.	0.2	4
11	A novel synthetic route of micrometer-sized LiCoMnO_4 as 5V cathode material for advanced lithium ion batteries. <i>Solid State Ionics</i> , 2019, 333, 9-15.	2.7	4
12	Toward understanding the anomalous Li diffusion in inorganic solid electrolytes by studying a single-crystal garnet of LLZO-Ta by pulsed-gradient spin-echo nuclear magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 150, 194502.	3.0	23
13	Synthesis of $\text{H}_2\text{Ti}_{12}\text{O}_{25}$ containing fine carbon particles by impregnation method using porous titanium hydroxide. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 399-403.	1.1	2
14	Lithium ionic conductivities of LiBO_2 with two-dimensional Li-Li networks and LiBO_2 with three-dimensional ones synthesized under high pressure. <i>Journal of Solid State Chemistry</i> , 2019, 274, 100-104.	2.9	14
15	Development of a compact all-solid-state lithium secondary battery using single-crystal electrolyte. <i>Synthesiology</i> , 2019, 12, 28-38.	0.2	3
16	Relationship between Li^+ diffusion and ion conduction for single-crystal and powder garnet-type electrolytes studied by ^7Li PGSE NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23589-23597.	2.8	21
17	High-Pressure Synthesis, Crystal Chemistry, and Ionic Conductivity of a Structural Polymorph of $\text{Li}_3\text{BP}_2\text{O}_8$. <i>Inorganic Chemistry</i> , 2018, 57, 15048-15050.	4.0	1
18	Diffusion coefficient of lithium ions in garnet-type $\text{Li}_{6.5}\text{La}_3\text{Zr}_{1.5}\text{Ta}_{0.5}\text{O}_{12}$ single crystal probed by ^7Li pulsed field gradient-NMR spectroscopy. <i>Solid State Ionics</i> , 2018, 327, 18-26.	2.7	41

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19	High Ionic Conductor Member of Garnet-type Oxide $\text{Li}_{6.5}\text{La}_3\text{Zr}_{1.5}\text{Ta}_{0.5}\text{O}_{12}$. ChemElectroChem, 2018, 5, 2551-2557.	3.4	26
20	Lithium-ion conducting oxide single crystal as solid electrolyte for advanced lithium battery application. Scientific Reports, 2018, 8, 9965.	3.3	93
21	Structural stability of the Li-ion conductor $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ investigated by high-pressure in-situ X-ray diffraction and Raman spectroscopy. Materials Research Bulletin, 2018, 107, 361-365.	5.2	13
22	Li-ion conductivity and crystal structure of garnet-type $\text{Li}_{6.5}\text{La}_3\text{M}_{1.5}\text{Ta}_{0.5}\text{O}_{12}$ ($\text{M} = \text{Hf, Sn}$) oxides. Journal of the Ceramic Society of Japan, 2017, 125, 272-275.	1.1	2
23	Synthesis of $\text{H}_2\text{Ti}_{12}\text{O}_{25}$ with anisotropic morphology by impregnation of Na_2CO_3 solution into porous titanium hydroxide. Journal of the Ceramic Society of Japan, 2017, 125, 686-689.	1.1	3
24	Single crystal synthesis, crystal structure and electrochemical property of spinel-type LiCoMnO_4 as 5 V positive electrode materials. Journal of the Ceramic Society of Japan, 2016, 124, 706-709.	1.1	3
25	Quantitative analysis of cation mixing and local valence states in $\text{LiNi}_x\text{Mn}_{2-x}\text{O}_4$ using concurrent HARECXS and HARECES measurements. Microscopy (Oxford, England), 2016, 65, 253-262.	1.5	10
26	Synthesis, crystal structure and conductive properties of garnet-type lithium ion conductor Al-free $\text{Li}_{7-x}\text{La}_3\text{Zr}_{2-x}\text{O}_{17}$ ($0 \leq x \leq 0.6$). Journal of the Ceramic Society of Japan, 2016, 124, 678-683.	1.1	9
27	Soft chemical synthesis and crystal structure of novel hydrogen titanium oxide $\text{H}_2\text{Ti}_{12}\text{O}_{25}$. Journal of the Ceramic Society of Japan, 2016, 124, 710-713.	1.1	9
28	Ion-exchange synthesis and improved Li insertion property of lithiated $\text{H}_2\text{Ti}_{12}\text{O}_{25}$ as a negative electrode material for lithium-ion batteries. Journal of Asian Ceramic Societies, 2016, 4, 75-80.	2.3	7
29	Synthesis and electrochemical sodium and lithium insertion properties of sodium titanium oxide with the tunnel type structure. Journal of Power Sources, 2016, 305, 151-155.	7.8	15
30	Single-crystal synthesis and structure refinement of $\text{La}_2\text{Li}_{0.5}\text{Al}_{0.5}\text{O}_4$ with K_2NiF_4 -type structure. Journal of Asian Ceramic Societies, 2015, 3, 301-304.	2.3	3
31	Electrochemical Property of Particle-size Controlled $\text{H}_2\text{Ti}_{12}\text{O}_{25}$ as a Negative Electrode Material for Lithium-ion Battery. Electrochemistry, 2015, 83, 834-836.	1.4	4
32	A New Layered Iron Arsenide Superconductor: $(\text{Ca,Pr})\text{FeAs}_2$. Journal of the American Chemical Society, 2014, 136, 846-849.	13.7	105
33	Crystal Structure and Superconductivity of Ba_2Ge_7 and $\text{Ba}_3\text{Ir}_4\text{Ge}_{16}$ with Two-Dimensional Ba-Ge Networks. Journal of the American Chemical Society, 2014, 136, 5245-5248.	13.7	14
34	Synthesis, crystal structure and electrochemical properties of $\text{Li}_{0.55}\text{Co}_{0.5}\text{Mn}_{0.5}\text{O}_2$ with the O6-type layered structure. Solid State Ionics, 2014, 263, 167-171.	2.7	4
35	Single-crystal growth, crystal structure analysis and physical properties of lithium overstoichiometric $\text{Li}_{1+x}\text{CoO}_2$. Solid State Ionics, 2014, 262, 106-109.	2.7	6
36	Synthesis, crystal structure, and electrochemical properties of hollandite-type $\text{K Ti}_{1-x}\text{Mn}_x\text{O}_2$. Solid State Ionics, 2014, 262, 14-17.	2.7	10

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37	Synthesis, Crystal Structure and Physical Properties of $\text{Ba}_4\text{Ti}_{12}\text{O}_{27}$. Key Engineering Materials, 2013, 566, 211-214.	0.4	3
38	Ion-Exchange Synthesis, Crystal Structure, and Physical Properties of Hydrogen Titanium Oxide $\text{H}_2\text{Ti}_3\text{O}_7$. Inorganic Chemistry, 2013, 52, 13861-13864.	4.0	35
39	Electrochemical properties of transition metal substituted calcium ferrite-type $\text{Li}_x(\text{M}_0.1\text{Mn}_0.9)\text{TiO}_4$ ($\text{M}=\text{Ni}, \text{Ti}$). Journal of Power Sources, 2013, 244, 561-564.	7.8	14
40	Structural and electrochemical properties of hydrogen titanium oxides. Solid State Ionics, 2013, 252, 109-115.	2.7	9
41	A novel soft-chemical synthetic route using $\text{Na}_2\text{Ti}_6\text{O}_{13}$ as a starting compound and electrochemical properties of $\text{H}_2\text{Ti}_{12}\text{O}_{25}$. Journal of Power Sources, 2013, 244, 679-683.	7.8	25
42	Synthesis and Crystal Structure Analysis of Lithium-Ion Rechargeable Battery Anode Materials. Nihon Kessho Gakkaishi, 2013, 55, 180-187.	0.0	0
43	Synthesis and structure analysis of a new titanium oxide having an intergrowth structure between ramsdellite-type and calcium ferrite-type. Journal of Physics and Chemistry of Solids, 2012, 73, 1460-1462.	4.0	2
44	Compressed-exponential relaxations in supercooled liquid trehalose. Current Applied Physics, 2012, 12, 1548-1552.	2.4	4
45	Ion-Exchange Synthesis, Crystal Structure, and Electrochemical Properties of $\text{Li}_2\text{Ti}_6\text{O}_{13}$. Chemistry of Materials, 2011, 23, 2344-2352.	6.7	51
46	Crystal Structure of Fast Lithium-ion-conducting Cubic $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$. Chemistry Letters, 2011, 40, 60-62.	1.3	336
47	Synthesis and Crystal Structure of Cubic Perovskite-type $\text{BaMo}_{1-x}\text{Ti}_x\text{O}_3$ with $x=0.175$. Chemistry Letters, 2011, 40, 524-526.	1.3	1
48	Synthesis, structure and physical properties of reduced barium titanate $\text{Ba}_2\text{Ti}_3\text{O}_{22}$. Journal of Solid State Chemistry, 2011, 184, 3117-3120.	2.9	4
49	Structural Reinvestigation of Alkali Hexatitanate. Solid State Phenomena, 2011, 170, 208-212.	0.3	0
50	Synthesis, structural reinvestigation and physical properties of alkali hexatitanate. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C731-C731.	0.3	0
51	Neutron powder diffraction study of tetragonal $\text{Li}_7\text{La}_3\text{Hf}_2\text{O}_{12}$ with the garnet-related type structure. Journal of Solid State Chemistry, 2010, 183, 180-185.	2.9	70
52	Structural Study of Trehalose Dihydrate by Neutron and X-ray Diffraction Experiments. Journal of the Physical Society of Japan, 2010, 79, 074608.	1.6	2
53	Crystal growth and structure refinement of monoclinic Li_2TiO_3 . Materials Research Bulletin, 2009, 44, 168-172.	5.2	146
54	A single-crystal study of the electrochemically Li-ion intercalated spinel-type $\text{Li}_4\text{Ti}_5\text{O}_{12}$. Solid State Ionics, 2009, 180, 631-635.	2.7	46

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55	Single crystal growth and structure refinement of $\text{Li}_4\text{Ti}_5\text{O}_{12}$. Journal of Physics and Chemistry of Solids, 2008, 69, 1454-1456.	4.0	61
56	Structure and phase transition in a lead-based inorganic-organic perovskites $\text{C}_5\text{H}_{10}\text{NH}_2\text{PbI}_3$. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C428-C429.	0.3	0
57	Temperature-dependent structural change of trehalose dihydrate and anhydrate crystals. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C383-C383.	0.3	0
58	Single-crystal synthesis, structure analysis, and physical properties of the calcium ferrite-type $\text{Na}_x\text{Ti}_2\text{O}_4$ with $0.558 < x < 1$. Journal of Solid State Chemistry, 2007, 180, 1020-1027.	2.9	8
59	Synthesis and Electrochemical Properties of Hollandite-Type $\text{K}_{1-x}\text{X}_x\text{Ti}_2\text{O}_7$. Key Engineering Materials, 0, 485, 123-126.	0.4	6