

Kunimitsu Kataoka

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Crystal Structure of Fast Lithium-ion-conducting Cubic Li ₇ La ₃ Zr ₂ O ₁₂ . Chemistry Letters, 2011, 40, 60-62.	1.3	336
2	Crystal growth and structure refinement of monoclinic Li ₂ TiO ₃ . Materials Research Bulletin, 2009, 44, 168-172.	5.2	146
3	A New Layered Iron Arsenide Superconductor: (Ca,Pr)FeAs ₂ . Journal of the American Chemical Society, 2014, 136, 846-849.	13.7	105
4	Lithium-ion conducting oxide single crystal as solid electrolyte for advanced lithium battery application. Scientific Reports, 2018, 8, 9965.	3.3	93
5	Neutron powder diffraction study of tetragonal Li ₇ La ₃ Hf ₂ O ₁₂ with the garnet-related type structure. Journal of Solid State Chemistry, 2010, 183, 180-185.	2.9	70
6	Single crystal growth and structure refinement of Li ₄ Ti ₅ O ₁₂ . Journal of Physics and Chemistry of Solids, 2008, 69, 1454-1456.	4.0	61
7	Ion-Exchange Synthesis, Crystal Structure, and Electrochemical Properties of Li ₂ Ti ₆ O ₁₃ . Chemistry of Materials, 2011, 23, 2344-2352.	6.7	51
8	Synthesis, crystal structure and conductive properties of garnet-type lithium ion conductor Al-free Li ₂ Ti ₃ O ₇ (0.6). Journal of the Ceramic Society of Japan, 2016, 124, 678-683.	2.7	41
9	A single-crystal study of the electrochemically Li-ion intercalated spinel-type Li ₄ Ti ₅ O ₁₂ . Solid State Ionics, 2009, 180, 631-635.	2.7	46
10	Diffusion coefficient of lithium ions in garnet-type Li _{6.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ single crystal probed by ⁷ Li pulsed field gradient-NMR spectroscopy. Solid State Ionics, 2018, 327, 18-26.	2.7	41
11	Ion-Exchange Synthesis, Crystal Structure, and Physical Properties of Hydrogen Titanium Oxide H ₂ Ti ₃ O ₇ . Inorganic Chemistry, 2013, 52, 13861-13864.	4.0	35
12	Lithium-ion conductivity and crystal structure of garnet-type solid electrolyte Li ₂ Ti ₃ O ₇ using single-crystal. Journal of the Ceramic Society of Japan, 2019, 127, 521-526.	3.4	26
13	High Ionic Conductor Member of Garnet-type Oxide Li _{6.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ . ChemElectroChem, 2018, 5, 2551-2557.	7.8	25
14	A novel soft-chemical synthetic route using Na ₂ Ti ₆ O ₁₃ as a starting compound and electrochemical properties of H ₂ Ti ₁₂ O ₂₅ . Journal of Power Sources, 2013, 244, 679-683.	3.0	23
15	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. Journal of Chemical Physics, 2019, 150, 194502.	2.8	21
16	Relationship between Li ⁺ diffusion and ion conduction for single-crystal and powder garnet-type electrolytes studied by ⁷ Li PGSE NMR spectroscopy. Physical Chemistry Chemical Physics, 2019, 21, 23589-23597.	7.8	15
17	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	14
18	Electrochemical properties of transition metal substituted calcium ferrite-type Li _x (M _{0.1} Mn _{0.9}) ₂ O ₄ (M=Ni, Ti). Journal of Power Sources, 2013, 244, 561-564.	7.8	14

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19	Crystal Structure and Superconductivity of $\text{Ba}^{1-x}\text{La}_{2-x}\text{Ge}_7$ and $\text{Ba}_{3-x}\text{Ir}_{4-x}\text{Ge}_{16}$ with Two-Dimensional Ba-Ge Networks. <i>Journal of the American Chemical Society</i> , 2014, 136, 5245-5248.	13.7	14
20	Lithium ionic conductivities of Li_2LiBO_2 with two-dimensional Li-Li networks and Li_3LiBO_2 with three-dimensional ones synthesized under high pressure. <i>Journal of Solid State Chemistry</i> , 2019, 274, 100-104.	2.9	14
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. <i>Materials Research Bulletin</i> , 2018, 107, 361-365.	5.2	13
22	Structural and Li-ion diffusion properties of lithium tantalum phosphate LiTa_2PO_8 . <i>Solid State Ionics</i> , 2020, 351, 115314.	2.7	13
23	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
24	Synthesis, crystal structure, and electrochemical properties of hollandite-type $\text{K Ti}_1\text{Mn O}_2$. <i>Solid State Ionics</i> , 2014, 262, 14-17.	2.7	10
25	Quantitative analysis of cation mixing and local valence states in $\text{LiNi}_{1-x}\text{Mn}_{2x}$ using concurrent HARECXS and HARECES measurements. <i>Microscopy (Oxford, England)</i> , 2016, 65, 253-262.	1.5	10
26	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
27	Structural and electrochemical properties of hydrogen titanium oxides. <i>Solid State Ionics</i> , 2013, 252, 109-115.	2.7	9
28	Soft chemical synthesis and crystal structure of novel hydrogen titanium oxide $\text{H}_{2-x}\text{Ti}_{12-x}\text{O}_{25}$. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 710-713.	1.1	9
29	Single-crystal synthesis, structure analysis, and physical properties of the calcium ferrite-type $\text{Na}_x\text{Ti}_2\text{O}_4$ with $0.5 \leq x \leq 1$. <i>Journal of Solid State Chemistry</i> , 2007, 180, 1020-1027.	2.9	8
30	Ion-exchange synthesis and improved Li insertion property of lithiated $\text{H}_{2-x}\text{Ti}_{12-x}\text{O}_{25}$ as a negative electrode material for lithium-ion batteries. <i>Journal of Asian Ceramic Societies</i> , 2016, 4, 75-80.	2.3	7
31	Li-ion conductivity and crystal structure of garnet-type $\text{Li}_{6.5}\text{La}_3\text{Ti}_{12}\text{O}_{25}$ ($\text{Li}_{6.5}\text{La}_3\text{Ti}_{12}\text{O}_{25}$) oxides. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 272-275.	1.5	7
32	Orthorhombic Crystal System for a Garnet-type Lithium-Ion Conductor. <i>Inorganic Chemistry</i> , 2020, 59, 14376-14381.	4.0	7
33	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
34	Synthesis and Electrochemical Properties of Hollandite-Type $\text{K}_{1-x}\text{Ti}_{12-x}\text{O}_{25}$. <i>Key Engineering Materials</i> , 2018, 748, 123-126.	0.4	6
35	Single-crystal growth, crystal structure analysis and physical properties of lithium overstoichiometric $\text{Li}_{1+x}\text{CoO}_2$. <i>Solid State Ionics</i> , 2014, 262, 106-109.	2.7	6
36	Synthesis, structure and physical properties of reduced barium titanate $\text{Ba}_2\text{Ti}_{13}\text{O}_{22}$. <i>Journal of Solid State Chemistry</i> , 2011, 184, 3117-3120.	2.9	4

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37	Compressed-exponential relaxations in supercooled liquid trehalose. Current Applied Physics, 2012, 12, 1548-1552.	2.4	4
38	Synthesis, crystal structure and electrochemical properties of Li _{0.55} Co _{0.5} Mn _{0.5} O ₂ with the O ₆ -type layered structure. Solid State Ionics, 2014, 263, 167-171.	2.7	4
39	Electrochemical Property of Particle-size Controlled H ₂ Ti ₁₂ O ₂₅ as a Negative Electrode Material for Lithium-ion Battery. Electrochemistry, 2015, 83, 834-836.	1.4	4
40	Development of a compact all-solid-state lithium secondary battery using single-crystal electrolyte. Synthesiology, 2019, 12, 29-40.	0.2	4
41	A novel synthetic route of micrometer-sized LiCoMnO ₄ as 5 V cathode material for advanced lithium ion batteries. Solid State Ionics, 2019, 333, 9-15.	2.7	4
42	Synthesis, Crystal Structure and Physical Properties of Ba ₄ Ti ₁₂ O ₂₇ . Key Engineering Materials, 2013, 566, 211-214.	0.4	3
43	Single-crystal synthesis and structure refinement of La ₂ Li _{0.5} Al _{0.5} O ₄ with K ₂ NiF ₄ -type structure. Journal of Asian Ceramic Societies, 2015, 3, 301-304.	2.3	3
44	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
45	Development of a compact all-solid-state lithium secondary battery using single-crystal electrolyte. Synthesiology, 2019, 12, 28-38.	0.2	3
46	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
47	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
48	Synthesis of H ₂ Ti ₁₂ O ₂₅ with anisotropic morphology by impregnation of Na ₂ CO ₃ solution into porous titanium hydroxide. Journal of the Ceramic Society of Japan, 2017, 125, 686-689.	1.1	2
49	Synthesis of H ₂ Ti ₁₂ O ₂₅ containing fine carbon particles by impregnation method using porous titanium hydroxide. Journal of the Ceramic Society of Japan, 2019, 127, 399-403.	1.1	2
50	Garnet-Type Lithium Ion Conducting Oxides: Li ₇ La ₃ Zr ₂ O ₁₂ and Its Chemical Derivatives. , 2021, , 201-219.		2
51	Discovery of the Li-Sr-La-Zr-O Compound and the Investigation of Its Lithium-Ion Conductivity. Inorganic Chemistry, 2022, 61, 7835-7840.	4.0	2
52	Synthesis and Crystal Structure of Cubic Perovskite-type BaMo _x Ti _{1-x} O ₃ with x ≈ 0.175. Chemistry Letters, 2011, 40, 524-526.	1.3	1
53	High-Pressure Synthesis, Crystal Chemistry, and Ionic Conductivity of a Structural Polymorph of Li ₃ BP ₂ O ₈ . Inorganic Chemistry, 2018, 57, 15048-15050.	4.0	1
54	Synthesis, crystal structure and electrochemical property of Li _{2.7} MnTi ₃ O ₉ with the Na _{2.08} Ti ₄ O ₉ -type tunnel structure. Solid State Ionics, 2020, 357, 115467.	2.7	1

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55	Structural Reinvestigation of Alkali Hexatitanate. Solid State Phenomena, 2011, 170, 208-212.	0.3	0
56	Structure and phase transition in a lead-based inorganic-organic perovskites C5H10NH2PbI3. 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	Synthesis, structural reinvestigation and physical properties of alkali hexatitanate. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C731-C731.	0.3	0
59	Synthesis and Crystal Structure Analysis of Lithium-Ion Rechargeable Battery Anode Materials. Nihon Kessho Gakkaishi, 2013, 55, 180-187.	0.0	0