

Nobuhiro Kumada

List of Publications by Year in descending order

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105
papers

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citations

304743

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345221

36
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110
all docs

110
docs citations

110
times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Crystal Structure, and Magnetic Properties of $\text{Bi}_{3-x}\text{Mn}_4\text{O}_{12}$ (NO_3) Oxynitrate Comprising $S = 3/2$ Honeycomb Lattice. <i>Journal of the American Chemical Society</i> , 2009, 131, 8313-8317.	13.7	133
2	Photocatalytic activities of various pentavalent bismuthates under visible light irradiation. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2017-2022.	2.9	103
3	Piezoelectric properties of high Curie temperature barium titanate-bismuth perovskite-type oxide system ceramics. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	78
4	Single-crystalline porous NiO nanosheets prepared from $\hat{\text{I}}^2\text{-Ni(OH)}_2$ nanosheets: Magnetic property and photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 741-747.	20.2	65
5	Superconducting Double Perovskite Bismuth Oxide Prepared by a Low-Temperature Hydrothermal Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3599-3603.	13.8	61
6	Nonaqueous Synthesis and Characterization of a Novel Layered Zirconium Phosphate Templated with Mixed Organic and Inorganic Cations. <i>Chemistry of Materials</i> , 2000, 12, 956-960.	6.7	56
7	Hydrothermal Synthesis, Crystal Structure, and Superconductivity of a Double-Perovskite Bi Oxide. <i>Chemistry of Materials</i> , 2016, 28, 459-465.	6.7	54
8	Enhanced piezoelectric response of $\text{BaTiO}_3\text{-KNbO}_3$ composites. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	44
9	Structural, Dielectric, and Piezoelectric Properties of Mn-Doped $\text{BaTiO}_3\text{-Bi(Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3\text{-BiFeO}_3$ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 09ND07.		42
10	Mechanical, electronic, optical, and thermodynamic properties of orthorhombic LiCuBiO_4 crystal: a first-principles study. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3783-3794.	5.8	41
11	Hydrothermal synthesis of a new Bi-based $(\text{Ba}_{0.82}\text{K}_{0.18})(\text{Bi}_{0.53}\text{Pb}_{0.47})\text{O}_3$ superconductor. <i>Journal of Alloys and Compounds</i> , 2015, 634, 208-214.	5.5	38
12	Structural, dielectric, and piezoelectric properties of $\text{BaTiO}_3\text{-Bi(Ni}_{1/2}\text{Ti}_{1/2})\text{O}_3$ ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2012, 120, 30-34.	1.1	37
13	Preparation of bismuth oxides with mixed valence from hydrated sodium bismuth oxide. <i>Materials Research Bulletin</i> , 1995, 30, 129-134.	5.2	36
14	Facile Hydrothermal Synthesis of Yttrium Hydroxide Nanowires. <i>Crystal Growth and Design</i> , 2009, 9, 978-981.	3.0	35
15	Cobalt oxide (Co_3O_4) nanorings prepared from hexagonal $\hat{\text{I}}^2\text{-Co(OH)}_2$ nanosheets. <i>Materials Research Bulletin</i> , 2011, 46, 1156-1162.	5.2	33
16	Template-free hydrothermal synthesis of hollow hematite microspheres. <i>Journal of Materials Science</i> , 2010, 45, 5685-5691.	3.7	27
17	Hydrothermal Synthesis, Structure, and Superconductivity of Simple Cubic Perovskite $(\text{Ba}_{0.62}\text{K}_{0.38})(\text{Bi}_{0.92}\text{Mg}_{0.08})\text{O}_3$ with $T_c \approx 30$ K. <i>Inorganic Chemistry</i> , 2017, 56, 3174-3181.	4.0	26
18	Crystal Structure, Thermal Behavior, and Photocatalytic Activity of $\text{NaBiO}_3\text{-NiH}_2\text{O}$. <i>Inorganic Chemistry</i> , 2018, 57, 8903-8908.	4.0	26

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19	Hydrothermal magic for the synthesis of new bismuth oxides. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2918-2938.	6.0	26
20	Hydrothermal Synthesis of a New Double Perovskite-Type Bismuthate, $(\text{Ba}_{0.75}\text{K}_{0.14}\text{H}_{0.11})\text{BiO}_3 \cdot n\text{H}_2\text{O}$. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 010216.	1.5	25
21	Hexagonal tungsten oxide-polyaniline hybrid electrodes for high-performance energy storage. <i>Applied Surface Science</i> , 2019, 498, 143872.	6.1	24
22	Hydrothermal Synthesis and Crystal Structure of a $(\text{Ba}_{0.54}\text{K}_{0.46})_{x_4}\text{Bi}_{x_4}\text{O}_{12}$ Double-Perovskite Superconductor with Onset of the Transition $T_c \approx 30$ K. <i>Inorganic Chemistry</i> , 2019, 58, 11997-12001.	4.0	24
23	Preparation of barium titanate-bismuth magnesium titanate ceramics with high Curie temperature and their piezoelectric properties. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 683-687.	1.1	23
24	Preparation of Polyaniline/Mesoporous Silica Hybrid and Its Electrochemical Properties. <i>Journal of Porous Materials</i> , 2005, 12, 337-343.	2.6	22
25	Preparation of ilmenite type oxides via ion-exchange reaction. <i>Materials Research Bulletin</i> , 1993, 28, 849-854.	5.2	20
26	Crystal structure of a new lanthanum-bismuth oxyhydroxide: $\text{La}_{0.26}\text{Bi}_{0.74}\text{OOH}$. <i>Materials Research Bulletin</i> , 1994, 29, 497-503.	5.2	20
27	Hydrothermal synthesis of Fe_3O_4 particles with various shapes. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 881-886.	1.1	20
28	Enhanced Supercapacitor Performance Based on CoAl Layered Double Hydroxide-Polyaniline Hybrid Electrodes Manufactured Using Hydrothermal-Electrodeposition Technology. <i>Molecules</i> , 2019, 24, 976.	3.8	19
29	Novel Open-Framework Material: A Cerium Oxyfluoride with CeO_6F_2 Dodecahedron. <i>Chemistry of Materials</i> , 2000, 12, 3527-3529.	6.7	18
30	Crystal structures of a pentavalent bismuthate, SrBi_2O_6 and a lead bismuth oxide $(\text{Pb}_{1/3}\text{Bi}_{2/3})\text{O}_{1.4}$. <i>Journal of Asian Ceramic Societies</i> , 2014, 2, 150-153.	2.3	18
31	Preparation and photocatalytic properties of new calcium and lead bismuthates. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 509-512.	1.1	18
32	Effects of starting materials on the deposition behavior of hydrothermally synthesized $\{1\bar{1}0\}$ -oriented epitaxial $(\text{K},\text{Na})\text{NbO}_3$ thick films and their ferroelectric and piezoelectric properties. <i>Journal of Crystal Growth</i> , 2019, 511, 1-7.	1.5	18
33	Hydrothermal Synthesis of Pyrochlore-Type Pentavalent Bismuthates $\text{Ca}_2\text{Bi}_2\text{O}_7$ and $\text{Sr}_2\text{Bi}_2\text{O}_7$. <i>Inorganic Chemistry</i> , 2019, 58, 1759-1763.	4.0	18
34	Hydrothermal synthesis of a new perovskite-type bismuth oxide: $\text{Ba}_{0.96}\text{Bi}_{0.86}\text{O}_{2.59}(\text{OH})_{0.41}$. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 214-216.	1.1	17
35	Non-aqueous Synthesis and Structure of a Novel Monodimensional Zirconium Phosphate: $[\text{NH}_4]_3[\text{Zr}(\text{OH})_2(\text{PO}_4)(\text{HPO}_4)]$. <i>Chemistry Letters</i> , 2002, 31, 398-399.	1.3	16
36	Rising T_c in Bi and Cu co-doped BaTiO_3 . <i>Materials Letters</i> , 2010, 64, 383-385.	2.6	16

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37	Preparation and crystal structure of new inorganic compounds by hydrothermal reaction. Journal of the Ceramic Society of Japan, 2013, 121, 135-141.	1.1	16
38	Preparation of a new pyrochlore-type compound $\text{Na}_{0.32}\text{Bi}_{1.68}\text{Ti}_2\text{O}_6 \cdot 0.46(\text{OH})_{0.44}$ by hydrothermal reaction. Journal of Solid State Chemistry, 2011, 184, 1899-1902.	2.9	15
39	Preparation of Pyrochlore Type $\text{Na}_{0.39}\text{Bi}_{3.47}\text{O}_{7.7}$; Containing Bi^{5+} by Low Temperature Hydrothermal Reaction. Journal of the Ceramic Society of Japan, 1993, 101, 966-968.	1.3	14
40	Hydrothermal Synthesis, Crystal Structure, and Visible-Region Photocatalytic Activity of Ba_2O_6 . ChemistrySelect, 2017, 2, 4843-4846.	1.5	14
41	Synthesis of rutile-type solid solution $\text{Ni}_x\text{Co}_x\text{Ti}(\text{Nb}_y\text{Ta}_y)_{2-x-y}\text{O}_8$ ($0 \leq x, y \leq 1$) and its optical property. Journal of Asian Ceramic Societies, 2017, 5, 284-289.	2.3	14
42	Synthesis of hematite particles with various shapes by a simple hydrothermal reaction. Journal of the Ceramic Society of Japan, 2009, 117, 245-248.	1.1	13
43	Hydrothermal Synthesis and Crystal Structure of a Mixed-Valence Bismuthate, $\text{Na}_3\text{Bi}_3\text{O}_8$. Inorganic Chemistry, 2020, 59, 4950-4960.	4.0	13
44	Crystal Structures of Ilmenite Type LiNbO_3 and NaNbO_3 . Journal of the Ceramic Society of Japan, 1990, 98, 384-388.	1.3	12
45	A Novel Layered Zirconium Phosphate $[\text{NH}_4]_2[\text{Zr}(\text{OH})_3(\text{PO}_4)]$ Synthesized through Non-aqueous Route. Chemistry Letters, 2002, 31, 804-805.	1.3	12
46	Effect of sintering condition and V-doping on the piezoelectric properties of $\text{BaTiO}_3 \cdot \text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ ceramics. Journal of the Ceramic Society of Japan, 2013, 121, 589-592.	1.1	12
47	Chemical composition dependence of ferroelectric properties for $\text{BaTiO}_3 \cdot \text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ lead-free piezoelectric ceramics. Journal of the Ceramic Society of Japan, 2013, 121, 855-858.	1.1	12
48	Hydrothermal Synthesis and Crystal Structure of a Novel Bismuth Oxide: $(\text{K}_{0.2}\text{Sr}_{0.8})(\text{Na}_{0.01}\text{Ca}_{0.25}\text{Bi}_{0.74})\text{O}_3$. ACS Omega, 2021, 6, 15975-15980.	1.1	11
49	Piezoelectric anomalies at the ferroelastic phase transitions of lead-free tungsten bronze ferroelectrics. Journal of the Ceramic Society of Japan, 2010, 118, 717-721.	1.1	10
50	Preparation of barium titanate-potassium niobate ceramics using interface engineering and their piezoelectric properties. Journal of the Ceramic Society of Japan, 2010, 118, 691-695.	1.1	10
51	Low temperature synthesis of ATiO_3 (A: Mg, Ca, Sr, Ba) by using molten salt. Journal of the Ceramic Society of Japan, 2013, 121, 74-79.	1.1	10
52	Circumstances of La, Eu, Dy, and Yb Cations Intercalated via Ion Exchange in Zr^{3+} -Zirconium Phosphate. Inorganic Chemistry, 2018, 57, 13097-13103.	4.0	10
53	Preparation and crystal structure of two types of zirconium phosphates by hydrothermal reaction. Journal of the Ceramic Society of Japan, 2011, 119, 412-416.	1.1	9
54	Crystal structure, photocatalytic and dielectric property of ATiM_2O_8 (A: Mg, Tj ETQqO 0.0rgBT /Oyerlock 10	2.3	9

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55	Crystal structures of CdTi ₂ O ₄ (OH) ₂ and LaTiSbO ₆ . Materials Research Bulletin, 2005, 40, 1166-1171.	5.2	8
56	Preparation of Na _{0.5} Bi _{0.5} TiO ₃ by hydrothermal reaction. Journal of the Ceramic Society of Japan, 2008, 116, 1238-1240.	1.1	8
57	Hydrothermal synthesis of NaNbO ₃ -morphology change by starting compounds-. Journal of the Ceramic Society of Japan, 2011, 119, 483-485.	1.1	8
58	Recyclable Pd-Incorporated Perovskite-Titanate Catalysts Synthesized in Molten Salts for the Liquid-Phase Oxidation of Alcohols with Molecular Oxygen. Bulletin of the Chemical Society of Japan, 2013, 86, 146-152.	3.2	8
59	Hydrothermal synthesis of perovskite-type BiFeO ₃ . Journal of the Ceramic Society of Japan, 2008, 116, 837-839.	1.1	7
60	High-Pressure Polymorph of NaBiO ₃ . Inorganic Chemistry, 2016, 55, 5747-5749.	4.0	7
61	Hydrothermal synthesis and crystal structure of a new lithium copper bismuth oxide, LiCuBiO ₄ . Journal of Solid State Chemistry, 2017, 245, 30-33.	2.9	7
62	Ca _x Ba _{1-x} Nb ₂ O ₆ Ferroelectric Nanopowders for Ultrahigh-Density Optical Data Storage. ACS Applied Nano Materials, 2018, 1, 6289-6300.	5.0	7
63	Preparation and characterization of hollow magnetite spheres via a template-free route. Journal of the Ceramic Society of Japan, 2010, 118, 272-277.	1.1	6
64	Synthesis and crystal structure of pyrochlore-type silver niobate and tantalate. Journal of the Ceramic Society of Japan, 2017, 125, 776-778.	1.1	6
65	Hydrothermal doping of Ag into three types of potassium niobates. Journal of the Ceramic Society of Japan, 2018, 126, 784-788.	1.1	6
66	Hydrothermal synthesis and crystal structure of a fluorite-type Pb _{0.35} Bi _{0.65} O _{1.59} compound with photocatalytic activity. Materials Letters, 2019, 257, 126688.	2.6	6
67	Synthesis of mesoporous silica containing group 2-metal cations and their performance behavior in rare earth cation adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125664.	4.7	6
68	Silylation of layered zirconium hydroxy phosphate and its porous properties. Journal of Materials Science, 2007, 42, 2837-2843.	3.7	5
69	Adsorption Behavior of Rare Earth Metal Cations in the Interlayer Space of β -ZrP. Langmuir, 2016, 32, 9993-9999.	3.5	5
70	Structural investigation of ferroelectric BiFeO ₃ -BaTiO ₃ solid solutions near the rhombohedral-pseudocubic phase boundary. Applied Physics Letters, 2020, 116, .	3.3	5
71	The Dielectric and Piezoelectric Properties of KNbO ₃ / BaTiO ₃ Composites With A Wide BaTiO ₃ Size Distribution. Transactions of the Materials Research Society of Japan, 2013, 38, 57-60.	0.2	5
72	Hydrothermal synthesis and crystal structure of a novel double-perovskite-type bismuth oxide with 3 \times 1 ordering at the B-site. New Journal of Chemistry, 2022, 46, 3595-3601.	2.8	5

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73	Preparation of cordierite from fibrous sepiolite. Journal of the Ceramic Society of Japan, 2009, 117, 1236-1239.	1.1	4
74	Dispersion of barium titanate and strontium titanate nanocubes and their selective accumulations. Journal of the Ceramic Society of Japan, 2010, 118, 688-690.	1.1	4
75	Hydrothermal reaction of NaBiO_3 with transition-metal (Co, Ni, Cu) salts. Journal of the Ceramic Society of Japan, 2018, 126, 1005-1012.	1.1	4
76	Fabrication of Textured BaTiO_3 Ceramics by Electrophoretic Deposition in A High Magnetic Field using Single-domain Particles. Transactions of the Materials Research Society of Japan, 2013, 38, 41-44.	0.2	4
77	Sorption of divalent Fe, Co, Ni, and mixed-valent Fe into mesoporous silica grafted with an aminopropyl group, and their adsorption properties. Journal of the Ceramic Society of Japan, 2009, 117, 1180-1185.	1.1	3
78	Hydrothermal conversion of chrysotile to amorphous silica or brucite. Journal of the Ceramic Society of Japan, 2009, 117, 1240-1242.	1.1	3
79	Low temperature synthesis of tetragonal BaTiO_3 by using molten salt. Journal of the Ceramic Society of Japan, 2010, 118, 738-740.	1.1	3
80	Synthesis of LiCoO_2 via a facile hydrothermal-assisted route. Journal of the Ceramic Society of Japan, 2011, 119, 538-540.	1.1	3
81	Size-controlled synthesis of $\text{Co}(\text{OH})_2$ hexagonal nanoplates and their conversion into CoO octahedrons using cobalt naphthenate under solvothermal conditions. International Journal of Nanotechnology, 2013, 10, 71.	0.2	3
82	Hydrothermal synthesis of $\text{KTi}_2(\text{PO}_4)_3$, $\text{Ti}(\text{HPO}_4)_2 \cdot \text{H}_2\text{O}$ and $\text{Ti}(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$ from a lepidocrocite-type titanate. Journal of Asian Ceramic Societies, 2019, 7, 361-367.	2.3	3
83	Electrical properties of pyrochlore-type silver tantalate and fluorite-type silver niobate. Journal of the Ceramic Society of Japan, 2020, 128, 46-50.	1.1	3
84	Hydrothermal synthesis and crystal structure of a mixed-valence pyrochlore-type strontium bismuthate, $(\text{Sr}_{0.75}\text{Bi}_{0.25})_2\text{Bi}_2\text{O}_{6.83}$. Journal of the Ceramic Society of Japan, 2020, 128, 660-663.	1.1	3
85	Controllable antimicrobial properties of silver ion-exchanged niobate and tantalate compounds. Journal of Asian Ceramic Societies, 2022, 10, 49-57.	2.3	3
86	Crystal structure of pseudobrookite-type $\text{Mg}_5\text{Nb}_4\text{O}_{15}$ from 293 to 1117 K. Journal of the Ceramic Society of Japan, 2009, 117, 489-493.	1.1	2
87	Hydrothermal Synthesis of BiFeO_3 Fine Particles. Transactions of the Materials Research Society of Japan, 2013, 38, 53-55.	0.2	2
88	Thermal Catalysis Reaction for Self-Surface-Modification of Titania and the Retention Behavior of Resulting Packing Materials in HPLC. Chromatography, 2016, 37, 87-92.	1.7	2
89	Photocatalytic activity of $\text{RBi}_2\text{O}_4\text{NO}_3$ (R: Tb, Dy, Er, Gd, and Ho) for phenol degradation under visible light irradiation. Journal of the Ceramic Society of Japan, 2021, 129, 181-186.	1.1	2
90	Preparation of Transition Metal-Mesoporous Silica Hybrid for Adsorbent Materials. Journal of Ion Exchange, 2007, 18, 604-609.	0.3	2

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91	Synthesis and Crystal Structure of Hollandite-Type $K_xNb_yTi_8O_{16}$ ($x \leq 1$); Tj EIQ1 1 0.784314		
92	Enhanced Piezoelectric Properties of Lead-Free Piezoelectric Materials by Microstructure Control. <i>Ferroelectrics</i> , 2010, 402, 121-129.	0.6	1
93	Synthesis and crystal structure of a new bismuth tin titanate with the pyrochlore-type structure. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 952-957.	1.1	1
94	Study on Preparation and Crystal Chemistry of Inorganic Ion-Exchangers. <i>Journal of Ion Exchange</i> , 2017, 28, 29-36.	0.3	1
95	Hydrothermal synthesis and crystal structure of a new rubidium sodium niobium fluoride, $RbNaNb_7F_{27}$. <i>Journal of the Ceramic Society of Japan</i> , 2022, 130, 232-235.	1.1	1
96	Preparation and crystal structure of $[enH_2]_{0.5}[Ho(HPO_4)(SO_4)(H_2O)]$ (en; ethylenediamine). <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 236-240.	1.1	0
97	Preparation of Co and Ni dispersed porous carbon from metal naphthenate-phenolic and fran resin hybrid. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 470-476.	1.1	0
98	Piezoelectric enhancement of relaxor-based lead-free piezoelectric ceramics by nanodomain engineering. , 2012, , .		0
99	Ion-exchange Reaction of Hydroxyapatites with Eu^{3+} and Tb^{3+} Ions. <i>Journal of Ion Exchange</i> , 2003, 14, 153-156.	0.3	0
100	Synthesis of New Inorganic Compounds by Ion-exchange Reaction.. <i>Journal of Ion Exchange</i> , 2003, 14, 24-29.	0.3	0
101	New development of inorganic ion exchanger: Ion-Exchange of Na^+ Ion in $Na_{0.95}Mo_2O_4$. <i>Journal of Ion Exchange</i> , 2005, 16, 55-59.	0.3	0
102	Preparation of Bismuth ^{1/4} Based Perovskites with Non-integer A and B Site Valence and Their Properties. <i>Transactions of the Materials Research Society of Japan</i> , 2013, 38, 49-52.	0.2	0
103	Piezoelectric and Dielectric Enhancement of New Nano-structured Ceramics with Heteroepitaxial Interfaces. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2013, 2013, 000001-000004.	0.2	0
104	Dielectric and Piezoelectric Properties of Barium Titanate “Potassium Niobate Nano-structured Ceramics with Artificial MPB Structure. <i>Transactions of the Materials Research Society of Japan</i> , 2014, 39, 113-115.	0.2	0
105	Preparation and crystal structure of new niobium oxides.. <i>Nihon Kessho Gakkaishi</i> , 1999, 41, 136-140.	0.0	0