

Takahiro Takei

List of Publications by Year in descending order

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89
papers

1,379
citations

394421

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docs citations

90
times ranked

1617
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#	ARTICLE	IF	CITATIONS
1	Hydrothermal synthesis and crystal structure of a novel double-perovskite-type bismuth oxide with 3 A^{1+} ordering at the B-site. <i>New Journal of Chemistry</i> , 2022, 46, 3595-3601.	2.8	5
2	Hydrothermal synthesis and crystal structure of a new rubidium sodium niobium fluoride, RbNaNbF_7 . <i>Journal of the Ceramic Society of Japan</i> , 2022, 130, 232-235.	1.1	1
3	Synthesis of mesoporous silica containing group 2-metal cations and their performance behavior in rare earth cation adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125664.	4.7	6
4	Novel $\text{ZnTi/C}_3\text{N}_4/\text{Ag}$ LDH heterojunction composite for efficient photocatalytic phenol degradation. <i>Journal of Solid State Chemistry</i> , 2021, 294, 121858.	2.9	24
5	Hydrothermal magic for the synthesis of new bismuth oxides. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2918-2938.	6.0	26
6	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. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 181-186.	1.1	2
7	Hydrothermal Synthesis and Crystal Structure of a Novel Bismuth Oxide: $(\text{K}_{0.2}\text{Sr}_{0.8})(\text{Na}_{0.01}\text{Ca}_{0.25}\text{Bi}_{0.74})\text{O}_3$. <i>ACS Omega</i> , 2021, 6, 15975-15980.		11
8	Constructing an efficient conductive network with carbon-based additives in metal hydroxide electrode for high-performance hybrid supercapacitor. <i>Electrochimica Acta</i> , 2021, 397, 139242.	5.2	10
9	Electrical properties of pyrochlore-type silver tantalate and fluorite-type silver niobate. <i>Journal of the Ceramic Society of Japan</i> , 2020, 128, 46-50.	1.1	3
10	Hydrothermal Synthesis and Crystal Structure of a Mixed-Valence Bismuthate, $\text{Na}_3\text{Bi}_3\text{O}_8$. <i>Inorganic Chemistry</i> , 2020, 59, 4950-4960.	4.0	13
11	Facile and controllable synthesis of Zn-Al layered double hydroxide/silver hybrid by exfoliation process and its plasmonic photocatalytic activity of phenol degradation. <i>Materials Chemistry and Physics</i> , 2020, 250, 122988.	4.0	18
12	Hydrothermal synthesis and crystal structure of a mixed-valence pyrochlore-type strontium bismuthate, $(\text{Sr}_{0.75}\text{Bi}_{0.25})_2\text{Bi}_2\text{O}_{6.83}$. <i>Journal of the Ceramic Society of Japan</i> , 2020, 128, 660-663.	1.1	3
13	Hexagonal tungsten oxide-polyaniline hybrid electrodes for high-performance energy storage. <i>Applied Surface Science</i> , 2019, 498, 143872.	6.1	24
14	Hydrothermal Synthesis and Crystal Structure of a $(\text{Ba}_{0.54}\text{K}_{0.46})_4\text{Bi}_4\text{O}_{12}$ Double-Perovskite Superconductor with Onset of the Transition $T_c \approx 30$ K. <i>Inorganic Chemistry</i> , 2019, 58, 11997-12001.	4.0	24
15	Hydrothermal synthesis and crystal structure of a fluorite-type $\text{Pb}_{0.35}\text{Bi}_{0.65}\text{O}_{1.59}$ compound with photocatalytic activity. <i>Materials Letters</i> , 2019, 257, 126688.	2.6	6
16	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
17	Hybridization of layered zirconium phosphate with azo compounds and its photoresponsivity and adsorption of rare earth elements. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 830-836.	1.1	3
18	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

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19	Hybridization of Metal Nanoparticle of ZnAl Layered Double Hydroxide and its Application for Photocatalyst Phenol Degradation. Journal of Ion Exchange, 2018, 29, 48-52.	0.3	2
20	Hydrothermal doping of Ag into three types of potassium niobates. Journal of the Ceramic Society of Japan, 2018, 126, 784-788.	1.1	6
21	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
22	Crystal structure, photocatalytic and dielectric property of ATiM_2O_8 (A: Mg, Tj ETQq0 0,0rgBT /Oylock 10	2.3	9
23	Circumstances of La, Eu, Dy, and Yb Cations Intercalated via Ion Exchange in $\hat{\text{I}}^3$ -Zirconium Phosphate. Inorganic Chemistry, 2018, 57, 13097-13103.	4.0	10
24	Crystal Structure, Thermal Behavior, and Photocatalytic Activity of $\text{NaBiO}_3 \cdot \text{H}_2\text{O}$. Inorganic Chemistry, 2018, 57, 8903-8908.	4.0	26
25	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 Ti^{3+} at 30 K. Inorganic Chemistry, 2017, 56, 3174-3181.	4.0	26
26	Hydrothermal Synthesis, Crystal Structure, and Visible-Region Photocatalytic Activity of BaBi_2O_6 . ChemistrySelect, 2017, 2, 4843-4846.	1.5	14
27	Synthesis of rutile-type solid solution $\text{Ni}_{1-x}\text{Co}_x\text{Ti}(\text{Nb}_{1-y}\text{Ta}_y)_2\text{O}_8$ ($0 \leq x \leq 1, 0 \leq y \leq 1$) and its optical property. Journal of Asian Ceramic Societies, 2017, 5, 284-289.	2.3	14
28	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
29	Synthesis of mesoporous silica-phosphate hybrids and their adsorption competency for rare earth metal cations. Journal of the Ceramic Society of Japan, 2017, 125, 732-736.	1.1	5
30	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
31	Adsorption Behavior of Rare Earth Metal Cations in the Interlayer Space of $\hat{\text{I}}^3$ -ZrP. Langmuir, 2016, 32, 9993-9999.	3.5	5
32	High-Pressure Polymorph of NaBiO_3 . Inorganic Chemistry, 2016, 55, 5747-5749.	4.0	7
33	Topotactic transformation of Ni-based layered double hydroxide film to layered metal oxide and hydroxide. Applied Clay Science, 2016, 124-125, 236-242.	5.2	4
34	Hydrothermal Synthesis, Crystal Structure, and Superconductivity of a Double-Perovskite Bi Oxide. Chemistry of Materials, 2016, 28, 459-465.	6.7	54
35	Preparation and phase transformation of Ag or Bi ion-exchanged layered niobate perovskite and their photocatalytic properties. Journal of the Ceramic Society of Japan, 2015, 123, 690-694.	1.1	7
36	Study on the Effect of Pt Intercalation into Layered Niobate Perovskite for Photocatalytic Behavior. Langmuir, 2015, 31, 7660-7665.	3.5	11

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37	Hydrothermal synthesis of a new Bi-based (Ba _{0.82} K _{0.18})(Bi _{0.53} Pb _{0.47})O ₃ superconductor. Journal of Alloys and Compounds, 2015, 634, 208-214.	5.5	38
38	Photocatalytic Activities of Layered Niobate Perovskite (A ⁿ⁺ ^{m-} 1Nb _n O _{3n+1} , A: Ca, La) with Substitution of Ti and W for Nb. Journal of Ion Exchange, 2014, 25, 242-247.	0.3	2
39	Superconducting Double Perovskite Bismuth Oxide Prepared by a Low-temperature Hydrothermal Reaction. Angewandte Chemie - International Edition, 2014, 53, 3599-3603.	13.8	61
40	Anodic hybridization of fluorinated layered perovskite nanosheet with polyaniline for electrochemical capacitor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 459, 186-193.	4.7	11
41	Single-crystalline porous NiO nanosheets prepared from $\text{Ni}(\text{OH})_2$ nanosheets: Magnetic property and photocatalytic activity. Applied Catalysis B: Environmental, 2014, 147, 741-747.	20.2	65
42	Soft-chemical synthesis and catalytic activity of Ni-Al and Co-Al layered double hydroxides (LDHs) intercalated with anions with different charge density. Journal of Asian Ceramic Societies, 2014, 2, 289-296.	2.3	10
43	Crystal structures of a pentavalent bismuthate, SrBi ₂ O ₆ and a lead bismuth oxide (Pb _{1/3} Bi _{2/3})O _{1.4} . Journal of Asian Ceramic Societies, 2014, 2, 150-153.	2.3	18
44	Preparation and photocatalytic properties of new calcium and lead bismuthates. Journal of the Ceramic Society of Japan, 2014, 122, 509-512.	1.1	18
45	Soft-chemical treatment of transition-metal-containing layered double hydroxides and their application in porous materials. Journal of Porous Materials, 2013, 20, 777-783.	2.6	5
46	Conversion of calcium sulfite waste to hydroxyapatite. Powder Technology, 2013, 237, 400-405.	4.2	8
47	Low temperature synthesis of A ₃ TiO ₃ (A: Mg, Ca, Sr, Ba) by using molten salt. Journal of the Ceramic Society of Japan, 2013, 121, 74-79.	1.1	10
48	Hydrothermal Synthesis of BiFeO ₃ Fine Particles. Transactions of the Materials Research Society of Japan, 2013, 38, 53-55.	0.2	2
49	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
50	Electrodeposition of exfoliated nanosheet colloid from the partially substituted birnessite and electrochemical property. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 396, 341-345.	4.7	3
51	Preparation of Hybrid Film of Polyaniline and Organically Pillared Zirconium Phosphate Nanosheet by Electrodeposition. Langmuir, 2011, 27, 126-131.	3.5	18
52	Synthesis of LiCoO ₂ via a facile hydrothermal-assisted route. Journal of the Ceramic Society of Japan, 2011, 119, 538-540.	1.1	3
53	Preparation of Co and Ni dispersed porous carbon from metal naphthenate-phenolic and fran resin hybrid. Journal of the Ceramic Society of Japan, 2011, 119, 470-476.	1.1	0
54	Hydrothermal synthesis of NaNbO ₃ -morphology change by starting compounds-. Journal of the Ceramic Society of Japan, 2011, 119, 483-485.	1.1	8

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55	Synthesis and electronic structure of proton-type partially substituted birnessite by period-four transition metal. <i>Materials Research Bulletin</i> , 2011, 46, 1896-1901.	5.2	5
56	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. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1899-1902.	2.9	15
57	Photocatalytic activities of various pentavalent bismuthates under visible light irradiation. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2017-2022.	2.9	103
58	Synthesis of Polypyrrole-Intercalated Grafted Zirconium Phosphate Films by Anodic Electrodeposition and Their Electrochemical Capacities. <i>Polymers</i> , 2011, 3, 1-9.	4.5	8
59	Preparation and characterization of hollow magnetite spheres via a template-free route. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 272-277.	1.1	6
60	Dispersion of barium titanate and strontium titanate nanocubes and their selective accumulations. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 688-690.	1.1	4
61	Electrochemical preparation of hybrid film using inorganic nanosheets and the related electrochemical properties. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 257-262.	1.1	4
62	Low temperature synthesis of tetragonal BaTiO_3 by using molten salt. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 738-740.	1.1	3
63	Preparation and crystal structure of $[\text{enH}_2]_{0.5}[\text{Ho}(\text{HPO}_4)(\text{SO}_4)(\text{H}_2\text{O})]$ (en; ethylenediamine). <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 236-240.	1.1	0
64	Template-free hydrothermal synthesis of hollow hematite microspheres. <i>Journal of Materials Science</i> , 2010, 45, 5685-5691.	3.7	27
65	The pH effects on the formation of Ni/Al nitrate form layered double hydroxides (LDHs) by chemical precipitation and hydrothermal method. <i>Materials Chemistry and Physics</i> , 2010, 121, 223-229.	4.0	61
66	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
67	Preparation and crystal structure of a new tin titanate containing Sn^{2+} ; Sn_2TiO_4 . <i>Materials Research Bulletin</i> , 2009, 44, 1298-1300.	5.2	33
68	Synthesis, Crystal Structure, and Magnetic Properties of $\text{Bi}_{3-x}\text{Mn}_{4-x}\text{O}_{12-x}(\text{NO}_3)_3$ Oxynitrate Comprising $S = 3/2$ Honeycomb Lattice. <i>Journal of the American Chemical Society</i> , 2009, 131, 8313-8317.	13.7	133
69	Sorption of divalent Fe, Co, Ni, and mixed-valent Fe into mesoporous silica grafted with an aminopropyl group, and their adsorption properties. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1180-1185.	1.1	3
70	Hydrothermal conversion of chrysotile to amorphous silica or brucite. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1240-1242.	1.1	3
71	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
72	Synthesis of hematite particles with various shapes by a simple hydrothermal reaction. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 245-248.	1.1	13

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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	Crystal structure of pseudobrookite-type Mg ₅ Nb ₄ O ₁₅ from 293 to 1117 K. Journal of the Ceramic Society of Japan, 2009, 117, 489-493.	1.1	2
75	Hydrothermal synthesis of Fe ₃ O ₄ particles with various shapes. Journal of the Ceramic Society of Japan, 2009, 117, 881-886.	1.1	20
76	Preparation of silylated \hat{I} -zirconium phosphate and its thermal behavior. Materials Research Bulletin, 2008, 43, 111-119.	5.2	6
77	Preparation of Oriented Titanium Phosphate and Tin Phosphate/Polyaniline Hybrid Films by Electrochemical Deposition. Langmuir, 2008, 24, 8554-8560.	3.5	18
78	Anodic electrodeposition of redoxable film from manganese oxide nanosheet. Journal of the Ceramic Society of Japan, 2008, 116, 1222-1227.	1.1	7
79	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
80	Hydrothermal synthesis of perovskite-type BiFeO ₃ . Journal of the Ceramic Society of Japan, 2008, 116, 837-839.	1.1	7
81	Porous properties of silylated mesoporous silica and its hydrogen adsorption. Journal of Solid State Chemistry, 2007, 180, 1180-1187.	2.9	19
82	Silylation of layered zirconium hydroxy phosphate and its porous properties. Journal of Materials Science, 2007, 42, 2837-2843.	3.7	5
83	Preparation of Transition Metal-Mesoporous Silica Hybrid for Adsorbent Materials. Journal of Ion Exchange, 2007, 18, 604-609.	0.3	2
84	Anodic Electrodeposition of Highly Oriented Zirconium Phosphate and Polyaniline-Intercalated Zirconium Phosphate Films. Journal of the American Chemical Society, 2006, 128, 16634-16640.	13.7	69
85	Preparation of Polyaniline/Mesoporous Silica Hybrid and Its Electrochemical Properties. Journal of Porous Materials, 2005, 12, 337-343.	2.6	22
86	New development of inorganic ion exchanger: Ion-Exchange of Na ⁺ Ion in Na _{0.95} Mo ₂ O ₄ . Journal of Ion Exchange, 2005, 16, 55-59.	0.3	0
87	Soft chemical properties of layered zirconium hydroxy phosphate. Solid State Ionics, 2004, 170, 111-115.	2.7	13
88	Synthesis and Crystal Structure of Hollandite-Type $K_{x}Nb_{y}Ti_{8-y}O_{16}$ ($x < 1$ & $y < 8$); Tj EI@q 0 0 0 μ gBT /Over		
89	Ion-exchange Reaction of Hydroxyapatites with Eu ³⁺ and Tb ³⁺ Ions. Journal of Ion Exchange, 2003, 14, 153-156.	0.3	0