Takahiro Takei

List of Publications by Year
in descending order

89	1,379	394421	395702
papers	citations	19 h-index	33 g-index

90	90	90	1617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis, Crystal Structure, and Magnetic Properties of Bi₃Mn₄O₁₂(NO₃) Oxynitrate Comprising S = 3/2 Honeycomb Lattice. Journal of the American Chemical Society, 2009, 131, 8313-8317.	13.7	133
2	Photocatalytic activities of various pentavalent bismuthates under visible light irradiation. Journal of Solid State Chemistry, 2011, 184, 2017-2022.	2.9	103
3	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
4	Single-crystalline porous NiO nanosheets prepared from Î²-Ni(OH)2 nanosheets: Magnetic property and photocatalytic activity. Applied Catalysis B: Environmental, 2014, 147, 741-747.	20.2	65
5	The pH effects on the formation of Ni/Al nitrate form layered double hydroxides (LDHs) by chemical precipitation and hydrothermal method. Materials Chemistry and Physics, 2010, 121, 223-229.	4.0	61
6	Superconducting Double Perovskite Bismuth Oxide Prepared by a Lowâ€Temperature Hydrothermal Reaction. Angewandte Chemie - International Edition, 2014, 53, 3599-3603.	13.8	61
7	Hydrothermal Synthesis, Crystal Structure, and Superconductivity of a Double-Perovskite Bi Oxide. Chemistry of Materials, 2016, 28, 459-465.	6.7	54
8	Hydrothermal synthesis of a new Bi-based (Ba0.82K0.18)(Bi0.53Pb0.47)O3 superconductor. Journal of Alloys and Compounds, 2015, 634, 208-214.	5.5	38
9	Preparation and crystal structure of a new tin titanate containing Sn2+; Sn2TiO4. Materials Research Bulletin, 2009, 44, 1298-1300.	5.2	33
10	Template-free hydrothermal synthesis of hollow hematite microspheres. Journal of Materials Science, 2010, 45, 5685-5691.	3.7	27
11	Hydrothermal Synthesis, Structure, and Superconductivity of Simple Cubic Perovskite (Ba_{0.62}K_{0.38})(Bi_{0.92}Mg_{0.08})O₃ with T_c â‰ˆ 30 K. Inorganic Chemistry, 2017, 56, 3174-3181.	4.0	26
12	Crystal Structure, Thermal Behavior, and Photocatalytic Activity of NaBiO₃Â·nH₂O. Inorganic Chemistry, 2018, 57, 8903-8908.	4.0	26
13	Hydrothermal magic for the synthesis of new bismuth oxides. Inorganic Chemistry Frontiers, 2021, 8, 2918-2938.	6.0	26
14	Hydrothermal Synthesis of a New Double Perovskite-Type Bismuthate, (Ba0.75K0.14H0.11)BiO3Â·nH2O. Japanese Journal of Applied Physics, 2009, 48, 010216.	1.5	25
15	Hexagonal tungsten oxide-polyaniline hybrid electrodes for high-performance energy storage. Applied Surface Science, 2019, 498, 143872.	6.1	24
16	Hydrothermal Synthesis and Crystal Structure of a (Ba_{0.54}K_{0.46})₄Bi₄O₁₂ Double-Perovskite Superconductor with Onset of the Transition T_c â‰ˆ 30 K. Inorganic Chemistry, 2019, 58, 11997-12001.	4.0	24
17	Novel ZnTi/C3N4/Ag LDH heterojunction composite for efficient photocatalytic phenol degradation. Journal of Solid State Chemistry, 2021, 294, 121858.	2.9	24
18	Preparation of Polyaniline/Mesoporous Silica Hybrid and Its Electrochemical Properties. Journal of Porous Materials, 2005, 12, 337-343.	2.6	22

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19	Hydrothermal synthesis of Fe3O4 particles with various shapes. Journal of the Ceramic Society of Japan, 2009, 117, 881-886.	1.1	20
20	Porous properties of silylated mesoporous silica and its hydrogen adsorption. Journal of Solid State Chemistry, 2007, 180, 1180-1187.	2.9	19
21	Enhanced Supercapacitor Performance Based on CoAl Layered Double Hydroxide-Polyaniline Hybrid Electrodes Manufactured Using Hydrothermal-Electrodeposition Technology. Molecules, 2019, 24, 976.	3.8	19
22	Preparation of Oriented Titanium Phosphate and Tin Phosphate/Polyaniline Hybrid Films by Electrochemical Deposition. Langmuir, 2008, 24, 8554-8560.	3.5	18
23	Preparation of Hybrid Film of Polyaniline and Organically Pillared Zirconium Phosphate Nanosheet by Electrodeposition. Langmuir, 2011, 27, 126-131.	3.5	18
24	Crystal structures of a pentavalent bismuthate, SrBi₂O₆ 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
25	Preparation and photocatalytic properties of new calcium and lead bismuthates. Journal of the Ceramic Society of Japan, 2014, 122, 509-512.	1.1	18
26	Hydrothermal Synthesis of Pyrochlore-Type Pentavalent Bismuthates Ca₂Bi₂O₇ and Sr₂Bi₂O₇. Inorganic Chemistry, 2019, 58, 1759-1763.	4.0	18
27	Facile and controllable synthesis of Zn-Al layered double hydroxide/silver hybrid by exfoliation process and its plasmonic photocatalytic activity of phenol degradation. Materials Chemistry and Physics, 2020, 250, 122988.	4.0	18
28	Hydrothermal synthesis of a new perovskite-type bismuth oxide: Ba0.96Bi0.86O2.59(OH)0.41. Journal of the Ceramic Society of Japan, 2009, 117, 214-216.	1.1	17
29	Preparation of a new pyrochlore-type compound Na0.32Bi1.68Ti2O6.46(OH)0.44 by hydrothermal reaction. Journal of Solid State Chemistry, 2011, 184, 1899-1902.	2.9	15
30	Hydrothermal Synthesis, Crystal Structure, and Visible-Region Photocatalytic Activity of BaBi₂ O₆. ChemistrySelect, 2017, 2, 4843-4846.	1.5	14
31	Synthesis of rutile-type solid solution Ni_{1â^'x}Co_xTi(Nb_{1â^'y}Ta_y)₂O₈ (0Ââ‰Âx âˆÂ1, 0Ââ‰ÂyÂâ‰Â1) and its optical property. Journal of Asian Ceramic Societies, 2017, 5, 284-289.	2.3	14
32	Soft chemical properties of layered zirconium hydroxy phosphate. Solid State Ionics, 2004, 170, 111-115.	2.7	13
33	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
34	Hydrothermal Synthesis and Crystal Structure of a Mixed-Valence Bismuthate, Na₃Bi₃O₈. Inorganic Chemistry, 2020, 59, 4950-4960.	4.0	13
35	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
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 and Crystal Structure of a Novel Bismuth Oxide: (K_{0.2}Sr_{0.8})(Na_{0.01}Ca_{0.25}Bi_{0.74})O₃. ACS Omega, 2021, 6, 15975-15980.	3.5	11
38	Low temperature synthesis of ATiO₃ (A: Mg, Ca, Sr, Ba) by using molten salt. Journal of the Ceramic Society of Japan, 2013, 121, 74-79.	1.1	10
39	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
40	Circumstances of La, Eu, Dy, and Yb Cations Intercalated via Ion Exchange in Î³-Zirconium Phosphate. Inorganic Chemistry, 2018, 57, 13097-13103.	4.0	10
41	Constructing an efficient conductive network with carbon-based additives in metal hydroxide electrode for high-performance hybrid supercapacitor. Electrochimica Acta, 2021, 397, 139242.	5.2	10
42	Crystal structure, photocatalytic and dielectric property of ATiM₂O₈ (A: Mg,) Tj ETQq0 0 0 rgBT /Overlock 10	2.3	9
43	Preparation of Na0.5Bi0.5TiO3 by hydrothermal reaction. Journal of the Ceramic Society of Japan, 2008, 116, 1238-1240.	1.1	8
44	Hydrothermal synthesis of NaNbO3-morphology change by starting compounds-. Journal of the Ceramic Society of Japan, 2011, 119, 483-485.	1.1	8
45	Synthesis of Polypyrrole-Intercalated Grafted Zirconium Phosphate Films by Anodic Electrodeposition and Their Electrochemical Capacities. Polymers, 2011, 3, 1-9.	4.5	8
46	Conversion of calcium sulfite waste to hydroxyapatite. Powder Technology, 2013, 237, 400-405.	4.2	8
47	Anodic electrodeposition of redoxable film from manganese oxide nanosheet. Journal of the Ceramic Society of Japan, 2008, 116, 1222-1227.	1.1	7
48	Hydrothermal synthesis of perovskite-type BiFeO3. Journal of the Ceramic Society of Japan, 2008, 116, 837-839.	1.1	7
49	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
50	High-Pressure Polymorph of NaBiO₃. Inorganic Chemistry, 2016, 55, 5747-5749.	4.0	7
51	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
52	Preparation of silylated Î±-zirconium phosphate and its thermal behavior. Materials Research Bulletin, 2008, 43, 111-119.	5.2	6
53	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
54	Hydrothermal doping of Ag into three types of potassium niobates. Journal of the Ceramic Society of Japan, 2018, 126, 784-788.	1.1	6

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55	Hydrothermal synthesis and crystal structure of a fluorite-type Pb0.35Bi0.65O1.59 compound with photocatalytic activity. Materials Letters, 2019, 257, 126688.	2.6	6
56	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
57	Silylation of layered zirconium hydroxy phosphate and its porous properties. Journal of Materials Science, 2007, 42, 2837-2843.	3.7	5
58	Synthesis and electronic structure of proton-type partially substituted birnessite by period-four transition metal. Materials Research Bulletin, 2011, 46, 1896-1901.	5.2	5
59	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
60	Adsorption Behavior of Rare Earth Metal Cations in the Interlayer Space of Î³-ZrP. Langmuir, 2016, 32, 9993-9999.	3.5	5
61	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
62	Hydrothermal synthesis and crystal structure of a novel double-perovskite-type bismuth oxide with 3â€‰:â€‰1 ordering at the B-site. New Journal of Chemistry, 2022, 46, 3595-3601.	2.8	5
63	Preparation of cordierite from fibrous sepiolite. Journal of the Ceramic Society of Japan, 2009, 117, 1236-1239.	1.1	4
64	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
65	Electrochemical preparation of hybrid film using inorganic nanosheets and the related electrochemical properties. Journal of the Ceramic Society of Japan, 2010, 118, 257-262.	1.1	4
66	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
67	Hydrothermal reaction of NaBiO₃Â·<i>n</i>H₂O with transition-metal (Co, Ni, Cu) salts. Journal of the Ceramic Society of Japan, 2018, 126, 1005-1012.	1.1	4
68	Fabrication of Textured BaTiO₃ 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
69	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
70	Hydrothermal conversion of chrysotile to amorphous silica or brucite. Journal of the Ceramic Society of Japan, 2009, 117, 1240-1242.	1.1	3
71	Low temperature synthesis of tetragonal BaTiO3 by using molten salt. Journal of the Ceramic Society of Japan, 2010, 118, 738-740.	1.1	3
72	Synthesis of LiCoO2 via a facile hydrothermal-assisted route. Journal of the Ceramic Society of Japan, 2011, 119, 538-540.	1.1	3

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73	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
74	Hybridization of layered zirconium phosphate with azo compounds and its photoresponsivity and adsorption of rare earth elements. Journal of the Ceramic Society of Japan, 2019, 127, 830-836.	1.1	3
75	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
76	Hydrothermal synthesis and crystal structure of a mixed-valence pyrochlore-type strontium bismuthate, (Sr_{0.75}Bi_{0.25})₂Bi₂O_{6.83}. Journal of the Ceramic Society of Japan, 2020, 128, 660-663.	1.1	3
77	Crystal structure of pseudobrookite-type Mg5Nb4O15 from 293 to 1117 K. Journal of the Ceramic Society of Japan, 2009, 117, 489-493.	1.1	2
78	Hydrothermal Synthesis of BiFeO₃ Fine Particles. Transactions of the Materials Research Society of Japan, 2013, 38, 53-55.	0.2	2
79	Photocatalytic Activities of Layered Niobate Perovskite (A'An^|^minus;1NbnO3n+1, A: Ca, La) with Substitution of Ti and W for Nb. Journal of Ion Exchange, 2014, 25, 242-247.	0.3	2
80	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
81	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
82	Photocatalytic activity of RBi₂O₄NO₃ (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
83	Preparation of Transition Metal-Mesoporous Silica Hybrid for Adsorbent Materials. Journal of Ion Exchange, 2007, 18, 604-609.	0.3	2
84	Synthesis and Crystal Structure of Hollandite-Type K_{<I>x</I>}Nb_{<I>y</I>}Ti_{8 - <I>y</I>}O₁₆ (<I>x</I> ≤) Tj ET Q q 0 0 1 gBT /Overl	1.3	2
85	Hydrothermal synthesis and crystal structure of a new rubidium sodium niobium fluoride, RbNaNbF₇. Journal of the Ceramic Society of Japan, 2022, 130, 232-235.	1.1	1
86	Preparation and crystal structure of [enH2]0.5[Ho(HPO4)(SO4)(H2O)] (en; ethylenediamine). Journal of the Ceramic Society of Japan, 2010, 118, 236-240.	1.1	0
87	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
88	Ion-exchange Reaction of Hydroxyapatites with Eu3+ and Tb3+ Ions. Journal of Ion Exchange, 2003, 14, 153-156.	0.3	0
89	New development of inorganic ion exchanger: Ion-Exchange of Na+ Ion in Na0.95Mo2O4. Journal of Ion Exchange, 2005, 16, 55-59.	0.3	0