

# Takayuki Ban

## List of Publications by Year in descending order

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66  
papers

2,254  
citations

331670

21  
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223800

46  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tin doped indium oxide thin films: Electrical properties. <i>Journal of Applied Physics</i> , 1998, 83, 2631-2645.	2.5	841
2	Synthesis of Zeolite L. Tuning Size and Morphology. <i>Monatshefte für Chemie</i> , 2005, 136, 77-89.	1.8	173
3	Optical, structural, and electrical properties of indium oxide thin films prepared by the sol-gel method. <i>Journal of Applied Physics</i> , 1997, 82, 865-870.	2.5	149
4	Electronic transport in tin-doped indium oxide thin films prepared by sol-gel technique. <i>Journal of Applied Physics</i> , 1998, 83, 2139-2141.	2.5	85
5	Synthesis and Characterization of Halogen-free, Transparent, Aqueous Colloidal Titanate Solutions from Titanium Alkoxide. <i>Chemistry of Materials</i> , 2002, 14, 3082-3089.	6.7	83
6	Development of New Modifiers for Titanium Alkoxide-Based Sol-Gel Process. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 17, 227-238.	2.4	47
7	Crystallization and Microstructure Development of Sol-Gel-Derived Titanium Dioxide Thin Films with Single and Multiple Layers. <i>Journal of the American Ceramic Society</i> , 1999, 82, 2601-2606.	3.8	38
8	Effect of Processing Parameters on Physical Properties of Cadmium Stannate Thin Films Prepared by a Dip-Coating Technique. <i>Journal of the American Ceramic Society</i> , 2001, 84, 85-91.	3.8	37
9	Preparation of a Completely Oriented Molecular Sieve Membrane. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3324-3326.	13.8	36
10	Selective Modification of the Channel Entrances of Zeolite L with Triethoxysilylated Coumarin. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16348-16352.	2.6	32
11	Low-Temperature Crystallization of Forsterite and Orthoenstatite. <i>Journal of the American Ceramic Society</i> , 1999, 82, 22-26.	3.8	31
12	Crystallization and crystal morphology of silicalite-1 prepared from silica gel using different amines as a base. <i>Journal of Crystal Growth</i> , 2005, 274, 594-602.	1.5	30
13	Microstructure of Six-Pointed Starlike Anatase Aggregates. <i>Crystal Growth and Design</i> , 2008, 8, 935-940.	3.0	30
14	Preparation and Characterization of Titania Thin Films from Aqueous Solutions. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 799-802.	2.4	28
15	Influence of the addition of alkanolamines and tetramethylammonium hydroxide on the shape and size of zeolite-A particles. <i>Solid State Sciences</i> , 1999, 1, 243-251.	0.7	23
16	Effect of $\beta$ -Hydroxyketones as Chelate Ligands on Dip-Coating of Zirconia Thin Films. <i>Journal of Sol-Gel Science and Technology</i> , 2002, 25, 43-50.	2.4	23
17	Aqueous Titanate Sols from Ti Alkoxide- $\beta$ -Hydroxycarboxylic Acid System and Preparation of Titania Films from the Sols. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 30, 71-81.	2.4	23
18	Synthesis of transparent aqueous sols of colloidal layered niobate nanocrystals at room temperature. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 85-91.	9.4	23

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19	Size-controlled synthesis of anisotropic TiO <sub>2</sub> single nanocrystals using microwave irradiation and their application for dye-sensitized solar cells. Dalton Transactions, 2013, 42, 3295.	3.3	23
20	Humidity-Sensing Characteristics of Divalent-Metal-Doped Indium Oxide Thin Films. Journal of the American Ceramic Society, 1998, 81, 321-327.	3.8	22
21	Synthesis of zeolite L crystals with different shapes. Journal of Porous Materials, 2007, 14, 119-126.	2.6	22
22	Fabrication of Ga <sub>2</sub> O <sub>3</sub> thin films by aqueous solution deposition. Journal of the Ceramic Society of Japan, 2009, 117, 973-977.	1.1	21
23	Phase Transition between Layered Tungstates and Polyoxotungstates in Aqueous Solutions. Inorganic Chemistry, 2013, 52, 10520-10524.	4.0	19
24	NaSi and Si clathrate prepared on Si substrate. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1739-1741.	0.8	19
25	A thin film of a type II Ge clathrate epitaxially grown on a Ge substrate. CrystEngComm, 2016, 18, 5630-5638.	2.6	18
26	Solid Solubility of SnO <sub>2</sub> in In <sub>2</sub> O <sub>3</sub> . Journal of the Ceramic Society of Japan, 2000, 108, 803-806.	1.3	17
27	Reaction of Titanium Isopropoxide with Alkanolamines and Association of the Resultant Ti Species. Journal of Sol-Gel Science and Technology, 2003, 27, 363-372.	2.4	17
28	Photocatalysis of a transparent titanate aqueous sol prepared from titanium tetraisopropoxide and tetramethylammonium hydroxide. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 156, 219-225.	3.9	17
29	Equilibrium Dependence of the Conductivity of Pure and Tin-Doped Indium Oxide on Oxygen Partial Pressure and Formation of an Intrinsic Defect Cluster. Journal of the American Ceramic Society, 2008, 91, 240-245.	3.8	17
30	Synthesis of layered tantalate nanocrystals by aqueous process at room temperature. CrystEngComm, 2012, 14, 7709.	2.6	17
31	Thin-film formation of Si clathrates on Si wafers. Journal of Physics and Chemistry of Solids, 2014, 75, 518-522.	4.0	17
32	Bottom-Up Synthesis of Titanate Nanosheets in Aqueous Sols and Their Morphology Change by the Addition of Organic Ligands and Dialysis. Crystal Growth and Design, 2015, 15, 1801-1807.	3.0	16
33	Microstructure of Sol-Gel ZnO Thin Films Fabricated Using Ethanolamine and Hydroxyketone Modifiers. Journal of the Ceramic Society of Japan, 2005, 113, 220-225.	1.3	15
34	Synthesis of zinc oxide crystals with different shapes from zincate aqueous solutions stabilized with triethanolamine. Crystal Research and Technology, 2007, 42, 849-855.	1.3	15
35	Complex changes in the framework of endohedrally Na-doped type II Si clathrates with respect to Na content. Journal of Materials Science, 2013, 48, 989-996.	3.7	15
36	Fabrication of titania films by sol-gel method using transparent colloidal aqueous solutions of anatase nanocrystals. Thin Solid Films, 2011, 519, 3468-3474.	1.8	12

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37	Comparison of organic ligand effects on morphology control between disc-like zeolite L crystals and zeolite A and W crystals. <i>Materials Chemistry and Physics</i> , 2013, 137, 1067-1072.	4.0	12
38	Cation distribution of pseudobrookite-type titanates and their phase stability. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 695-700.	1.1	12
39	Dielectric and piezoelectric properties of dense and porous PZT films prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 42, 397-405.	2.4	11
40	Hydrothermal synthesis of highly water-dispersible anatase nanocrystals from transparent aqueous sols of titanate colloids. <i>Journal of Nanoparticle Research</i> , 2011, 13, 273-281.	1.9	11
41	Bottom-up synthesis of aluminophosphate nanosheets by hydrothermal process. <i>Advanced Powder Technology</i> , 2018, 29, 537-542.	4.1	11
42	Preparation of lamellar hybrid inorganic-organic films of layered titanate and cationic or anionic surfactants. <i>Thin Solid Films</i> , 2008, 516, 4863-4867.	1.8	10
43	Fabrication of zeolite L thin films with different orientations using anisotropic growth of seed crystals by secondary growth method. <i>Materials Chemistry and Physics</i> , 2008, 109, 347-351.	4.0	10
44	Hydrothermal Synthesis of Oriented Anatase Films Consisting of Columnar Aggregates and Their Wetting Properties. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1230-1235.	3.8	10
45	Morphology of anatase crystals and their aggregates synthesized hydrothermally from aqueous mixtures of titanium alkoxide and different alkylammonium hydroxides. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 268-272.	1.1	10
46	Influence of the negative charge density of metalate nanosheets on their bottom-up synthesis. <i>CrystEngComm</i> , 2018, 20, 3559-3568.	2.6	10
47	Hydrothermal Synthesis of Layered Perovskite-Structured Metal Oxides and Cesium Tungstate Nanosheets. <i>Crystal Growth and Design</i> , 2019, 19, 6903-6910.	3.0	10
48	Preparation of NaSi thin films for the guest free Si clathrate thin films by heat resistance apparatus using NaSi target materials. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 1200-1202.	0.8	9
49	Lead Zirconate Titanate Thick Films Fabricated from Sols with and without Its Powder. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 270-274.	1.5	7
50	Silicalite-I Synthesis from Silicate Aqueous Solutions Including Amines as a Base. <i>Journal of Porous Materials</i> , 2005, 12, 255-263.	2.6	7
51	Bottom-up synthesis of titanate nanoflakes and nanosheets in ionic liquid solvents. <i>CrystEngComm</i> , 2016, 18, 8731-8738.	2.6	7
52	Bottom-up synthesis of titanophosphate nanosheets by the aqueous solution process. <i>Nanoscale Advances</i> , 2020, 2, 3542-3549.	4.6	7
53	Hydrothermal synthesis of highly pure brookite-type titanium oxide powder from aqueous sols of titanate nanosheets. <i>Advanced Powder Technology</i> , 2021, 32, 3601-3609.	4.1	7
54	Orientation of tungsten trioxide thin films fabricated by sol-gel method using aqueous sols of colloidal layered tungstates. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 68, 88-94.	2.4	6

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55	Electron spin resonance, dynamic Jahn-Teller effect, and electric transport mechanism in Na-doped type II silicon clathrates. Journal of Physics and Chemistry of Solids, 2020, 140, 109358.	4.0	5
56	Reaction of Molten Aluminum with MgO and Formation of $MgAl_2O_4$ Spinel at 1000°C. Materials Transactions, 2020, 61, 339-345.	1.2	5
57	Rectifying Properties of Oxide Semiconductor Heterostack Films at Elevated Temperatures. Journal of Sol-Gel Science and Technology, 2005, 33, 323-326.	2.4	3
58	Microstructures formed by secondary growth of fired ZSM-5 seed crystals. Journal of Porous Materials, 2008, 15, 405-410.	2.6	3
59	Bottom-up synthesis of ruthenate nanosheets by aqueous solution process. Journal of Sol-Gel Science and Technology, 2022, 104, 536-547.	2.4	3
60	Gas Sensing Properties of $Al_2O_3/SnO_2/SnO_2$ Multilayered Films Modified with Pt.. Journal of the Ceramic Society of Japan, 2002, 110, 950-953.	1.3	2
61	Microstructure and Stress-Induced Phase Transformation of Sol-Gel Derived Zirconia Thin Films. Journal of the Ceramic Society of Japan, 2006, 114, 411-414.	1.3	2
62	Influence of Si species on intergrowth and anisotropic crystal growth of silicalite-1. Journal of Porous Materials, 2014, 21, 337-344.	2.6	2
63	Preparation of Mesoporous Titania Thin Films and Their Photocatalytic Activity. Transactions of the Materials Research Society of Japan, 2018, 43, 223-228.	0.2	2
64	Dependence of electrical conductivity of $\hat{\Gamma}^2-Ga_2O_3$ ceramics on oxygen partial pressure and formation of dislocations. Journal of the Ceramic Society of Japan, 2021, 129, 254-260.	1.1	2
65	Light absorption and photocatalysis of flake-like titanate nanosheets chemically modified by organic ligands. Journal of the Ceramic Society of Japan, 2020, 128, 890-897.	1.1	2
66	Electron-Spin Resonance of Type II Si-Clathrate Thin Film for New Solar Cell Material. Springer Proceedings in Energy, 2017, , 213-219.	0.3	1