

Takashi Iijima

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of (Na,K)-Excess Precursor Solutions on Alkoxy-Derived (Na,K)NbO ₃ Powders and Thin Films. Japanese Journal of Applied Physics, 2007, 46, 6964.	1.5	103
2	Piezoelectric properties of high Curie temperature barium titanate-bismuth perovskite-type oxide system ceramics. Journal of Applied Physics, 2010, 108, .	2.5	78
3	Crystal Structure Analysis of Epitaxial BiFeO ₃ -BiCoO ₃ Solid Solution Films Grown by Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2007, 46, 6948-6951.	1.5	48
4	The finding of crystallographic orientation dependence of hydrogen diffusion in austenitic stainless steel by scanning Kelvin probe force microscopy. Scripta Materialia, 2017, 131, 47-50.	5.2	47
5	Crystal Structure and Electrical Properties of {100}-Oriented Epitaxial BiCoO ₃ -BiFeO ₃ Films Grown by Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2008, 47, 7582.	1.5	40
6	Crystal structure, electrical properties, and mechanical response of (100)-(001)-oriented epitaxial Pb(Mg _{1-x} Nb _{2x-3})O ₃ -PbTiO ₃ films grown on (100)cSrRuO ₃ -(100)SrTiO ₃ substrates by metal-organic chemical vapor deposition. Journal of Applied Physics, 2006, 100, 054110.	2.5	36
7	Internal Reversible Hydrogen Embrittlement of Austenitic Stainless Steels Based on Type 316 at Low Temperatures. ISIJ International, 2012, 52, 240-246.	1.4	36
8	Enhancement of ferroelectric and magnetic properties in BiFeO ₃ films by small amount of cobalt addition. Journal of Applied Physics, 2008, 103, .	2.5	35
9	Improvement in Ferroelectric Properties of Chemically Synthesized Lead-Free Piezoelectric (K,Na)(Nb,Ta)O ₃ Thin Films by Mn Doping. Japanese Journal of Applied Physics, 2010, 49, 09MA04.	1.5	34
10	Acceptor Doped BiFeO ₃ Ceramics: A New Material for Oxygen Permeation Membranes. Japanese Journal of Applied Physics, 2007, 46, L93-L96.	1.5	33
11	Influence of volatile element composition and Mn doping on the electrical properties of lead-free piezoelectric (Bi _{0.5} Na _{0.5})TiO ₃ thin films. Sensors and Actuators A: Physical, 2013, 200, 60-67.	4.1	26
12	Strong growth orientation dependence of strain relaxation in epitaxial (Ba,Sr)TiO ₃ films and the resulting dielectric properties. Journal of Applied Physics, 2011, 109, .	2.5	24
13	Oxygen permeability of nanocrystalline Ce _{0.8} Gd _{0.2} O _{1.9} -CoFe ₂ O ₄ mixed-conductive films. Journal of Membrane Science, 2006, 286, 180-184.	8.2	23
14	Effects of Pt Bottom Electrode Layers and Thermal Process on Crystallinity of Alkoxy-Derived (Na,K)NbO ₃ Thin Films. Japanese Journal of Applied Physics, 2007, 46, 1094-1099.	1.5	23
15	Preparation of barium titanate-bismuth magnesium titanate ceramics with high Curie temperature and their piezoelectric properties. Journal of the Ceramic Society of Japan, 2010, 118, 683-687.	1.1	23
16	Spontaneous polarization estimation from the soft mode in strain-free epitaxial polar axis-oriented Pb(Zr,Ti)O ₃ thick films with tetragonal symmetry. Applied Physics Letters, 2011, 98, .	3.3	23
17	Synthesis of 10- μ m-Thick Lead Zirconate Titanate Films on 2-in. Si Substrates for Piezoelectric Film Devices. International Journal of Applied Ceramic Technology, 2006, 3, 442-447.	2.1	22
18	Annealing Temperature Dependences of Ferroelectric and Magnetic Properties in Polycrystalline Co-Substituted BiFeO ₃ Films. Japanese Journal of Applied Physics, 2008, 47, 7574-7578.	1.5	20

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19	Orientation control of (001) and (101) in epitaxial tetragonal Pb(Zr,Ti)O ₃ films with (100)/(001) and (110)/(101) mixture orientations. Journal of the Ceramic Society of Japan, 2010, 118, 627-630.	1.1	18
20	Enhancement of magnetization at morphotropic phase boundary in epitaxial BiCoO ₃ -BiFeO ₃ solid solution films grown on SrTiO ₃ (100) substrates. Journal of Applied Physics, 2011, 109, .	2.5	18
21	Composition control and thickness dependence of {100}-oriented epitaxial BiCoO ₃ â€“BiFeO ₃ films grown by metalorganic chemical vapor deposition. Journal of Applied Physics, 2009, 105, 061620.	2.5	17
22	Optical Properties of BiFeO ₃ -System Multiferroic Thin Films. Japanese Journal of Applied Physics, 2009, 48, 09KB01.	1.5	17
23	Effect of Heat-Treatment on High-Pressure Hydrogen Gas Embrittlement of Austenitic Stainless Steels. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 139-145.	0.4	15
24	Transmission of 100-MHz-range ultrasound through a fused quartz fiber. Journal of Medical Ultrasonics (2001), 2011, 38, 119-127.	1.3	15
25	Growth of (111)-oriented BaTiO ₃ â€“Bi(Mg _{0.5} Ti _{0.5})O ₃ epitaxial films and their crystal structure and electrical property characterizations. Journal of Applied Physics, 2012, 111, .	2.5	15
26	Composition Dependence of Crystallinity for Lead-Free (Li, Na, K)NbO ₃ Powder and Thin Films Fabricated by Sol-Gel Process. Ferroelectrics, 2007, 358, 175-180.	0.6	13
27	Direct observation of 90Â° domain switching in lead zirconate titanate thick films using x-ray diffraction. Applied Physics Letters, 2007, 90, 262905.	3.3	13
28	High temperature stability of the dielectric and insulating properties of Ca(Ti, Zr)SiO ₅ ceramics. Applied Physics Letters, 2016, 108, .	3.3	11
29	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
30	Tissue imaging using the transmission of 100-MHz-range ultrasound through a fused quartz fiber. , 2013, , .		10
31	Development of a 3D tactile sensor. Journal of Materials Processing Technology, 2007, 181, 286-290.	6.3	9
32	Combinatorial preparation process of Pb(Zr _{1-x} Ti _x)O ₃ thin films by chemical solution deposition method. Journal of the Ceramic Society of Japan, 2009, 117, 698-702.	1.1	9
33	Synthesis and characterization of multiferroic Pb(Zr,Ti)O ₃ /CoFe ₂ O ₄ /Pb(Zr,Ti)O ₃ layered composite thin films by chemical solution deposition. Journal of the Ceramic Society of Japan, 2013, 121, 614-618.	1.1	9
34	Unusual 90Â° domain structure in (2/3)Bi(Zn _{1/2} Ti _{1/2})O ₃ -(1/3)BiFeO ₃ epitaxial films with giant 22% tetragonal distortion. Applied Physics Letters, 2013, 103, .	3.3	8
35	Electrical Properties of Lead-Free Ferroelectric Mn-Doped K _{0.5} Na _{0.5} NbO ₃ â€“CaZrO ₃ Thin Films Prepared by Chemical Solution Deposition. Japanese Journal of Applied Physics, 2012, 51, 09LA03.	1.5	7
36	Wideband Multimode Excitation by a Double-Parabolic-Reflector Ultrasonic Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1620-1631.	3.0	7

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37	Electrooptic and Piezoelectric Properties of (Pb,La)(Zr,Ti)O ₃ Films with Various Zr/Ti Ratios. Japanese Journal of Applied Physics, 2008, 47, 7541-7544.	1.5	6
38	Internal Reversible Hydrogen Embrittlement of Austenitic Stainless Steels Based on Type 316 at Low Temperatures. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2013, 99, 294-301.	0.4	6
39	Effect of a driving electric field waveform on piezoelectric displacement of PZT thick films. Journal of the Ceramic Society of Japan, 2010, 118, 640-643.	1.1	5
40	Influence of Ba/Sr ratio in compressively-strained (Ba,Sr)TiO ₃ (001) films on the ferroelectric phase transition. Journal of the Ceramic Society of Japan, 2013, 121, 690-692.	1.1	5
41	Double-Parabolic-Reflectors Ultrasonic Transducer With Flexible Waveguide for Minimally Invasive Treatment. IEEE Transactions on Biomedical Engineering, 2021, 68, 2965-2973.	4.2	5
42	CRYSTAL ORIENTATION ANISOTROPY OF EPITAXIAL Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ THICK FILMS GROWN BY MOCVD. Integrated Ferroelectrics, 2006, 80, 67-76.	0.7	4
43	THE OPTICAL PROPERTY OF MULTIFERROIC BiFeO ₃ FILMS. Integrated Ferroelectrics, 2009, 106, 11-16.	0.7	4
44	High-frequency piezoelectric displacement of PZT films measured using twin-beam laser doppler vibrometer. Journal of the Ceramic Society of Japan, 2010, 118, 842-846.	1.1	4
45	Development of New Material Testing Apparatus in 230 MPa Hydrogen and Evaluation of Hydrogen Gas Embrittlement of Metals. , 2008, , .		3
46	Electric-Field-Induced Transverse Displacement in Pt/Pb(Zr,Ti)O ₃ Film/Pt/Si Structure. Japanese Journal of Applied Physics, 2009, 48, 09KA04.	1.5	3
47	Crystal Structure Analysis of High T_C Barium Titanate “ Bismuth Perovskite-Type Oxide System Ceramics and their Piezoelectric Property. Key Engineering Materials, 0, 445, 23-26.	0.4	3
48	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
49	Hard-Type Piezoelectric Materials Based Double-Parabolic-Reflectors Ultrasonic Transducer (DPLUS) for High-Power Ultrasound. IEEE Access, 2022, 10, 26117-26126.	4.2	3
50	Preparation of Bi ₄ Ti ₃ O ₁₂ Based Thick Films by Screen Printing. Key Engineering Materials, 2007, 350, 115-118.	0.4	2
51	Crystal Structure Analysis of Barium Titanate “ Bismuth Perovskite-Type Oxide System Ceramics and their Piezoelectric Property. Key Engineering Materials, 0, 421-422, 38-41.	0.4	2
52	Fabrication of conductive oxide polycrystalline BaPbO ₃ films by chemical solution deposition and their electrical resistivity. Journal of Electroceramics, 2009, 22, 78-81.	2.0	2
53	Hydrogen-Assisted Twin Boundary Fracture of Type 304 Austenitic Stainless Steel at Low Temperature Investigated by Scanning Probe Microscopy. , 2013, , .		2
54	Micromechanisms of Hydrogen-Assisted Cracking in Super Duplex Stainless Steel Investigated by Scanning Probe Microscopy. , 2014, , .		2

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55	Phase Shift of a Coplanar Waveguide by Bias Voltage on Thick Lead Zirconate Titanate Film at Microwave Frequency. Japanese Journal of Applied Physics, 2008, 47, 7711-7715.	1.5	1
56	Influence of Pb and La contents on the lattice configuration of La-substituted Pb(Zr,Ti)O ₃ films fabricated by CSD method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 687-692.	3.0	1
57	Piezoelectric Endurance Properties of Lead Zirconate Titanate Thick Films for Micro-Device Applications. Ferroelectrics, 2009, 389, 49-54.	0.6	1
58	Internal Reversible Hydrogen Embrittlement and Hydrogen Gas Embrittlement of Austenitic Stainless Steels Based on Type 316. , 2009, , .		1
59	Thermooptic Property of Polycrystalline BiFeO ₃ Film. Japanese Journal of Applied Physics, 2011, 50, 09NB02.	1.5	1
60	Synthesis and Properties of Mn-Doped (Bi _{0.5} Na _{0.5})TiO ₃ Thin Films by Chemical Solution Deposition. Key Engineering Materials, 0, 582, 59-62.	0.4	1
61	Impedance response of lead zirconate titanate thick film structures on silicon substrates for a high frequency ultrasonic transducer. Journal of the Ceramic Society of Japan, 2013, 121, 670-674.	1.1	1
62	Measurement of Fracture Properties for Ferritic Steel in High-Pressure Hydrogen Gas. , 2014, , .		1
63	Effect of Gaseous Hydrogen Charging on Nanohardness of Austenitic Stainless Steels. , 2016, , .		1
64	Structural and ferroelectric properties of BiFeO ₃ -BiCoO ₃ solid solution films. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
65	Characteristic Comparison of Epitaxial PZT and PMN-PT Films Grown On (100)Bi ₂ Ca/SrRuO ₃ /(100)SrTiO ₃ Substrates By Metalorganic Chemical Vapor Deposition. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
66	Preparation and characterization of Bi-perovskite oxide films for piezo applications. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
67	Composition dependence of electrooptic property of epitaxial (Pb,Lu)(Zr,Ti)O ₃ films. Journal of the Ceramic Society of Japan, 2010, 118, 636-639.	1.1	0
68	Effect of Nitrogen on Hydrogen Embrittlement of Austenitic Stainless Steels Based on Type 316LN. , 2010, , .		0
69	Noncontact probing method for estimation of ferroelectric properties of PbTiO ₃ -based films for microelectromechanical systems. Journal of Materials Research, 2012, 27, 1430-1435.	2.6	0