Takashi Iijima

List of Publications by Year
in descending order

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69	969	430874	477307
papers	citations	18 h-index	29 g-index

70	70	70	910
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hard-Type Piezoelectric Materials Based Double-Parabolic-Reflectors Ultrasonic Transducer (DPLUS) for High-Power Ultrasound. IEEE Access, 2022, 10, 26117-26126.	4.2	3
2	Double-Parabolic-Reflectors Ultrasonic Transducer With Flexible Waveguide for Minimally Invasive Treatment. IEEE Transactions on Biomedical Engineering, 2021, 68, 2965-2973.	4.2	5
3	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
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	Effect of Gaseous Hydrogen Charging on Nanohardness of Austenitic Stainless Steels. , 2016, , .		1
6	High temperature stability of the dielectric and insulating properties of Ca(Ti, Zr)SiO5 ceramics. Applied Physics Letters, 2016, 108, .	3.3	11
7	Measurement of Fracture Properties for Ferritic Steel in High-Pressure Hydrogen Gas. , 2014, , .		1
8	Micromechanisms of Hydrogen-Assisted Cracking in Super Duplex Stainless Steel Investigated by Scanning Probe Microscopy. , 2014, , .		2
9	Influence of volatile element composition and Mn doping on the electrical properties of lead-free piezoelectric (Bi0.5Na0.5)TiO3 thin films. Sensors and Actuators A: Physical, 2013, 200, 60-67.	4.1	26
10	Tissue imaging using the transmission of 100-MHz-range ultrasound through a fused quartz fiber. , 2013, , .		10
11	Unusual 90Â° domain structure in (2/3)Bi(Zn1/2Ti1/2)O3-(1/3)BiFeO3 epitaxial films with giant 22% tetragonal distortion. Applied Physics Letters, 2013, 103, .	3.3	8
12	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
13	Hydrogen-Assisted Twin Boundary Fracture of Type 304 Austenitic Stainless Steel at Low Temperature Investigated by Scanning Probe Microscopy. , 2013, , .		2
14	Synthesis and characterization of multiferroic Pb(Zr,Ti)O₃/CoFe₂O₄/Pb(Zr,Ti)O₃ layered composite thin films by chemical solution deposition. Journal of the Ceramic Society of Japan, 2013, 121, 614-618.	1.1	9
15	Influence of Ba/Sr ratio in compressively-strained (Ba,Sr)TiO₃(001) films on the ferroelectric phase transition. Journal of the Ceramic Society of Japan, 2013, 121, 690-692.	1.1	5
16	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
17	Noncontact probing method for estimation of ferroelectric properties of PbTiO₃-based films for microelectromechanical systems. Journal of Materials Research, 2012, 27, 1430-1435.	2.6	0
18	Growth of (111)-oriented BaTiO3â€“Bi(Mg0.5Ti0.5)O3 epitaxial films and their crystal structure and electrical property characterizations. Journal of Applied Physics, 2012, 111, .	2.5	15

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19	Electrical Properties of Lead-Free Ferroelectric Mn-Doped K_{0.5}Na_{0.5}NbO₃â€“CaZrO₃ Thin Films Prepared by Chemical Solution Deposition. Japanese Journal of Applied Physics, 2012, 51, 09LA03.	1.5	7
20	Internal Reversible Hydrogen Embrittlement of Austenitic Stainless Steels Based on Type 316 at Low Temperatures. ISIJ International, 2012, 52, 240-246.	1.4	36
21	Strong growth orientation dependence of strain relaxation in epitaxial (Ba,Sr)TiO3 films and the resulting dielectric properties. Journal of Applied Physics, 2011, 109, .	2.5	24
22	Spontaneous polarization estimation from the soft mode in strain-free epitaxial polar axis-oriented Pb(Zr,Ti)O3 thick films with tetragonal symmetry. Applied Physics Letters, 2011, 98, .	3.3	23
23	Enhancement of magnetization at morphotropic phase boundary in epitaxial BiCoO3-BiFeO3 solid solution films grown on SrTiO3 (100) substrates. Journal of Applied Physics, 2011, 109, .	2.5	18
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	Thermooptic Property of Polycrystalline BiFeO₃ Film. Japanese Journal of Applied Physics, 2011, 50, 09NB02.	1.5	1
26	Orientation control of (001) and (101) in epitaxial tetragonal Pb(Zr,Ti)O3 films with (100)/(001) and (110)/(101) mixture orientations. Journal of the Ceramic Society of Japan, 2010, 118, 627-630.	1.1	18
27	Composition dependence of electrooptic property of epitaxial (Pb,La)(Zr,Ti)O3 films. Journal of the Ceramic Society of Japan, 2010, 118, 636-639.	1.1	0
28	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
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	Low temperature synthesis of tetragonal BaTiO3 by using molten salt. Journal of the Ceramic Society of Japan, 2010, 118, 738-740.	1.1	3
31	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
32	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
33	Improvement in Ferroelectric Properties of Chemically Synthesized Lead-Free Piezoelectric (K,Na)(Nb,Ta)O₃ Thin Films by Mn Doping. Japanese Journal of Applied Physics, 2010, 49, 09MA04.	1.5	34
34	Effect of Nitrogen on Hydrogen Embrittlement of Austenitic Stainless Steels Based on Type 316LN. , 2010, , .		0
35	Piezoelectric properties of high Curie temperature barium titanateâ€“bismuth perovskite-type oxide system ceramics. Journal of Applied Physics, 2010, 108, .	2.5	78
36	Composition control and thickness dependence of {100}-oriented epitaxial BiCoO3â€“BiFeO3 films grown by metalorganic chemical vapor deposition. Journal of Applied Physics, 2009, 105, 061620.	2.5	17

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37	THE OPTICAL PROPERTY OF MULTIFERROIC BiFeO3 FILMS. Integrated Ferroelectrics, 2009, 106, 11-16.	0.7	4
38	Electric-Field-Induced Transverse Displacement in Pt/Pb(Zr,Ti)O3Film/Pt/Si Structure. Japanese Journal of Applied Physics, 2009, 48, 09KA04.	1.5	3
39	Fabrication of conductive oxide polycrystalline BaPbO3 films by chemical solution deposition and their electrical resistivity. Journal of Electroceramics, 2009, 22, 78-81.	2.0	2
40	Optical Properties of BiFeO₃-System Multiferroic Thin Films. Japanese Journal of Applied Physics, 2009, 48, 09KB01.	1.5	17
41	Influence of Pb and La contents on the lattice configuration of La-substituted Pb(Zr,Ti)O3 films fabricated by CSD method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 687-692.	3.0	1
42	Piezoelectric Endurance Properties of Lead Zirconate Titanate Thick Films for Micro-Device Applications. Ferroelectrics, 2009, 389, 49-54.	0.6	1
43	Internal Reversible Hydrogen Embrittlement and Hydrogen Gas Embrittlement of Austenitic Stainless Steels Based on Type 316. , 2009, , .		1
44	Combinatorial preparation process of Pb(Zr1-xTix)O3 thin films by chemical solution deposition method. Journal of the Ceramic Society of Japan, 2009, 117, 698-702.	1.1	9
45	Crystal Structure and Electrical Properties of {100}-Oriented Epitaxial BiCoO₃â€“BiFeO₃ Films Grown by Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2008, 47, 7582.	1.5	40
46	Enhancement of ferroelectric and magnetic properties in BiFeO3 films by small amount of cobalt addition. Journal of Applied Physics, 2008, 103, .	2.5	35
47	Annealing Temperature Dependences of Ferroelectric and Magnetic Properties in Polycrystalline Co-Substituted BiFeO3Films. Japanese Journal of Applied Physics, 2008, 47, 7574-7578.	1.5	20
48	Electrooptic and Piezoelectric Properties of (Pb,La)(Zr,Ti)O3Films with Various Zr/Ti Ratios. Japanese Journal of Applied Physics, 2008, 47, 7541-7544.	1.5	6
49	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
50	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
51	Development of New Material Testing Apparatus in 230 MPa Hydrogen and Evaluation of Hydrogen Gas Embrittlement of Metals. , 2008, , .		3
52	Composition Dependence of Crystallinity for Lead-Free (Li, Na, K)NbO₃Powder and Thin Films Fabricated by Sol-Gel Process. Ferroelectrics, 2007, 358, 175-180.	0.6	13
53	Effects of Pt Bottom Electrode Layers and Thermal Process on Crystallinity of Alkoxy-Derived (Na,K)NbO3Thin Films. Japanese Journal of Applied Physics, 2007, 46, 1094-1099.	1.5	23
54	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

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55	Effect of (Na,K)-Excess Precursor Solutions on Alkoxy-Derived (Na,K)NbO₃ Powders and Thin Films. Japanese Journal of Applied Physics, 2007, 46, 6964.	1.5	103
56	Acceptor Doped BiFeO3Ceramics: A New Material for Oxygen Permeation Membranes. Japanese Journal of Applied Physics, 2007, 46, L93-L96.	1.5	33
57	Preparation of Bi₄Ti₃O₁₂ Based Thick Films by Screen Printing. Key Engineering Materials, 2007, 350, 115-118.	0.4	2
58	Structural and ferroelectric properties of BiFeO<inf>3</inf>-BiCoO<inf>3</inf> solid solution films. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
59	Characteristic Comparison of Epitaxial PZT and PMN-PT Films Grown On (100)<inf>c</inf>SrRuO<inf>3</inf>//(100)SrTiO<inf>3</inf> Substrates By Metalorganic Chemical Vapor Deposition. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
60	Crystal Structure Analysis of Epitaxial BiFeO3â€“BiCoO3Solid Solution Films Grown by Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2007, 46, 6948-6951.	1.5	48
61	Preparation and characterization of Bi-perovskite oxide films for piezo applications. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
62	Development of a 3D tactile sensor. Journal of Materials Processing Technology, 2007, 181, 286-290.	6.3	9
63	Synthesis of 10-?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
64	Oxygen permeability of nanocrystalline Ce0.8Gd0.2O1.9â€“CoFe2O4 mixed-conductive films. Journal of Membrane Science, 2006, 286, 180-184.	8.2	23
65	Crystal structure, electrical properties, and mechanical response of (100)-/(001)-oriented epitaxial Pb(Mg1â•3Nb2â•3)O3â€“PbTiO3 films grown on (100)cSrRuO3â€–(100)SrTiO3 substrates by metal-organic chemical vapor deposition. Journal of Applied Physics, 2006, 100, 054110.	2.5	36
66	CRYSTAL ORIENTATION ANISOTROPY OF EPITAXIAL Pb(Mg1/3Nb2/3)O3-PbTiO3 THICK FILMS GROWN BY MOCVD. Integrated Ferroelectrics, 2006, 80, 67-76.	0.7	4
67	Crystal Structure Analysis of Barium Titanate â€“ Bismuth Perovskite-Type Oxide System Ceramics and their Piezoelectric Property. Key Engineering Materials, 0, 421-422, 38-41.	0.4	2
68	Crystal Structure Analysis of High T_C Barium Titanate â€“ Bismuth Perovskite-Type Oxide System Ceramics and their Piezoelectric Property. Key Engineering Materials, 0, 445, 23-26.	0.4	3
69	Synthesis and Properties of Mn-Doped (Bi_{0.5}Na_{0.5})TiO₃ Thin Films by Chemical Solution Deposition. Key Engineering Materials, 0, 582, 59-62.	0.4	1