Takanori Kiguchi

List of Publications by Year
in descending order

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169	2,762	257450 24	206112 48
papers	citations	h-index	g-index

176	176	176	2835
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced piezoelectric properties of barium titanate single crystals with different engineered-domain sizes. Journal of Applied Physics, 2005, 98, 014109.	2.5	319
2	High-Î¤ Dielectric Nanofilms Fabricated from Titania Nanosheets. Advanced Materials, 2006, 18, 1023-1027.	21.0	206
3	The demonstration of significant ferroelectricity in epitaxial Y-doped HfO2 film. Scientific Reports, 2016, 6, 32931.	3.3	194
4	Impact of mechanical stress on ferroelectricity in (Hf0.5Zr0.5)O2 thin films. Applied Physics Letters, 2016, 108, .	3.3	187
5	Growth of epitaxial orthorhombic YO1.5-substituted HfO2 thin film. Applied Physics Letters, 2015, 107, .	3.3	123
6	Ferroelectricity mediated by ferroelastic domain switching in HfO2-based epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.3	69
7	Contribution of oxygen vacancies to the ferroelectric behavior of Hf0.5Zr0.5O2 thin films. Applied Physics Letters, 2015, 106, .	3.3	65
8	Metalloid substitution elevates simultaneously the strength and ductility of face-centered-cubic high-entropy alloys. Acta Materialia, 2022, 225, 117571.	7.9	64
9	Growth of (111)-oriented epitaxial and textured ferroelectric Y-doped HfO2 films for downscaled devices. Applied Physics Letters, 2016, 109, .	3.3	62
10	Preparation of ferromagnetic zinc-ferrite thin film by pulsed laser deposition in the magnetic field. Journal of Magnetism and Magnetic Materials, 2007, 310, 2546-2548.	2.3	58
11	Orientation control and domain structure analysis of {100}-oriented epitaxial ferroelectric orthorhombic HfO2-based thin films. Journal of Applied Physics, 2016, 119, .	2.5	57
12	Ruddlesdenâ€Popperâ€Type Epitaxial Film as Oxygen Electrode for Solidâ€Oxide Fuel Cells. Advanced Materials, 2008, 20, 4124-4128.	21.0	55
13	Ferroelectric and Magnetic Properties in Roomâ€Temperature Multiferroic Ga_xFe_{2â^'}_xO₃ Epitaxial Thin Films. Advanced Functional Materials, 2018, 28, 1704789.	14.9	44
14	Bulk and domain-wall effects in ferroelectric photovoltaics. Physical Review B, 2016, 94, .	3.2	43
15	Configuration and local elastic interaction of ferroelectric domains and misfit dislocation in PbTiO₃/SrTiO₃epitaxial thin films. Science and Technology of Advanced Materials, 2011, 12, 034413.	6.1	41
16	Effect of the film thickness on the crystal structure and ferroelectric properties of (Hf 0.5 Zr 0.5)O 2 thin films deposited on various substrates. Materials Science in Semiconductor Processing, 2017, 70, 239-245.	4.0	41
17	On the atomic structure of Î³â€³ phase in Mg-Zn-Gd alloy. Scripta Materialia, 2018, 146, 64-67.	5.2	37
18	Simultaneous enhanced photon capture and carrier generation in Si solar cells using Ge quantum dot photonic nanocrystals. Nanotechnology, 2012, 23, 185401.	2.6	36

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19	Structural and Compositional Modulation in Transformation of LPSO Structure in Mg₉₇Zn₁Y₂ Cast Alloys. Materials Transactions, 2013, 54, 668-674.	1.2	35
20	Solid state epitaxy of (Hf,Zr)O₂ thin films with orthorhombic phase. Journal of the Ceramic Society of Japan, 2016, 124, 689-693.	1.1	34
21	Effects of heat treatment and in situ high-temperature X-ray diffraction study on the formation of ferroelectric epitaxial Y-doped HfO₂ film. Japanese Journal of Applied Physics, 2019, 58, SBBB09.	1.5	34
22	In-Plane and Out-of-Plane Ferroelectric Instabilities in EpitaxialSrTiO3Films. Physical Review Letters, 2006, 96, 157602.	7.8	30
23	Formation of the orthorhombic phase in CeO2-HfO2 solid solution epitaxial thin films and their ferroelectric properties. Applied Physics Letters, 2019, 114, .	3.3	30
24	Formation of (111) orientation-controlled ferroelectric orthorhombic HfO2 thin films from solid phase via annealing. Applied Physics Letters, 2016, 109, .	3.3	29
25	Step coverage study of indium-tin-oxide thin films by spray CVD on non-flat substrates at different temperatures. Thin Solid Films, 2008, 516, 5864-5867.	1.8	23
26	Fabrication of ferroelectric Fe doped HfO₂ epitaxial thin films by ion-beam sputtering method and their characterization. Japanese Journal of Applied Physics, 2018, 57, 11UF02.	1.5	23
27	Electricâ€Fieldâ€Induced Ferroelectricity in 5%Yâ€doped Hf_{0.5}Zr_{0.5}O₂: Transformation from the Paraelectric Tetragonal Phase to the Ferroelectric Orthorhombic Phase. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000589.	2.4	23
28	Crystal Structure Analysis of Hydrothermally Synthesized Epitaxial (K_xNa_{1-x})NbO₃ Films. Japanese Journal of Applied Physics, 2013, 52, 09KA11.	1.5	22
29	Negligible substrate clamping effect on piezoelectric response in (111)-epitaxial tetragonal Pb(Zr, Ti)O3 films. Journal of Applied Physics, 2015, 118, .	2.5	21
30	Current oscillation behavior of the O2/O2â¨' redox couple at a HMDE in non-aqueous aprotic media. Journal of Electroanalytical Chemistry, 2001, 496, 61-68.	3.8	19
31	RF-magnetron-sputtered heteroepitaxial YSZ and CeO2/YSZ/Si(001) thin films with improved capacitanceâ€"voltage characteristics. Thin Solid Films, 2002, 411, 268-273.	1.8	19
32	Magnetic-field-induced spontaneous superlattice formation via spinodal decomposition in epitaxial strontium titanate thin films. NPG Asia Materials, 2016, 8, e279-e279.	7.9	19
33	Effects of starting materials on the deposition behavior of hydrothermally synthesized {1â€¯0â€¯0} -oriented epitaxial (K,Na)NbO3 thick films and their ferroelectric and piezoelectric properties. Journal of Crystal Growth, 2019, 511, 1-7.	1.5	18
34	Valence-EELS analysis of local electronic and optical properties of PMNâ€"PT epitaxial film. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 161, 160-165.	3.5	17
35	Molecular Dynamics Simulation of 90Â° Ferroelectric Domains in PbTiO₃. Journal of the Physical Society of Japan, 2012, 81, 124702.	1.6	17
36	Enhanced photovoltaic effects in ferroelectric solid solution thin films with nanodomains. Applied Physics Letters, 2020, 116, .	3.3	17

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37	Crystal Structure and Dielectric Property of Bismuth Layer-Structured Dielectric Films withc-Axis Preferential Crystal Orientation. Japanese Journal of Applied Physics, 2010, 49, 09MA02.	1.5	16
38	Domain orientation relationship of orthorhombic and coexisting monoclinic phases of YO_{1.5}-doped HfO₂ epitaxial thin films. Japanese Journal of Applied Physics, 2018, 57, 11UF16.	1.5	16
39	Fabrication and optical properties of Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ thin films on Si substrates using the PLD method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1023-1028.	3.0	15
40	Diffraction contrast analysis of 90Â° and 180Â° ferroelectric domain structures of PbTiO₃thin films. Science and Technology of Advanced Materials, 2011, 12, 034403.	6.1	14
41	Crystal structure and magnetism in Îº-Al2O3-type AlxFe2-xO3 films on SrTiO3(111). Journal of Applied Physics, 2017, 122, 015301.	2.5	14
42	Characterization of defect type and dislocation density in double oxide heteroepitaxial CeO 2 /YSZ/Si(001) films. Applied Physics A: Materials Science and Processing, 2003, 76, 969-973.	2.3	13
43	Switchable third ScFeO₃ polar ferromagnet with YMnO₃-type structure. Journal of Materials Chemistry C, 2020, 8, 4447-4452.	5.5	13
44	Effect of Stress and Temperature on Ferroelastic Domain Switching of Partially Stabilized Zirconia Pseudo-Single Crystals. Journal of the Ceramic Society of Japan, 1996, 104, 529-534.	1.3	12
45	Effect of facing annealing on crystallization and decomposition of Pb(Mg_{1/3}Nb_{2/3})O₃ thin films prepared by CSD technique using MOD solution. Journal of the Ceramic Society of Japan, 2013, 121, 236-241.	1.1	12
46	Columnar grain boundary coherence in yttria-stabilized zirconia thin film: effects on ionic conductivity. Journal of the Ceramic Society of Japan, 2014, 122, 72-77.	1.1	12
47	Effect of Focal Depth of HAADF-STEM Imaging on the Solute Enriched Layers in Mg Alloys. Materials Transactions, 2015, 56, 1633-1638.	1.2	12
48	Effect of deposition temperature on the characteristics of hafnium oxide films deposited by metalorganic chemical vapor deposition using amide precursor. Journal of Materials Research, 2004, 19, 584-589.	2.6	11
49	Growth of epitaxial (K, Na)NbO3 films with various orientations by hydrothermal method and their properties. Japanese Journal of Applied Physics, 2019, 58, SLLB14.	1.5	11
50	Fabrication and Evaluation of One-Axis Oriented Lead Zirconate Titanate Films Using Metalâ€“Oxide Nanosheet Interface Layer. Japanese Journal of Applied Physics, 2013, 52, 09KA04.	1.5	11
51	HRTEM investigation of the 90Â° domain structure and ferroelectric properties of multi-layered PZT thin films. Microelectronic Engineering, 2003, 66, 708-712.	2.4	10
52	Carrier extraction dynamics from Ge/Si quantum wells in Si solar cells. Thin Solid Films, 2014, 557, 368-371.	1.8	10
53	Characterization of (111)-oriented epitaxial (K_{0.5}Na_{0.5})NbO₃thick films deposited by hydrothermal method. Japanese Journal of Applied Physics, 2017, 56, 10PF04.	1.5	10
54	Preparation of {001}_c-oriented epitaxial (K, Na)NbO₃ thick films by repeated hydrothermal deposition technique. Journal of the Ceramic Society of Japan, 2018, 126, 281-285.	1.1	10

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55	Solution-Based Fabrication of High-Î² Dielectric Nanofilms Using Titania Nanosheets as a Building Block. Japanese Journal of Applied Physics, 2007, 46, 6979.	1.5	9
56	Control of geometry in Si-based photonic nanostructures formed by maskless wet etching process and its impact on optical properties. Thin Solid Films, 2014, 557, 338-341.	1.8	9
57	Strain self-accommodation during growth of 14H type long-period stacking ordered (LPSO) structures in Mg-Zn-Gd alloy. Scripta Materialia, 2020, 185, 25-29.	5.2	9
58	High yield preparation of (100)_c-oriented (K,Na)NbO₃ thick films by hydrothermal method using amorphous niobium source. Journal of the Ceramic Society of Japan, 2020, 128, 512-517.	1.1	9
59	Measurement Technique for the Evaluation of Residual Stress in Epitaxial Thin Film by Asymmetric X-Ray Diffraction.. Journal of the Ceramic Society of Japan, 1999, 107, 606-610.	1.3	8
60	Thermally stable dielectric responses in uniaxially (001)-oriented CaBi4Ti4O15 nanofilms grown on a Ca2Nb3O10â¯ nanosheet seed layer. Scientific Reports, 2016, 6, 20713.	3.3	8
61	Strain-induced nanostructure of Pb(Mg_{1/3}Nb_{2/3})O₃â€“PbTiO₃on SrTiO₃epitaxial thin films with low PbTiO₃concentration. Japanese Journal of Applied Physics, 2017, 56, 10PB12.	1.5	8
62	Formation of polar phase in Fe-doped ZrO2 epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.3	8
63	Effect of Ta-substitution on the deposition of (K,Na)(Nb,Ta)O3 films by hydrothermal method. Japanese Journal of Applied Physics, 2019, 58, SLLB12.	1.5	8
64	Good piezoelectricity of self-polarized thick epitaxial (K,Na)NbO3 films grown below the Curie temperature (240â€‰Â°C) using a hydrothermal method. Applied Physics Letters, 2020, 117, .	3.3	8
65	Structural and electrical characterization of hydrothermally deposited piezoelectric (K,Na)(Nb,Ta)O3 thick films. Journal of Materials Science, 2020, 55, 8829-8842.	3.7	8
66	Low-temperature deposition of Li substituted (K,Na)NbO₃ films by a hydrothermal method and their structural and ferroelectric properties. Journal of the Ceramic Society of Japan, 2019, 127, 388-393.	1.1	8
67	Special Issue Ceramics Integration. Role of Ultra Thin SiOx Layer for Epitaxial Growth of YSZ/SiOx/(001)Si Thin Films.. Journal of the Ceramic Society of Japan, 2002, 110, 338-342.	1.3	7
68	Role of Ultra Thin SiOx Layer on Epitaxial YSZ/SiOx/Si Thin Film. Integrated Ferroelectrics, 2003, 51, 51-61.	0.7	7
69	Preparation and Structure of Lead Magnesium Niobate Titanate Film by Double-Pulse Excitation using Nd:YAG and KrF Excimer Lasers. Japanese Journal of Applied Physics, 2007, 46, 657-659.	1.5	7
70	Advantage of the structure and the electrical properties of epitaxial ultra-thin zirconia gate dielectrics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 30-34.	3.5	7
71	Effect of SrTiO3 seed layer deposition time and thickness on low-temperature crystallization and electrical properties of Pb(Zr, Ti)O3 films by metalorganic chemical vapor deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 22-25.	3.5	7
72	Good Conformability of Indium-Tin Oxide Thin Films Prepared by Spray Chemical Vapor Deposition. Electrochemical and Solid-State Letters, 2009, 12, D42.	2.2	7

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73	Control of Dip Shape in Photonic Nanostructures by Maskless Wet-Etching Process and Its Impact on Optical Properties. Japanese Journal of Applied Physics, 2013, 52, 080202.	1.5	7
74	Local Strain Fields of LPSO in Mg-Based Ternary Alloys. Materials Transactions, 2015, 56, 923-927.	1.2	7
75	Crystal structure and compositional analysis of epitaxial (K_{0.56}Na_{0.44})NbO₃films prepared by hydrothermal method. Journal of Materials Research, 2016, 31, 693-701.	2.6	7
76	Deposition of orientation-controlled thick (K,Na)NbO₃ films on metal substrates by repeated hydrothermal deposition technique. Journal of the Ceramic Society of Japan, 2019, 127, 478-484.	1.1	7
77	Rapid deposition of (K,Na)NbO3 thick films using microwave-assisted hydrothermal technique. Japanese Journal of Applied Physics, 2020, 59, SPPB02.	1.5	7
78	Structural evolution of epitaxial CeO2-HfO2 thin films using atomic-scale observation: Formation of ferroelectric phase and domain structure. Acta Materialia, 2022, 235, 118091.	7.9	7
79	Relation between Oxygen Vacancy and Ferroelastic Domain Switching in Tetragonal Zirconia Pseudo-Single Crystals. Journal of the Ceramic Society of Japan, 1996, 104, 1106-1111.	1.3	6
80	Effect of Axial Ratio on Critical Stress of Ferroelastic Domain Switching in Ceria-Partially-Stabilized Zirconia. Journal of the Ceramic Society of Japan, 1997, 105, 871-875.	1.3	6
81	Improvement of C-V Characteristics and Control of Interlayer Growth of Rare Earth Oxide Stabilized Zirconia Epitaxial Gate Dielectrics. Key Engineering Materials, 2003, 248, 137-142.	0.4	6
82	Activation Energy of Oxygen Vacancy Diffusion of Yttria-Stabilized-Zirconia Thin Film Determined from DC Current Measurements below 150 Â°C. Japanese Journal of Applied Physics, 2006, 45, L525-L528.	1.5	6
83	Preparation and Optical Properties of Epitaxial Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ Thin Film on Si Substrates with Buffer Layer Using Pulsed Laser Deposition. Key Engineering Materials, 2006, 301, 265-268.	0.4	6
84	Fabrication and Microstructural Change of PMN-PT Thin Films on Si Substrates by PLD with Mask and Double-Pulse Lazer Excitation. Key Engineering Materials, 2007, 350, 111-114.	0.4	6
85	Antiferrodistortive Structural Phase Transition in Compressively-Strained Epitaxial SrTiO3 Film Grown on (La, Sr)(Al, Ta)O3 Substrate. Integrated Ferroelectrics, 2010, 115, 57-62.	0.7	6
86	Three-Dimensional Shapes and Distributions of Long-Period Stacking Ordered Structures in Mg₉₇Zn₁Gd₂ Cast Alloys Characterized by Electron Tomography. Materials Transactions, 2015, 56, 928-932.	1.2	6
87	Polar-axis-oriented crystal growth of tetragonal PZT films on stainless steel substrate using pseudo-perovskite nanosheet buffer layer. AIP Advances, 2015, 5, .	1.3	6
88	Evolution of long-period stacking order (LPSO) in Mg97Zn1Gd2 cast alloys viewed by HAADF-STEM multi-scale electron tomography. Philosophical Magazine, 2018, 98, 1945-1960.	1.6	6
89	Influence of interfacial structure on propagating direction of small-angle grain boundaries during directional solidification of multicrystalline silicon. Scripta Materialia, 2019, 172, 105-109.	5.2	6
90	Short range biaxial strain relief mechanism within epitaxially grown BiFeO3. Scientific Reports, 2019, 9, 6715.	3.3	6

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91	Impact of hydrochloric acid on the epitaxial growth of In₂O₃ films on (0001)Î±-Al₂O₃ substrates by mist CVD. Applied Physics Express, 2020, 13, 075504.	2.4	6
92	High-temperature in situ Cross-sectional Transmission Electron Microscopy Investigation of Crystallization Process of Yttrium-stabilized Zirconia/Si and Yttrium-stabilized Zirconia/SiOx/Si Thin Films. Journal of Materials Research, 2005, 20, 1878-1887.	2.6	5
93	Effect of excess Pb on epitaxial growth of Pb(Mg_{1/3}Nb_{2/3})O₃ thin films prepared by chemical solution deposition process. Journal of the Ceramic Society of Japan, 2013, 121, 638-643.	1.1	5
94	Fabrication and electrochemical performance of lithium polymer battery using mesoporous silica/polymer hybrid electrolyte. Journal of the Ceramic Society of Japan, 2013, 121, 723-729.	1.1	5
95	Fabrication of (100)_c-oriented Mn-doped bismuth ferrite films on silicon and stainless steel substrates using calcium niobate nanosheets. Journal of the Ceramic Society of Japan, 2015, 123, 322-328.	1.1	5
96	Orientation control of barium titanate films using metal oxide nanosheet layer. Japanese Journal of Applied Physics, 2016, 55, 10TA15.	1.5	5
97	Growth mechanism and domain structure study on epitaxial BiFeO3 film grown on (La0.3Sr0.7)(Al0.65Ta0.35)O3. Journal of Applied Physics, 2020, 127, .	2.5	5
98	Energy storage properties of epitaxially grown xCaZrO3â€“(1â^’x)NaNbO3 thin films prepared with chemical solution deposition method. Journal of Applied Physics, 2020, 128, .	2.5	5
99	Effect of Radius of Rare Earth Ions of Ferroelastic Domain Switching of Zirconia. Journal of the Ceramic Society of Japan, 1997, 105, 775-778.	1.3	4
100	Structure Analysis of CeO2/ZrO2/Si Multilayer Thin Films by HRTEM. Materials Research Society Symposia Proceedings, 1999, 592, 191.	0.1	4
101	Epitaxial growth of winding ZnO nanowires on a single-crystalline substrate. Journal of the Ceramic Society of Japan, 2009, 117, 255-257.	1.1	4
102	Micro/Crystal structure analysis of CSD derived porous LaNiO₃ electrode films. Journal of the Ceramic Society of Japan, 2013, 121, 619-622.	1.1	4
103	Interface structure of Pb(Zr,Ti)O3/MgO(001) epitaxial thin film in early stage of Stranskiâ€“Krastanov growth mode. Japanese Journal of Applied Physics, 2019, 58, SLLA08.	1.5	4
104	Evaluation of spatial and temporal resolution on in situ annealing aberration-corrected transmission electron microscopy with proportionalâ€“integralâ€“differential controller. Microscopy (Oxford,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	1.5	4
105	Redox-Based Multilevel Resistive Switching in AlFeO₃ Thin-Film Heterostructures. ACS Applied Electronic Materials, 2020, 2, 1065-1073.	4.3	4
106	Epitaxial growth mechanism of Pb(Zr,Ti)O₃ thin films on SrTiO₃ by chemical solution deposition via self-organized seed layer. Journal of the Ceramic Society of Japan, 2020, 128, 501-511.	1.1	4
107	Hrteminvestigation of 90Â° Domain Configureuration and P-E Hysteresis Loop of Epitaxial PZT Multilayered Thin Films. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	3
108	Special Issue Ceramics Integration. Controlling Crystallinity and Crystal Oritentation of PbTiO3 and Pb(Zr,Ti)O3 Thin Films by Introducing Different Seed Layers.. Journal of the Ceramic Society of Japan, 2002, 110, 362-367.	1.3	3

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109	AEM Investigation of Interface Structure of Y₂O₃-Ta₂O₅ Co-Doped Zirconia Buffer Layer. Key Engineering Materials, 2004, 269, 237-240.	0.4	3
110	Effect of Source Supply Methods on Low-Temperature Preparation of Lead Zirconate Titanate Thin Films Using SrTiO₃ Seed Layers by Metallorganic Chemical Vapor Deposition. Solid State Phenomena, 2007, 124-126, 153-156.	0.3	3
111	Doping effect of Dy on leakage current and oxygen sensing property of SrTiO3 thin film prepared by PLD. Journal of the Ceramic Society of Japan, 2009, 117, 1004-1008.	1.1	3
112	Characterization of Low Temperature Chemical Vapor Deposited Gd₂O₃ Doped CeO₂ Films. Key Engineering Materials, 0, 485, 133-136.	0.4	3
113	TEM MICROSTRUCTURE ANALYSIS FOR COMPRESSIVELY STRESSED Pb(Zr,Ti)O₃ THIN FILMS BY CSD-DERIVED LaNiO₃ BOTTOM ELECTRODES. Functional Materials Letters, 2012, 05, 1260016.	1.2	3
114	Low temperature processing of alkoxide-derived PMN thin films. IOP Conference Series: Materials Science and Engineering, 2012, 30, 012002.	0.6	3
115	Compositional Transition Layer around Growing LPSO in Mg₉₇Zn₁Y₂ Cast Alloys. Materials Transactions, 2014, 55, 1377-1382.	1.2	3
116	Three-Dimensional Imaging of a Long-Period Stacking Ordered Phase in Mg₉₇Zn₁Gd₂ Using High-Voltage Electron Microscopy. Materials Transactions, 2016, 57, 918-921.	1.2	3
117	Atomic-resolution analysis for the effects of heat treatment temperatures on the growth of chemically-ordered regions in Pb(Mg_{1/3}Nb_{2/3})O₃ thin films. Journal of the Ceramic Society of Japan, 2016, 124, 697-701.	1.1	3
118	Enhanced intrinsic piezoelectric response in (001)-epitaxial single c-domain Pb(Zr,Ti)O3 nanorods. Applied Physics Letters, 2020, 117, .	3.3	3
119	Ferroelectric and magnetic properties in Îµ-Fe2O3 epitaxial film. Applied Physics Letters, 2021, 119, .	3.3	3
120	Defects in heteroepitaxial CeO2/YSZ/Si(001) films by precise X-ray rocking curve distribution fitness. Physica B: Condensed Matter, 2001, 308-310, 1050-1053.	2.7	2
121	Analysis of Formation Process of Ferroelectric Domain Structure in PZT Thin Films by In-Situ TEM. Key Engineering Materials, 2002, 228-229, 203-206.	0.4	2
122	Room-Temperature Electrical-Field Induced Oxygen Diffusion of Aluminum/Yttria-Stabilized Zirconia Thin Film Grown on Si Substrate. Japanese Journal of Applied Physics, 2006, 45, 8827-8831.	1.5	2
123	Geometric Phase Analysis of Nano-Scale Strain Fields Around 90Â° Domains in PbTiO3/SrTiO3 Epitaxial Thin Film. Materials Research Society Symposia Proceedings, 2009, 1199, 12.	0.1	2
124	Nanostructure and strain analysis of CeO2/YSZ strained superlattice. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 173, 220-228.	3.5	2
125	TEM Analysis of the Nanostructure of Pb(Mg_{1/3}Nb_{2/3})O₃ Thin Films by MOD Method. Key Engineering Materials, 2013, 582, 19-22.	0.4	2
126	Growth of vertical silicon nanowires array using electrochemical alternative. , 2013, , .		2

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127	Nanostructure and Strain Field in Vertically Aligned Nano-Islands for Si/Ge 2D Photonic Nanocrystals.. Materials Research Society Symposia Proceedings, 2013, 1510, 1.	0.1	2
128	Dielectric property of (001) one-axis oriented CaBi₄Ti₄O₁₅-based thin films and their temperature dependence. Journal of the Ceramic Society of Japan, 2014, 122, 477-482.	1.1	2
129	Chemical and structural effects on ionic conductivity at columnar grain boundaries in yttria-stabilized zirconia thin films. Journal of the Ceramic Society of Japan, 2014, 122, 430-435.	1.1	2
130	Effect of Ti concentration on the growth of chemically-ordered regions of Pb(Mg_{1/3}Nb_{2/3})O₃–PbTiO₃ epitaxial thin films. Journal of the Ceramic Society of Japan, 2015, 123, 565-569.	1.1	2
131	Fabrication and characterization of (111)-epitaxial Pb(Zr0.35Ti0.65)O3/Pb(Zr0.65Ti0.35)O3artificial superlattice thin films. Japanese Journal of Applied Physics, 2016, 55, 10TA20.	1.5	2
132	Interface reaction between PbTiO₃ epitaxial thin films and La-doped SrTiO₃ (001) substrates through edge dislocations induced by 90Â° domain formation. Journal of the Ceramic Society of Japan, 2020, 128, 492-500.	1.1	2
133	Polarization switching behavior of one-axis-oriented lead zirconate titanate films fabricated on metal oxide nanosheet layer. Japanese Journal of Applied Physics, 2017, 56, 10PF10.	1.5	2
134	Effect of the species of substituted ion on ferroelastic domain switching of rare-earth ion-doped ZrO₂ pseudo-single crystals. Journal of Materials Research, 1999, 14, 142-145.	2.6	1
135	Role of Ultra Thin SiOx Layer on Epitaxial YSZ/SiOx/Si Thin Film as Multi Functional Buffer Layer by Nano-Probe and In-Situ TEM Investigation. Integrated Ferroelectrics, 2002, 45, 89-96.	0.7	1
136	Role of the First Atomic Layers in Epitaxial Relationship and Interface Characteristics of SrTiO3 Films on CeO2/YSZ/Si(001). Materials Research Society Symposia Proceedings, 2002, 747, 1.	0.1	1
137	Special Issue Ceramics Integration. Growth Behavior of Bi and Nb Co-Added-SrTiO3 Thin Film Exhibiting Varistor Characteristics by Metal-Organic Chemical Vapor Deposition.. Journal of the Ceramic Society of Japan, 2002, 110, 416-420.	1.3	1
138	IN-SITU TEM INVESTIGATION OF STRUCTURAL CHANGES IN ZIRCONIA/SILICON HETEROSTRUCTURES AT ELEVATED TEMPERATURE. International Journal of Nanoscience, 2004, 03, 699-705.	0.7	1
139	Fabrication of Ferromagnetic Ni(111) Nanoparticles Embedded Epitaxially in (Mg,Ni)O Matrix by Reduction of (Mg0.5Ni0.5)O(111) Epitaxial Thin Film. Japanese Journal of Applied Physics, 2011, 50, 070206.	1.5	1
140	Stacking faults in an epitaxially grown PbTiO3 thick film and their size distribution. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 528-531.	3.5	1
141	Direct Observation of Atomic Arrangement around 90Â° Domain Wall in Lead Titanate Thin Films.. Materials Research Society Symposia Proceedings, 2013, 1515, 1.	0.1	1
142	Nano-Structure around 90Â° Domain Wall and Elastic Interaction with Misfit Dislocation in PbTiO₃ Thin Film. Key Engineering Materials, 2013, 566, 167-170.	0.4	1
143	Epitaxial mist chemical vapor deposition growth and characterization of Cu3N films on (0001)Î±-Al2O3 substrates. Applied Physics Express, 2020, 13, 075505.	2.4	1
144	Electricâ€Fieldâ€Induced Ferroelectricity in 5%Yâ€doped Hf_{0.5}Zr_{0.5}O₂: Transformation from the Paraelectric Tetragonal Phase to the Ferroelectric Orthorhombic Phase. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2170023.	2.4	1

#	Article	IF	Citations
145	Effect of Ta substitution on the synthesis of (K,Na)(Nb,Ta)O₃ powders by hydrothermal reaction: Insight into the combination of alkaline solution and raw powder. Journal of the Ceramic Society of Japan, 2021, 129, 365-371.	1.1	1
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