

Yoshitaka Ehara

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electric-field-temperature phase diagram of Mn-doped Bi _{0.5} (Na _{0.9} K _{0.1}) _{0.5} TiO ₃ ceramics. Applied Physics Letters, 2015, 107, .	3.3	59
2	Configuration and local elastic interaction of ferroelectric domains and misfit dislocation in PbTiO ₃ /SrTiO ₃ epitaxial thin films. Science and Technology of Advanced Materials, 2011, 12, 034413.	6.1	41
3	Phase transformation induced by electric field and mechanical stress in Mn-doped (Bi _{1/2} Na _{1/2})TiO ₃ -(Bi _{1/2} K _{1/2})TiO ₃ ceramics. Journal of Applied Physics, 2016, 120, .	2.5	41
4	Relaxor-ferroelectric crossover in $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ thin films. Physical Review B, 2017, 96, .	3.2	38
5	Experimental evidence for orientation property of Pb(Zr _{0.35} Ti _{0.65})O ₃ by manipulating polar axis angle using CaF ₂ substrate. Applied Physics Letters, 2010, 96, 102905.	3.3	26
6	Dependence of $\langle i \rangle$ on polar axis texture for tetragonal Pb(Zr _x Ti _{1-x})O ₃ thin films. Journal of Applied Physics, 2014, 116, .	2.5	26
7	Impact of pulse poling on static and dynamic ferroelastic-domain contributions in tetragonal Pb(Ti, Zr)O ₃ thin films. Applied Physics Letters, 2014, 105, .	2.5	25
8	Direct observation of intrinsic piezoelectricity of Pb(Zr,Ti)O ₃ by time-resolved x-ray diffraction measurement using single-crystalline films. Applied Physics Letters, 2014, 105, .	3.3	24
9	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
10	In-situ observation of ultrafast 90° domain switching under application of an electric field in (100)/(001)-oriented tetragonal epitaxial Pb(Zr _{0.4} Ti _{0.6})O ₃ thin films. Scientific Reports, 2017, 7, 9641.	3.3	23
11	Electric field-temperature phase diagram of sodium bismuth titanate-based relaxor ferroelectrics. Journal of Materials Science, 2018, 53, 9393-9400.	3.7	23
12	Ultrafast switching of ferroelastic nanodomains in bilayered ferroelectric thin films. Applied Physics Letters, 2011, 99, 182906.	3.3	21
13	Nanoscale Origins of Nonlinear Behavior in Ferroic Thin Films. Advanced Functional Materials, 2013, 23, 81-90.	14.9	20
14	In situ Raman spectroscopy for characterization of the domain contributions to electrical and piezoelectric responses in Pb(Zr,Ti)O ₃ films. Applied Physics Letters, 2010, 97, .	3.3	19
15	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
16	Growth of (111)-oriented BaTiO ₃ -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
17	Complex domain structure in relaxed PbTiO ₃ thick films grown on (100)cSrRuO ₃ /(100)SrTiO ₃ substrates. Journal of Applied Physics, 2012, 112, .	2.5	15
18	Diffraction contrast analysis of 90° and 180° ferroelectric domain structures of PbTiO ₃ thin films. Science and Technology of Advanced Materials, 2011, 12, 034403.	6.1	14

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19	Dynamic Manipulation in Piezoresponse Force Microscopy: Creating Nonequilibrium Phases with Large Electromechanical Response. ACS Nano, 2020, 14, 10569-10577.	14.6	14
20	Crystal Orientation Control of Bismuth Layer-Structured Dielectric Films Using Interface Layers of Perovskite-Type Oxides. Japanese Journal of Applied Physics, 2011, 50, 09NA04.	1.5	13
21	Film Thickness Dependence of Ferroelectric Properties of (111)-Oriented Epitaxial $\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ Films. Japanese Journal of Applied Physics, 2012, 51, 09LA04.	1.5	13
22	Epitaxial $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ Ferroelectric Bilayers with Giant Electromechanical Properties. Advanced Materials Interfaces, 2015, 2, 1500075.	3.7	13
23	Phase transitions associated with competing order parameters in compressively strained SrTiO_3 films. Physical Review B, 2015, 91, .	1.5	12
24	Domain tuning in mixed-phase BiFeO_3 thin films using vicinal substrates. Applied Physics Letters, 2012, 100, 202901.	3.3	11
25	Orientation control of epitaxial tetragonal $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ thin films grown on (100) KTaO_3 substrates by tuning the $\text{Zr}/(\text{Zr}+\text{Ti})$ ratio. Applied Physics Letters, 2015, 107, .	3.3	11
26	Large Electromechanical Responses Driven by Electrically Induced Dense Ferroelastic Domains: Beyond Morphotropic Phase Boundaries. ACS Applied Electronic Materials, 2020, 2, 1908-1916.	4.3	11
27	Large irreversible non-180° domain switching after poling treatment in $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ films. Applied Physics Letters, 2016, 108, .	3.3	10
28	Effect of in-plane tensile strain in (100)/(001)-oriented epitaxial PbTiO_3 films on their phase transition temperature and tetragonal distortion. Applied Physics Letters, 2017, 110, .	3.3	10
29	Single crystal-like selection rules for unipolar-axis oriented tetragonal $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ thick epitaxial films. Applied Physics Letters, 2010, 97, 111901.	3.3	8
30	Fabrication and characterization of (110)-oriented $(\text{Ba}_{0.5}\text{Sr}_{0.5})\text{TiO}_3$ thin films using PdO/Pd buffer layer. Japanese Journal of Applied Physics, 2015, 54, 10NA15.	1.5	8
31	Temperature dependence on the domain structure of epitaxial PbTiO_3 films grown on single crystal substrates with different lattice parameters. Japanese Journal of Applied Physics, 2020, 59, SPPB01.	1.5	8
32	Direct Imaging of the Relaxation of Individual Ferroelectric Interfaces in a Tensile-Strained Film. Advanced Electronic Materials, 2017, 3, 1600508.	5.1	7
33	Film Thickness Dependence of Crystal Structure in 100-Oriented Epitaxial $\text{Pb}(\text{Zr}_{0.65}\text{Ti}_{0.35})\text{O}_3$ Films Grown on Single-Crystal Substrates with Different Thermal Expansion Coefficients. Japanese Journal of Applied Physics, 2012, 51, 09LA14.	1.5	6
34	Phase Boundary Shift by Thermal Strain in 100-Oriented Epitaxial $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ Film Grown on CaF_2 Substrates. Japanese Journal of Applied Physics, 2013, 52, 09KA02.	1.5	6
35	Superdomain structure and high conductivity at the vertices in the (111)-oriented epitaxial tetragonal $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ thin film. Current Applied Physics, 2019, 19, 418-423.	2.4	6
36	Influence of cooling rate on ferroelastic domain structure for epitaxial (100)/(001)-oriented $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ thin films. Applied Physics Letters, 2019, 115, 101101.	1.5	6

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37	Small-strain (100)/(001)-oriented epitaxial PbTiO ₃ films with film thickness ranging from nano- to micrometer order grown on (100)CaF ₂ substrates by metal organic chemical vapor deposition. Journal of Materials Research, 2013, 28, 696-701.	2.6	5
38	Structural Property and Electric Field Response of a Single Perovskite PbTiO ₃ Nanowire Using Micro X-ray Beam. Japanese Journal of Applied Physics, 2010, 49, 09MC09.	1.5	4
39	Growth of (111) One-Axis-Oriented Bi(Mg _{1/2} Ti _{1/2})O ₃ Films on (100)Si Substrates. Japanese Journal of Applied Physics, 2013, 52, 04CH09.	1.5	4
40	Crystal Structure Change with Applied Electric Field for (100)/(001)-oriented Polycrystalline Lead Zirconate Titanate Films. Materials Research Society Symposia Proceedings, 2013, 1507, 1.	0.1	3
41	Crystal orientation dependency of ferroelectric property in rhombohedral Pb(Zr,Ti)O ₃ films. Japanese Journal of Applied Physics, 2014, 53, 04ED06.	1.5	3
42	Fabrication and characterization of {110}-oriented Pb(Zr,Ti)O ₃ thin films on Pt/SiO ₂ /Si substrates using PdO/Pd buffer layer. Japanese Journal of Applied Physics, 2017, 56, 10PF09.	1.5	3
43	Orientation change with substrate type and composition in (100)/(001)-oriented epitaxial tetragonal Pb(Zr _x Ti _{1-x})O ₃ films. Journal of the Ceramic Society of Japan, 2017, 125, 458-462.	1.1	3
44	Ferroelastic domain motion by pulsed electric field in rhombohedral epitaxial Pb(Zr _x Ti _{1-x})O ₃ films. Physical Review B, 2019, 100, 084107.	3.2	3
45	Film Thickness Dependence of Crystal Structure in 100-Oriented Epitaxial Pb(Zr _{0.65} Ti _{0.35})O ₃ Films Grown on Single-Crystal Substrates with Different Thermal Expansion Coefficients. Japanese Journal of Applied Physics, 2012, 51, 09LA14.	1.5	3
46	Control of Volume Fraction of Non-180° Domains by Thermal Strain in Epitaxial Rhombohedral Pb(Zr _x Ti _{1-x})O ₃ Films. Applied Physics Letters, 2010, 96, 082901.	0.1	2
47	Tensor factorization for elucidating mechanisms of piezoresponse relaxation via dynamic Piezoresponse Force Spectroscopy. Npj Computational Materials, 2020, 6, .	8.7	2
48	Domain structure transition in compressively strained (100)/(001) epitaxial tetragonal PZT film. Journal of Applied Physics, 2021, 129, 024101.	2.5	2
49	Determination Factors of Strain-relaxed Complex Domain Structure observed in Thick Epitaxial Pb(Zr,Ti)O ₃ Films. Materials Research Society Symposia Proceedings, 2009, 1199, 142.	0.1	1
50	Stacking faults in an epitaxially grown PbTiO ₃ thick film and their size distribution. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 528-531.	3.5	1
51	Direct Observation of Atomic Arrangement around 90° Domain Wall in Lead Titanate Thin Films.. Materials Research Society Symposia Proceedings, 2013, 1515, 1.	0.1	1
52	Squareness Control in Polarization-Electric Field Hysteresis Curves in Rhombohedral Pb(Zr,Ti)O ₃ Films. Japanese Journal of Applied Physics, 2013, 52, 04CD09.	1.5	1
53	Nano-Structure around 90° Domain Wall and Elastic Interaction with Misfit Dislocation in PbTiO ₃ Thin Film. Key Engineering Materials, 2013, 566, 167-170.	0.4	1
54	Influence of Internal Strains of (110)-One-Axis-Oriented (Ba _{0.5} Sr _{0.5})TiO ₃ (BST) Thin Films on Their Dielectric Behaviors. Science of Advanced Materials, 2017, 9, 1806-1809.	0.7	1

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55	Preparation of InP Nanoparticles by Laser Ablation in Liquid. The Review of Laser Engineering, 2012, 40, 117.	0.0	1
56	Growth of polar axis oriented tetragonal Pb(Zr,Ti)O ₃ films on CaF ₂ substrates with transparent (La _{0.07} Sr _{0.93})SnO ₃ . Journal of Crystal Growth, 2010, 312, 3127-3130.	1.5	0
57	TEM Observation on Ferroelectric Domain Structures of PbTiO ₃ Epitaxial Films. Key Engineering Materials, 2011, 485, 179-182.	0.4	0
58	Intrinsic Characteristics of Bi(Zn _{1/2} Ti _{1/2})O ₃ - substituted Pb(Zr _{0.4} Ti _{0.6})O ₃ Thin Films. IOP Conference Series: Materials Science and Engineering, 2011, 18, 092008.	0.6	0
59	Temperature and Frequency Dependencies of Ferroelectric Properties in Rhombohedral Epitaxial Pb(Zr,Ti)O ₃ Films with Perfect (111) Orientations Grown on CaF ₂ Substrates.. Materials Research Society Symposia Proceedings, 2012, 1397, 65.	0.1	0
60	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
61	Analysis of Lattice Defects in an Epitaxial PbTiO ₃ Thick Film by Transmission Electron Microscopy. Key Engineering Materials, 0, 566, 171-174.	0.4	0
62	Effect of Preparation Conditions of Ti Ion Species on Structural Properties of TiO ₂ Pillared Mica. International Journal of the Society of Materials Engineering for Resources, 2010, 17, 41-46.	0.1	0
63	<i>In-situ</i> observation of reversible 90°-domain switching in Pb(Zr, Ti)O ₃ films for microcantilever structure. Japanese Journal of Applied Physics, 0, , .	1.5	0