

Rintaro Aoyagi

List of Publications by Year in descending order

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56
papers

877
citations

623734

14
h-index

501196

28
g-index

58
all docs

58
docs citations

58
times ranked

684
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroelectric and Piezoelectric Properties of $(\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3$ Ceramics. Japanese Journal of Applied Physics, 2005, 44, 5040-5044.	1.5	208
2	Piezoelectric Properties of BaTiO_3 -($\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3$ Ferroelectric Ceramics. Japanese Journal of Applied Physics, 2004, 43, 7556-7559.	1.5	95
3	$(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3$ - $(\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3$ - BaTiO_3 -Based Lead-Free Piezoelectric Ceramics. Japanese Journal of Applied Physics, 2005, 44, 4350-4353.	1.5	81
4	Synthesis and electrical properties of sodium bismuth niobate $\text{Na}_{0.5}\text{Bi}_{2.5}\text{Nb}_2\text{O}_9$. Materials Research Bulletin, 2003, 38, 25-32.	5.2	47
5	Effect of non-stoichiometry on ferroelectricity and piezoelectricity in strontium bismuth tantalate ceramics. Journal of the European Ceramic Society, 2005, 25, 2723-2726.	5.7	39
6	Processing and Electrical Properties of KNbO_3 Ferroelectric Dense Ceramics Added with Small Amount of Bi_2O_3 and MnCO_3 . Key Engineering Materials, 2006, 301, 19-22.	0.4	28
7	Ferroelectric and piezoelectric properties of $(\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3$ ceramics fabricated by hot-pressing method. Journal of Electroceramics, 2008, 21, 296-299.	2.0	27
8	Dielectric Anisotropy near Morphotropic Phase Boundary in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 Crystals. Japanese Journal of Applied Physics, 2006, 45, 7543-7547.	1.5	22
9	Piezoelectric Properties of Sodium Bismuth Tantalate $\text{Na}_{0.5}\text{Bi}_{2.5}\text{Ta}_2\text{O}_9$ Dense Ceramics. Japanese Journal of Applied Physics, 2004, 43, 7164-7168.	1.5	20
10	Ferroelectric and piezoelectric properties of bismuth layered-structure ferroelectric $(\text{Sr},\text{Na},\text{Bi})\text{Bi}_2\text{Ta}_2\text{O}_9$ ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 156-160.	3.5	16
11	Piezoelectric Properties of Vanadium-Substituted Strontium Bismuth Niobate. Japanese Journal of Applied Physics, 2005, 44, 7055-7058.	1.5	16
12	In situ Observation of Polarization Reversal of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ with 90° Domain Walls. Japanese Journal of Applied Physics, 2007, 46, 3485-3490.	1.5	16
13	Piezoelectric Properties and Depolarization Temperatures of $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3$ - $(\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3$ -Based Lead-Free Piezoelectric Ceramics. Key Engineering Materials, 2006, 320, 23-26.		
14	Crystal Growth and Characterization of Lanthanum Substituted Bismuth Titanate Single Crystals. Japanese Journal of Applied Physics, 2001, 40, 5671-5674.	1.5	14
15	Effect of Sintering Temperature on the Dielectric Properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Ceramics. Ferroelectrics, 2007, 356, 90-94.	0.6	14
16	Splitting of Triggered Phase Transition in $\text{Bi}_{4-x}\text{La}_x\text{Ti}_3\text{O}_{12}$ Mixed Crystals. Japanese Journal of Applied Physics, 2007, 46, 5894-5900.	1.5	14
17	Field-Induced Polarization State and Phase Transition in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$: Dielectric Dispersions and Nonlinear Dielectric Constants. Japanese Journal of Applied Physics, 2007, 46, 2991-2994.	1.5	14
18	Depolarization Temperature Shift of $\text{Li}_{0.08}\text{Na}_{0.92}\text{NbO}_3$ Lead-Free Piezoelectric Ceramics by High-Electric-Field Poling. Japanese Journal of Applied Physics, 2008, 47, 7689.	1.5	14

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19	Phase Transition under Zero-Field Heating after Field Cooling in $(1-x)\text{Pb}(\text{In}/2\text{Nb})\text{O}_3$. Japanese Journal of Applied Physics, 2009, 48, 09KF07.	1.5	12
20	Application to electronic devices using organic thin films by ion-beam-evaporation method. Synthetic Metals, 1997, 85, 1393-1394.	3.9	11
21	Dielectric study of phase transitions in $\text{Pb}(\text{Zn}/3\text{Nb}/3)\text{O}_3$ - PbTiO_3 . Journal of the Ceramic Society of Japan, 2009, 117, 954-957.	1.1	11
22	Phase Transition Near the Morphotropic Phase Boundary in $\text{Pb}(\text{Zn}/3\text{Nb}/3)\text{O}_3$ - PbTiO_3 . Ferroelectrics, 2010, 405, 39-44.	0.6	11
23	Crystal structure and electromechanical coupling properties of $\text{Na}_{0.5}\text{Bi}_{2.5}\text{Ta}_2\text{O}_9$ dense ceramics. Applied Physics A: Materials Science and Processing, 2003, 76, 295-297.	2.3	9
24	Phase Diagram of Mixed Crystals of $\text{Bi}_{4-x}\text{Nd}_x\text{Ti}_3\text{O}_{12}$. Japanese Journal of Applied Physics, 2007, 46, 7155-7158.	1.5	9
25	Observations and Simulations of Polarization Reversals with the 90° Domain Wall Structure in $\text{Bi}_4\text{Ti}_3\text{O}_{12}$. Ferroelectrics, 2007, 355, 28-36.	0.6	8
26	Piezoelectric Properties of Nd and V Cosubstituted $\text{Bi}_{4-x}\text{Ti}_{3-x}\text{O}_{12}$ Ceramics. Key Engineering Materials, 2006, 320, 39-42.	0.4	7
27	Phase Diagram of Mixed Crystals of $\text{Bi}_{4-x}\text{Sm}_x\text{Ti}_3\text{O}_{12}$. Japanese Journal of Applied Physics, 2008, 47, 7749-7752.	1.5	7
28	Ferroelectric and Piezoelectric Properties of Strontium Bismuth Tantalate Ceramics. Key Engineering Materials, 2004, 264-268, 1169-1172.	0.4	6
29	Enhanced piezoelectric properties of off-stoichiometric strontium bismuth tantalate $\text{Sr}_{0.8}\text{Bi}_{2.2}\text{Ta}_2\text{O}_9$ ceramics. Applied Physics A: Materials Science and Processing, 2005, 81, 131-135.	2.3	6
30	Piezoelectric Properties and Depolarization Temperature of NaNbO_3 - LiNbO_3 Lead-Free Piezoelectric Ceramics. Key Engineering Materials, 2008, 388, 233-236.	0.4	6
31	Phase Diagram in Poled Samples of $\text{Pb}(\text{Zn}/3\text{Nb})\text{O}_3$ - PbTiO_3 Mixed Crystals. Transactions of the Materials Research Society of Japan, 2009, 34, 109-111.	0.2	6
32	High-temperature thermoelectric properties of $\text{BaFe}_{1-x}\text{Ti}_x\text{O}_{3-\delta}$ ceramics. Journal of the Ceramic Society of Japan, 2013, 121, 706-709.	0.6	6
33	Thermoelectric properties of Co-doped BiFeO_3 and $\text{Bi}_{24}\text{Co}_{37}$ BiFeO_3 compound systems. Journal of the Ceramic Society of Japan, 2013, 121, 675-678.	1.1	6
34	Effects of Heat Treatment after Poling on Dielectric and Piezoelectric Properties in $\text{Li}_{0.06}\text{Na}_{0.94}\text{NbO}_3$ Ceramics. Japanese Journal of Applied Physics, 2013, 52, 09KD12.	1.5	6
35	Piezoelectric Properties of V and Ba Substituted $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Ceramics. Ferroelectrics, 2007, 358, 148-152.	0.6	5
36	Piezoelectric properties of $\text{SrBi}_2\text{M}_2\text{O}_9$ (M = Nb and Ta) ceramics. Journal of Electroceramics, 2006, 17, 1087-1090.	2.0	4

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37	Electrical Properties of Grain-Oriented SrBi ₂ Nb _{2-x} V _x O ₉ Ceramics. Key Engineering Materials, 2006, 320, 31-34.	0.4	4
38	Phase Diagram in Bi _{4-x} La _x Ti ₃ O ₁₂ . Ferroelectrics, 2007, 355, 96-100.	0.6	4
39	Dielectric and Piezoelectric Properties of (Na,Ba)(Nb,Ti)O ₃ Lead-Free Piezoelectric Ceramics. Key Engineering Materials, 2010, 445, 55-58.	0.4	4
40	Local structure analysis of NaNbO ₃ and AgNbO ₃ modified by Li substitution. Japanese Journal of Applied Physics, 2016, 55, 10TC04.	1.5	4
41	Synthesis of Pb(Zr, Ti)O ₃ fine ceramic powder at room temperature by dry mechanochemical solid-state reaction evaluated using synchrotron radiation X-ray diffraction. Japanese Journal of Applied Physics, 2021, 60, SFFA02.	1.5	4
42	Domain Wall Observations and the Phase Transition in Pb(Zn _{1/3} Nb _{2/3})O ₃ -8%PbTiO ₃ by AFM. Ferroelectrics, 2007, 347, 157-161.	0.6	3
43	Low-Frequency Raman Spectroscopy in Pb(Zn _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ Mixed Crystals. Ferroelectrics, 2009, 378, 84-91.	0.6	3
44	Electrical Properties and Polarization Reversal in (Li,Na)NbO ₃ Lead-Free Piezoelectric Ceramics. Key Engineering Materials, 2011, 485, 69-72.	0.4	3
45	Polarization Reversals with 90° Domain Walls in Bi ₄ Ti ₃ O ₁₂ . Journal of the Korean Physical Society, 2007, 51, 740.	0.7	2
46	Cation Distribution and Melting Behavior of La ₃ Ga ₅ M ₄ O ₁₄ (M = Si, Ti, Ge, Zr, Sn, and Hf) Crystals. Ferroelectrics, 2003, 295, 67-76.	0.6	2
47	Electrical Properties and Phase Transition Behavior of (Li,Na,Ba)(Nb,Ti)O ₃ Lead-Free Piezoelectric Ceramics. Key Engineering Materials, 2009, 421-422, 42-45.	0.4	1
48	Synthesis of a sodium niobate-based lead-free piezoelectric ceramic using a submicron-sized NaNbO ₃ powder. , 2014, , .		1
49	Observation of Domain Wall Structures in Triglycine Sulfate by Using Scanning Probe Microscopy. Journal of the Korean Physical Society, 2009, 55, 746-748.	0.7	1
50	Electrical Properties of Na _{0.5} Bi _{2.5} Ta ₂ O ₉ -Sr _{1-x} Bi _{2+y} Ta ₂ O ₉ Solid Solution Ceramics. Key Engineering Materials, 2004, 264-268, 1241-1244.	0.2	0
51	Polarization Reversal Process in Bi ₄ Ti ₃ O ₁₂ with 90° Domain Wall Structure. Ferroelectrics, 2008, 368, 36-41.	0.6	0
52	Polarized Raman Study in Pb(Zn _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ Mixed Crystal. Ferroelectrics, 2008, 376, 74-80.	0.6	0
53	Observation of Cleavage Surface in Tri-Glycine Sulfate by Atomic Force Microscopy. Ferroelectrics, 2010, 400, 195-203.	0.6	0
54	Local Structure Analysis of Li-substituted (Bi _{0.5} Na _{0.5})TiO ₃ and NaNbO ₃ . Transactions of the Materials Research Society of Japan, 2014, 39, 247-250.	0.2	0

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55	Relationship Between Resistance Modulation and Magnetoelectric Direction in Cr2O3/ultrathin (La,Sr)MnO3 Heterostructure. E-Journal of Surface Science and Nanotechnology, 2011, 9, 138-141.	0.4	0
56	Synthesis of a sodium niobate-based lead-free piezoelectric ceramic using a submicron-sized NaNbO ₃ powder. , 2014, , .		0