Yuuki Kitanaka

List of Publications by Citations

83 papers	962 citations	20 h-index	27 g-index
86 ext. papers	1,057 ext. citations	1.8 avg, IF	4.13 L-index

#	Paper	IF	Citations
83	Oxygen-vacancy-induced 90° domain clamping in ferroelectric Bi4Ti3O12 single crystals. *Physical Review B*, **2010**, 81,	3.3	86
82	Electronic and local structures of Mn-doped BiFeO3 crystals. *Physical Review B*, **2012**, 86,	3.3	53
81	High-oxygen-pressure crystal growth of ferroelectric Bi4Ti3O12 single crystals. *Applied Physics Letters*, **2007**, 91, 162909	3.4	53
80	Giant photovoltaic effect of ferroelectric domain walls in perovskite single crystals. *Scientific Reports*, **2015**, 5, 14741	4.9	52
79	Switchable diode-effect mechanism in ferroelectric BiFeO3 thin film capacitors. *Journal of Applied Physics*, **2015**, 118, 114101	2.5	33
78	Ferroelectric polarization and piezoelectric properties of layer-structured K0.5Bi4.5Ti4O15 single crystals. *Applied Physics Letters*, **2008**, 93, 032904	3.4	32
77	Bulk and domain-wall effects in ferroelectric photovoltaics. *Physical Review B*, **2016**, 94,	3.3	32
76	Cooperative effect of oxygen-vacancy-rich layer and ferroelectric polarization on photovoltaic properties in BiFeO3 thin film capacitors. *Applied Physics Letters*, **2016**, 108, 032901	3.4	32
75	Non-180° polarization rotation of ferroelectric (Bi0.5Na0.5)TiO3 single crystals under electric field. *Physical Review B*, **2014**, 89,	3.3	28
74	Polarization and Piezoelectric Properties of High Performance Bismuth Sodium Titanate Single Crystals Grown by High-Oxygen-Pressure Flux Method. *Japanese Journal of Applied Physics*, **2010**, 49, 09MD09	1.4	27
73	High-Performance Ferroelectric Bi4Ti3O12Single Crystals Grown by Top-Seeded Solution Growth Method under High-Pressure Oxygen Atmosphere. *Japanese Journal of Applied Physics*, **2010**, 49, 09MC06	1.4	27
72	Defect control for polarization switching in BiFeO3 single crystals. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2010**, 57, 2233-6	3.2	24
71	Ferroelectrics with a controlled oxygen-vacancy distribution by design. *Scientific Reports*, **2019**, 9, 4225	4.9	23
70	Laser beam scanning microscope and piezoresponse force microscope studies on domain structured in 001-, 110-, and 111-oriented NaNbO3 films. *Journal of Applied Physics*, **2012**, 112, 052007	2.5	23
69	Crystal Growth and Characterization of (Bi$_{0.5}$Na$_{0.5}$)TiO$_{3}$–BaTiO$_{3}$ Single Crystals Obtained by a Top-Seeded Solution Growth Method under High-Pressure Oxygen Atmosphere. *Japanese Journal of Applied Physics*, **2011**, 50, 09NE07	1.4	23
68	Synchrotron Radiation Study on Time-Resolved Tetragonal Lattice Strain of BaTiO$_{3}$ under Electric Field. *Japanese Journal of Applied Physics*, **2011**, 50, 09NE05	1.4	22
67	Polarization Rotation and Monoclinic Distortion in Ferroelectric (Bi0.5Na0.5)TiO3–BaTiO3 Single Crystals under Electric Fields. *Crystals*, **2014**, 4, 273-295	2.3	21

66	Crystal Structural Analyses of Ferrielectric Tetragonal (Bi1/2Na1/2)TiO37%BaTiO3Powders and Single Crystals. *Japanese Journal of Applied Physics*, **2013**, 52, 09KD01	1.4	21
65	Effects of Mn doping on the polarization and leakage current properties in Bi4Ti3O12 single crystals. *Journal of the European Ceramic Society*, **2007**, 27, 4081-4084	6	21
64	Polarization twist in perovskite ferrielectrics. *Scientific Reports*, **2016**, 6, 32216	4.9	21
63	Heavy Mn-doping effect on spontaneous polarization in ferroelectric BiFeO3thin films. *Japanese Journal of Applied Physics*, **2015**, 54, 10NA03	1.4	18
62	Enhanced photovoltaic currents in strained Fe-doped LiNbO3 films. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 2968-2974	1.6	18
61	Ferroelectric domain structure and c-axis polarization switching in monoclinic Bi4Ti3O12 single crystals. *Applied Physics Letters*, **2007**, 90, 202904	3.4	18
60	Photocurrent Characteristics of Mn-Doped Barium Titanate Ferroelectric Single Crystals. *Japanese Journal of Applied Physics*, **2013**, 52, 09KF03	1.4	16
59	High-Performance Ferroelectric Bi0.5Na0.5TiO3 Single Crystals Grown by Top-Seeded Solution Growth Method under High-Pressure Oxygen Atmosphere. *Ferroelectrics*, **2011**, 414, 24-29	0.6	16
58	Electric-Field-Stabilized Ferroelastic Domain Walls in Monoclinic Bi4Ti3O12Crystals. *Japanese Journal of Applied Physics*, **2007**, 46, 7028-7030	1.4	16
57	Influence of growth conditions on the optical, electrical resistivity and piezoelectric properties of Ca3TaGa3Si2O14 single crystals. *Journal of the Ceramic Society of Japan*, **2016**, 124, 523-527	1	14
56	Influence of Oxygen Partial Pressure during Growth on Optical and Electrical Properties of Ca3TaAl3Si2O14 Single Crystals. *Crystal Growth and Design*, **2016**, 16, 2151-2156	3.5	13
55	Electrical conduction mechanism in BiFeO3-based ferroelectric thin-film capacitors: Impact of Mn dopingPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. *Journal of Asian Ceramic Societies*, **2015**, 3, 426-431	2.4	11
54	Ferrielectric phase in the (Bi1/2Na1/2)TiO3Ba(Mg1/3Nb2/3)O3system. *Japanese Journal of Applied Physics*, **2015**, 54, 10NC05	1.4	10
53	Temperature dependence of electrical resistivity, dielectric and piezoelectric properties of Ca3TaGa3AlxSi2O14 single crystals as a function of Al content. *Journal of Alloys and Compounds*, **2016**, 687, 797-803	5.7	9
52	Synchrotron Radiation Study on Time-Resolved Tetragonal Lattice Strain of BaTiO3under Electric Field. *Japanese Journal of Applied Physics*, **2011**, 50, 09NE05	1.4	8
51	Local polarization switching in epitaxial thin films of ferroelectric (Bi1/2Na1/2)TiO3Peer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. *Journal of Asian Ceramic Societies*, **2015**, 3, 160-163	2.4	7
50	Control of misfit strain in ferroelectric BaTiO3 thin-film capacitors with SrRuO3-based electrodes on (Ba, Sr)TiO3-buffered SrTiO3 substrates. *Applied Physics Letters*, **2018**, 113, 012903	3.4	7
49	Synchrotron Radiation Analyses of Domain Switching and Lattice Strain Behaviors for Ferroelectric (Bi0.5Na0.5)TiO3 Single Crystals under Electric Fields. *Ferroelectrics*, **2013**, 443, 1-7	0.6	7

48	ENHANCED PIEZOELECTRIC PROPERTIES IN (Bi0.5K0.5)TiO3(Bi0.5Na0.5)TiO3 FERROELECTRIC SINGLE CRYSTALS. *Journal of Advanced Dielectrics*, **2011**, 01, 63-69	1.3	7
47	Crystal Growth and Characterization of (Bi0.5Na0.5)TiO3BaTiO3Single Crystals Obtained by a Top-Seeded Solution Growth Method under High-Pressure Oxygen Atmosphere. *Japanese Journal of Applied Physics*, **2011**, 50, 09NE07	1.4	7
46	Ferrielectric-mediated morphotropic phase boundaries in Bi-based polar perovskites. *Scientific Reports*, **2019**, 9, 4087	4.9	6
45	Strong interaction between ferroelectric polarization and oxygen vacancy in BiFeO3 thin film capacitors. *Journal of the Ceramic Society of Japan*, **2016**, 124, 634-638	1	6
44	Polarization properties and crystal structures of ferroelectric (Ba,Ca)TiO3 single crystals. *Journal of Advanced Dielectrics*, **2014**, 04, 1450003	1.3	6
43	Polarization degradation and oxygen-vacancy rearrangement in Mn-doped BaTiO3 ferroelectrics ceramics. *Journal of the Ceramic Society of Japan*, **2014**, 122, 373-380	1	6
42	Enhanced polarization switching in ferroelectric Bi0.5Na0.5TiO3 single crystals by defect control. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 791-795	1.6	6
41	Synchrotron radiation analyses of lattice strain behaviors for rhombohedral Pb(Zn1/3Nb2/3)O3PbTiO3 single crystals under electric fields. *Journal of the Ceramic Society of Japan*, **2013**, 121, 632-637	1	6
40	Visualization of spontaneous electronic polarization in Pb ion of ferroelectric PbTiO3 by synchrotron-radiation x-ray diffraction. *Applied Physics Letters*, **2020**, 117, 252905	3.4	6
39	Elastic and Piezoelectric Properties of High-Quality Ferroelectric Bi$_{4}$Ti$_{3}$O$_{12}$ Single Crystals. *Japanese Journal of Applied Physics*, **2012**, 51, 09LD08	1.4	5
38	Piezoelectric Ca3TaAl3Si2O14 (CTAS): High quality 2-in. single-crystal growth and electro-elastic properties from room to high (650 °C) temperature. *Journal of Crystal Growth*, **2018**, 501, 38-42	1.6	5
37	An optical method for evaluating the degradation mechanism of a developing RuO2 thick film resistor element for power modules. *Journal of the Ceramic Society of Japan*, **2017**, 125, 476-481	1	4
36	Crystal Growth and Ferroelectric Properties in Bi0.5K0.5TiO3-Bi0.5Na0.5TiO3 Crystals. *Key Engineering Materials*, **2010**, 445, 7-10	0.4	4
35	(Invited) High-Temperature-Operating Dielectrics of Perovskite Oxides. *ECS Transactions*, **2012**, 45, 195-207	1	4
34	Crystal structure and polarization hysteresis properties of ferroelectric BaTiO3thin-film capacitors on (Ba,Sr)TiO3-buffered substrates. *Japanese Journal of Applied Physics*, **2016**, 55, 10TA03	1.4	4
33	Crystal structure and ferroelectric polarization of tetragonal (Bi1/2Na1/2)TiO32BaTiO3. *Japanese Journal of Applied Physics*, **2018**, 57, 11UD05	1.4	4
32	Nanoscale Characterization of Domain Structures in Bi$_{4}$Ti$_{3}$O$_{12}$ Single Crystals Using Near-Field Raman Spectroscopy. *Japanese Journal of Applied Physics*, **2011**, 50, 09NE10	1.4	3
31	Elastic and Piezoelectric Properties of High-Quality Ferroelectric Bi4Ti3O12Single Crystals. *Japanese Journal of Applied Physics*, **2012**, 51, 09LD08	1.4	3

30	Enhanced polarization properties of ferrielectric AgNbO3single crystals grown by Czochralski method under high-pressure oxygen atmosphere. *Japanese Journal of Applied Physics*, **2016**, 55, 10TB03	1.4	3
29	Polarization-switching dynamics and microstructures of ferroelectric (Bi0.5Na0.5)TiO3 single crystals. *Journal of the Korean Physical Society*, **2013**, 62, 1035-1040	0.6	2
28	Resistivity and piezoelectric properties of Ca3TaGa1.5Al1.5Si2O14 single crystals for high temperature sensors. *RSC Advances*, **2017**, 7, 56697-56703	3.7	2
27	Enhanced polarization properties of ferroelectric (Bi1/2Na1/2)TiO3–Ba(Mg1/3Nb2/3)O3 single crystals grown under high-pressure oxygen atmosphere. *Journal of the Ceramic Society of Japan*, **2017**, 125, 463-467	1	2
26	Growth and Ferroelectric/Piezoelectric Properties of (K,Na)(Nb,Ta)O3 Ferroelectric Single Crystals. *Key Engineering Materials*, **2013**, 566, 64-67	0.4	2
25	Materials Design and Characterization of (Bi1/2Na1/2)TiO3-Bi(B[B]O3 Ceramics. *Key Engineering Materials*, **2010**, 445, 59-62	0.4	2
24	Nanoscale Characterization of Domain Structures in Bi4Ti3O12Single Crystals Using Near-Field Raman Spectroscopy. *Japanese Journal of Applied Physics*, **2011**, 50, 09NE10	1.4	2
23	Uncovering ferroelectric polarization in tetragonal (BiK)TiO-(BiNa)TiO single crystals. *Scientific Reports*, **2019**, 9, 19275	4.9	2
22	Passive Component Enhancements in High-Temperature Electronic Devices: A Deterioration Mechanism for Metal Electrodes in Ceramic Film Resistors. *Industrial & Engineering Chemistry Research*, **2020**, 59, 10483-10492	3.9	1
21	Composition-driven structural variation in ferrielectric phase of (Bi1/2Na1/2)TiO3-Ba(Mg1/3Nb2/3)O3. *Japanese Journal of Applied Physics*, **2019**, 58, SLLA04	1.4	1
20	Photocurrent Characteristics for Mn-doped Barium Titanate Ferroelectric Single Crystals. *Transactions of the Materials Research Society of Japan*, **2014**, 39, 259-264	0.2	1
19	Crystal Structures and Surface Morphologies of LaGaO3-Based Epitaxial Thin Films Grown by a Pulse Laser Deposition Method. *Key Engineering Materials*, **2013**, 582, 153-156	0.4	1
18	Leakage Current and Polarization Properties of (Bi0.5Na0.5)TiO3-BaTiO3 Single Crystals. *Key Engineering Materials*, **2013**, 582, 96-99	0.4	1
17	Ferroelectric Properties and Domain Clamping of (Bi0.5Na0.5)TiO3 Single Crystals Grown under High-Oxygen-Pressure Atmosphere. *Key Engineering Materials*, **2013**, 566, 29-33	0.4	1
16	Ferroelectric Polarization Properties in High-Performance Bismuth Sodium Titanate Single Crystals. *Key Engineering Materials*, **2011**, 485, 7-10	0.4	1
15	Ferroelectric and Piezoelectric Properties of Bi4Ti3O12 Single Crystals Grown by Top-Seeded Solution Growth Method at High Oxygen Pressure. *Key Engineering Materials*, **2011**, 485, 73-76	0.4	1
14	Domain Dynamics of C-Axis Polarization in Bismuth Titanate Crystals. *Key Engineering Materials*, **2007**, 350, 69-72	0.4	1
13	Lattice engineering by Sr-substitution leads to high piezoelectric performance of (SrxCa1-x)3TaAl3Si2O14 single crystals. *Journal of Alloys and Compounds*, **2021**, 851, 156860	5.7	1

12	Fabrication and characterization of (Ba, Sr)RuO3 ceramic targets and thin films for ferroelectric BaTiO3 thin-film capacitors. *AIP Advances*, **2018**, 8, 115135	1.5	1
11	Synchrotron radiation analyses of domain switching behaviors for ferroelectric BaTiO3 single crystals under electric fields. *Journal of the Korean Physical Society*, **2013**, 62, 1046-1050	0.6	
10	Spontaneous Polarization and Local Structures in Ca-substituted BaTiO3. *Transactions of the Materials Research Society of Japan*, **2014**, 39, 121-124	0.2	
9	Clamping of Non-180° Domain Walls in Bi-Based Ferroelectric Single Crystals. *Transactions of the Materials Research Society of Japan*, **2012**, 37, 69-72	0.2	
8	Domain Dynamics under Unipolar Electric Fields for BaTiO3 Single Crystals. *Key Engineering Materials*, **2013**, 582, 40-43	0.4	
7	Polarization Switching Dynamics of Ferroelectric (Bi0.5Na0.5)TiO3 Single Crystals. *Key Engineering Materials*, **2013**, 582, 51-54	0.4	
6	Crystal Growth and Characterization of (Bi0.5Na0.5)TiO3-BaTiO3 Single Crystals Obtained by the Top-Seeded Solution Growth Method under High-Pressure Oxygen Atmosphere. *Key Engineering Materials*, **2013**, 566, 25-28	0.4	
5	Lattice-Defect Control for High-Performance Bismuth-Based Ferroelectric/Piezoelectric Crystals. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2012**, 59, 22-28	0.2	
4	Behaviors of 90° and 180° Domain Walls under c-axis Polarization Switching in Ferroelectric Bi4Ti3O12 Single Crystals. *Transactions of the Materials Research Society of Japan*, **2009**, 34, 27-30	0.2	
3	Switching properties and domain dynamics of the c-axis polarization in monoclinic Bi4Ti3O12 single crystals. *Transactions of the Materials Research Society of Japan*, **2008**, 33, 19-22	0.2	
2	Effects of Oxygen Pressure during Crystal Growth on the Polarization Properties in Bi4Ti3O12 Single Crystals. *Transactions of the Materials Research Society of Japan*, **2008**, 33, 53-56	0.2	
1	Photon energy dependence of photovoltaic properties in ferroelectric BiFeO3 thin-film capacitors. *Transactions of the Materials Research Society of Japan*, **2016**, 41, 201-204	0.2	