

T K Song

List of Publications by Year in descending order

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85
papers

2,386
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304743

22
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48
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85
all docs

85
docs citations

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times ranked

2471
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, electrical, and multiferroic properties of Aurivillius $\text{Bi}_6\text{Fe}_2(\text{Ti}_{3-x}\text{V}_x)\text{O}_{18+\hat{1}}$ thin films prepared by chemical solution deposition. <i>Journal of Electroceramics</i> , 2016, 36, 76-81.	2.0	3
2	Effects of Mn-doping on the electrical and the ferroelectric properties of $\text{Bi}_6\text{Fe}_2\text{Ti}_3\text{O}_{18}$ thin films prepared by using chemical solution deposition. <i>Journal of the Korean Physical Society</i> , 2015, 66, 1344-1349.	0.7	2
3	Enhancement of Dielectric and Piezoelectric Properties of $\text{Bi}_6\text{Fe}_2\text{Ti}_3\text{O}_{18}$ with Na/K Ion Excess in A-site. <i>Ferroelectrics</i> , 2015, 479, 22-28.	0.6	2
4	Structural evolution of bismuth sodium titanate induced by a-site non-stoichiometry: Neutron powder diffraction studies. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1583-1587.	0.7	17
5	Enhanced piezoelectric properties of BaZrO_3 -substituted 0.67BiFeO_3 - 0.33BaTiO_3 lead-free ceramics. <i>Journal of the Korean Physical Society</i> , 2015, 66, 1106-1109.	0.7	15
6	Effects of sintering temperature on the electric properties of Mn-modified BiFeO_3 - BaTiO_3 bulk ceramics. <i>Journal of the Korean Physical Society</i> , 2015, 66, 1115-1119.	0.7	22
7	Structure and Multiferroic Properties of V-doped $\text{Bi}_{6-x}\text{Fe}_2\text{Ti}_3\text{O}_{18}$ Thin Films Prepared by Chemical Solution Deposition. <i>Ferroelectrics</i> , 2014, 465, 68-75.	0.6	5
8	Effect of A-site Excess on the Piezoelectric Properties of $(\text{K}_{0.48}\text{Na}_{0.52})_{1+x}(\text{Nb}_{0.55}\text{Ta}_{0.45})_{1-x}\text{O}_3$ Thin Films. <i>Ferroelectrics</i> , 2014, 465, 60-67.	0.6	3
9	Impedance Spectroscopy of Sodium Excess Ta-Modified $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ Ceramics Prepared by Reactive Templated Grain Growth. <i>Ferroelectrics</i> , 2014, 464, 107-115.	0.6	4
10	Ferroelectric and piezoelectric properties of Mn-modified BiFeO_3 - BaTiO_3 ceramics. <i>Journal of Electroceramics</i> , 2014, 33, 37-41.	2.0	24
11	Synthesis, Structural Analysis, and Dielectric Response of NaNbO_3 Particles Synthesized by Different Techniques. <i>Materials and Manufacturing Processes</i> , 2014, 29, 733-737.	4.7	3
12	Piezoelectric and ferroelectric properties of textured $(\text{Na}_{0.5}\text{K}_{0.47}\text{Li}_{0.03})(\text{Nb}_{0.8}\text{Ta}_{0.2})\text{O}_3$ ceramics by using template grain growth method. <i>Journal of Electroceramics</i> , 2013, 30, 72-76.	2.0	10
13	Enhanced piezoelectric properties of lead-free $0.935(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ - 0.065BaTiO_3 thin films fabricated by using pulsed laser deposition. <i>Journal of the Korean Physical Society</i> , 2013, 62, 1031-1034.	0.7	7
14	Temperature dependence of the electrical properties in MnO-modified BiFeO_3 thin films. <i>Journal of the Korean Physical Society</i> , 2013, 62, 1073-1076.	0.7	1
15	A Phenomenological Approach to Phase Transition Temperatures of $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ - BiFeO_3 System. <i>Ferroelectrics</i> , 2013, 450, 16-20.	0.6	0
16	Ferroelectric and Piezoelectric Properties of BiFeO_3 - BaTiO_3 Solid Solution Ceramics. <i>Ferroelectrics</i> , 2013, 452, 7-12.	0.6	15
17	Structural and electrical properties of polycrystalline $\text{Bi}(\text{Fe}_{0.6}\text{Mn}_{0.4})\text{O}_3$ thin films. <i>Journal of the Korean Physical Society</i> , 2013, 63, 2325-2329.	0.7	6
18	Enhancement of ferroelectricity in gadolinium (Gd) and transition metal (Ni, Co, Cr) Co-doped BiFeO_3 thin films via a chemical solution deposition technique. <i>Journal of Electroceramics</i> , 2013, 30, 13-18.	2.0	16

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19	Effects of transition metal (Ni, Mn, Cu) doping on ferroelectric properties of Bi _{0.9} Nd _{0.1} FeO ₃ thin films prepared by chemical solution deposition method. Journal of Electroceramics, 2013, 30, 55-59.	2.0	3
20	The Effects of Mn Substitution and Oxidation States of Mn in BiFeO ₃ Thin Films. Ferroelectrics, 2013, 454, 57-62.	0.6	3
21	Leakage Current Behaviors of SrTiO ₃ Capped Mn-doped Polycrystalline BiFeO ₃ Thin Film. Ferroelectrics, 2013, 454, 19-22.	0.6	2
22	Enhancement of Ferroelectricity in Rare Earth and Manganese Ions Co-doped BiFeO ₃ Thin Films via Chemical Solution Deposition Method. Integrated Ferroelectrics, 2012, 132, 45-52.	0.7	1
23	Effects of Annealing Atmosphere on Structure and Electrical Properties of (Bi _{0.9} Eu _{0.1})(Fe _{0.9} Mn _{0.1})O ₃ Thin Films. Integrated Ferroelectrics, 2012, 132, 39-44.	0.7	2
24	Leakage Current Behaviors of SrTiO ₃ /BiFeO ₃ Multi-Layers Fabricated by Pulsed Laser Deposition. Integrated Ferroelectrics, 2012, 134, 133-138.	0.7	6
25	Structure and Electrical Properties of Rare Earth Substituted Bi (Fe _{0.975} Cu _{0.025})O ₃ Thin Films Prepared by Chemical Solution Deposition. Integrated Ferroelectrics, 2012, 132, 22-29.	0.7	0
26	Structural, optical, and magnetic properties of single-crystalline Mn ₃ O ₄ nanowires. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	17
27	Effects of Li Substitution in (Na _{0.53} K _{0.47-x} Li _x)NbO ₃ Ceramics. Integrated Ferroelectrics, 2012, 133, 61-66.	0.7	0
28	Structural and Electrical Studies on (Nd, V) Co-doped (Bi _{0.9} Nd _{0.1})(Fe _{0.975} V _{0.025})O ₃ Thin Films. Integrated Ferroelectrics, 2012, 140, 56-63.	0.7	0
29	Enhanced piezoelectric properties of (Na _{0.5+y+z} K _{0.5-x})(Nb _{1-x} Ta _x) ₂ Ti ₂ O ₁₀ ferroelectric thin films. Journal of Applied Physics, 2012, 112, 044102.	3.3	36
30	Electrical Properties of (Bi _{0.9} Ho _{0.1})(Fe _{0.975} Cr _{0.025})O ₃ Thin Films Prepared by Using a Chemical Solution Deposition. Integrated Ferroelectrics, 2012, 140, 49-55.	0.7	1
31	Effects of A-Site Nonstoichiometry on Dielectric and Piezoelectric Properties of Pb-Free (Na _{0.53+x}) ₂ Ti ₂ O ₁₀ ferroelectric thin films. Journal of Applied Physics, 2012, 112, 044102.	0.7	4
32	Reduced leakage current and improved ferroelectric properties of Eu and Mn codoped BiFeO ₃ thin films. Journal of the Korean Physical Society, 2012, 60, 203-206.	0.7	3
33	Electric properties of a textured BiNaKTiO ₃ ceramic for energy harvesting system. Journal of the Korean Physical Society, 2012, 60, 240-243.	0.7	2
34	Electrical properties of thin films deposited with MnO- and MnO ₂ -modified BiFeO ₃ oxide targets. Journal of the Korean Physical Society, 2012, 61, 1070-1074.	0.7	5
35	Influence of zirconium substitution on dielectric, ferroelectric and field-induced strain behaviors of lead-free 0.99[Bi _{1/2} (Na _{0.82} K _{0.18}) _{1/2} (Ti _{1-x} Zr _x)O ₃]-0.01LiSbO ₃ ceramics. Journal of the Korean Physical Society, 2012, 61, 773-778.	0.7	10
36	Effect of oxygen pressure on electrical properties of Ge-doped ZnO thin films grown by using pulsed laser deposition. Journal of the Korean Physical Society, 2012, 61, 920-923.	0.7	8

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37	A rhombohedral structure-properties relation in Pb-free Bi _{0.5} (Na _{1-x} K _x) _{0.5} TiO ₃ ceramics. Journal of the Korean Physical Society, 2012, 60, 284-287.	0.7	2
38	Thickness-dependent ferroelectric behaviors of (111)-textured polycrystalline pseudo-cubic BiFeO ₃ thin films. Journal of the Korean Physical Society, 2012, 60, 288-291.	0.7	1
39	A-site effects on the dielectric and the piezoelectric properties of (Na _{0.50+x} K _{0.50-x})(Nb _{0.55} Ta _{0.45})O ₃ ceramics. Journal of the Korean Physical Society, 2012, 60, 297-300.	0.7	1
40	Effects of Bi nonstoichiometry in (Bi _{0.5+x} Na) _{0.5} TiO ₃ ceramics. Applied Physics Letters, 2011, 98, .	3.3	192
41	Step bunching-induced vertical lattice mismatch and crystallographic tilt in vicinal BiFeO ₃ (001) films. Applied Physics Letters, 2011, 98, .	3.3	22
42	Roles of lattice distortion in (1-x)(Bi _{0.5} Na _{0.5})TiO ₃ -xBaTiO ₃ ceramics. Applied Physics Letters, 2010, 96, .	3.3	112
43	Effects of Na nonstoichiometry in (Bi _{0.5} Na _{0.5+x})TiO ₃ ceramics. Applied Physics Letters, 2010, 96, .	3.3	169
44	Effects of K Nonstoichiometry in (Bi _{0.5-x} K _{0.5+x})TiO ₃ Ceramics. Integrated Ferroelectrics, 2010, 114, 92-99.	0.7	4
45	Electrical Properties of V-Doped Na _{0.5-x} Bi _{4.5-x} Ti _{4-x} O _{15-x} Thin Films Prepared by Chemical Solution Deposition. Ferroelectrics, 2010, 406, 39-43.	0.6	3
46	Orientation Dependence of Electrical Properties of Bi _{3.15-x} Pr _{0.85-x} Ti _{3-x} O _{12-x} Thin Films. Ferroelectrics, 2010, 406, 44-48.	0.6	0
47	Inhomogeneous domain nucleation and growth in disordered ferroelectric capacitors observed by modified piezoresponse force microscopy. Journal Physics D: Applied Physics, 2010, 43, 395403.	2.8	12
48	Piezoelectric and Dielectric Properties of Lead-Free (1-x)(Bi _{0.5-x} K _{0.5-x})TiO ₃ -xBiFeO ₃ Ceramics. Ferroelectrics, 2010, 404, 88-92.	0.6	33
49	Piezoelectric and Dielectric Properties of (Bi _{0.5-x} K _{0.5-x} Li _x)TiO ₃ Ceramics. Ferroelectrics, 2010, 404, 82-87.	0.6	0
50	ac dynamics of ferroelectric domains from an investigation of the frequency dependence of hysteresis loops. Physical Review B, 2010, 82, .	3.2	96
51	Energy Band Gap Shift of ZnS-ZnO Thin Films Grown by Pulsed Laser Deposition. Ferroelectrics, 2010, 404, 186-191.	0.6	2
52	Enhanced piezoelectric properties of (Bi _{0.5} K _{0.5+x} Li _y)TiO ₃ ceramics by K nonstoichiometry and Li addition. Applied Physics Letters, 2009, 94, 062901.	3.3	22
53	Electric-field-controlled directional motion of ferroelectric domain walls in multiferroic BiFeO ₃ films. Applied Physics Letters, 2009, 95, .	3.3	29
54	FABRICATION AND ORIENTATION DEPENDENCE ON ELECTRICAL PROPERTIES OF Na _{0.5-x} Bi _{4.5-x} Ti _{4-x} O _{15-x} THIN FILMS. Integrated Ferroelectrics, 2009, 107, 112-120.	0.7	5

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55	Effects of A-Site Ionic Contents on Piezoelectric and Ferroelectric Properties of Lead-Free (K _{0.5} Na _{0.5})NbO ₃ -LiNbO ₃ Ceramics. <i>Ferroelectrics</i> , 2009, 381, 176-182.	0.6	2
56	Dielectric and Piezoelectric Properties of Lead-free BaTiO ₃ -Bi(Zn _{0.5} Ti _{0.5})O ₃ and (Bi _{0.5} Na _{0.5})TiO ₃ -Bi(Zn _{0.5} Ti _{0.5})O ₃ Ceramics. <i>Ferroelectrics</i> , 2009, 380, 177-182.	0.6	9
57	Ferroelectric and leakage current behaviors of BiFeO ₃ -Bi(Zn _{1/2} Ti _{1/2})O ₃ ceramics. <i>Journal of Applied Physics</i> , 2009, 105, 061640.	2.5	8
58	Composition-dependent polarization switching behaviors of (111)-preferred polycrystalline Pb(Zr _x Ti _{1-x})O ₃ thin films. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	23
59	Domain wall motion in epitaxial Pb(Zr,Ti)O ₃ capacitors investigated by modified piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	59
60	Domain Switching Kinetics in Disordered Ferroelectric Thin Films. <i>Physical Review Letters</i> , 2007, 99, 267602.	7.8	234
61	FERROELECTRIC SWITCHING DYNAMICS AND PULSE-SWITCHING POLARIZATION MEASUREMENTS. <i>Integrated Ferroelectrics</i> , 2006, 78, 191-197.	0.7	16
62	EFFECT OF BiFeO ₃ DOPING ON FERROELECTRIC AND PIEZOELECTRIC PROPERTIES OF (Bi _{0.5} Na _{0.5})TiO ₃ AND BaTiO ₃ CERAMICS. <i>Integrated Ferroelectrics</i> , 2006, 84, 31-38.	0.7	5
63	Coercive fields in ultrathin BaTiO ₃ capacitors. <i>Applied Physics Letters</i> , 2006, 89, 232909.	3.3	61
64	Ferroelectric properties of SrRuO ₃ /BaTiO ₃ /SrRuO ₃ ultrathin film capacitors free from passive layers. <i>Applied Physics Letters</i> , 2006, 88, 072909.	3.3	57
65	Polarization Switching Dynamics Governed by the Thermodynamic Nucleation Process in Ultrathin Ferroelectric Films. <i>Physical Review Letters</i> , 2006, 97, 247602.	7.8	85
66	FERROELECTRIC SWITCHING DYNAMICS AND PULSE-SWITCHING POLARIZATION MEASUREMENTS. <i>Integrated Ferroelectrics</i> , 2005, 73, 115-121.	0.7	1
67	Polarization switching kinetics of epitaxial Pb(Zr _{0.4} Ti _{0.6})O ₃ thin films. <i>Applied Physics Letters</i> , 2005, 86, 092905.	3.3	141
68	Microstructure and Ferroelectric Properties of (Bi,Nd) ₄ Ti ₃ O ₁₂ Thin Films Fabricated by a Sol-Gel Process. <i>Ferroelectrics</i> , 2005, 328, 139-143.	0.6	0
69	The C-V Characteristics of Metal/Bi _{3.54} Nd _{0.46} Ti ₃ O ₁₂ /Silicon Structure. <i>Ferroelectrics</i> , 2005, 328, 133-137.	0.6	2
70	Polarization Relaxation Induced by a Depolarization Field in Ultrathin Ferroelectric BaTiO ₃ Capacitors. <i>Physical Review Letters</i> , 2005, 95, 237602.	7.8	305
71	The Lanthanide Doping Effects on the Electrical Properties of Bi ₄ Ti ₃ O ₁₂ Thin Films Fabricated on Silicon Substrates. <i>Integrated Ferroelectrics</i> , 2004, 65, 49-55.	0.7	1
72	Ionic Doping Effects in SrBi ₂ Nb ₂ O ₉ Ferroelectric Ceramics. <i>Journal of Electroceramics</i> , 2004, 13, 51-54.	2.0	14

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73	Ferroelectric Properties of (Bi, Sm)4Ti3O12 (BST) Thin Films Fabricated by a Metalorganic Solution Deposition Method. Journal of Electroceramics, 2004, 13, 83-88.	2.0	0
74	Dielectric and Piezoelectric Properties of Nonstoichiometric SrBi2Ta2O9 and SrBi2Nb2O9 Ceramics. Journal of Electroceramics, 2004, 13, 515-518.	2.0	16
75	Charge Retention Loss and Its Mechanism of (Bi, La)4Ti3O12 Capacitors. Integrated Ferroelectrics, 2004, 67, 85-91.	0.7	0
76	Mechanisms for retention loss in ferroelectric Pt/Pb(Zr0.4Ti0.6)O3/Pt capacitors. Applied Physics Letters, 2003, 82, 2124-2126.	3.3	41
77	Polarization dynamics and retention loss in fatigued PbZr0.4Ti0.6O3 ferroelectric capacitors. Applied Physics Letters, 2003, 82, 248-250.	3.3	38
78	Mechanism of Charge Retention Loss in Ferroelectric Pt/Pb(Zr,Ti)O3/Pt Capacitors and Its Relation to Fatigue and Imprint. Integrated Ferroelectrics, 2003, 53, 401-411.	0.7	6
79	Retention Characteristics of Bi 3.25 La 0.75 Ti 3 O 12 Films Deposited by Using Pulsed Laser Deposition. Ferroelectrics, 2002, 271, 63-68.	0.6	2
80	Circuit Parameter Effects in Pulse Switching Responses of Ferroelectric Capacitors. Ferroelectrics, 2002, 273, 107-112.	0.6	0
81	AC Conductivity and Dielectric Relaxation of Ion Doped Ferroelectric SrBi 2 Nb 2 O 9 Ceramics. Ferroelectrics, 2002, 268, 345-350.	0.6	1
82	Controlled growth of a-/b- and c-axis oriented epitaxial SrBi2Ta2O9 ferroelectric thin films. Applied Physics Letters, 1999, 75, 2827-2829.	3.3	41
83	Leakage current mechanisms in lead-based thin-film ferroelectric capacitors. Physical Review B, 1999, 59, 16022-16027.	3.2	136
84	Evaluation of imprint in fully integrated (La,Sr)CoO3/Pb(Nb,Zr,Ti)O3/(La,Sr)CoO3 ferroelectric capacitors. Journal of Applied Physics, 1998, 83, 2165-2171.	2.5	49
85	Structural and ferroelectric properties of the c-axis oriented SrBi2Ta2O9 thin films deposited by the radio-frequency magnetron sputtering. Applied Physics Letters, 1996, 69, 3839-3841.	3.3	79