

T K Song

List of Publications by Year in descending order

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85
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2,386
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304743

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48
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85
docs citations

85
times ranked

2471
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization Relaxation Induced by a Depolarization Field in Ultrathin Ferroelectric BaTiO ₃ Capacitors. Physical Review Letters, 2005, 95, 237602.	7.8	305
2	Domain Switching Kinetics in Disordered Ferroelectric Thin Films. Physical Review Letters, 2007, 99, 267602.	7.8	234
3	Effects of Bi nonstoichiometry in (Bi _{0.5+x} Na)TiO ₃ ceramics. Applied Physics Letters, 2011, 98, .	3.3	192
4	Effects of Na nonstoichiometry in (Bi _{0.5} Na _{0.5+x})TiO ₃ ceramics. Applied Physics Letters, 2010, 96, .	3.3	169
5	Polarization switching kinetics of epitaxial Pb(Zr _{0.4} Ti _{0.6})O ₃ thin films. Applied Physics Letters, 2005, 86, 092905.	3.3	141
6	Leakage current mechanisms in lead-based thin-film ferroelectric capacitors. Physical Review B, 1999, 59, 16022-16027.	3.2	136
7	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
8	ac dynamics of ferroelectric domains from an investigation of the frequency dependence of hysteresis loops. Physical Review B, 2010, 82, .	3.2	96
9	Polarization Switching Dynamics Governed by the Thermodynamic Nucleation Process in Ultrathin Ferroelectric Films. Physical Review Letters, 2006, 97, 247602.	7.8	85
10	Structural and ferroelectric properties of the c-axis oriented SrBi ₂ Ta ₂ O ₉ thin films deposited by the radio-frequency magnetron sputtering. Applied Physics Letters, 1996, 69, 3839-3841.	3.3	79
11	Coercive fields in ultrathin BaTiO ₃ capacitors. Applied Physics Letters, 2006, 89, 232909.	3.3	61
12	Domain wall motion in epitaxial Pb(Zr,Ti)O ₃ capacitors investigated by modified piezoresponse force microscopy. Applied Physics Letters, 2008, 92, .	3.3	59
13	Ferroelectric properties of SrRuO ₃ /BaTiO ₃ /SrRuO ₃ ultrathin film capacitors free from passive layers. Applied Physics Letters, 2006, 88, 072909.	3.3	57
14	Evaluation of imprint in fully integrated (La,Sr)CoO ₃ /Pb(Nb,Zr,Ti)O ₃ /(La,Sr)CoO ₃ ferroelectric capacitors. Journal of Applied Physics, 1998, 83, 2165-2171.	2.5	49
15	Controlled growth of a/b- and c-axis oriented epitaxial SrBi ₂ Ta ₂ O ₉ ferroelectric thin films. Applied Physics Letters, 1999, 75, 2827-2829.	3.3	41
16	Mechanisms for retention loss in ferroelectric Pt/Pb(Zr _{0.4} Ti _{0.6})O ₃ /Pt capacitors. Applied Physics Letters, 2003, 82, 2124-2126.	3.3	41
17	Polarization dynamics and retention loss in fatigued PbZr _{0.4} Ti _{0.6} O ₃ ferroelectric capacitors. Applied Physics Letters, 2003, 82, 248-250.	3.3	38
18	Piezoelectric and Dielectric Properties of Lead-Free (1-x)(Bi _{0.5} K _{0.5})TiO ₃ -xBiFeO ₃ Ceramics. Ferroelectrics, 2010, 404, 88-92.	0.6	33

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19	Enhanced piezoelectric properties of $(\text{Na}_{0.5+y+z}\text{K}_{0.5-x}\text{Nb}_{1-x}\text{Ta}_x)\text{TiO}_3$ thin films. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	30
20	Electric-field-controlled directional motion of ferroelectric domain walls in multiferroic BiFeO_3 films. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	29
21	Ferroelectric and piezoelectric properties of Mn-modified BiFeO_3 - BaTiO_3 ceramics. <i>Journal of Electroceramics</i> , 2014, 33, 37-41.	2.0	24
22	Composition-dependent polarization switching behaviors of (111)-preferred polycrystalline $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ thin films. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	23
23	Enhanced piezoelectric properties of $(\text{Bi}_{0.5}\text{K}_{0.5-x}\text{Li}_x)\text{TiO}_3$ ceramics by K nonstoichiometry and Li addition. <i>Applied Physics Letters</i> , 2009, 94, 062901.	3.3	22
24	Step bunching-induced vertical lattice mismatch and crystallographic tilt in vicinal $\text{BiFeO}_3(001)$ films. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	22
25	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
26	Structural, optical, and magnetic properties of single-crystalline Mn_3O_4 nanowires. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	17
27	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
28	Dielectric and Piezoelectric Properties of Nonstoichiometric $\text{SrBi}_2\text{Ta}_2\text{O}_9$ and $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Ceramics. <i>Journal of Electroceramics</i> , 2004, 13, 515-518.	2.0	16
29	FERROELECTRIC SWITCHING DYNAMICS AND PULSE-SWITCHING POLARIZATION MEASUREMENTS. <i>Integrated Ferroelectrics</i> , 2006, 78, 191-197.	0.7	16
30	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
31	Ferroelectric and Piezoelectric Properties of BiFeO_3 - BaTiO_3 Solid Solution Ceramics. <i>Ferroelectrics</i> , 2013, 452, 7-12.	0.6	15
32	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
33	Ionic Doping Effects in $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Ferroelectric Ceramics. <i>Journal of Electroceramics</i> , 2004, 13, 51-54.	2.0	14
34	Inhomogeneous domain nucleation and growth in disordered ferroelectric capacitors observed by modified piezoresponse force microscopy. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 395403.	2.8	12
35	Influence of zirconium substitution on dielectric, ferroelectric and field-induced strain behaviors of lead-free $0.99[\text{Bi}_{1/2}(\text{Na}_{0.82}\text{K}_{0.18})_{1/2}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3]-0.01\text{LiSbO}_3$ ceramics. <i>Journal of the Korean Physical Society</i> , 2012, 61, 773-778.	0.7	10
36	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

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37	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
38	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
39	Effect of oxygen pressure on electrical properties of Ge-doped ZnO thin films grown by using pulsed laser deposition. <i>Journal of the Korean Physical Society</i> , 2012, 61, 920-923.	0.7	8
40	Enhanced piezoelectric properties of lead-free 0.935(Bi _{0.5} Na _{0.5})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
41	Mechanism of Charge Retention Loss in Ferroelectric Pt/Pb(Zr,Ti)O ₃ /Pt Capacitors and Its Relation to Fatigue and Imprint. <i>Integrated Ferroelectrics</i> , 2003, 53, 401-411.	0.7	6
42	Leakage Current Behaviors of SrTiO ₃ /BiFeO ₃ Multi-Layers Fabricated by Pulsed Laser Deposition. <i>Integrated Ferroelectrics</i> , 2012, 134, 133-138.	0.7	6
43	Structural and electrical properties of polycrystalline Bi(Fe _{0.6} Mn _{0.4})O ₃ thin films. <i>Journal of the Korean Physical Society</i> , 2013, 63, 2325-2329.	0.7	6
44	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
45	FABRICATION AND ORIENTATION DEPENDENCE ON ELECTRICAL PROPERTIES OF Na _{0.5} Bi _{4.5} Ti ₄ O ₁₅ THIN FILMS. <i>Integrated Ferroelectrics</i> , 2009, 107, 112-120.	0.7	5
46	Electrical properties of thin films deposited with MnO- and MnO ₂ -modified BiFeO ₃ oxide targets. <i>Journal of the Korean Physical Society</i> , 2012, 61, 1070-1074.	0.7	5
47	Structure and Multiferroic Properties of V-doped Bi ₆ Fe ₂ Ti ₃ O ₁₈ Thin Films Prepared by Chemical Solution Deposition. <i>Ferroelectrics</i> , 2014, 465, 68-75.	0.6	5
48	Effects of K Nonstoichiometry in (Bi _{0.5} K _{0.5+x})TiO ₃ Ceramics. <i>Integrated Ferroelectrics</i> , 2010, 114, 92-99.	0.7	4
49	Effects of A-Site Nonstoichiometry on Dielectric and Piezoelectric Properties of Pb-Free (Na _{0.53+x}) ₄ Ti ₄ O ₁₄ Ceramics. <i>Journal of Applied Physics</i> , 2013, 114, 074102.	0.7	4
50	Impedance Spectroscopy of Sodium Excess Ta-Modified (K _{0.5} Na _{0.5})NbO ₃ Ceramics Prepared by Reactive Templated Grain Growth. <i>Ferroelectrics</i> , 2014, 464, 107-115.	0.6	4
51	Electrical Properties of V-Doped Na _{0.5} Bi _{4.5} Ti ₄ O ₁₅ Thin Films Prepared by Chemical Solution Deposition. <i>Ferroelectrics</i> , 2010, 406, 39-43.	0.6	3
52	Reduced leakage current and improved ferroelectric properties of Eu and Mn codoped BiFeO ₃ thin films. <i>Journal of the Korean Physical Society</i> , 2012, 60, 203-206.	0.7	3
53	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. <i>Journal of Electroceramics</i> , 2013, 30, 55-59.	2.0	3
54	The Effects of Mn Substitution and Oxidation States of Mn in BiFeO ₃ Thin Films. <i>Ferroelectrics</i> , 2013, 454, 57-62.	0.6	3

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55	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
56	Structural, electrical, and multiferroic properties of Aurivillius Bi ₆ Fe ₂ (Ti _{3-x} V _x)O ₁₈ + $\hat{\Gamma}$ thin films prepared by chemical solution deposition. <i>Journal of Electroceramics</i> , 2016, 36, 76-81.	2.0	3
57	Retention Characteristics of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ Films Deposited by Using Pulsed Laser Deposition. <i>Ferroelectrics</i> , 2002, 271, 63-68.	0.6	2
58	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
59	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
60	Energy Band Gap Shift of ZnS-ZnO Thin Films Grown by Pulsed Laser Deposition. <i>Ferroelectrics</i> , 2010, 404, 186-191.	0.6	2
61	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. <i>Integrated Ferroelectrics</i> , 2012, 132, 39-44.	0.7	2
62	Electric properties of a textured BiNaKTiO ₃ ceramic for energy harvesting system. <i>Journal of the Korean Physical Society</i> , 2012, 60, 240-243.	0.7	2
63	A rhombohedral structure-properties relation in Pb-free Bi _{0.5} (Na _{1-x} K _x) _{0.5} TiO ₃ ceramics. <i>Journal of the Korean Physical Society</i> , 2012, 60, 284-287.	0.7	2
64	Leakage Current Behaviors of SrTiO ₃ Capped Mn-doped Polycrystalline BiFeO ₃ Thin Film. <i>Ferroelectrics</i> , 2013, 454, 19-22.	0.6	2
65	Effects of Mn-doping on the electrical and the ferroelectric properties of Bi ₆ Fe ₂ Ti ₃ 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
66	Enhancement of Dielectric and Piezoelectric Properties of with Na/K Ion Excess in A-site. <i>Ferroelectrics</i> , 2015, 479, 22-28.	0.6	2
67	AC Conductivity and Dielectric Relaxation of Ion Doped Ferroelectric SrBi ₂ Nb ₂ O ₉ Ceramics. <i>Ferroelectrics</i> , 2002, 268, 345-350.	0.6	1
68	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
69	FERROELECTRIC SWITCHING DYNAMICS AND PULSE-SWITCHING POLARIZATION MEASUREMENTS. <i>Integrated Ferroelectrics</i> , 2005, 73, 115-121.	0.7	1
70	Enhancement of Ferroelectricity in Rare Earth and Manganese Ions Co-doped BiFeO ₃ Thin Films via Chemical Solution Deposition Method. <i>Integrated Ferroelectrics</i> , 2012, 132, 45-52.	0.7	1
71	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. <i>Integrated Ferroelectrics</i> , 2012, 140, 49-55.	0.7	1
72	Thickness-dependent ferroelectric behaviors of (111)-textured polycrystalline pseudo-cubic BiFeO ₃ thin films. <i>Journal of the Korean Physical Society</i> , 2012, 60, 288-291.	0.7	1

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73	A-site effects on the dielectric and the piezoelectric properties of $(\text{Na}_{0.50+x}\text{K}_{0.50-x})(\text{Nb}_{0.55}\text{Ta}_{0.45})\text{O}_3$ ceramics. Journal of the Korean Physical Society, 2012, 60, 297-300.	0.7	1
74	Temperature dependence of the electrical properties in MnO-modified BiFeO_3 thin films. Journal of the Korean Physical Society, 2013, 62, 1073-1076.	0.7	1
75	Circuit Parameter Effects in Pulse Switching Responses of Ferroelectric Capacitors. Ferroelectrics, 2002, 273, 107-112.	0.6	0
76	Ferroelectric Properties of $(\text{Bi}, \text{Sm})_4\text{Ti}_3\text{O}_{12}$ (BST) Thin Films Fabricated by a Metalorganic Solution Deposition Method. Journal of Electroceramics, 2004, 13, 83-88.	2.0	0
77	Charge Retention Loss and Its Mechanism of $(\text{Bi}, \text{La})_4\text{Ti}_3\text{O}_{12}$ Capacitors. Integrated Ferroelectrics, 2004, 67, 85-91.	0.7	0
78	Microstructure and Ferroelectric Properties of $(\text{Bi}, \text{Nd})_4\text{Ti}_3\text{O}_{12}$ Thin Films Fabricated by a Sol-Gel Process. Ferroelectrics, 2005, 328, 139-143.	0.6	0
79	Orientation Dependence of Electrical Properties of $\text{Bi}_{3.15}\text{Pr}_{0.85}\text{Ti}_3\text{O}_{12}$ Thin Films. Ferroelectrics, 2010, 406, 44-48.	0.6	0
80	Piezoelectric and Dielectric Properties of $(\text{Bi}_{0.5}\text{K}_{0.5-x}\text{Li}_x)\text{Ti}_3\text{O}_7$ Ceramics. Ferroelectrics, 2010, 404, 82-87.	0.6	0
81	Structure and Electrical Properties of Rare Earth Substituted $\text{Bi}(\text{Fe}_{0.975}\text{Cu}_{0.025})\text{O}_{3-\delta}$ Thin Films Prepared by Chemical Solution Deposition. Integrated Ferroelectrics, 2012, 132, 22-29.	0.7	0
82	Effects of Li Substitution in $(\text{Na}_{0.53}\text{K}_{0.47-x}\text{Li}_x)\text{NbO}_3$ Ceramics. Integrated Ferroelectrics, 2012, 133, 61-66.	0.7	0
83	Structural and Electrical Studies on (Nd, V) Co-doped $(\text{Bi}_{0.9}\text{Nd}_{0.1})(\text{Fe}_{0.975}\text{V}_{0.025})\text{O}_{3-\delta}$ Thin Films. Integrated Ferroelectrics, 2012, 140, 56-63.	0.7	0
84	A Phenomenological Approach to Phase Transition Temperatures of $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ - BiFeO_3 System. Ferroelectrics, 2013, 450, 16-20.	0.6	0
85	Effect of A-site Excess on the Piezoelectric Properties of $(\text{K}_{0.48}\text{Na}_{0.52})_{1+x}(\text{Nb}_{0.55}\text{Ta}_{0.45})\text{O}_{3-\delta}$ Thin Films. Ferroelectrics, 2014, 465, 60-67.		