Zhengkui Xu

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#	Paper	IF	Citations
105	A comprehensive review on the progress of lead zirconate-based antiferroelectric materials. <i>Progress in Materials Science</i> , 2014 , 63, 1-57	42.2	434
104	Diffuse phase transition in BaTi1\(\text{S}\) nxO3 ceramics: An intermediate state between ferroelectric and relaxor behavior. <i>Journal of Applied Physics</i> , 2006 , 99, 124111	2.5	178
103	Poling dependence and stability of piezoelectric properties of Ba(Zr0.2Ti0.8)O3-(Ba0.7Ca0.3)TiO3 ceramics with huge piezoelectric coefficients. <i>Current Applied Physics</i> , 2011 , 11, S120-S123	2.6	146
102	Preferred Orientations for Sol-Gel Derived PLZT Thin Layers. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 310, 269		111
101	Long-time present tweedlike precursors and paraelectric clusters in ferroelectrics containing strong quenched randomness. <i>Applied Physics Letters</i> , 1995 , 67, 2471-2473	3.4	103
100	Mesostructure of Calcium Silicate Hydrate (C-S-H) Gels in Portland Cement Paste: Short-Range Ordering, Nanocrystallinity, and Local Compositional Order. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1731-1744	3.8	95
99	High piezoelectric activity in (Na,K)NbO3 based lead-free piezoelectric ceramics: Contribution of nanodomains. <i>Applied Physics Letters</i> , 2011 , 99, 062901	3.4	94
98	Tunability and relaxor properties of ferroelectric barium stannate titanate ceramics. <i>Applied Physics Letters</i> , 2004 , 85, 5319-5321	3.4	89
97	Effect of Oxygen Octahedron Rotations on the Phase Stability, Transformational Characteristics, and Polarization Behavior in the Lead Zirconate Titanate Crystalline Solution Series. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2815-2827	3.8	84
96	Nanometer-Sized ZrO2 Particles Prepared by a SolEmulsionGel Method. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 2760-2763	3.8	84
95	On the evolution of structure and composition in sol-gel-derived lead zirconate titanate thin layers. <i>Journal of Materials Research</i> , 1995 , 10, 2042-2051	2.5	69
94	Impurity-induced incommensuration in antiferroelectric La-modified lead zirconate titanate. <i>Physical Review B</i> , 1995 , 51, 6261-6271	3.3	68
93	Coupling interaction in multiferroic BaTiO3f0oFe2O4nanostructures. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 2321-2326	3	66
92	Crossover from ferroelectric to relaxor behavior in BaTi1lk Sn x O3 solid solutions. <i>Phase Transitions</i> , 2008 , 81, 1013-1021	1.3	65
91	Dielectric and piezoelectric properties of Fe2O3-doped (Na0.5K0.5)0.96Li0.04Nb0.86Ta0.1Sb0.04O3 lead-free ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1728-1732	3.9	64
90	Thermal stability of electroless-nickel/solder interface: Part A. interfacial chemistry and microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 2857-2866	2.3	58
89	Phase transformation and electric field tunable pyroelectric behavior of Pb(Nb,Zr,Sn,Ti)O3 and (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric thin films. <i>Applied Physics Letters</i> , 2006 , 88, 132908	3.4	57

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88	Hot-stage transmission electron microscopy studies of phase transformations in tin-modified lead zirconate titanate. <i>Journal of Applied Physics</i> , 1993 , 74, 3406-3413	2.5	57
87	Direct Imaging of Atomic Ordering in Undoped and La-Doped Pb(Mg1/3Nb2/3)O3. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 181-88	3.8	54
86	Structural and property studies of high Zr-content lead zirconate titanate. <i>Journal of Physics and Chemistry of Solids</i> , 1996 , 57, 1545-1554	3.9	52
85	Effect of La substitution on phase transitions in lead zirconate stannate titanate (55B5II0) ceramics. <i>Journal of Applied Physics</i> , 2004 , 96, 6606-6610	2.5	45
84	Coexistence of incommensurate antiferroelectric and relaxorlike ferroelectric orderings in high Zr-content La-modified lead zirconate titanate ceramics. <i>Applied Physics Letters</i> , 1996 , 68, 1628-1630	3.4	43
83	Uncooled tunable pyroelectric response of antiferroelectric Pb0.97La0.02(Zr0.65Sn0.22Ti0.13)O3 perovskite. <i>Applied Physics Letters</i> , 2005 , 87, 192904	3.4	41
82	Ferroelectric properties of PbxSr1NTiO3 and its compositionally graded thin films grown on the highly oriented LaNiO3 buffered PtIIiBiO2Bi substrates. <i>Journal of Applied Physics</i> , 2006 , 100, 034108	2.5	41
81	Raman spectroscopy study of ferroelectric modes in [001]-oriented 0.67Pb(Mg1BNb2B)O3D.33PbTiO3 single crystals. <i>Applied Physics Letters</i> , 2005 , 86, 252903	3.4	41
80	Preparation and tunability properties of Ba(ZrxTi1🛭)O3 thin films grown by a solgel process. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 1917-1920	6	39
79	Dielectric properties of oriented PbZrO3 thin films grown by sol-gel process. <i>Journal of Applied Physics</i> , 2002 , 92, 3990-3994	2.5	35
78	Ferroelectric Domains and Incommensuration in the Intermediate Phase Region of Lead Zirconate. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2220-2224	3.8	34
77	Phase stability and transformations in pure and lanthanum modified lead zirconate ceramics. <i>Journal of Applied Physics</i> , 1995 , 77, 5086-5094	2.5	34
76	. Chemistry of Materials, 1994 , 6, 1589-1592	9.6	34
75	Enhanced magnetoelectric effect in Terfenol-D and flextensional cymbal laminates. <i>Applied Physics Letters</i> , 2006 , 88, 182906	3.4	33
74	Microstructure and optical properties of scandium oxide thin films prepared by metalorganic chemical-vapor deposition. <i>Applied Physics Letters</i> , 2001 , 79, 3782-3784	3.4	33
73	Incommensuration in La-modified antiferroelectric lead zirconate titanate ceramics. <i>Applied Physics Letters</i> , 1994 , 65, 3287-3289	3.4	31
72	Normal to Relaxor Ferroelectric Transition and Domain Morphology Evolution in (K,Na)(Nb,Sb)O3IiTaO3 B aZrO3 Lead-Free Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4352-4357	3.8	30
71	Preparation and electrical properties of multilayer ZnO varistors with water-based tape casting. <i>Ceramics International</i> , 2009 , 35, 487-492	5.1	29

70	Effect of CoFe2O4 content on the dielectric and magnetoelectric properties in Pb(ZrTi)O3/CoFe2O4 composite. <i>Journal of Electroceramics</i> , 2008 , 21, 398-400	1.5	29
69	Effects of ball milling on microstructure and electrical properties of solgel derived (Bi0.5Na0.5)0.94Ba0.06TiO3 piezoelectric ceramics. <i>Materials & Design</i> , 2010 , 31, 4403-4407		28
68	Dielectric and ferroelectric properties of highly oriented (Pb,Nb)(Zr,Sn,Ti)O3 thin films grown by a sol-gel process. <i>Applied Physics Letters</i> , 2002 , 81, 3621-3623	3.4	28
67	Temperature driven nano-domain evolution in lead-free Ba(Zr0.2Ti0.8)O3-50(Ba0.7Ca0.3)TiO3 piezoceramics. <i>Applied Physics Letters</i> , 2014 , 105, 032903	3.4	27
66	In situ transmission electron microscopy observations of electric-field-induced domain switching and microcracking in ferroelectric ceramics. <i>Materials Science & Diplication of the Materials: Properties, Microstructure and Processing</i> , 2001 , 314, 157-161	5.3	26
65	Microstructural evolution and macroscopic property relationship in antiferroelectric lead lanthanum stannate zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 2003 , 94, 4563-4565	2.5	24
64	Electrical properties of AlN thin films prepared by ion beam enhanced deposition. <i>Surface and Coatings Technology</i> , 2005 , 196, 130-134	4.4	23
63	Electrical properties of Li doped sodium potassium niobate thick films prepared by a tape casting process. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7130-7133	5.7	22
62	Nanoscale domain switching mechanism in Pb(Zr,Ti)O3 thin film. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 401-404	2.6	21
61	Constriction of the polarization by incoherent oxygen octahedral tilting in rhombohedral-structured lead zirconate titanate. <i>Journal of Applied Physics</i> , 1995 , 77, 3354-3360	2.5	21
60	Influence of Mn2+ on the electrical properties of textured KNN thick films. <i>Ceramics International</i> , 2012 , 38, S287-S290	5.1	20
59	Effects of buffer layers on the orientation and dielectric properties of Ba(Zr0.20Ti0.80)O3 thin films prepared by solgel method. <i>Journal of Crystal Growth</i> , 2008 , 310, 1245-1249	1.6	18
58	Distribution and formation mechanism of the domain structure in PMNB3% PT single crystals. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 2914-2917	3	18
57	Effects of Rare-Earth Dopants on the Ferroelectric and Pyroelectric Properties of Strontium Barium Niobate Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2009 , 6, 671-678	2	17
56	In situ TEM study of electric field-induced microcracking in piezoelectric single crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 99, 106-111	3.1	17
55	Enhanced dielectric tunability properties of Ba(ZrxTi1\(\bar{\text{U}}\))O3 thin films using seed layers on Pt/Ti/SiO2/Si substrates. <i>Ceramics International</i> , 2008 , 34, 905-910	5.1	16
54	Enhancement of ferroelectricity in the compositionally graded (Pb,Sr)TiO3 thin films derived by a solgel process. <i>Journal of Crystal Growth</i> , 2006 , 286, 37-41	1.6	16
53	Thickness-dependent dielectric and tunable properties of barium stannate titanate thin films. Journal of Applied Physics, 2009 , 106, 024104	2.5	15

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Bio-assembled nanocomposites in conch shells exhibit giant electret hysteresis. <i>Advanced Materials</i> , 2013 , 25, 711-8	24	14	
Polarized Raman mapping study of the microheterogeneity in 0.67PbMg1/3 Nb2/3O3-0.33PbTiO3 single crystal. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 1735-1742	2.3	14	
Preparation and electrical properties of highly (1 1 1) oriented antiferroelectric PLZST films by radio frequency magnetron sputtering. <i>Acta Materialia</i> , 2007 , 55, 3923-3928	8.4	14	
Incommensurately Modulated Polar Structures in Antiferroelectric Tin-Modified Lead Zirconate Titanate: II, Dependence of Structure-Property Relations on Tin Content. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2225-2236	3.8	14	
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Phase stability and pyroelectricity of antiferroelectric PLZST oxide. <i>Journal of Electroceramics</i> , 2008 , 21, 145-148	1.5	11	
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growth method. <i>Solid State Communications,</i> 2011, 151, 120-122 Dielectric properties of heterostructured BZT thin films prepared by soligel technique. <i>Materials Letters,</i> 2008, 62, 3198-3200 Preparation and Piezoelectric Properties of (h00)-Oriented BaTiO3 Ceramics by Tape Casting. <i>Ferroelectrics,</i> 2010, 401, 30-35 Structures and electrical properties of (Na0.5K0.5)NbO3Bi(fa0.5Nb0.5)O3 lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics,</i> 2009, 20, 469-472 Phase transformation behavior of (Pb,La)(Zr,Sn,Ti)O3 and Pb (Nb,Zr,Sn,Ti)O3 antiferroelectric thin films deposited on LaNiO3-buffered silicon substrates by sol-gel processing. <i>Journal of Sol-Gel Science and Technology,</i> 2007, 42, 369-373 Phase stability and permittivity-temperature characteristics of highly (100) oriented compositionally graded (Ba0.7Sr0.3)(SnxTi19)O3 thin films grown by pulse-laser deposition. <i>Applied Physics Letters,</i> 2006, 89, 152907 Comparative study of the effect of domain structures on piezoelectric properties in three typical Pb-fre	Polarized Raman mapping study of the microheterogeneity in 0.67PbMg 1/3 Nb2/303-0.33PbTiO3 single crystal. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1735-1742 Preparation and electrical properties of highly (1 1 1) oriented antiferroelectric PLZST films by radio frequency magnetron sputtering. <i>Acta Materialia</i> , 2007, 55, 3923-3928 Representation and electrical properties of highly (1 1 1) oriented antiferroelectric PLZST films by radio frequency magnetron sputtering. <i>Acta Materialia</i> , 2007, 55, 3923-3928 Representation on the Ferroelectric sent antiferroelectric Tim-Modified Lead Zirconate Titanate: II, Dependence of Structure-Property Relations on Tin Content. <i>Journal of the American Ceramic Society</i> , 2005, 81, 2225-2236 Effect of Orientation on the Ferroelectric Behavior of (Pb,Sr)TiO3 Thin Films. <i>Journal of the American Ceramic Society</i> , 2006, 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of Sol-Gel Science and Technology</i> , 2007, 42, 369-373 Phase stability and permittivity-temperature characteristics of highly (100) oriented compositionally graded (BaD,TSn,31)(SnXTI1B)O3 thin films grown	Polarized Raman mapping study of the microheterogeneity in 0.67PbMg1/3 Nb2/303-033PbTiO3 single crystal. <i>Journal of Roman Spectroscopy</i> , 2010, 41, 1735-1742 23 14 Preparation and electrical properties of highly (1 1 1) oriented antiferroelectric PLZST films by radio frequency magnetron sputtering. <i>Acta Materialia</i> , 2007, 55, 3923-3928 84 14 Incommensurately Modulated Polar Structures in Antiferroelectric Tin-Modified Lead Zirconate Titanate: II, Dependence of Structure-Property Relations on Tin Content. <i>Journal of the American ceramic Society</i> , 2005, 81, 2225-2236 Effect of Orientation on the Ferroelectric Behavior of (Pb,Sr)TiO3 Thin Films. <i>Journal of the American Ceramic Society</i> , 2006, 89, 354-357 TEM and EDS investigation of heterogeneous interfaces 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Preparation and Piezoelectric Properties of (N00-St0.5)Nb0.5)Nb0.5)O3 lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 469-472 Phase transformation behavior of (Pb,La)(Zr,Sn,Ti)O3 and Pb (Nb,Zr,Sn,Ti)O3 antiferroelectric thin films deposited on LaNiO3-buffered silicon substrates by sol-gel processing. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 42, 369-373 Phase stability and pyroelectricity of antiferroelectric Pt2ST oxide. <i>Journal of Electroceramics</i> , 2008, 21, 21, 145-148 Tunability and permittivity-temperature characteristics of highly (100) oriented compositionally graded (Ba0.75ro.3)(SnxTiI)O3 thin films grown by pulse-laser deposition. <i>Applied Physics Letters</i> , 2006, 89, 152007 Comparative stu

34	Effect of B content on nanostructure evolution and twinning deformation of nanocrystallite in nc-Ti(N,B)a-(TiB2,BN) nanocomposite thin films. <i>Applied Physics Letters</i> , 2005 , 87, 151902	3.4	10
33	Synthesis and Properties of CaAl2O4-Coated Al2O3 Microcomposite Powders. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2881-2888	3.8	10
32	DC field effect on dielectric property of Ba(Zr Ti1)D3 ceramics. Ceramics International, 2013, 39, S9-S13	5.1	9
31	Internal residual stress studies and enhanced dielectric properties in La0.7Sr0.3CoO3 buffered (Ba,Sr)TiO3 thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 064107	2.5	9
30	MgTiO3 and Ba0.60Sr0.40Mg0.15Ti0.85O3 Composite Thin Films with Promising Dielectric Properties for Tunable Applications. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3109-3112	3.8	9
29	The effect of dc bias on the poled states in PNZST antiferroelectric thin films. <i>Journal Physics D:</i> Applied Physics, 2007 , 40, 1811-1815	3	9
28	Hot-stage transmission electron microscopy study of (Na, K)NbO3 based lead-free piezoceramics. <i>Applied Physics Letters</i> , 2014 , 105, 042904	3.4	8
27	Microstructure investigation of BaxSr1\(\mathbb{I}\)TiO3 thin film grown on porous silicon substrate. <i>Materials Science in Semiconductor Processing</i> , 2004 , 7, 253-258	4.3	8
26	Local characterization of compositionally graded Pb(Zr,Ti)O3 thin films by scanning force microscope. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 99, 234-237	3.1	8
25	Characterization of MOCVD grown optical coatings of Sc2O3 and Ta-doped SnO2. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 99, 134-137	3.1	8
24	Observation of a near-static condensation of polarization fluctuations in strontium barium niobate. <i>Journal of Applied Physics</i> , 1995 , 77, 1677-1682	2.5	8
23	Near-field acoustic microscopy of ferroelectrics and related materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 99, 2-5	3.1	7
22	Effect of dc bias on the Curie Weiss exponent in 0.76Pb(Mg1BNb2B)O3D.24PbTiO3 ferroelectric single crystal. <i>Applied Physics Letters</i> , 2005 , 86, 142905	3.4	7
21	The tunability and dielectric properties of the compositionally graded Ba(Zr x Ti1☑)O3 thin films. <i>Journal of Electroceramics</i> , 2008 , 21, 12-16	1.5	6
20	The effect of physical design parameters on the RF and microwave performance of the BST thin film planar interdigitated varactors. <i>Sensors and Actuators A: Physical</i> , 2008 , 141, 231-237	3.9	6
19	A novel thin film phase of oriented MgO grown from a liquid solution. <i>Journal of Crystal Growth</i> , 2001 , 233, 389-398	1.6	5
18	Hot-stage transmission electron microscopy study of phase transformations in hexacelsian (BaAl2Si2O8). <i>Journal of Materials Research</i> , 2002 , 17, 1287-1297	2.5	5
17	Grain growth kinetics of textured-BaTiO3 ceramics. <i>Bulletin of Materials Science</i> , 2014 , 37, 779-787	1.7	4

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16	Electric properties of BaTiO3 lead-free textured piezoelectric thick film by screen printing method. Journal of Electroceramics, 2014 , 33, 208-213	1.5	4	
15	Reply to Comment on Mesostructure of Calcium Silicate Hydrate (C-S-H) Gels in Portland Cement Paste: Short-Range Ordering, Nanocrystallinity, and Local Compositional Order <i>Journal of the American Ceramic Society</i> , 1997 , 80, 2961-2962	3.8	4	
14	Room-temperature electroluminescence from H-plasma-implanted silicon. <i>Semiconductor Science and Technology</i> , 2003 , 18, L55-L58	1.8	4	
13	Electric properties of high strain textured Na0.5Bi0.5TiO3BaTiO3B0.5Na0.5NbO3 thick films. <i>Solid State Sciences</i> , 2011 , 13, 934-937	3.4	3	
12	Preparation of (h00)-Oriented K0.5Na0.5NbO3 Ceramics and Its Electrical Properties. <i>Ferroelectrics</i> , 2011 , 413, 142-147	0.6	3	
11	SFM in acoustic mode and its applications to observation of ferroelectric domain. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 120, 100-103	3.1	3	
10	Electrical Properties of Textured (KNa)0.44Li0.06Nb0.84Sb0.06Ta0.1O3 Thick Films. <i>Journal of Electronic Materials</i> , 2012 , 41, 3077-3081	1.9	2	
9	Temperature dependence of ferroelectric and dielectric properties of textured 0.98(0.94Na0.5Bi0.5TiO3D.06BaTiO3)D.02K0.5Na0.5NbO3 thick film. <i>Journal of Materials Science</i> , 2011 , 46, 1053-1057	4.3	2	
8	Temperature-dependent property measurements on multi-electroded thin-layer dielectrics. <i>Review of Scientific Instruments</i> , 1994 , 65, 2107-2111	1.7	2	
7	ELECTRIC FATIGUE PROPERTIES OF Pb(Zr,Ti)O3 THIN FILMS GROWN ON LaNiO3 BUFFER Pt/Ti/SiO2/Si SUBSTRATE BY METALORGANIC CHEMICAL VAPOR DEPOSITION. <i>Integrated Ferroelectrics</i> , 2005 , 75, 47-54	0.8	1	
6	THE MICROSTRUCTURE CHARACTERISTICS AND DIELECTRIC BEHAVIORS OF THE COMPOSITIONALLY GRADED Ba(Ti,Sn)O3 THIN FILMS. <i>Integrated Ferroelectrics</i> , 2005 , 74, 137-145	0.8	1	
5	Electric properties of textured (K0.44Na0.52Li0.04)(Nb0.86Ta0.10Sb0.04)O3 thick film prepared by screen printing method. <i>Bulletin of Materials Science</i> , 2016 , 39, 1133-1138	1.7		
4	Lattice dynamics and dielectric response of Ba0.4Sr0.6JMnyTiO3 ceramics in a wide frequency range. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1225-1230	1.6		
3	Fabrication and Electrical Properties of (0.94-x)NBT-0.06BT-xKNN Thick Films. <i>Ferroelectrics</i> , 2010 , 404, 3-9	0.6		
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1	Electronic valency effect on the stabilization of ferroelectric phase in K1+ modified antiferroelectric lead zirconate. <i>Ferroelectrics</i> , 1999 , 234, 281-288	0.6		