Rajeev Ranjan

List of Publications by Year
in descending order

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189 papers	5,467 citations	71061 41 h-index	110317 64 g-index
192 all docs	192 docs citations	192 times ranked	3907 citing authors

#	Article	IF	Citations
1	Structure and dielectric properties of (Na0.50Bi0.50)1â^'xBaxTiO3: 0â‰¤xâ‰¤0.10. Solid State Communications, 2005, 135, 394-399.	0.9	209
2	Local structural disorder and its influence on the average global structure and polar properties in Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>TiO<mml:math xmlns:mm	1.1	194
3		1.1	185
4	Electrostrain in excess of 1% in polycrystalline piezoelectrics. Nature Materials, 2018, 17, 427-431.	13.3	180
5	Room temperature structure of Pb(ZrxTi1â^'xO3) around the morphotropic phase boundary region: A Rietveld study. Journal of Applied Physics, 2002, 92, 3266-3274.	1.1	155
6	Electric-field-driven monoclinic-to-rhombohedral transformation in Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>Bi<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>TiO<mml: xmlns:mml="http://www.w3.org/1998/Math/Mat. Physical Review B, 2012, 86, .	1.1	148
7	Orthorhombic-tetragonal phase coexistence and enhanced piezo-response at room temperature in Zr, Sn, and Hf modified BaTiO3. Applied Physics Letters, 2014, 104, .	1.5	129
8	Relaxor ferroelectricity and electric-field-driven structural transformation in the giant lead-free piezoelectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mi>Ba</mml:mi><mml:m	1.1	112
9	Ferroelectric-ferroelectric phase coexistence in Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>Bi<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>TiO<m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inli. Physical Review B, 2013, 87, .	1.1	111
10	Relaxor-ferroelectric transitions: Sodium bismuth titanate derivatives. MRS Bulletin, 2018, 43, 600-606.	1.7	111
11	Novel Features ofSr1â^'xCaxTiO3Phase Diagram: Evidence for Competing Antiferroelectric and Ferroelectric Interactions. Physical Review Letters, 2000, 84, 3726-3729.	2.9	99
12	Structural studies ofNi2+xMn1â^'xGaby powder x-ray diffraction and total energy calculations. Physical Review B, 2007, 75, .	1.1	90
13	Antiferrodistortive phase transition inPb(Ti0.48Zr0.52)O3:Space group of the lowest temperature monoclinic phase. Physical Review B, 2002, 65, .	1.1	86
14	A complex lead-free (Na, Bi, Ba)(Ti, Fe)O 3 single phase perovskite ceramic with a high energy-density and high discharge-efficiency for solid state capacitor applications. Journal of the European Ceramic Society, 2017, 37, 2379-2384.	2.8	86
15	Spin-Valve-Like Magnetoresistance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>NiGa</mml:mi></mml:math>at Room Temperature. Physical Review Letters, 2012, 109, 246601.	2.9	84
16	Tuning Photoluminescence Response by Electric Field in Electrically Soft Ferroelectrics. Physical Review Letters, 2016, 116, 117601.	2.9	84
17	Polarization switching and high piezoelectric response in Sn-modified<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 91, .	1.1	81
18	Thickness-dependent fccâ€“hcp phase transformation in polycrystalline titanium thin films. Acta Materialia, 2011, 59, 2615-2623.	3.8	77

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19	Powder x-ray diffraction study of the thermoelastic martensitic transition inNi2Mn1.05Ga0.95. Physical Review B, 2006, 74, .	1.1	74
20	Polymorphic phase boundaries and enhanced piezoelectric response in extended composition range in the lead free ferroelectric BaTi1â^'xZrxO3. Journal of Applied Physics, 2013, 114, .	1.1	70
21	Electronic structure and magnetism of EuTiO₃: a first-principles study. Journal of Physics Condensed Matter, 2007, 19, 406217.	0.7	61
22	Antiferrodistortive phase transition inPb(Ti0.48Zr0.52)O3:A powder neutron diffraction study. Physical Review B, 2002, 65, .	1.1	58
23	Anomalous influence of grain size on the global structure, ferroelectric and piezoelectric response of Na 0.5 Bi 0.5 TiO 3. Acta Materialia, 2017, 134, 177-187.	3.8	57
24	Structural transformations in morphotropic-phase-boundary composition of the lead-free piezoelectric systemBa(Ti0.8Zr0.2)O3â^'(Ba0.7Ca0.3)TiO3. Physical Review B, 2016, 94, .	1.1	56
25	Metastable monoclinic and orthorhombic phases and electric field induced irreversible phase transformation at room temperature in the lead-free classical ferroelectricBaTiO3. Physical Review B, 2015, 91, .	1.1	55
26	Evolution of Crystallographic Phases in (Sr1â^'xCax)TiO3 with Composition (x). Journal of Solid State Chemistry, 2001, 162, 20-28.	1.4	54
27	A Raman scattering study of the phase transitions in SrTiO3and in the mixed system (Sr1-xCax)TiO3at ambient pressure fromT= 300 K down to 8 K. Journal of Physics Condensed Matter, 2002, 14, 2079-2092.	0.7	53
28	Comparison of theCcandR3cspace groups for the superlattice phase ofPb(Zr0.52Ti0.48)O3. Physical Review B, 2005, 71, .	1.1	52
29	Structural transformations in Mn2NiGa due to residual stress. Applied Physics Letters, 2010, 96, .	1.5	52
30	Optical and dielectric study of strontium modified barium zirconium titanate ceramic prepared by high energy ball milling. Journal of Alloys and Compounds, 2015, 645, 586-596.	2.8	52
31	Phase diagram and electronic structure ofNi2+xMn1â^'xGa. Physical Review B, 2006, 74, .	1.1	50
32	High-temperature relaxor ferroelectric behavior in Pr-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi mathvariant="normal">Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	1.1	46
33	Long ranged structural modulation in the pre-morphotropic phase boundary cubic-like state of the lead-free piezoelectric Na1/2Bi1/2TiO3-BaTiO3. Journal of Applied Physics, 2013, 114, .	1.1	46
34	Competing structural phase transition scenarios in the giant tetragonality ferroelectric BiFeO3-PbTiO3: Isostructural vs multiphase transition. Journal of Applied Physics, 2013, 113, .	1.1	46
35	Electric field and temperature dependence of the local structural disorder in the lead-free ferroelectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi>Ti</mml:mi><mml:msub>	1.1	45
36	Antiferroelectric phase transition in (Sr1-xCax)TiO3(0.12<xâ©½0.40): I. Dielectric studies. Journal of Physics Condensed Matter, 2001, 13, 4239-4249.	0.7	43

#	Article	IF	Citations
37	Unconventional mechanism of stabilization of a tetragonal phase in the perovskite ferroelectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
55	First principles study of magnetism in divalent Eu perovskites. Journal of Applied Physics, 2009, 105, .	1.1	29
56	Electric field induced strain, switching and energy storage behaviour of lead free Barium Zirconium Titanate ceramic. Physica B: Condensed Matter, 2017, 521, 264-269.	1.3	29
57	Long-period structural modulation on the global length scale as the characteristic feature of the morphotropic phase boundaries in the Na0.5Bi0.5TiO3 based lead-free piezoelectrics. Acta Materialia, 2019, 164, 749-760.	3.8	29
58	Magneto-structural study of the multiferroic BiFeO3â€“SrTiO3. Journal of Magnetism and Magnetic Materials, 2014, 365, 76-82.	1.0	28
59	High electromechanical response in the non morphotropic phase boundary piezoelectric system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PbTi</mml:mi><mml:msub><mml:mi		

#	Article	IF	Citations
73	Effect of sputtering parameters on the structure, microstructure and magnetic properties of Tb-Fe films. Thin Solid Films, 2015, 583, 1-6.	0.8	23
74	Large electromechanical response in ferroelectrics: Beyond the morphotropic phase boundary paradigm. Physical Review B, 2019, 100, .	1.1	23
75	Novel structural features and phase transition behaviour of (Sr1-xCax)TiO3: II. X-ray diffraction studies. Journal of Physics Condensed Matter, 1999, 11, 2247-2258.	0.7	22
76	Powder neutron diffraction study of the antiferroelectric phase transition in Sr0.75Ca0.25TiO3. Journal of Applied Physics, 2002, 91, 4447-4452.	1.1	22
77	Resolving the controversies about the â€˜nearly cubicâ€™ and other phases of Sr1â^'xCaxTiO3(0â‰¤xâ‰¤1): I. Room temperature structures. Journal of Physics Condensed Matter, 2006, 18, 1885-1898.	0.7	22
78	Long-period modulated structure and electric-field-induced structural transformation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi>Ti</mml:mi><mml:msub	1.1	22
79	Phases in the (1) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (â^'x)Na_{0.5}Bi_{0.5}TiO₃<sup>Journal of Physics Condensed Matter, 2010, 22, 075901.	0.7	21
80	Neutron diffraction study of the coupling between spin, lattice, and structural degrees of freedom in 0.8BiFeO3-0.2PbTiO3. Journal of Applied Physics, 2011, 109, 063522.	1.1	21
81	Stabilization of metastable tetragonal phase in a rhombohedral magnetoelectric multiferroic BiFeO₃â€“PbTiO₃. Journal Physics D: Applied Physics, 2014, 47, 045004.	1.3	20
82	Resolving the controversies about the â€˜nearly cubicâ€™ and other phases of Sr1â^'xCaxTiO3(0â‰¤xâ‰¤1): II. Comparison of phase transition behaviours forx= 0.40 and 0.43. Journal of Physics Condensed Matter, 2006, 18, 1899-1912.	0.7	19
83	Crystal structures of Na1/2Ln1/2TiO3 (Ln: La, Eu, Tb). Journal of Solid State Chemistry, 2007, 180, 995-1001.	1.4	19
84	Ferroelectric phase coexistence by crystallite size reduction inBiFeO3â^'PbTiO3. Physical Review B, 2014, 90, .	1.1	19
85	Structural refinement, optical and electrical properties of [Ba1â^'x Sm2x/3](Zr0.05Ti0.95)O3 ceramics. Journal of Materials Science: Materials in Electronics, 2014, 25, 3427-3439.	1.1	19
86	Competing A-site and B-site driven ferroelectric instabilities in the (1â^'x)PbTiO3-(x)BiAlO3 system. Applied Physics Letters, 2009, 94, .	1.5	18
87	Synthesis of BiFeO 3 by carbonate precipitation. Bulletin of Materials Science, 2012, 35, 157-161.	0.8	18
88	Anomalous piezoelectric response due to stabilization of two ferroelectric phases in Zr-modified BaTiO₃. Journal of Physics Condensed Matter, 2013, 25, 362203.	0.7	18
89	Field induced domain switching as the origin of anomalous lattice strain along non-polar direction in rhombohedral BiScO3-PbTiO3 close to the morphotropic phase boundary. Applied Physics Letters, 2015, 107, .	1.5	18
90	Maintaining local displacive disorders in Na 0.5 Bi 0.5 TiO 3 piezoceramics by K 0.5 Bi 0.5 TiO 3 substitution. Journal of the European Ceramic Society, 2016, 36, 1961-1972.	2.8	18

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91	Sm/Ti co-substituted bismuth ferrite multiferroics: reciprocity between tetragonality and piezoelectricity. Physical Chemistry Chemical Physics, 2017, 19, 26285-26295.	1.3	18
92	Evidence of monoclinic phase and its variation with temperature at morphotropic phase boundary of PLZT ceramics. Journal of Alloys and Compounds, 2020, 816, 152613.	2.8	18
93	Na_{1/2}Bi_{1/2}TiO₃-Based Lead-Free Piezoceramics: A Review of Structureâ€“property Correlation. Current Science, 2020, 118, 1507.	0.4	18
94	A Raman scattering study of the antiferroelectric phase transition in(Sr0.70Ca0.30)TiO3. Physical Review B, 2001, 64, .	1.1	17
95	Structure and phase transition of the system. Solid State Communications, 2009, 149, 2098-2101.	0.9	17
96	Structural, dielectric relaxation and piezoelectric characterization of Sr2+ substituted modified PMS-PZT ceramic. Physica B: Condensed Matter, 2012, 407, 635-641.	1.3	16
97	Coupled domain wall motion, lattice strain and phase transformation in morphotropic phase boundary composition of PbTiO3-BiScO3 piezoelectric ceramic. Journal of Applied Physics, 2016, 120, .	1.1	16
98	Trapping a Metastable Ferroelectric Phase by Size Reduction in Semiconducting Ferroelectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BiFeO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Its Implications for Photocatalytic Response. Physical Review Applied, 2017, 7, .	1.5	16
99	Magnetic enhancement of ferroelectric polarization in a self-grown ferroelectric-ferromagnetic composite. Physical Review B, 2018, 97, .	1.1	16
100	Ferromagnetism in the multiferroic alloy systems BiFeO3-BaTiO3 and BiFeO3-SrTiO3: Intrinsic or extrinsic?. Applied Physics Letters, 2019, 114, .	1.5	16
101	Onset of spontaneous electrostrictive strain below 520 K in Pr-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrTiO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2008, 78, .	1.1	15
102	An unusual temperature induced isostructural phase transition in a scheelite, Li0.5Ce0.5MoO4. Dalton Transactions, 2013, 42, 7672.	1.6	15
103	Optical Properties of Zn2Mo3O8: Combination of Theoretical and Experimental Study. Journal of Physical Chemistry C, 2017, 121, 24766-24773.	1.5	15
104	Investigating the electrical conduction and relaxation phenomena in rare earth erbium doped lead free 0.94Na0.5Bi0.5TiO3-0.06BaTiO3 by impedance spectroscopy. Journal of Applied Physics, 2018, 123, .	1.1	15
105	Synergistic role of poling in enhancing structural heterogeneity in perovskite piezoelectrics. Physical Review B, 2018, 98, .	1.1	15
106	Large temperature tuning of the emission color of a phosphor by dual use of Raman and photoluminescence signals. Materials Horizons, 2020, 7, 1101-1105.	6.4	15
107	Competing tetragonal and monoclinic phases in Ni2.2Mn0.80Ga. Journal of Applied Physics, 2009, 106, 033510.	1.1	14
108	Co-existence of tetragonal and monoclinic phases and multiferroic properties for xâ©½0.30 in the (1 â^') Tj ETQq0 0 0 rgBT /Overlock 1	2.8	14

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109	Correlation between structure and Rayleigh parameters in the lead-free piezoceramic (1-x)Ba(Ti0.88) Tj ETQq1 1 0.784314 rgBT /Over	1.1	14
110	Quantum-fluctuation-stabilized orthorhombic ferroelectric ground state in lead-free piezoelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mi>Ba	1.1	14
	mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 98, .		
111	Unraveling the nature of electric field- and stress- induced structural transformations in soft PZT by a new powder poling technique. Journal of Physics Condensed Matter, 2015, 27, 072201.	0.7	13
112	Increasing intervention of nonferroelectric distortion and weakening of ferroelectricity at the morphotropic phase boundary in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi	1.1	13
113	Factors contributing to the local polar-structural heterogeneity and ultrahigh piezoelectricity in Sm-modified Pb(Mg_{1/3}Nb_{2/3})O₃â€“PbTiO₃. Journal Physics D: Applied Physics, 2020, 53, 165302.	1.3	13
114	Crystal structures of high temperature quantum paraelectrics Na1/2Nd1/2TiO3and Na1/2Pr1/2TiO3. Journal of Physics Condensed Matter, 2006, 18, L515-L522.	0.7	12
115	Structural stability of conducting oxide CaRuO3 at high temperatures. Applied Physics Letters, 2007, 90, 251913.	1.5	12
116	Structure and phase transition of Na_{0.5}La_{0.5}TiO₃. Journal of Physics Condensed Matter, 2008, 20, 505215.	0.7	12
117	Complex structural phase transitions in slightly Ca modified Na_{0.5}Bi_{0.5}TiO₃. Journal of Physics Condensed Matter, 2012, 24, 455902.	0.7	12
118	Evolution of structural phase coexistence in a half doped manganite Pr0.5Sr0.5MnO3: An evidence for magneto-structural coupling. Journal of Magnetism and Magnetic Materials, 2013, 325, 29-35.	1.0	12
119	Dielectric relaxation and anti-ferromagnetic coupling of BiEuO 3 and BiGdO 3. Journal of Magnetism and Magnetic Materials, 2014, 360, 80-86.	1.0	12
120	Growth stress induced tunability of dielectric permittivity in thin films. Journal of Applied Physics, 2016, 119, .	1.1	12
121	Pressure effects on model ferroelectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn> Multiple phase transitions. Physical Review B, 2016, 93, .	1.1	12
122	Off-stoichiometry, structural-polar disorder and piezoelectricity enhancement in pre-MPB lead-free Na0.5Bi0.5TiO3-BaTiO3 piezoceramic. Journal of Applied Physics, 2019, 125, .	1.1	12
123	Phases in the system Na1/2Nd1/2TiO3â€“SrTiO3: aÂpowder neutron diffraction study. Journal of Physics Condensed Matter, 2006, 18, 9679-9690.	0.7	11
124	Tendency to promote ferroelectric distortion in Pr-modified PbTiO3. Applied Physics Letters, 2009, 95, .	1.5	11
125	Structural phase transition study of the morphotropic phase boundary compositions of Na0.5Bi0.5TiO3â€“PbTiO3. Journal of Physics Condensed Matter, 2009, 21, 375902.	0.7	11
126	Relaxor dielectric behavior in BaTiO3 substituted BiFeO3â€“PbTiO3 multiferroic system. Journal of Materials Science: Materials in Electronics, 2017, 28, 10420-10426.	1.1	11

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127	Enhanced thermal stability of dielectric, energy storage, and discharge efficiency in a structurally frustrated piezoelectric system: Erbium modified Na0.5Bi0.5TiO3-BaTiO3. Journal of Applied Physics, 2018, 124, .	1.1	11
128	Evidence of nanoscale structural phase separation in large bandwidth La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.2</mml:mn></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub></mml:math>MnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	1.1	10
129	High‐pressure structural investigation on lead‐free piezoelectric 0.5Ba(Ti_{0.8}Zr_{0.2})O₃–0.5(Ba_{0.7}Ca_{0.3}) Journal of the American Ceramic Society, 2020, 103, 5259-5269.	1.9	9
130	Preponderant influence of disordered P4bm phase on the piezoelectricity of critical compositions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mrow><mml:mn>0.5</mml:mn> -based ferroelectrics. Physical Review B, 2021, 104, .	1.1	9
131	Monoclinic Phases in the Pb(ZrxTi1-x)O3Ceramics. Ferroelectrics, 2005, 325, 35-42.	0.3	8
132	Improvement in dielectric and ferroelectric property of dysprosium doped barium bismuth titanate ceramic. Journal of Materials Science: Materials in Electronics, 2016, 27, 7211-7221.	1.1	8
133	Interferroelectric transition as another manifestation of intrinsic size effect in ferroelectrics. Physical Review B, 2016, 94, .	1.1	8
134	Grain-size dependent electric-field induced structural changes and its role in determining the piezoelectric response of 0â€“3 piezoceramic-polymer composite. Journal of Applied Physics, 2017, 122, .	1.1	8
135	Organic Multifunctional Materials: Second Harmonic, Ferroelectric, and Dielectric Properties in N-Benzylideneaniline Analogues. Crystal Growth and Design, 2019, 19, 5934-5944.	1.4	8
136	Relaxor ground state forced by ferroelastic instability in K0.5Bi0.5TiO3â^'Na0.5Bi0.5TiO3. Physical Review B, 2020, 102, .	1.1	8
137	Strain transfer in ferroelectric-ferrimagnetic magnetoelectric composite. Physical Review B, 2021, 103, .	1.1	8
138	Abrupt change in domain switching behavior within tetragonal phase regime of (x)Na1/2Bi1/2TiO3-(1â€‰â^'â€‰x)K1/2Bi1/2TiO3. Journal of Applied Physics, 2020, 128, .	1.1	8
139	Effect of crystallite size and clustering in influencing the stability of phases of a very large tetragonality ferroelectric system 0.6BiFeO3â€“0.4PbTiO3. Solid State Communications, 2013, 160, 56-60.	0.9	7
140	Zirconia doped barium titanate induced electroactive Î² polymorph in PVDF-HFP: high energy density and dielectric properties. Materials Research Express, 2014, 1, 045301.	0.8	7
141	Proton Conduction in a Quaternary Organic Salt: Its Phase Behavior and Related Spectroscopic Studies. Journal of Physical Chemistry C, 2017, 121, 18317-18325.	1.5	7
142	Rayleigh analysis of domain dynamics across temperature induced polymorphic phase transitions in lead-free piezoceramics (1â^'x)(BaTi_{0.88}Sn_{0.12})â€“x(Ba_{0.7}Ca_{0.3})TiO₃. Journal Physics D: Applied Physics, 2018, 51, 185601.	1.3	7
143	Signature of exchange bias and magneto-electric coupling in BiFeO3/SrRuO3 heterostructure. Journal of Magnetism and Magnetic Materials, 2018, 448, 236-242.	1.0	7
144	Energy harvesting with flexible piezocomposite fabricated from a biodegradable polymer. International Journal of Energy Research, 2021, 45, 19395.	2.2	7

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145	Structural and Magnetic Properties of Amorphous Tb-Dy-Fe-Co Thin Films. Journal of Superconductivity and Novel Magnetism, 2016, 29, 863-867.	0.8	6
146	Plausible domain configurations and phase contents in two- and three-phase BaTiO₃-based lead-free ferroelectrics. Journal Physics D: Applied Physics, 2017, 50, 065307.	1.3	6
147	Mechanism of magnetostructural transformation in multifunctional Mn3GaC. Journal of Applied Physics, 2017, 122, 103906.	1.1	6
148	High Power Density Low-Lead-Piezoceramicâ€“Polymer Composite Energy Harvester. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 789-796.	1.7	6
149	Factors influencing the coupling between non-180Â° domain switching and lattice strain in perovskite piezoceramics. Physical Review B, 2018, 97, .	1.1	5
150	Adaptive dipolar correlation in ferroelectric <mml:math		

#	Article	IF	Citations
163	Anomalous polarization in the antiferroelectric-ferroelectric phase coexistence state in PbZrO3-Bi(Mg1/2Ti1/2)O3. Journal of Applied Physics, 2013, 114, 234105.	1.1	3
164	Dielectric relaxation, phase transition and Rietveld studies of perovskite [Pb0.94Sr0.06][(Mn1/3Sb2/3)0.05(Zr0.52Ti0.48)0.95]O3 ceramics. Journal of Alloys and Compounds, 2014, 589, 443-447.	2.8	3
165	Interrelationship between Interphase Boundaries and Phase Contents near the Critical Compositions of Lead-Free Ferroelectric (Na_{0.5}Bi_{0.5})TiO₃â^'BaTiO₃. Ferroelectrics, 2015, 482, 22-33.	0.3	3
166	Pharmaceutico-analytical study of Kushtae Shangarf prepared with Jozbua (Myristica fragrans Houtt.) and Phitkari (alum). Journal of Pharmacy and Bioallied Sciences, 2018, 10, 144.	0.2	3
167	Magnetic structure and magneto-elastic-structural coupling in Cr-modified SrRuO3: A neutron powder diffraction study. Journal of Applied Physics, 2011, 109, 073908.	1.1	2
168	Dielectric relaxations above room temperature in DMPU derived polyaniline film. Physica B: Condensed Matter, 2012, 407, 3828-3832.	1.3	2
169	Equilibrium phases in the multiferroic BiFeO3-PbTiO3system â€“ a revisit. EPJ Web of Conferences, 2014, 75, 09003.	0.1	2
170	Comparative study on heterophase structures in ferroelectric solid solutions based on barium titanate. Crystal Research and Technology, 2017, 52, 1600299.	0.6	2
171	On the inter-layer magneto-electric coupling in BiFeO3/SrRuO3 heterostructure. Applied Physics Letters, 2017, 111, 102902.	1.5	2
172	Effect of Annealing on Performance of Solar Cells with New Oxide Absorber Mn2V2O7. , 2017, , .		2
173	Influence of Cr3+ doping on multiferroic properties in the morphotropic phase boundary compositions of BiFeO3â€“PbTiO3 system. Journal of Materials Science: Materials in Electronics, 2019, 30, 16539-16547.	1.1	2
174	Phase changes in : A synchrotron X-ray powder diffraction study. Solid State Communications, 2010, 150, 1128-1131.	0.9	1
175	Stress, Texture and Phase Transformation in Titanium Thin Films. Solid State Phenomena, 0, 160, 109-116.	0.3	1
176	Modern piezoelectrics. Resonance, 2014, 19, 1130-1146.	0.2	1
177	Tuning the magnetic characteristics of epitaxial BiFeO3 films using structural control. Thin Solid Films, 2017, 642, 117-123.	0.8	1
178	Magnetic controlled voltage in the pseudo-ternary multiferroic BiFeO3â€“PbTiO3â€“BaTiO3. Materials Research Express, 2017, 4, 095701.	0.8	1
179	Tuning the crystallographic orientation and magnetic properties of multiferroic CuO epitaxial film on single crystalline SrTiO3 substrates. Journal of Applied Physics, 2018, 124, 085303.	1.1	1
180	Large intrinsic magnetization in an epitaxial BiFeO3/NdGaO3system. Europhysics Letters, 2019, 126, 57003.	0.7	1

#	Article	IF	Citations
181	A comparative study of energy harvesting performance of polymerâ€piezoceramic composites fabricated with different piezoceramic constituents. International Journal of Energy Research, 2021, 45, 2694-2708.	2.2	1
182	Effect of nitrogen annealing on the optoelectronic properties of manganese vanadate. Semiconductor Science and Technology, 2021, 36, 055016.	1.0	1
183	Microscopic origin of giant piezoelectricity in ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>x</mml:mi><mml:msub><mml:mrow><mml:mj>Bi</mml:m mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow><mml:mo>â”</mml:m. Physical Review B, 2021, 104, .	1.1	1
184	Optical temperature sensing by tuning photoluminescence in a wide (visible to near infrared) wavelength range in a Eu³⁺-doped Bi-based relaxor ferroelectric. Optics Letters, 2022, 47, 489.	1.7	1
185	Structural properties and incommensurate magnetic order in BiFeO<inf>3</inf>-PbTiO<inf>3</inf> solid solutions. , 2012, , .		0
186	Electro-optical Properties of Zn2Mo3O8 Thin-Films: A Novel Low-Bandgap Solar Absorber. , 2017, , .		0
187	Ag<inf>2</inf>CrO<inf>4</inf> Schottky Junction for All-Oxide Solar Cells. , 2018, , .		0
188	Modulation of Conductivity in Manganese Vanadium Oxide. , 2019, , .		0
189	Effect of sintering temperature on the structural disorder and its influence on electromechanical properties of the morphotropic phase boundary composition 0.94Na0.5Bi0.5TiO3-0.06BaTiO3 (NBT-6BT). Journal of Materials Science: Materials in Electronics, 2021, 32, 16088-16103.	1.1	0