

Xiangyong Zhao

List of Publications by Year in descending order

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3047
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#	ARTICLE	IF	CITATIONS
1	Excellent ferroelectric and pyroelectric performance of rhombohedral Mn-doped PIMNT thin films with (111) orientation. Journal of the American Ceramic Society, 2022, 105, 327.	1.9	6
2	Enhanced Electromechanical Response in PVDF-BNBT Composite Nanofibers for Flexible Sensor Applications. Materials, 2022, 15, 1769.	1.3	3
3	Entropy Enhanced Perovskite Oxide Ceramic for Efficient Electrochemical Reduction of Oxygen to Hydrogen Peroxide. Angewandte Chemie, 2022, 134, .	1.6	2
4	Micron-thick ternary relaxor $0.36\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - $0.36\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.28PbTiO_3 thin films with superior pyroelectric response on Si substrate. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	0
5	A General FEM Model for Analysis of Third-Order Nonlinearity in RF Surface Acoustic Wave Devices Based on Perturbation Theory. Micromachines, 2022, 13, 1116.	1.4	3
6	Piezoelectric acoustic wave characteristics of $\text{Pb}(\text{In}_{0.5}\text{Nb}_{0.5})\text{O}_3$ - $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystal substrate: A comparative study with and without SiO_2 overlay. Journal of Applied Physics, 2022, 132, 024103.	1.1	1
7	Achieving high pulse charge-discharge energy storage properties and temperature stability of $(\text{Ba}_{0.98}\text{Li}_{0.02}\text{La})(\text{Mg}_{0.04}\text{Ti}_{0.96})\text{O}_3$ lead-free ceramics via bandgap and defect engineering. Chemical Engineering Journal, 2022, 450, 137814.	6.6	26
8	Compensated pyroelectric infrared detector based on Mn-doped PIMNT single crystal with enhanced signal stability. Journal of the American Ceramic Society, 2021, 104, 995-1001.	1.9	2
9	Growth and electrical properties of high-Curie point rhombohedral $\text{Mn-Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{TiO}_3$. Journal of Applied Physics, 2021, 130, 074301.	1.9	10
10	LiCaAlF_6 :Eu and LiCaAlF_6 :Ce Single Crystals Grown by the Vertical Bridgman Method in a Nonvacuum Atmosphere and Their Optical and Scintillation Properties. Crystal Growth and Design, 2021, 21, 847-853.	1.4	5
11	Pressure Driven Structural Evolutions of $0.935(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3$ - 0.065BaTiO_3 Lead-Free Ferroelectric Single Crystal through Raman Spectroscopy. Chinese Physics Letters, 2021, 38, 026102.	1.3	8
12	Fabrication and high acoustic performance of high frequency needle ultrasound transducer with PMN-PT/Epoxy 1-3 piezoelectric composite prepared by dice and fill method. Sensors and Actuators A: Physical, 2021, 318, 112528.	2.0	23
13	Design and analysis of piezoelectric micromachined ultrasonic transducer using high coupling PMN-PT single crystal thin film for ultrasound imaging. Smart Materials and Structures, 2021, 30, 055006.	1.8	10
14	Periodic Analysis of Surface Acoustic Wave Resonator with Dimensionally Reduced PDE Model Using COMSOL Code. Micromachines, 2021, 12, 141.	1.4	5
15	Deposition, Characterization, and Modeling of Scandium-Doped Aluminum Nitride Thin Film for Piezoelectric Devices. Materials, 2021, 14, 6437.	1.3	10
16	Investigation on microscopic mechanisms of high-Curie temperature PMN-PH-PT piezoelectric ceramics. Ferroelectrics, Letters Section, 2021, 48, 83-92.	0.4	1
17	Optical dispersion and bandgap of pure and Mn-doped $0.92\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ - $0.08\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ lead-free single crystals. Journal of the American Ceramic Society, 2020, 103, 1241-1247.	1.0	10
18	Magneto-electro-optical multifunctional coupling effect in lead-free $\text{BaTiO}_3(\text{Yb/Er})\text{-CoFe}_2\text{O}_4$ ceramics. Scripta Materialia, 2020, 177, 172-175.	2.6	19

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19	Theoretical analysis of high electromechanical coupling surface acoustic wave propagating on lead-free $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{-BaTiO}_3$ single crystal. <i>Scripta Materialia</i> , 2020, 178, 372-375.	2.6	4
20	Three-dimensional nonlinear photonic crystal in naturally grown potassium-tantalate-niobate perovskite ferroelectrics. <i>Light: Science and Applications</i> , 2020, 9, 193.	7.7	22
21	BCFT lead-free piezoelectric ceramics preparation and ultrasonic transducer fabrication via powder injection molding using simple binder. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14818-14827.	2.6	3
22	Piezoelectric and pyroelectric properties of Mn-doped $0.36\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-}0.36\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.28\text{PbTiO}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14426-14433.	1.1	4
23	Local-structure evidence for a phase transition in a lead-free single crystal of $(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3\text{-}0.06\text{BaTiO}_3$ by absorption fine-structure spectroscopy with synchrotron x-ray radiation. <i>Physical Review B</i> , 2020, 101, .	1.1	3
24	Ferroelectric and piezoelectric response in (100)-oriented Mn-doped $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{-BaTiO}_3$ thin films. <i>Journal of Materials Science</i> , 2020, 55, 8088-8094.	1.7	4
25	Effect of Mn-doping on optical properties of lead-free $(\text{K}_{0.4}\text{Na}_{0.6})\text{NbO}_3$ ferroelectric single crystals. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2917-2921.	2.8	9
26	Fabrication and properties of the thickness mode ultrasonic transducer based on $0.15\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.38\text{PbHfO}_3\text{-}0.47\text{PbTiO}_3$ piezoelectric ceramics. <i>Ceramics International</i> , 2020, 46, 11913-11920.	2.3	6
27	High energy storage performance in lead-free $\text{BiFeO}_3\text{-BaTiO}_3$ ferroelectric thin film fabricated by pulsed laser deposition. <i>AIP Advances</i> , 2019, 9, .	0.6	13
28	Phase transition, domain structure and electrical properties of Mn-doped $0.3\text{-Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-}0.4\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.3\text{PbTiO}_3$ crystals. <i>Materials Chemistry and Physics</i> , 2019, 238, 121890.	2.0	3
29	Multifunctional performance derived by Eu doping in $(\text{Ba}_{0.85}\text{Ca}_{0.15})(\text{Ti}_{0.9}\text{Hf}_{0.1})\text{O}_3$ lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19404-19414.	1.1	10
30	Enhancing electrical properties of high-Curie temperature piezoelectric ceramics BNT-PZT and their mechanism. <i>Current Applied Physics</i> , 2019, 19, 1367-1373.	1.1	13
31	Giant tunability of upconversion photoluminescence in Er^{3+} -doped $(\text{K}, \text{Tj})\text{ETQq1}$ 10^{-7} rgBT / 10^{-20} Tf 50 26	2.8	20
32	Investigations on the electrical properties, domain structure, and local piezoelectric response in $0.3\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{-}0.4\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{-}0.3\text{PbTiO}_3$ single crystal. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	3
33	Structures and pyroelectric properties for [111]-oriented Mn-doped rhombohedral $0.36\text{PIN}\text{-}0.36\text{PMN}\text{-}0.28\text{PT}$ crystal. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7329-7335.	1.9	11
34	Influence of oxygen pressure on the electrical properties of Mn-doped $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{-BaTiO}_3$ thin films by pulsed laser deposition. <i>Ceramics International</i> , 2019, 45, 13518-13522.	2.3	6
35	In-situ electric field induced nanoscale BO_6 octahedral tilting in lead-free Fe-doped $0.95(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3\text{-}0.05\text{BaTiO}_3$ single crystal. <i>Scripta Materialia</i> , 2019, 165, 94-97.	2.6	1
36	Analogous Anti-Ferroelectricity in Y_2O_3 -Coated $(\text{Pb}_{0.92}\text{Sr}_{0.05}\text{La}_{0.02})(\text{Zr}_{0.7}\text{Sn}_{0.25}\text{Ti}_{0.05})\text{O}_3$ Ceramics and Their Energy-Storage Performance. <i>Materials</i> , 2019, 12, 119.	1.3	6

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37	Optical properties of Mn-doped $0.15\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-}0.57\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.28\text{PbTiO}_3$ single crystal. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	6
38	Correlation of enhanced electrical properties and domain structure of high-T C PMN-PH-PT ceramics prepared by different methods. Ceramics International, 2018, 44, 10099-10105.	2.3	6
39	Growth and electrical properties of epitaxial $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.3\text{PbTiO}_3$ thin film by pulsed laser deposition. Journal of Materials Science: Materials in Electronics, 2018, 29, 6779-6784.	1.1	6
40	Effects of nano-sized BCZT on structure and electrical properties of KNN-based lead-free piezoceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 4422-4431.	1.1	12
41	Giant electrostrain accompanying structural evolution in lead-free NBT-based piezoceramics. Journal of Materials Chemistry C, 2018, 6, 814-822.	2.7	68
42	Facile preparation and performance of novel high-T C $x\text{Bi}(\text{Ni}_{1/2}\text{Ti}_{1/2})\text{O}_3\text{-}(1-x)\text{Pb}(\text{Zr}_{1/2}\text{Ti}_{1/2})\text{O}_3$ piezoceramics. Current Applied Physics, 2018, 18, 289-296.	1.1	24
43	Nanoscale insight of high piezoelectricity in high-TC PMN-PH-PT ceramics. Applied Physics Letters, 2018, 112, .	1.5	11
44	Piezoelectric/photoluminescence effect in one-dimensional lead-free nanofibers. Scripta Materialia, 2018, 145, 81-84.	2.6	9
45	Ferroelectric phase transition and electrical properties of high-TC PMN-PH-PT ceramics prepared by partial oxalate route. Journal of the European Ceramic Society, 2018, 38, 1463-1472.	2.8	20
46	Pyroelectric properties of Mn-doped Aurivillius ceramics with different pseudo-perovskite layers. Journal of the American Ceramic Society, 2018, 101, 1592-1597.	1.9	13
47	Enhancing piezoelectric properties of high-Curie temperature PMN-PH-PT piezoelectric ceramics by citrate method. Journal of Alloys and Compounds, 2018, 735, 496-509.	2.8	32
48	Polarization investigation of Mn-doped $0.72\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.28\text{PbTiO}_3$ single crystals for infrared detecting application. Journal of Applied Physics, 2018, 124, 234101.	1.1	6
49	Enhanced pyroelectric properties and thermal stability of Mn-doped $0.29\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-}0.29\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.42\text{PbTiO}_3$ single crystals. Applied Physics Letters, 2018, 112, 1.5 172901.		22
50	Improving densification and electrical properties of KNN-based lead-free piezoceramics via two-step sintering method. Ferroelectrics, 2018, 526, 33-45.	0.3	10
51	Enhanced pyroelectric and piezoelectric responses in W/Mn-codoped $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Aurivillius ceramics. Journal of the European Ceramic Society, 2018, 38, 5348-5353.	2.8	54
52	Electric-field-induced local distortion and large electrostrictive effects in lead-free NBT-based relaxor ferroelectrics. Journal of the European Ceramic Society, 2018, 38, 4631-4639.	2.8	49
53	Ferroelectric phase transition and electrical conduction mechanisms in high Curie-temperature PMN-PHT piezoelectric ceramics. Ceramics International, 2017, 43, 6417-6424.	2.3	23
54	Effects on structure and properties of BCZT lead-free piezoelectric ceramics by rare-earth doping. Ferroelectrics, 2017, 507, 186-197.	0.3	33

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55	Theoretical modeling of detectivity of magnetoelectric magnetic sensor and ultra-high magnetic detectivity of Metglas/PMNT/Metglas laminates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700016.	0.8	1
56	Upconversion and downconversion luminescence properties of Er ³⁺ doped NBT ceramics synthesized via hydrothermal method. <i>Optical Materials</i> , 2017, 69, 244-249.	1.7	17
57	Domain configuration evolution, dielectric, ferroelectric and piezoelectric properties of 0.32PIN-0.345PMN-0.335PT single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 12929-12936.	1.1	6
58	Enhancing magnetoelectric properties of BaTiO_3 particulate composite ceramics by introducing nano-sized sintering aids via self-combustion method. <i>Current Applied Physics</i> , 2017, 17, 1249-1253.	1.1	5
59	Design and fabrication of high frequency ultrasonic transducer based on lead-free Mn-doped (K _{0.44} Na _{0.56})NbO ₃ single crystal. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 182-186.	2.0	9
60	A high-performance flexible piezoelectric energy harvester based on lead-free (Na _{0.5} Bi _{0.5})TiO ₃ -BaTiO ₃ piezoelectric nanofibers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23634-23640.	5.2	48
61	Nanoscale insight into the giant piezoelectric response in lead-free Fe-doped 0.95(Na _{1/2} Bi _{1/2})TiO ₃ -0.05BaTiO ₃ single crystal. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	17
62	A flexible, sandwich structure piezoelectric energy harvester using PIN-PMN-PT/epoxy 2-2 composite flake for wearable application. <i>Sensors and Actuators A: Physical</i> , 2017, 265, 62-69.	2.0	22
63	High frequency transducer for vessel imaging based on lead-free Mn-doped (K _{0.44} Na _{0.56})NbO ₃ single crystal. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	28
64	In situ reversible tuning of photoluminescence of an epitaxial thin film via piezoelectric strain induced by a Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystal. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9115-9120.	2.7	33
65	Decreasing sintering temperature for BCZT lead-free ceramics prepared via hydrothermal route. <i>Functional Materials Letters</i> , 2017, 10, 1750046.	0.7	20
66	Enhanced pyroelectric properties and application of tetragonal Mn-doped 0.29Pb(In _{1/2} Nb _{1/2})O ₃ -0.31Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.40PbTiO ₃ ternary single crystals. <i>Journal of Alloys and Compounds</i> , 2017, 695, 760-764.	2.8	11
67	Ferroelectric phase transitions of the 0.32PIN-0.345PMN-0.335PT single crystals studied by temperature-dependent Raman spectroscopy, dielectric and ferroelectric performance. <i>Phase Transitions</i> , 2017, 90, 500-508.	0.6	10
68	Optimizing structure and electrical properties of high-Curie temperature PMN-PHT piezoelectric ceramics via tailoring sintering process. <i>EPJ Applied Physics</i> , 2016, 74, 30101.	0.3	21
69	Dielectric and piezoelectric properties of lead-free (K _{0.44} Na _{0.46})NbO ₃ -0.5%MnO ₂ single crystals grown by the TSSG method. <i>Ceramics International</i> , 2016, 42, 15327-15331.	2.3	13
70	Study of temperature-dependent Raman spectroscopy and electrical properties in [001]-oriented 0.35Pb(In _{1/2} Nb _{1/2})O ₃ -0.35Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.30PbTiO ₃ -Mn single crystals. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	13
71	Giant strain and electric-field-induced phase transition in lead-free (Na _{0.5} Bi _{0.5})TiO ₃ -BaTiO ₃ -(K _{0.5} Na _{0.5})NbO ₃ single crystal. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	42
72	Temperature-dependent Raman spectra and electrical properties of 0.69Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.31PbTiO ₃ single crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	12

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73	Irreversible phase transition characteristic of $0.91\text{Pb}(\text{Zn } 1/3 \text{ Nb } 2/3)\text{O } 3$ - $0.09\text{PbTiO } 3$ single crystals by domain observation. <i>Current Applied Physics</i> , 2016, 16, 1703-1707.	1.1	4
74	Shear-Mode-Based Cantilever Driving Low-Frequency Piezoelectric Energy Harvester Using $0.67\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3)\text{O } 3$ - $0.33\text{PbTiO } 3$. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 1192-1197.	1.7	15
75	3D-Printing of inverted pyramid suspending architecture for pyroelectric infrared detectors with inhibited microphonic effect. <i>Infrared Physics and Technology</i> , 2016, 76, 111-115.	1.3	11
76	Growth and properties of 4-in. diameter ferroelectric single crystal $\text{Pb}(\text{In } 1/2 \text{ Nb } 1/2)\text{O } 3$ - $\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3)\text{O } 3$ - $\text{PbTiO } 3$ by the seed-induced modified Bridgman technique. <i>Journal of Crystal Growth</i> , 2016, 452, 105-110.	0.7	8
77	High sensitive nonlinear modulation magnetoelectric magnetic sensors with a magnetostrictive metglas structure based on bell-shaped geometry. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 405, 225-230.	1.0	16
78	Enhanced piezoelectric response and thermal stability in $(1 - x) \text{Pb}(\text{Na } 1/2 \text{ Bi } 1/2)\text{TiO } 3$ - $x\text{Pb}(\text{K } 1/2 \text{ Bi } 1/2)\text{TiO } 3$ ternary ferroelectric single crystals. <i>Scripta Materialia</i> , 2016, 113, 43-47.	2.6	15
79	Improvement of magnetoelectric properties in metglas/ $\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3)\text{O } 3$ - $\text{PbTiO } 3$ /metglas laminates with screen-printed ID-electrodes by poling optimization. <i>Journal of Alloys and Compounds</i> , 2016, 656, 793-797.	2.8	7
80	Significant reduction of equivalent magnetic noise by in-plane series connection in magnetoelectric Metglas/Mn-doped $\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3)\text{O } 3$ - $\text{PbTiO } 3$ laminate composites. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 465002.	1.3	26
81	Compositional segregation, structural transformation and property-temperature relationship of high-Curie temperature $\text{Pb}(\text{In } 1/2 \text{ Nb } 1/2)\text{O } 3$ - $\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3)\text{O } 3$ - $\text{PbTiO } 3$ single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9316-9328.	1.1	21
82	Novel electrode layout for relaxor single crystal pyroelectric detectors with enhanced responsivity and specific detectivity. <i>Sensors and Actuators A: Physical</i> , 2015, 234, 82-86.	2.0	11
83	The Growth and Properties of Lead-Free Ferroelectric Single Crystals. <i>Crystals</i> , 2015, 5, 172-192.	1.0	15
84	Enhancing pyroelectric properties of Li-doped $(\text{Ba } 0.85 \text{ Ca } 0.15)(\text{Zr } 0.1 \text{ Ti } 0.9)\text{O } 3$ lead-free ceramics by optimizing calcination temperature. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 071501.	0.8	34
85	Phase Diagram of Ternary $\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3)\text{O } 3$ - $\text{PbZrO } 3$ - $\text{PbTiO } 3$ Ferroelectric Ceramics Prepared Via a B-site Oxide Mixing Route. <i>Ferroelectrics</i> , 2015, 482, 11-21.	0.3	12
86	High performance single crystal/epoxy composites and their application in broadband transducers. , 2015, , .		0
87	Influence of the composition-induced structure evolution on the electrocaloric effect in $\text{Bi } 0.5 \text{ Na } 0.5 \text{ TiO } 3$ -based solid solution. <i>Ceramics International</i> , 2015, 41, 5888-5893.	2.3	20
88	Influence of metglas layer on nonlinear magnetoelectric effect for magnetic field detection by frequency modulation. <i>Journal of Applied Physics</i> , 2015, 117, 024104.	1.1	7
89	Growth and characterization of high-Curie temperature $\text{Pb}(\text{Lu } 1/2 \text{ Nb } 1/2)\text{O } 3$ - $\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3)\text{O } 3$ - $\text{PbTiO } 3$ ternary single crystal by modified Bridgman technique. <i>Journal of Crystal Growth</i> , 2015, 423, 50-54.	0.7	5
90	Broadband and High Sensitive Time-of-Flight Diffraction Ultrasonic Transducers Based on PMNT/Epoxy $1 - x$ Piezoelectric Composite. <i>Sensors</i> , 2015, 15, 6807-6817.	2.1	25

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91	Ultrahigh magnetoelectric voltage coefficients in laminates of Metglas and length-polarized ternary $0.35\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3 \hat{=} 0.35\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \hat{=} 0.3\text{PbTiO}_3$ single crystals. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 202-206.	2.0	8
92	Phase transition behavior and defect chemistry of [001]-oriented $0.15\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - $0.57\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.28PbTiO_3 -Mn single crystals. <i>Journal of Applied Physics</i> , 2015, 117, 244102.	1.1	26
93	Enhancing piezoelectric properties of BCZT ceramics by Sr and Sn co-doping. <i>Journal of Alloys and Compounds</i> , 2015, 640, 128-133.	2.8	76
94	Direct observation of monoclinic ferroelectric phase and domain switching process in $(\text{K}_{0.25}\text{Na}_{0.75})\text{NbO}_3$ single crystals. <i>CrystEngComm</i> , 2015, 17, 2872-2877.	1.3	24
95	Structures and electrical characterizations of high-Curie temperature $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3 \hat{=} \text{PbTiO}_3$ low-lead single crystals with compositions near the morphotropic phase boundary. <i>Ceramics International</i> , 2015, 41, 6722-6728.	2.3	7
96	Aging characteristics of $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \hat{=} 0.3\text{PbTiO}_3$ single crystals with different crystal orientations. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 1469-1476.	1.1	9
97	Design and fabrication of relaxor-ferroelectric single crystal $\text{PIN} \hat{=} \text{PMN} \hat{=} \text{PT}/\text{epoxy}$ 2-2 composite based array transducer. <i>Sensors and Actuators A: Physical</i> , 2015, 234, 34-42.	2.0	24
98	Structure and electrical properties of $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3 \hat{=} x\text{K}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ lead-free ferroelectric single crystals. <i>Solid State Communications</i> , 2015, 201, 125-129.	0.9	22
99	Large strain and pyroelectric properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \hat{=} \text{PbTiO}_3$ ceramics prepared by partial oxalate route. <i>Functional Materials Letters</i> , 2014, 07, 1450059.		
100	An effective growth method to improve the homogeneity of relaxor ferroelectric single crystal $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3 \hat{=} \text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \hat{=} \text{PbTiO}_3$. <i>Crystal Research and Technology</i> , 2014, 49, 122-128.	0.6	14
101	Residual stress and interface effect on dielectric mechanisms in poled ultrathin relaxor ferroelectric single crystals. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	5
102	Study of field-induced phase transitions in $0.68\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3 \hat{=} 0.32\text{PbTiO}_3$ relaxor single crystal by polarized micro-Raman spectroscopy. <i>Applied Physics Letters</i> , 2014, 105, 102909.	1.5	9
103	Structure, Electrical, and Optical Properties of $(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3$ Lead-free Single Crystal Grown by a TSSG Technique. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1861-1865.	1.9	10
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