

# Fei Li

## List of Publications by Citations

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185  
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197  
ext. papers

11,639  
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
185	Decoding the Fingerprint of Ferroelectric Loops: Comprehension of the Material Properties and Structures. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 1-27	3.8	678
184	Perovskite lead-free dielectrics for energy storage applications. <i>Progress in Materials Science</i> , <b>2019</b> , 102, 72-108	42.2	558
183	High performance ferroelectric relaxor-PbTiO <sub>3</sub> single crystals: Status and perspective. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 031301	2.5	551
182	Ultrahigh piezoelectricity in ferroelectric ceramics by design. <i>Nature Materials</i> , <b>2018</b> , 17, 349-354	27	513
181	Advantages and Challenges of Relaxor-PbTiO Ferroelectric Crystals for Electroacoustic Transducers- A Review. <i>Progress in Materials Science</i> , <b>2015</b> , 68, 1-66	42.2	404
180	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , <b>2019</b> , 365, 578-582	33.3	353
179	The origin of ultrahigh piezoelectricity in relaxor-ferroelectric solid solution crystals. <i>Nature Communications</i> , <b>2016</b> , 7, 13807	17.4	332
178	Electrostrictive effect in ferroelectrics: An alternative approach to improve piezoelectricity. <i>Applied Physics Reviews</i> , <b>2014</b> , 1, 011103	17.3	276
177	Multilayer Lead-Free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802155	24	263
176	Giant piezoelectricity of Sm-doped Pb(MgNb)O-PbTiO single crystals. <i>Science</i> , <b>2019</b> , 364, 264-268	33.3	242
175	Transparent ferroelectric crystals with ultrahigh piezoelectricity. <i>Nature</i> , <b>2020</b> , 577, 350-354	50.4	181
174	Composition and phase dependence of the intrinsic and extrinsic piezoelectric activity of domain engineered (1-x)Pb(Mg(13)Nb(23))O(3)-xPbTiO(3) crystals. <i>Journal of Applied Physics</i> , <b>2010</b> , 108,	2.5	178
173	Ultrahigh Performance in Lead-Free Piezoceramics Utilizing a Relaxor Slush Polar State with Multiphase Coexistence. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13987-13994	16.4	152
172	Diffuse Phase Transitions and Giant Electrostrictive Coefficients in Lead-Free Fe-Doped 0.5Ba(ZrTi)O-0.5(BaCa)TiO Ferroelectric Ceramics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 31109-31119	9.5	149
171	Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801504	15.6	149
170	Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. <i>Nature Materials</i> , <b>2020</b> , 19, 999-1005	27	136
169	Microstructure and dielectric properties of (Nb + In) co-doped rutile TiO <sub>2</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 074105	2.5	117

168	Exceptionally High Piezoelectric Coefficient and Low Strain Hysteresis in Grain-Oriented (Ba, Ca)(Ti, Zr)O through Integrating Crystallographic Texture and Domain Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29863-29871	9.5	114
167	Structural and Dielectric Properties of Bi (Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> BaTiO <sub>3</sub> Lead-Free Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 4335-4339	3.8	114
166	Major contributor to the large piezoelectric response in (1-x)Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -x(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> ceramics: Domain wall motion. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 252909	3.4	107
165	Practical High Piezoelectricity in Barium Titanate Ceramics Utilizing Multiphase Convergence with Broad Structural Flexibility. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 15252-15260	16.4	105
164	Critical Property in Relaxor-PbTiO <sub>3</sub> Single Crystals --- Shear Piezoelectric Response. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2118-2128	15.6	102
163	Evidences of grain boundary capacitance effect on the colossal dielectric permittivity in (Nb + In) co-doped TiO <sub>2</sub> ceramics. <i>Scientific Reports</i> , <b>2015</b> , 5, 8295	4.9	100
162	The Contributions of Polar Nanoregions to the Dielectric and Piezoelectric Responses in Domain-Engineered Relaxor-PbTiO <sub>3</sub> Crystals. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700310	15.6	97
161	Thickness Dependent Properties of Relaxor-PbTiO <sub>3</sub> Ferroelectrics for Ultrasonic Transducers. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3154-3162	15.6	97
160	High electrostrictive coefficient Q <sub>33</sub> in lead-free Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -x(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> piezoelectric ceramics. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 232903	3.4	93
159	Electrostrictive effect in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -xPbTiO <sub>3</sub> crystals. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 152910	9.4	79
158	Electromechanical properties of Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Mg <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 14108	2.5	71
157	Characterization and piezoelectric thermal stability of PIN <sub>1/2</sub> MN <sub>1/2</sub> BT ternary ceramics near the morphotropic phase boundary. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 489, 115-118	5.7	67
156	Flexible energy harvesting polymer composites based on biofibril-templated 3-dimensional interconnected piezoceramics. <i>Nano Energy</i> , <b>2018</b> , 50, 35-42	17.1	66
155	Temperature Dependence of Dielectric/Piezoelectric Properties of (1-x)Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> -xPbTiO <sub>3</sub> Ceramics with an MPB Composition. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 3330-3334	3.8	64
154	Photoflexoelectric effect in halide perovskites. <i>Nature Materials</i> , <b>2020</b> , 19, 605-609	27	64
153	Recent Developments in Piezoelectric Crystals. <i>Journal of the Korean Ceramic Society</i> , <b>2018</b> , 55, 419-439	2.2	62
152	Piezoelectric activity in Perovskite ferroelectric crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2015</b> , 62, 18-32	3.2	61
151	(Bi <sub>0.51</sub> Na <sub>0.47</sub> )TiO <sub>3</sub> based lead free ceramics with high energy density and efficiency. <i>Journal of Materiomics</i> , <b>2019</b> , 5, 385-393	6.7	60

150	Relaxor-PbTiO <sub>3</sub> single crystals for various applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2013</b> , 60, 1572-80	3.2	57
149	Domain size engineering in tetragonal Pb(In <sub>1/3</sub> Nb <sub>1/3</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> crystals. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 84110-841106	2.5	57
148	Recent Developments on High Curie Temperature PIN-PMN-PT Ferroelectric Crystals. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 846-850	1.6	56
147	Piezoelectric activity of relaxor-PbTiO <sub>3</sub> based single crystals and polycrystalline ceramics at cryogenic temperatures: Intrinsic and extrinsic contributions. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 192903	3.4	55
146	Nonlinear $\epsilon'$ behavior in colossal permittivity ceramic:(Nb+In)co-doped rutile TiO <sub>2</sub> . <i>Ceramics International</i> , <b>2015</b> , 41, S798-S803	5.1	46
145	Measurements of face shear properties in relaxor-PbTiO <sub>3</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 064106	2.5	46
144	Converse flexoelectric coefficient $f_{1212}$ in bulk Ba <sub>0.67</sub> Sr <sub>0.33</sub> TiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2014</b> , 104, 232902	3.4	45
143	Investigation of Electromechanical Properties and Related Temperature Characteristics in Domain-Engineered Tetragonal Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> Bb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> BbTiO <sub>3</sub> Crystals. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2731-2734	3.8	44
142	Polarization Fatigue in Pb(In <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> Single Crystals. <i>Acta Materialia</i> , <b>2010</b> , 58, 3773-3780	8.4	44
141	Investigation of dielectric and piezoelectric properties in Pb(Ni <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> BbHfO <sub>3</sub> BbTiO <sub>3</sub> ternary system. <i>Journal of the European Ceramic Society</i> , <b>2013</b> , 33, 2491-2497	6	43
140	Achieving single domain relaxor-PT crystals by high temperature poling. <i>CrystEngComm</i> , <b>2014</b> , 16, 2892-2897	3.9	41
139	Understanding the piezoelectricity of high-performance potassium sodium niobate ceramics from diffused multi-phase coexistence and domain feature. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16803-16811	1.3	38
138	Colossal dielectric permittivity in hydrogen-reduced rutile TiO <sub>2</sub> crystals. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 692, 375-380	5.7	38
137	Electromechanical properties of tetragonal Pb(In <sub>12</sub> Nb <sub>12</sub> )O <sub>3</sub> -Pb(Mg <sub>13</sub> Nb <sub>23</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> ferroelectric crystals. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 54107	2.5	38
136	Investigation of zero temperature compensated cuts in langasite-type piezocrystals for high temperature applications. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 165402	3	38
135	Piezoelectric Property and Strain Behavior of Pb(Yb <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> BbHfO <sub>3</sub> BbTiO <sub>3</sub> Polycrystalline Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2857-2863	3.8	36
134	Significantly Enhanced Energy-Harvesting Performance and Superior Fatigue-Resistant Behavior in [001]-Textured BaTiO <sub>3</sub> -Based Lead-Free Piezoceramics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31488-31497	9.5	35
133	High-Performance Sm-Doped Pb(MgNb)O-PbZrO-PbTiO-Based Piezoceramics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 43359-43367	9.5	35

132	Thickness dependence of dielectric and piezoelectric properties for alternating current electric-field-poled relaxor-PbTiO <sub>3</sub> crystals. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 014102	2.5	35
131	Influence of Domain Size on the Scaling Effects in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> Ferroelectric Crystals. <i>Scripta Materialia</i> , <b>2011</b> , 64, 1149-1151	5.6	34
130	Relationship between direct and converse flexoelectric coefficients. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 144105	2.5	31
129	Temperature independent shear piezoelectric response in relaxor-PbTiO <sub>3</sub> based crystals. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 252903	3.4	31
128	Face shear piezoelectric properties of relaxor-PbTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 182903	3.4	30
127	Investigation of dielectric and piezoelectric properties in aliovalent Eu <sup>3+</sup> -modified Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> ceramics. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 7428-7435	3.8	29
126	Determination of temperature dependence of piezoelectric coefficients matrix of lead zirconate titanate ceramics by quasi-static and resonance method. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 095417	3	29
125	Transgenic microRNA-14 rice shows high resistance to rice stem borer. <i>Plant Biotechnology Journal</i> , <b>2019</b> , 17, 461-471	11.6	28
124	Variations of composition and dielectric properties of Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> single crystal along growth direction. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 124105	2.5	28
123	The dielectric properties for (Nb,In,B) co-doped rutile TiO <sub>2</sub> ceramics. <i>Ceramics International</i> , <b>2017</b> , 43, 6403-6409	5.1	26
122	Atomic-scale origin of ultrahigh piezoelectricity in samarium-doped PMN-PT ceramics. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	26
121	SiO <sub>2</sub> /Ti <sub>0.98</sub> In <sub>0.01</sub> Nb <sub>0.01</sub> O <sub>2</sub> composite ceramics with low dielectric loss, high dielectric permittivity and an enhanced breakdown electric field. <i>RSC Advances</i> , <b>2016</b> , 6, 20074-20080	3.7	26
120	Investigation of single and multidomain Pb(In <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> -Pb(Mg <sub>1B</sub> Nb <sub>2B</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> crystals with mm <sup>2</sup> symmetry. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 132903	3.4	26
119	Determination of three-dimensional orientations of ferroelectric single crystals by an improved rotating orientation x-ray diffraction method. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 085106	1.7	26
118	Ultra-slim pinched polarization-electric field hysteresis loops and thermally stable electrostrains in lead-free sodium bismuth titanate-based solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 788, 1182-1192	5.7	25
117	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO ceramics. <i>Nature Communications</i> , <b>2021</b> , 12, 881	17.4	25
116	Refreshing Piezoelectrics: Distinctive Role of Manganese in Lead-Free Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37298-37306	9.5	25
115	Investigation of morphotropic phase boundaries in PINBSNBT relaxor ferroelectric ternary systems with high Tr-t and Tc phase transition temperatures. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 2813-2823	6	24

114	Fabrication and Piezoelectric Property of BaTiO <sub>3</sub> Nanofibers. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2725-2730	3.8	24
113	Growth of the Relaxor Based Ferroelectric Single Crystals Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> by Vertical Bridgman Technique. <i>Ferroelectrics</i> , <b>2010</b> , 401, 173-180	0.6	24
112	Impact of alternating current electric field poling on piezoelectric and dielectric properties of Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> PbTiO <sub>3</sub> ferroelectric crystals. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 094104	2.5	24
111	High output power density of a shear-mode piezoelectric energy harvester based on Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> single crystals. <i>Applied Energy</i> , <b>2020</b> , 271, 115193	10.7	22
110	Structure and dielectric properties of Nd(Zn <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> /BaTiO <sub>3</sub> ceramics for energy storage applications. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 685, 418-422	5.7	22
109	Temperature- and dc bias field- dependent piezoelectric effect of soft and hard lead zirconate titanate ceramics. <i>Journal of Electroceramics</i> , <b>2010</b> , 24, 294-299	1.5	21
108	Grain-Oriented Ferroelectric Ceramics with Single-Crystal-like Piezoelectric Properties and Low Texture Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38415-38424	9.5	21
107	Lead-Free Bilayer Thick Films with Giant Electrocaloric Effect near Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23346-23352	9.5	20
106	The hydrostatic pressure dependence of the piezoelectric properties for the barium titanate and lead titanate crystals: Thermodynamic analysis. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 114111	2.5	20
105	Improve piezoelectricity and elasticity of Ce-doped BaTiO <sub>3</sub> nanofibers towards energy harvesting application. <i>RSC Advances</i> , <b>2015</b> , 5, 55269-55276	3.7	19
104	Field stability of piezoelectric shear properties in PIN-PMN-PT crystals under large drive field. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2011</b> , 58, 274-80	3.2	19
103	Giant tuning of ferroelectricity in single crystals by thickness engineering. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	19
102	Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range. <i>Nature Communications</i> , <b>2021</b> , 12, 1414	17.4	19
101	Full characterization for material constants of a promising KNN-based lead-free piezoelectric ceramic. <i>Ceramics International</i> , <b>2020</b> , 46, 5641-5644	5.1	18
100	Insights into the dielectric response of ferroelectric relaxors from statistical modeling. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	17
99	Flexoelectric behavior in PIN-PMN-PT single crystals over a wide temperature range. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 162901	3.4	16
98	Large-scale analysis reveals that the genome features of simple sequence repeats are generally conserved at the family level in insects. <i>BMC Genomics</i> , <b>2017</b> , 18, 848	4.5	16
97	Thermal stability and electric-field-induced strain behaviors for PIN-PSN-PT piezoelectric ceramics. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 316-325	3.8	16

96	Domain switching contribution to piezoelectric response in BaTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 192904	3.4	16
95	Chromosomal-level genomes of three rice planthoppers provide new insights into sex chromosome evolution. <i>Molecular Ecology Resources</i> , <b>2021</b> , 21, 226-237	8.4	16
94	High-Performance Ultrasound Needle Transducer Based on Modified PMN-PT Ceramic With Ultrahigh Clamped Dielectric Permittivity. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 223-230	3.2	15
93	Colossal dielectric behavior of Co-doped TiO <sub>2</sub> ceramics: A comparative study. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 786, 377-384	5.7	14
92	The effect of polar nanoregions on electromechanical properties of relaxor-PbTiO <sub>3</sub> crystals: Extracting from electric-field-induced polarization and strain behaviors. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 122904	3.4	14
91	Compositionally Graded KNN-based Multilayer Composite with Excellent Piezoelectric Temperature Stability.. <i>Advanced Materials</i> , <b>2021</b> , e2109175	24	14
90	Electrostriction coefficient of ferroelectric materials from ab initio computation. <i>AIP Advances</i> , <b>2016</b> , 6, 065122	1.5	14
89	Improved densification behavior and energy harvesting properties of low-temperature sintered (Ba, Ca)(Zr, Ti)O <sub>3</sub> piezoceramics with a CuO additive. <i>Ceramics International</i> , <b>2019</b> , 45, 10518-10524	5.1	13
88	Piezoelectric property of relaxor-PbTiO <sub>3</sub> crystals under uniaxial transverse stress. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 172902	3.4	13
87	microRNA-14 as an efficient suppressor to switch off ecdysone production after ecdysis in insects. <i>RNA Biology</i> , <b>2019</b> , 16, 1313-1325	4.8	12
86	Applications of the rotating orientation XRD method to oriented materials. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 012001	3	12
85	Frequency dispersion of flexoelectricity in PMN-PT single crystal. <i>AIP Advances</i> , <b>2017</b> , 7, 015010	1.5	11
84	The effect of the hydrostatic pressure on the electromechanical properties of ferroelectric rhombohedral single crystals Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )-Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )-PbTiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2011</b> , 99, 062903	3.4	11
83	Enhanced electric-field-induced strains in (K,Na)NbO <sub>3</sub> piezoelectrics from heterogeneous structures. <i>Materials Today</i> , <b>2021</b> , 46, 44-53	21.8	11
82	[111]-oriented PIN-PMN-PT crystals with ultrahigh dielectric permittivity and high frequency constant for high-frequency transducer applications. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 074105	2.5	11
81	Composition and electrical properties characterization of a 5 $\mu$ m diameter PIN-PMN-PT single crystal by the modified Bridgman method. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 851, 156145	5.7	11
80	Microstructure and elastic properties of BaTiO <sub>3</sub> nanofibers sintered in various atmospheres. <i>Ceramics International</i> , <b>2018</b> , 44, 2426-2431	5.1	10
79	Phase transition behavior and high electrostrictive strains in Bi(Li <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> -doped lead magnesium niobate-based solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 206-214	5.7	10

78	Direct observation of domain wall motion and novel dielectric loss in $0.23\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-}0.42\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.35\text{PbTiO}_3$ crystals. <i>CrystEngComm</i> , <b>2013</b> , 15, 6292	3.3	10
77	The vitellogenin receptor has an essential role in vertical transmission of rice stripe virus during oogenesis in the small brown plant hopper. <i>Pest Management Science</i> , <b>2019</b> , 75, 1370-1382	4.6	10
76	Piezoelectric ceramics with high piezoelectricity and broad temperature usage range. <i>Journal of Materiomics</i> , <b>2021</b> , 7, 683-692	6.7	10
75	Flexoelectric fatigue in $(\text{K},\text{Na},\text{Li})(\text{Nb},\text{Sb})\text{O}_3$ ceramics. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 182901	3.4	10
74	An efficient way to enhance output strain for shear mode $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ crystals: Applying uniaxial stress perpendicular to polar direction. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 192901	3.4	9
73	High frequency needle ultrasonic transducers based on Mn doped piezoelectric single crystal. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 832, 154951	5.7	9
72	High output power density and strong vibration durability in a modified barbell-shaped energy harvester based on multilayer $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ single crystals. <i>APL Materials</i> , <b>2021</b> , 9, 010703	5.7	9
71	Electric dipole sheets in $\text{BaTiO}_3/\text{BaZrO}_3$ superlattices. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	8
70	DC BIAS ELECTRIC FIELD DEPENDENT PIEZOELECTRICITY FOR [001] POLED $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ CRYSTALS. <i>Journal of Advanced Dielectrics</i> , <b>2011</b> , 01, 303-308	1.3	8
69	Properties of PMN-PT single crystal piezoelectric material and its application in underwater acoustic transducer. <i>Applied Acoustics</i> , <b>2021</b> , 175, 107827	3.1	8
68	Transgenic rice overexpressing insect endogenous microRNA csu-novel-260 is resistant to striped stem borer under field conditions. <i>Plant Biotechnology Journal</i> , <b>2021</b> , 19, 421-423	11.6	8
67	A novel flexible tactile sensor based on Ce-doped $\text{BaTiO}_3$ nanofibers. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 074002	1.8	7
66	Large flexoelectric response in PMN-PT ceramics through composition design. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 142901	3.4	7
65	Reversible Domain-Wall-Motion-Induced Low-Hysteretic Piezoelectric Response in Ferroelectrics. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 15434-15440	3.8	7
64	Tetragonal-to-Tetragonal Phase Transition in Lead-Free $(\text{K}_x\text{Na}_{1-x})\text{NbO}_3$ ( $x = 0.11$ and $0.17$ ) Crystals. <i>Crystals</i> , <b>2014</b> , 4, 113-122	2.3	7
63	Fabrication of flexible energy harvesting device based on $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ nanopowders. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 629, 113-117	5.7	7
62	In-situ observation of domain wall motion in $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ crystals. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 034105	2.5	7
61	Effects of $\text{InNbO}_4$ Fabrication on Perovskite PIN-PMN-PT. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 3110-3115	3.8	7



60	High rhombohedral to tetragonal phase transition temperature and electromechanical response in Pb(Yb <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Sc <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> ferroelectric system near the morphotropic phase boundary. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 2082-2090	6	7
59	Modified Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbZrO <sub>3</sub> /PbTiO <sub>3</sub> ceramics with high piezoelectricity and temperature stability. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 5127-5137	3.8	7
58	Direct observation of nanoscale dynamics of ferroelectric degradation. <i>Nature Communications</i> , <b>2021</b> , 12, 2095	17.4	7
57	In-situ domain structure characterization of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> crystals under alternating current electric field poling. <i>Acta Materialia</i> , <b>2021</b> , 210, 116853	8.4	7
56	Piezoelectric materials for cryogenic and high-temperature applications <b>2016</b> , 59-93		7
55	Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches.. <i>Science</i> , <b>2022</b> , 376, 371-377	33.3	7
54	New Sm-PMN-PT Ceramic-Based 2-D Array for Low-Intensity Ultrasound Therapy Application. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 2085-2094	3.2	6
53	Dielectric behavior and phase transition in [111]-oriented PINbMNbT single crystals under dc bias. <i>Journal of Advanced Dielectrics</i> , <b>2014</b> , 04, 1450004	1.3	6
52	Inverse Domain-Size Dependence of Piezoelectricity in Ferroelectric Crystals. <i>Advanced Materials</i> , <b>2021</b> , e2105071	24	6
51	Temperature-insensitive PMN-PZ-PT ferroelectric ceramics for actuator applications. <i>Acta Materialia</i> , <b>2021</b> , 211, 116871	8.4	6
50	Piezoelectric ultrasound energy-harvesting device for deep brain stimulation and analgesia applications.. <i>Science Advances</i> , <b>2022</b> , 8, eabk0159	14.3	6
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48	Temperature Dependence of Elastic, Piezoelectric, and Dielectric Matrixes of [001]-Poled Rhombohedral PIN-PMN-PT Single Crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2019</b> , 66, 1786-1792	3.2	5
47	Hydrostatic Pressure Dependence of Dielectric, Elastic, and Piezoelectric Properties of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.33PbTiO <sub>3</sub> Ceramic. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2946-2950	3.8	5
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43	Male mating and female postmating performances in cotton mealybug (Hemiptera: Pseudococcidae): effects of female density. <i>Journal of Economic Entomology</i> , <b>2019</b> , 112, 1145-1150	2.2	4

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40	Ferroelectric phase transitions and electromechanical properties of barium titanate and lead titanate crystals under uniaxial and shear stresses: a thermodynamic analysis. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 215304	3	4
39	Dielectric properties of [001]-oriented Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> PbTiO <sub>3</sub> single crystal under hydrostatic pressure. <i>High Pressure Research</i> , <b>2010</b> , 30, 273-279	1.6	4
38	THE HYDROSTATIC PIEZOELECTRICITY OF RELAXOR-PbTiO <sub>3</sub> FERROELECTRIC CERAMICS AND CRYSTALS. <i>Journal of Advanced Dielectrics</i> , <b>2012</b> , 02, 1250018	1.3	4
37	Evolution of transverse piezoelectric response of lead zirconate titanate ceramics under hydrostatic pressure. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 072001	3	4
36	Bridgman growth and thermal analysis of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> PbTiO <sub>3</sub> single crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2010</b> , 170, 113-116	3.1	4
35	Revisiting the structural stability and electromechanical properties in lead zinc niobate-lead titanate-barium titanate (PZN-PT-BT) ternary system. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 1236-1242	6	4
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33	Enhanced Piezoelectric Properties and Improved Property Uniformity in Nd-Doped PMN-PT Relaxor Ferroelectric Single Crystals. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 17119	15.6	4
32	Analysis on the anisotropic electromechanical properties of lead magnoniobate titanate single crystal for ring type ultrasonic motors. <i>AIP Advances</i> , <b>2016</b> , 6, 115017	1.5	3
31	High performance lead free ferroelectric ATiO <sub>3</sub> /SnTiO <sub>3</sub> superlattices. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 062905	3.4	3
30	Influence of hydrostatic pressure on electric field induced phase transition of PbLa(Zr,Sn,Ti)O <sub>3</sub> ceramic. <i>Materials Research Innovations</i> , <b>2011</b> , 15, 271-273	1.9	3
29	Large-Scale Annotation and Evolution Analysis of MiRNA in Insects. <i>Genome Biology and Evolution</i> , <b>2021</b> , 13,	3.9	3
28	Frequency Dependence of Coercive Fields of [001]- and [011]-Poled Rhombohedral Pb(InNb)O <sub>3</sub> Pb(MgNb)O <sub>3</sub> PbTiO <sub>3</sub> Single Crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 1430-1436	3.2	3
27	Improved piezoelectric properties of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> textured ferroelectric ceramics via Sm-doping method. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 881, 160666	5.7	3
26	Large, thermally stabilized and fatigue-resistant piezoelectric strain response in textured relaxor-PbTiO <sub>3</sub> ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2008-2015	7.1	3
25	Achieving both high electromechanical properties and temperature stability in textured PMN-PT ceramics. <i>Journal of the American Ceramic Society</i> , <b>2022</b> , 105, 3322-3330	3.8	3

24	Preparation and characterization of Pb(Lu <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> PbTiO <sub>3</sub> ternary ferroelectric ceramics with high phase transition temperatures. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 5514-5523	3.8	2
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22	A robust, low-voltage driven millirobot based on transparent ferroelectric crystals. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 032902	3.4	2
21	Enhanced energy harvesting performance of PIN-PMN-PT single crystal unimorph using alternating current poling. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 042902	3.4	2
20	Breaking symmetry for piezoelectricity.. <i>Science</i> , <b>2022</b> , 375, 618-619	33.3	2
19	Interplay of defect dipole and flexoelectricity in linear dielectrics. <i>Scripta Materialia</i> , <b>2022</b> , 210, 114427	5.6	2
18	Piezoelectricity: An important property for ferroelectrics during last 100 years. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2020</b> , 69, 217703	0.6	2
17	A Dual-Mode 2D Matrix Array for Ultrasound Image-Guided Noninvasive Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 3482-3490	5	2
16	Tetragonal (Ba, Ca) (Zr, Ti)O <sub>3</sub> textured ceramics with enhanced piezoelectric response and superior temperature stability. <i>Journal of Materiomics</i> , <b>2021</b> , 8, 366-366	6.7	2
15	Low temperature sintering of Li <sub>2</sub> CO <sub>3</sub> added Pb(Ni <sub>1/3</sub> Nb <sub>2/3</sub> )-Pb(Zr,Ti)O <sub>3</sub> ceramics with high piezoelectric properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 892, 162132	5.7	2
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12	Identification and Analysis of MicroRNAs Associated with Wing Polyphenism in the Brown Planthopper,. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	1
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10	Relaxor-PT single crystals for various applications <b>2012</b> ,		1
9	Chromosome-level genome assembly of an agricultural pest, the rice leafhopper <i>Cnaphalocrocis exigua</i> (Crambidae, Lepidoptera). <i>Molecular Ecology Resources</i> , <b>2021</b> ,	8.4	1
8	Modeling and Experiment of a Small Size Dual Mode Transducer for Underwater Acoustic Communication and Detection. <i>Acta Acustica United With Acustica</i> , <b>2018</b> , 104, 947-955	1.5	1
7	Large-Area Piezoelectric Single Crystal Composites via 3-D-Printing-Assisted Dice-and-Insert Technology for Hydrophone Applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 3241-3248	3.2	1

6	A bending-bending mode piezoelectric actuator based on PIN-PMN-PT crystal stacks. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 331, 113052	3.9	1
5	FastD: Fast detection of insecticide target-site mutations and overexpressed detoxification genes in insect populations from RNA-Seq data. <i>Ecology and Evolution</i> , <b>2020</b> , 10, 14346-14358	2.8	0
4	Bi(Mg <sub>1/2</sub> Zr <sub>1/2</sub> )O <sub>3</sub> PbZrO <sub>3</sub> PbTiO <sub>3</sub> relaxor ferroelectric ceramics with large and temperature-insensitive electric field-induced strain response. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 10, 337-345	7.1	0
3	Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 202903	3.4	0
2	Growth, crystalline quality and transition variation of ternary Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> ferroelectric crystals. <i>Journal of Advanced Dielectrics</i> , <b>2013</b> , 03, 1350003	1.3	
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