

# Fei Li

## List of Publications by Year in descending order

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197  
papers

14,380  
citations

36203

51  
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20900

115  
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197  
all docs

197  
docs citations

197  
times ranked

6518  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskite lead-free dielectrics for energy storage applications. Progress in Materials Science, 2019, 102, 72-108.	16.0	1,137
2	Decoding the Fingerprint of Ferroelectric Loops: Comprehension of the Material Properties and Structures. Journal of the American Ceramic Society, 2014, 97, 1-27.	1.9	894
3	Ultra-high piezoelectricity in ferroelectric ceramics by design. Nature Materials, 2018, 17, 349-354.	13.3	874
4	High performance ferroelectric relaxor-PbTiO <sub>3</sub> single crystals: Status and perspective. Journal of Applied Physics, 2012, 111, .	1.1	666
5	Ultra-high energy density lead-free dielectric films via polymorphic nanodomain design. Science, 2019, 365, 578-582.	6.0	662
6	Advantages and challenges of relaxor-PbTiO <sub>3</sub> ferroelectric crystals for electroacoustic transducers – A review. Progress in Materials Science, 2015, 68, 1-66.	16.0	607
7	The origin of ultra-high piezoelectricity in relaxor-ferroelectric solid solution crystals. Nature Communications, 2016, 7, 13807.	5.8	510
8	Giant piezoelectricity of Sm-doped Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> single crystals. Science, 2019, 364, 264-268.	6.0	479
9	Electrostrictive effect in ferroelectrics: An alternative approach to improve piezoelectricity. Applied Physics Reviews, 2014, 1, 011103.	5.5	395
10	Multilayer Lead-Free Ceramic Capacitors with Ultra-high Energy Density and Efficiency. Advanced Materials, 2018, 30, e1802155.	11.1	392
11	Transparent ferroelectric crystals with ultra-high piezoelectricity. Nature, 2020, 577, 350-354.	13.7	360
12	Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. Nature Materials, 2020, 19, 999-1005.	13.3	347
13	Ultra-high Performance in Lead-Free Piezoceramics Utilizing a Relaxor Slush Polar State with Multiphase Coexistence. Journal of the American Chemical Society, 2019, 141, 13987-13994.	6.6	296
14	Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics. Advanced Functional Materials, 2018, 28, 1801504.	7.8	260
15	Composition and phase dependence of the intrinsic and extrinsic piezoelectric activity of domain engineered (1-x)Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -xPbTiO <sub>3</sub> crystals. Journal of Applied Physics, 2010, 108, .	1.1	202
16	Diffuse Phase Transitions and Giant Electrostrictive Coefficients in Lead-Free Fe <sup>3+</sup> -Doped 0.5Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -0.5(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> Ferroelectric Ceramics. ACS Applied Materials & Interfaces, 2016, 8, 31109-31119.	4.0	192
17	Practical High Piezoelectricity in Barium Titanate Ceramics Utilizing Multiphase Convergence with Broad Structural Flexibility. Journal of the American Chemical Society, 2018, 140, 15252-15260.	6.6	187
18	Exceptionally High Piezoelectric Coefficient and Low Strain Hysteresis in Grain-Oriented (Ba, Ca)(Ti, Tj)ETQq000rgBT / Overlock 10 Tf 5 Materials & Interfaces, 2017, 9, 29863-29871.	4.0	154



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37	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO <sub>3</sub> ceramics. Nature Communications, 2021, 12, 881.	5.8	82
38	Recent developments on high Curie temperature PIN <sup>+</sup> PMN <sup>-</sup> PT ferroelectric crystals. Journal of Crystal Growth, 2011, 318, 846-850.	0.7	78
39	Compositionally Graded KNN <sup>-</sup> Based Multilayer Composite with Excellent Piezoelectric Temperature Stability. Advanced Materials, 2022, 34, e2109175.	11.1	74
40	Relaxor-PbTiO <sub>3</sub> single crystals for various applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1572-1580.	1.7	71
41	Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range. Nature Communications, 2021, 12, 1414.	5.8	71
42	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. Journal of the American Ceramic Society, 2010, 93, 3330-3334.	1.9	69
43	Atomic-scale origin of ultrahigh piezoelectricity in samarium-doped PMN-PT ceramics. Physical Review B, 2020, 101, .	1.1	69
44	Domain size engineering in tetragonal 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> crystals. Journal of Applied Physics, 2011, 110, 84110-841106.	1.1	65
45	Understanding the piezoelectricity of high-performance potassium sodium niobate ceramics from diffused multi-phase coexistence and domain feature. Journal of Materials Chemistry A, 2019, 7, 16803-16811.	5.2	65
46	Investigation of dielectric and piezoelectric properties in Pb(Ni <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbHfO <sub>3</sub> -PbTiO <sub>3</sub> ternary system. Journal of the European Ceramic Society, 2013, 33, 2491-2497.	2.8	62
47	Piezoelectric activity of relaxor-PbTiO <sub>3</sub> based single crystals and polycrystalline ceramics at cryogenic temperatures: Intrinsic and extrinsic contributions. Applied Physics Letters, 2010, 96, 192903.	1.5	59
48	Colossal dielectric permittivity in hydrogen-reduced rutile TiO <sub>2</sub> crystals. Journal of Alloys and Compounds, 2017, 692, 375-380.	2.8	59
49	Significantly Enhanced Energy-Harvesting Performance and Superior Fatigue-Resistant Behavior in [001]-Textured BaTiO <sub>3</sub> -Based Lead-Free Piezoceramics. ACS Applied Materials & Interfaces, 2018, 10, 31488-31497.	4.0	57
50	Nonlinear I <sup>2</sup> -V behavior in colossal permittivity ceramic:(Nb+In)co-doped rutile TiO <sub>2</sub> . Ceramics International, 2015, 41, S798-S803.	2.3	56
51	Piezoelectric ultrasound energy <sup>+</sup> harvesting device for deep brain stimulation and analgesia applications. Science Advances, 2022, 8, eabr0159.	4.7	55
52	Thickness dependence of dielectric and piezoelectric properties for alternating current electric-field-poled relaxor-PbTiO <sub>3</sub> crystals. Journal of Applied Physics, 2019, 125, .	1.1	53
53	Measurements of face shear properties in relaxor-PbTiO <sub>3</sub> single crystals. Journal of Applied Physics, 2011, 110, .	1.1	52
54	Piezoelectric Property and Strain Behavior of (Pb <sub>0.5</sub> Yb <sub>0.5</sub> Nb <sub>0.5</sub> ) <sub>2</sub> O <sub>3</sub> Polycrystalline Ceramics. Journal of the American Ceramic Society, 2013, 96, 2857-2863.		

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55	Grain-Oriented Ferroelectric Ceramics with Single-Crystal-like Piezoelectric Properties and Low Texture Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38415-38424.	4.0	52
56	Converse flexoelectric coefficient $\times 10^{-12}$ in bulk $\text{Ba}_{0.67}\text{Sr}_{0.33}\text{TiO}_3$ . <i>Applied Physics Letters</i> , 2014, 104, 232902.	1.5	50
57	Polarization fatigue in $\text{Pb}(\text{In}_{0.5}\text{Nb}_{0.5})\text{O}_3$ – $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{PbTiO}_3$ single crystals. <i>Acta Materialia</i> , 2010, 58, 3773-3780.	3.8	48
58	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> , 2017, 18, 848.	1.2	48
59	Transgenic microRNA-14 rice shows high resistance to rice stem borer. <i>Plant Biotechnology Journal</i> , 2019, 17, 461-471.	4.1	46
60	Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches. <i>Science</i> , 2022, 376, 371-377.	6.0	46
61	Investigation of Electromechanical Properties and Related Temperature Characteristics in Domain-Engineered Tetragonal $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ – $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{PbTiO}_3$ Crystals. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2731-2734.	1.9	44
62	Impact of alternating current electric field poling on piezoelectric and dielectric properties of $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ – $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{PbTiO}_3$ ferroelectric crystals. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	44
63	Chromosomal-level genomes of three rice planthoppers provide new insights into sex chromosome evolution. <i>Molecular Ecology Resources</i> , 2021, 21, 226-237.	2.2	44
64	Electromechanical properties of tetragonal $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ – $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{PbTiO}_3$ ferroelectric crystals. <i>Journal of Applied Physics</i> , 2010, 107, 54107.	1.1	43
65	Achieving single domain relaxor-PT crystals by high temperature poling. <i>CrystEngComm</i> , 2014, 16, 2892-2897.	1.3	43
66	Investigation of zero temperature compensated cuts in langasite-type piezocrystals for high temperature applications. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 165402.	1.3	42
67	Relationship between direct and converse flexoelectric coefficients. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	42
68	Influence of domain size on the scaling effects in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{PbTiO}_3$ ferroelectric crystals. <i>Scripta Materialia</i> , 2011, 64, 1149-1151.	2.6	40
69	Determination of three-dimensional orientations of ferroelectric single crystals by an improved rotating orientation x-ray diffraction method. <i>Review of Scientific Instruments</i> , 2009, 80, 085106.	0.6	38
70	Giant tuning of ferroelectricity in single crystals by thickness engineering. <i>Science Advances</i> , 2020, 6, .	4.7	38
71	Properties of PMN-PT single crystal piezoelectric material and its application in underwater acoustic transducer. <i>Applied Acoustics</i> , 2021, 175, 107827.	1.7	38
72	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> , 2019, 788, 1182-1192.	2.8	37

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73	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> , 2009, 42, 095417.	1.3	36
74	Temperature- and dc bias field- dependent piezoelectric effect of soft and hard lead zirconate titanate ceramics. <i>Journal of Electroceramics</i> , 2010, 24, 294-299.	0.8	36
75	Refreshing Piezoelectrics: Distinctive Role of Manganese in Lead-Free Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37298-37306.	4.0	36
76	High output power density of a shear-mode piezoelectric energy harvester based on $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ single crystals. <i>Applied Energy</i> , 2020, 271, 115193.	5.1	36
77	Enhanced electric-field-induced strains in (K,Na)NbO <sub>3</sub> piezoelectrics from heterogeneous structures. <i>Materials Today</i> , 2021, 46, 44-53.	8.3	36
78	Investigation of morphotropic phase boundaries in $\text{PIN}\hat{=}\text{PSN}\hat{=}\text{PT}$ relaxor ferroelectric ternary systems with high $T_r$ -t and $T_c$ phase transition temperatures. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2813-2823.	2.8	35
79	Face shear piezoelectric properties of relaxor-PbTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , 2011, 98, 182903.	1.5	33
80	Full characterization for material constants of a promising KNN-based lead-free piezoelectric ceramic. <i>Ceramics International</i> , 2020, 46, 5641-5644.	2.3	33
81	Temperature independent shear piezoelectric response in relaxor-PbTiO <sub>3</sub> based crystals. <i>Applied Physics Letters</i> , 2010, 97, 252903.	1.5	32
82	Variations of composition and dielectric properties of $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ single crystal along growth direction. <i>Journal of Applied Physics</i> , 2013, 113, 124105.	1.1	32
83	The dielectric properties for (Nb,In,B) co-doped rutile TiO <sub>2</sub> ceramics. <i>Ceramics International</i> , 2017, 43, 6403-6409.	2.3	32
84	Lead-Free Bilayer Thick Films with Giant Electrocaloric Effect near Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 23346-23352.	4.0	32
85	Direct observation of nanoscale dynamics of ferroelectric degradation. <i>Nature Communications</i> , 2021, 12, 2095.	5.8	30
86	$\text{SiO}_2\hat{=}\text{Ti}_{0.98}\text{In}_{0.01}\text{Nb}_{0.01}\text{O}_2$ composite ceramics with low dielectric loss, high dielectric permittivity and an enhanced breakdown electric field. <i>RSC Advances</i> , 2016, 6, 20074-20080.	1.7	29
87	Thermal stability and electric-field-induced strain behaviors for $\text{PIN}\hat{=}\text{PSN}\hat{=}\text{PT}$ piezoelectric ceramics. <i>Journal of the American Ceramic Society</i> , 2018, 101, 316-325.	1.9	29
88	Fabrication and Piezoelectric Property of $\text{BaTiO}_3$ Nanofibers. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2725-2730.	1.9	28
89	microRNA-14 as an efficient suppressor to switch off ecdysone production after ecdysis in insects. <i>RNA Biology</i> , 2019, 16, 1313-1325.	1.5	28
90	Piezoelectric ceramics with high piezoelectricity and broad temperature usage range. <i>Journal of Materiomics</i> , 2021, 7, 683-692.	2.8	28

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91	Investigation of single and multidomain $\text{Pb}(\text{In}_{0.5}\text{Nb}_{0.5})\text{O}_3$ – $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{PbTiO}_3$ crystals with mm2 symmetry. <i>Applied Physics Letters</i> , 2010, 97, 132903.	1.5	27
92	Structure and dielectric properties of $\text{Nd}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$ – $\text{BaTiO}_3$ ceramics for energy storage applications. <i>Journal of Alloys and Compounds</i> , 2016, 685, 418-422.	2.8	27
93	Growth of the Relaxor Based Ferroelectric Single Crystals $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ – $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – $\text{PbTiO}_3$ by Vertical Bridgman Technique. <i>Ferroelectrics</i> , 2010, 401, 173-180.	0.3	26
94	Insights into the dielectric response of ferroelectric relaxors from statistical modeling. <i>Physical Review B</i> , 2017, 96, .	1.1	25
95	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> , 2018, 65, 223-230.	1.7	25
96	Synergetic Contributions in Phase Boundary Engineering to the Piezoelectricity of Potassium Sodium Niobate Lead-Free Piezoceramics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39455-39461.	4.0	24
97	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> , 2020, 67, 2085-2094.	1.7	24
98	Composition and electrical properties characterization of a 5- $\mu\text{m}$ -diameter PIN-PMN-PT single crystal by the modified Bridgman method. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156145.	2.8	24
99	Improve piezoelectricity and elasticity of Ce-doped $\text{BaTiO}_3$ nanofibers – towards energy harvesting application. <i>RSC Advances</i> , 2015, 5, 55269-55276.	1.7	23
100	Flexoelectric behavior in PIN-PMN-PT single crystals over a wide temperature range. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	23
101	Colossal dielectric behavior of Co-doped $\text{TiO}_2$ ceramics: A comparative study. <i>Journal of Alloys and Compounds</i> , 2019, 786, 377-384.	2.8	23
102	Temperature-insensitive PMN-PZ-PT ferroelectric ceramics for actuator applications. <i>Acta Materialia</i> , 2021, 211, 116871.	3.8	23
103	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> , 2011, 58, 274-280.	1.7	22
104	Large, thermally stabilized and fatigue-resistant piezoelectric strain response in textured relaxor- $\text{PbTiO}_3$ ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2008-2015.	2.7	22
105	The hydrostatic pressure dependence of the piezoelectric properties for the barium titanate and lead titanate crystals: Thermodynamic analysis. <i>Journal of Applied Physics</i> , 2011, 109, 114111.	1.1	21
106	Electrostriction coefficient of ferroelectric materials from ab initio computation. <i>AIP Advances</i> , 2016, 6, 065122.	0.6	21
107	$\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ – $\text{PbZrO}_3$ – $\text{PbTiO}_3$ ternary ceramics with temperature-insensitive and superior piezoelectric property. <i>Journal of the European Ceramic Society</i> , 2022, 42, 3848-3856.	2.8	21
108	Improved densification behavior and energy harvesting properties of low-temperature sintered (Ba, $\text{Tj}$ )– $\text{ETQ}_0\text{O}_0$ – $\text{rgBT}$ /Overlock 10 Tf 5	2.3	20

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109	Domain switching contribution to piezoelectric response in BaTiO <sub>3</sub> single crystals. Applied Physics Letters, 2008, 93, .	1.5	19
110	The effect of polar nanoregions on electromechanical properties of relaxor-PbTiO <sub>3</sub> crystals: Extracting from electric-field-induced polarization and strain behaviors. Applied Physics Letters, 2014, 105, 122904.	1.5	19
111	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. Journal of the American Ceramic Society, 2021, 104, 5127-5137.	1.9	19
112	Achieving both high electromechanical properties and temperature stability in textured PMN–PT ceramics. Journal of the American Ceramic Society, 2022, 105, 3322-3330.	1.9	18
113	Frequency dispersion of flexoelectricity in PMN-PT single crystal. AIP Advances, 2017, 7, .	0.6	17
114	The vitellogenin receptor has an essential role in vertical transmission of rice stripe virus during oogenesis in the small brown plant hopper. Pest Management Science, 2019, 75, 1370-1382.	1.7	17
115	High frequency needle ultrasonic transducers based on Mn doped piezoelectric single crystal. Journal of Alloys and Compounds, 2020, 832, 154951.	2.8	17
116	Transgenic rice overexpressing insect endogenous microRNA csu-260 is resistant to striped stem borer under field conditions. Plant Biotechnology Journal, 2021, 19, 421-423.	4.1	17
117	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. Acta Materialia, 2021, 210, 116853.	3.8	17
118	Inverse Domain Size Dependence of Piezoelectricity in Ferroelectric Crystals. Advanced Materials, 2021, 33, e2105071.	11.1	17
119	[111]-oriented PIN-PMN-PT crystals with ultrahigh dielectric permittivity and high frequency constant for high-frequency transducer applications. Journal of Applied Physics, 2016, 120, .	1.1	16
120	Large flexoelectric response in PMN-PT ceramics through composition design. Applied Physics Letters, 2019, 115, .	1.5	16
121	Expression and functional characterization of odorant-binding protein genes in the endoparasitic wasp <i>Cotesia vestalis</i> . Insect Science, 2021, 28, 1354-1368.	1.5	16
122	Enhanced Piezoelectric Properties and Improved Property Uniformity in Nd-Doped PMN–PT Relaxor Ferroelectric Single Crystals. Advanced Functional Materials, 2022, 32, .	7.8	16
123	Microstructure and elastic properties of BaTiO <sub>3</sub> nanofibers sintered in various atmospheres. Ceramics International, 2018, 44, 2426-2431.	2.3	15
124	Large-Scale Annotation and Evolution Analysis of MiRNA in Insects. Genome Biology and Evolution, 2021, 13, .	1.1	15
125	Tetragonal (Ba, Ca) (Zr, Ti)O <sub>3</sub> textured ceramics with enhanced piezoelectric response and superior temperature stability. Journal of Materiomics, 2022, 8, 366-374.	2.8	15
126	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. Journal of Alloys and Compounds, 2021, 881, 160666.	2.8	15

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127	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> , 2013, 15, 6292.	1.3	14
128	Piezoelectric property of relaxor- $\text{PbTiO}_3$ crystals under uniaxial transverse stress. <i>Applied Physics Letters</i> , 2013, 102, 172902.	1.5	14
129	Phase transition behavior and high electrostrictive strains in $\text{Bi}(\text{Li}_{0.5}\text{Nb}_{0.5})\text{O}_3$ -doped lead magnesium niobate-based solid solutions. <i>Journal of Alloys and Compounds</i> , 2019, 806, 206-214.	2.8	14
130	Low temperature sintering of $\text{Li}_2\text{CO}_3$ added $\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{-Pb}(\text{Zr,Ti})\text{O}_3$ ceramics with high piezoelectric properties. <i>Journal of Alloys and Compounds</i> , 2022, 892, 162132.	2.8	14
131	Applications of the rotating orientation XRD method to oriented materials. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 012001.	1.3	13
132	The effect of the hydrostatic pressure on the electromechanical properties of ferroelectric rhombohedral single crystals $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{-Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{-PbTiO}_3$ . <i>Applied Physics Letters</i> , 2011, 99, .	1.5	13
133	Flexoelectric fatigue in $(\text{K,Na,Li})(\text{Nb,Sb})\text{O}_3$ ceramics. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	13
134	Preparation and characterization of $\text{Pb}(\text{Lu}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-PbTiO}_3$ ternary ferroelectric ceramics with high phase transition temperatures. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5514-5523.	1.9	13
135	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> , 2019, 66, 1786-1792.	1.7	13
136	Cu-modified $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbZrO}_3\text{-PbTiO}_3$ textured ceramics with enhanced electromechanical properties and improved thermal stability. <i>Journal of the European Ceramic Society</i> , 2022, 42, 2743-2751.	2.8	13
137	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> , 2015, 629, 113-117.	2.8	12
138	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> , 2020, 40, 1236-1242.	2.8	12
139	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> , 2021, 68, 3241-3248.	1.7	12
140	High-Performance Curved Piezoelectric Single-Crystal Composites via 3D-Printing-Assisted Dice and Insert Technology for Underwater Acoustic Transducer Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8137-8145.	4.0	12
141	Hydrostatic Pressure Dependence of Dielectric, Elastic, and Piezoelectric Properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.33\text{PbTiO}_3$ Ceramic. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2946-2950.	1.9	11
142	Pyroelectric properties of rhombohedral and tetragonal $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{-PbTiO}_3$ crystals. <i>Journal of Applied Physics</i> , 2011, 110, 106101.	1.1	11
143	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> , 2012, 100, 192901.	1.5	11
144	A Dual-Mode 2D Matrix Array for Ultrasound Image-Guided Noninvasive Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3482-3490.	2.5	11

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145	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> , 2021, 9, .	2.2	11
146	High rhombohedral to tetragonal phase transition temperature and electromechanical response in $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-PbTiO}_3$ ferroelectric system near the morphotropic phase boundary. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2082-2090.	2.8	11
147	Interplay of defect dipole and flexoelectricity in linear dielectrics. <i>Scripta Materialia</i> , 2022, 210, 114427.	2.6	11
148	A novel flexible tactile sensor based on Ce-doped $\text{BaTiO}_3$ nanofibers. <i>Semiconductor Science and Technology</i> , 2017, 32, 074002.	1.0	10
149	The Roles of DNA Methyltransferases 1 (DNMT1) in Regulating Sexual Dimorphism in the Cotton Mealybug, <i>Phenacoccus solenopsis</i> . <i>Insects</i> , 2020, 11, 121.	1.0	10
150	High dielectric permittivity and ultralow dielectric loss in Nb-doped $\text{SrTiO}_3$ ceramics. <i>Ceramics International</i> , 2022, 48, 28438-28443.	2.3	10
151	Electric dipole sheets in $\text{BaTiO}_3$ . <i>Physical Review B</i> , 2015, 91, .		
152	Piezoelectric materials for cryogenic and high-temperature applications. , 2016, , 59-93.		9
153	Reversible Domain-Wall-Motion-Induced Low-Hysteretic Piezoelectric Response in Ferroelectrics. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15434-15440.	1.5	9
154	Large electric field induced strain of $\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ ceramics textured by Template Grain Growth. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6406-6413.	2.8	9
155	Piezoelectricity—An important property for ferroelectrics during last 100 years. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 217703.	0.2	9
156	Breaking symmetry for piezoelectricity. <i>Science</i> , 2022, 375, 618-619.	6.0	9
157	DC BIAS ELECTRIC FIELD DEPENDENT PIEZOELECTRICITY FOR [001] POLED $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ . <i>Journal of Advanced Dielectrics</i> , 2011, 01, 303-308.		
158	Effects of $\text{InNbO}_4$ Fabrication on Perovskite $\text{PIN-PMN-PT}$ . <i>Journal of the American Ceramic Society</i> , 2014, 97, 3110-3115.	1.9	8
159	Tetragonal-to-Tetragonal Phase Transition in Lead-Free $(\text{KxNa}_{1-x})\text{NbO}_3$ ( $x = 0.11$ and $0.17$ ) Crystals. <i>Crystals</i> , 2014, 4, 113-122.	1.0	8
160	Visualization of dielectric constant-electric field-temperature phase maps for imprinted relaxor ferroelectric thin films. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	8
161	Identification and Analysis of MicroRNAs Associated with Wing Polyphenism in the Brown Planthopper, <i>Nilaparvata lugens</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 9754.	1.8	8
162	Investigation of High-Power Properties of PIN-PMN-PT Relaxor-Based Ferroelectric Single Crystals and PZT-4 Piezoelectric Ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1641-1646.	1.7	8

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163	Dielectric behavior and phase transition in [111]-oriented PIN-PMN-PT single crystals under dc bias. <i>Journal of Advanced Dielectrics</i> , 2014, 04, 1450004.	1.5	7
164	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> , 2014, 116, 034105.	1.1	7
165	Fabrication and Properties of 5% Ce-Doped $\text{BaTiO}_3$ Nanofibers-Based Ceramic. <i>Journal of Electronic Materials</i> , 2018, 47, 1099-1106.	1.0	7
166	Analysis and Validation of Ultrasonic Probes in Liquid Level Monitoring Systems. <i>Sensors</i> , 2021, 21, 1320.	2.1	7
167	Chromosome-level genome assembly of an agricultural pest, the rice leafhopper <i>Cnaphalocrocis exigua</i> (Crambidae, Lepidoptera). <i>Molecular Ecology Resources</i> , 2022, 22, 307-318.	2.2	7
168	Chromosome-level genome assembly of the mirid predator <i>Cyrtorhinus lividipennis</i> Reuter (Hemiptera: Miridae), an important natural enemy in the rice ecosystem. <i>Molecular Ecology Resources</i> , 2022, 22, 1086-1099.	2.2	7
169	A bending-bending mode piezoelectric actuator based on PIN-PMN-PT crystal stacks. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 113052.	2.0	7
170	A robust, low-voltage driven millirobot based on transparent ferroelectric crystals. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
171	Mechanisms underpinning the ultrahigh piezoelectricity in Sm-doped $0.705\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.295\text{PbTiO}_3$ : Temperature-induced metastable local structure and field-induced polarization rotation. <i>Journal of Applied Physics</i> , 2019, 126, 075101.	1.1	6
172	Male mating and female postmating performances in cotton mealybug (Hemiptera: Pseudococcidae): effects of female density. <i>Journal of Economic Entomology</i> , 2019, 112, 1145-1150.	0.8	6
173	Enhanced energy harvesting performance of PIN-PMN-PT single crystal unimorph using alternating current poling. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	6
174	Evolution of transverse piezoelectric response of lead zirconate titanate ceramics under hydrostatic pressure. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 072001.	1.3	5
175	Dielectric properties of [001]-oriented $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ single crystal under hydrostatic pressure. <i>High Pressure Research</i> , 2010, 30, 273-279.	0.4	5
176	THE HYDROSTATIC PIEZOELECTRICITY OF RELAXOR- $\text{PbTiO}_3$ FERROELECTRIC CERAMICS AND CRYSTALS. <i>Journal of Advanced Dielectrics</i> , 2012, 02, 1250018.	1.5	5
177	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> , 2013, 46, 215304.	1.3	5
178	Electric field effect on short-range polar order in a relaxor ferroelectric system. <i>Physical Review B</i> , 2019, 100, .	1.1	5
179	Frequency Dependence of Coercive Fields of [001]- and [011]-Poled Rhombohedral $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 1430-1436.	1.7	5
180	Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	5

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181	Bi(Mg <sub>1/2</sub> Zr <sub>1/2</sub> )O <sub>3</sub> â€“PbZrO <sub>3</sub> â€“PbTiO <sub>3</sub> relaxor ferroelectric ceramics with large and temperature-insensitive electric field-induced strain response. Journal of Materials Chemistry C, 2021, 10, 337-345.	2.7	5
182	Bridgman growth and thermal analysis of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> â€“PbTiO <sub>3</sub> single crystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 170, 113-116.	1.7	4
183	Morphotropic phase boundary-like properties in a ferroelectric-paraelectric nanocomposite. Journal of Applied Physics, 2019, 126, .	1.1	4
184	Investigation on the Thermal Stability of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> Single Crystals. Ferroelectrics, 2010, 402, 187-192.	0.3	3
185	Influence of hydrostatic pressure on electric field induced phase transition of PbLa(Zr,Sn,Ti)O <sub>3</sub> ceramic. Materials Research Innovations, 2011, 15, 271-273.	1.0	3
186	High performance lead free ferroelectric <i>A</i> /TiO <sub>3</sub> /SnTiO <sub>3</sub> superlattices. Applied Physics Letters, 2013, 103, .	1.5	3
187	Analysis on the anisotropic electromechanical properties of lead magnoniobate titanate single crystal for ring type ultrasonic motors. AIP Advances, 2016, 6, 115017.	0.6	3
188	Full matrix electromechanical properties of textured Pb(In <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> ceramic. Journal of Applied Physics, 2022, 131, .	1.1	3
189	Modeling and Experiment of a Small Size Dual Mode Transducer for Underwater Acoustic Communication and Detection. Acta Acustica United With Acustica, 2018, 104, 947-955.	0.8	2
190	Evaluation of PMN-PT based crystals for various applications. , 2011, , .		1
191	Phase transitions and electromechanical properties for barium titanate and lead titanate ferroelectric crystals under one-dimensional shock wave compression. Journal of Applied Physics, 2012, 112, 114118.	1.1	1
192	Relaxor-PT single crystals for various applications. , 2012, , .		1
193	FastD: Fast detection of insecticide targetâ€“site mutations and overexpressed detoxification genes in insect populations from RNAâ€“Seq data. Ecology and Evolution, 2020, 10, 14346-14358.	0.8	1
194	Optimization Resource Management in EIS Environment. , 2006, , .		0
195	Variation of di-/piezoelectric properties of PIN-PMN-PT crystals near morphotropic phase boundary along the growth direction. , 2011, , .		0
196	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. Journal of Advanced Dielectrics, 2013, 03, 1350003.	1.5	0
197	Fabrication of ceramic fibers with excellent eletromechanical properties. Ceramics International, 2022, , .	2.3	0