

Shujun Zhang

List of Publications by Year in descending order

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all docs

596
docs citations

596
times ranked

12575
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-free piezoelectric ceramics: Alternatives for PZT?. Journal of Electroceramics, 2007, 19, 113-126.	0.8	1,266
2	Perovskite lead-free dielectrics for energy storage applications. Progress in Materials Science, 2019, 102, 72-108.	16.0	1,137
3	Homogeneous/Inhomogeneousâ€Structured Dielectrics and their Energyâ€Storage Performances. Advanced Materials, 2017, 29, 1601727.	11.1	909
4	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
5	Ultrahigh piezoelectricity in ferroelectric ceramics by design. Nature Materials, 2018, 17, 349-354.	13.3	874
6	Piezoelectric Materials for High Temperature Sensors. Journal of the American Ceramic Society, 2011, 94, 3153-3170.	1.9	666
7	High performance ferroelectric relaxor-PbTiO ₃ single crystals: Status and perspective. Journal of Applied Physics, 2012, 111, .	1.1	666
8	Ultrahighâ€energy density lead-free dielectric films via polymorphic nanodomain design. Science, 2019, 365, 578-582.	6.0	662
9	Advantages and challenges of relaxor-PbTiO ₃ ferroelectric crystals for electroacoustic transducers â€ A review. Progress in Materials Science, 2015, 68, 1-66.	16.0	607
10	Piezoelectric properties in perovskite 0.948(K _{0.5} Na _{0.5})NbO ₃ â€0.052LiSbO ₃ lead-free ceramics. Journal of Applied Physics, 2006, 100, 104108.	1.1	580
11	Electroceramics for High-Energy Density Capacitors: Current Status and Future Perspectives. Chemical Reviews, 2021, 121, 6124-6172.	23.0	579
12	Leadâ€Free Antiferroelectric Silver Niobate Tantalate with High Energy Storage Performance. Advanced Materials, 2017, 29, 1701824.	11.1	525
13	The origin of ultrahigh piezoelectricity in relaxor-ferroelectric solid solution crystals. Nature Communications, 2016, 7, 13807.	5.8	510
14	Giant piezoelectricity of Sm-doped Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. Science, 2019, 364, 264-268.	6.0	479
15	Ultrahigh Energyâ€Storage Density in NaNbO ₃ -Based Leadâ€Free Relaxor Antiferroelectric Ceramics with Nanoscale Domains. Advanced Functional Materials, 2019, 29, 1903877.	7.8	410
16	Perovskite (Na _{0.5} K _{0.5}) ^x (LiSb) ^x Nb _{1-x} O ₃ lead-free piezoceramics. Applied Physics Letters, 2006, 88, 212908.	1.5	395
17	Electrostrictive effect in ferroelectrics: An alternative approach to improve piezoelectricity. Applied Physics Reviews, 2014, 1, 011103.	5.5	395
18	Lead-free piezoelectric ceramics vs. PZT?. Journal of Electroceramics, 2007, 19, 251-257.	0.8	393

#	ARTICLE	IF	CITATIONS
19	Multilayer Lead-Free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency. <i>Advanced Materials</i> , 2018, 30, e1802155.	11.1	392
20	Ultrahigh Piezoelectric Properties in Textured (K,Na)NbO ₃ -Based Lead-Free Ceramics. <i>Advanced Materials</i> , 2018, 30, 1705171.	11.1	361
21	Transparent ferroelectric crystals with ultrahigh piezoelectricity. <i>Nature</i> , 2020, 577, 350-354.	13.7	360
22	Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. <i>Nature Materials</i> , 2020, 19, 999-1005.	13.3	347
23	Modified (K _{0.5} Na _{0.5})NbO ₃ based lead-free piezoelectrics with broad temperature usage range. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	307
24	Constructing phase boundary in AgNbO ₃ antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. <i>Nature Communications</i> , 2020, 11, 4824.	5.8	298
25	Silver Niobate Lead-Free Antiferroelectric Ceramics: Enhancing Energy Storage Density by B-Site Doping. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 819-826.	4.0	292
26	High-Temperature Piezoelectric Sensing. <i>Sensors</i> , 2014, 14, 144-169.	2.1	291
27	Enhanced energy storage properties of NaNbO ₃ modified Bi _{0.5} Na _{0.5} TiO ₃ based ceramics. <i>Journal of the European Ceramic Society</i> , 2015, 35, 545-553.	2.8	281
28	Flexoelectric nano-generator: Materials, structures and devices. <i>Nano Energy</i> , 2013, 2, 1079-1092.	8.2	265
29	Structure, ferroelectric properties, and magnetic properties of the La-doped bismuth ferrite. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	262
30	Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , 2018, 28, 1801504.	7.8	260
31	Lead-free AgNbO ₃ anti-ferroelectric ceramics with an enhanced energy storage performance using MnO ₂ modification. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8380-8384.	2.7	246
32	Multimodal Energy Harvesting System: Piezoelectric and Electromagnetic. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 625-632.	1.4	231
33	Ultrahigh Energy Storage Density in Antiferroelectric Ceramics with Field-Induced Multiphase Transitions. <i>Advanced Functional Materials</i> , 2019, 29, 1807321.	7.8	231
34	Piezoelectric materials for high power, high temperature applications. <i>Materials Letters</i> , 2005, 59, 3471-3475.	1.3	228
35	Characterization of Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ ferroelectric crystal with enhanced phase transition temperatures. <i>Journal of Applied Physics</i> , 2008, 104, 64106.	1.1	226
36	Losses in ferroelectric materials. <i>Materials Science and Engineering Reports</i> , 2015, 89, 1-48.	14.8	224

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37	Flexoelectricity in solids: Progress, challenges, and perspectives. Progress in Materials Science, 2019, 106, 100570.	16.0	223
38	Effect of grain size on the energy storage properties of (Ba _{0.4} Sr _{0.6})TiO ₃ paraelectric ceramics. Journal of the European Ceramic Society, 2014, 34, 1209-1217.	2.8	218
39	Enhanced antiferroelectric phase stability in La-doped AgNbO ₃ : perspectives from the microstructure to energy storage properties. Journal of Materials Chemistry A, 2019, 7, 2225-2232.	5.2	218
40	Composition and phase dependence of the intrinsic and extrinsic piezoelectric activity of domain engineered (1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ -xPbTiO ₃ crystals. Journal of Applied Physics, 2010, 108, .	1.1	202
41	Characterization of lead free (K _{0.5} Na _{0.5})NbO ₃ -LiSbO ₃ piezoceramic. Solid State Communications, 2007, 141, 675-679.	0.9	196
42	Additive Manufacturing of Piezoelectric Materials. Advanced Functional Materials, 2020, 30, 2005141.	7.8	195
43	Ultra-high energy storage performance with mitigated polarization saturation in lead-free relaxors. Journal of Materials Chemistry A, 2019, 7, 8573-8580.	5.2	191
44	High Curie temperature piezocrystals in the BiScO ₃ -PbTiO ₃ perovskite system. Applied Physics Letters, 2003, 83, 3150-3152.	1.5	189
45	Enhanced energy storage and fast discharge properties of BaTiO ₃ based ceramics modified by Bi(Mg _{1/2} Zr _{1/2})O ₃ . Journal of the European Ceramic Society, 2019, 39, 1103-1109.	2.8	187
46	Phase Diagram of the Perovskite System (1-x)BiScO ₃ -xPbTiO ₃ . Journal of Applied Physics, 2004, 96, 2828-2831.	1.1	183
47	Effect of MnO ₂ Addition on the Structure and Electrical Properties of Pb(Zn _{1/3} Nb _{2/3}) _{0.20} (Zr _{0.50} Ti _{0.50}) _{0.80} O ₃ Ceramics. Journal of the American Ceramic Society, 2004, 87, 847-850.	1.8	182
48	Manganese-modified BiScO ₃ -PbTiO ₃ piezoelectric ceramic for high-temperature shear mode sensor. Applied Physics Letters, 2005, 86, 262904.	1.5	170
49	Elastic, piezoelectric, and dielectric characterization of modified BiScO ₃ -PbTiO ₃ ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 2131-2139.	1.7	167
50	Characterization of high temperature piezoelectric crystals with an ordered langasite structure. Journal of Applied Physics, 2009, 105, .	1.1	162
51	High-entropy enhanced capacitive energy storage. Nature Materials, 2022, 21, 1074-1080.	13.3	161
52	Relaxor-PT single crystals: observations and developments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2138-2146.	1.7	158
53	Structure, Dielectric Properties and Temperature Stability of BaTiO ₃ -Bi(Mg _{1/2} Ti _{1/2})O ₃ Perovskite Solid Solutions. Journal of the American Ceramic Society, 2011, 94, 3412-3417.	1.9	150
54	Mitigation of thermal and fatigue behavior in K _{0.5} Na _{0.5} NbO ₃ -based lead free piezoceramics. Applied Physics Letters, 2008, 92, 152904-1529043.	1.5	144

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55	High Temperature, High Power Piezoelectric Composite Transducers. <i>Sensors</i> , 2014, 14, 14526-14552.	2.1	143
56	Piezoelectric properties in $(K_{0.5}Bi_{0.5})TiO_3-(Na_{0.5}Bi_{0.5})TiO_3-BaTiO_3$ lead-free ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 910-917.	1.7	140
57	High-Performance Piezoelectric Crystals, Ceramics, and Films. <i>Annual Review of Materials Research</i> , 2018, 48, 191-217.	4.3	137
58	Microstructure and dielectric properties of $(Nb_{x}In_{1-x})$ co-doped rutile TiO_2 ceramics. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	135
59	The Contributions of Polar Nanoregions to the Dielectric and Piezoelectric Responses in Domain-Engineered Relaxor $PbTiO_3$ Crystals. <i>Advanced Functional Materials</i> , 2017, 27, 1700310.	7.8	129
60	Electromechanical characterization of $Pb(In_{0.5}Nb_{0.5})O_3-Pb(Mg_{1/3}Nb_{2/3})O_3-PbTiO_3$ crystals as a function of crystallographic orientation and temperature. <i>Journal of Applied Physics</i> , 2009, 105, 104506.	1.1	128
61	High-Temperature Dielectrics in the $BiScO_3-BaTiO_3-(K_{1/2}Bi_{1/2})TiO_3$ Ternary System. <i>Journal of the American Ceramic Society</i> , 2009, 92, 679-682.	1.9	127
62	Evidences of grain boundary capacitance effect on the colossal dielectric permittivity in $(Nb + In)$ co-doped TiO_2 ceramics. <i>Scientific Reports</i> , 2015, 5, 8295.	1.6	126
63	Selective control of multiple ferroelectric switching pathways using a trailing flexoelectric field. <i>Nature Nanotechnology</i> , 2018, 13, 366-370.	15.6	124
64	Characterization of Mn-modified $Pb(Mg_{1/3}Nb_{2/3})O_3-PbZrO_3-PbTiO_3$ single crystals for high power broad bandwidth transducers. <i>Applied Physics Letters</i> , 2008, 93, 122908.	1.5	117
65	Characterization of Hard Piezoelectric Lead-Free Ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 1523-1527.	1.7	117
66	Thickness-Dependent Properties of Relaxor $PbTiO_3$ Ferroelectrics for Ultrasonic Transducers. <i>Advanced Functional Materials</i> , 2010, 20, 3154-3162.	7.8	115
67	Critical Property in Relaxor $PbTiO_3$ Single Crystals - Shear Piezoelectric Response. <i>Advanced Functional Materials</i> , 2011, 21, 2118-2128.	7.8	114
68	Domain Configuration and Thermal Stability of $(K_{0.48}Na_{0.52})(Nb_{0.96}Sb_{0.04})O_3-Bi_{0.50}(Na_{0.8}$ Piezoceramics with High d_{33} Coefficient. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7257-7265.	4.0	113
69	$(Bi_{0.51}Na_{0.47})TiO_3$ based lead free ceramics with high energy density and efficiency. <i>Journal of Materiomics</i> , 2019, 5, 385-393.	2.8	113
70	Local Structure Heterogeneity in Sm-Doped $AgNbO_3$ for Improved Energy-Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6097-6104.	4.0	110
71	Electromechanical properties of A-site (LiCe)-modified sodium bismuth titanate $(Na_{0.5}Bi_{4.5}Ti_4O_{15})$ piezoelectric ceramics at elevated temperature. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	109
72	Phase diagram and properties of $Pb(In_{1/2}Nb_{1/2})O_3-Pb(Mg_{1/3}Nb_{2/3})O_3-PbTiO_3$ polycrystalline ceramics. <i>Journal of the European Ceramic Society</i> , 2012, 32, 433-439.	2.8	109

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73	Flexible energy harvesting polymer composites based on biofibril-templated 3-dimensional interconnected piezoceramics. <i>Nano Energy</i> , 2018, 50, 35-42.	8.2	107
74	Bi ³⁺ -modified SrTiO ₃ -based ceramics for high-temperature energy storage applications. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1722-1731.	1.9	105
75	Recent Developments in Piezoelectric Crystals. <i>Journal of the Korean Ceramic Society</i> , 2018, 55, 419-439.	1.1	105
76	Bioinspired elastic piezoelectric composites for high-performance mechanical energy harvesting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14546-14552.	5.2	104
77	Antiferroelectric-ferroelectric phase transition in lead-free AgNbO ₃ ceramics for energy storage applications. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5443-5450.	1.9	103
78	Understanding, Predicting, and Designing Ferroelectric Domain Structures and Switching Guided by the Phase-Field Method. <i>Annual Review of Materials Research</i> , 2019, 49, 127-152.	4.3	101
79	Atomic-resolution electron microscopy of nanoscale local structure in lead-based relaxor ferroelectrics. <i>Nature Materials</i> , 2021, 20, 62-67.	13.3	100
80	Complete set of material constants of Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystal with morphotropic phase boundary composition. <i>Journal of Applied Physics</i> , 2009, 106, 74112.	1.1	99
81	Ultrahigh piezoelectricity in lead-free piezoceramics by synergistic design. <i>Nano Energy</i> , 2020, 76, 104944.	8.2	99
82	Elastic, dielectric, and piezoelectric constants of Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystal poled along [011]c. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	97
83	High-Performance Sm-Doped Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbZrO ₃ -PbTiO ₃ -Based Piezoceramics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43359-43367.	4.0	96
84	Piezoelectric activity in Perovskite ferroelectric crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 18-32.	1.7	94
85	Controlled manipulation of oxygen vacancies using nanoscale flexoelectricity. <i>Nature Communications</i> , 2017, 8, 615.	5.8	93
86	Origin of large electric-field-induced strain in pseudo-cubic BiFeO ₃ -BaTiO ₃ ceramics. <i>Acta Materialia</i> , 2020, 197, 1-9.	3.8	93
87	Characterization of piezoelectric single crystal YCa ₄ O(BO ₃) ₃ for high temperature applications. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	92
88	Origin of the "Waterfall" Effect in Phonon Dispersion of Relaxor Perovskites. <i>Physical Review Letters</i> , 2003, 91, 107602.	2.9	90
89	Electrostrictive effect in Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ crystals. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	90
90	Improved Energy Storage Properties Accompanied by Enhanced Interface Polarization in Annealed Microwave-Sintered BST. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3212-3222.	1.9	90

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91	Crystal growth and characterization of new high Curie temperature ($1\hat{x}$)BiScO ₃ â€xPbTiO ₃ single crystals. Journal of Crystal Growth, 2002, 236, 210-216.	0.7	89
92	Circumferential-mode, quasi-ring-type, magnetoelectric laminate compositeâ€a highly sensitive electric current andâ•or vortex magnetic field sensor. Applied Physics Letters, 2005, 86, 182506.	1.5	88
93	Piezoelectric accelerometers for ultrahigh temperature application. Applied Physics Letters, 2010, 96, .	1.5	88
94	Electromechanical properties of Pb(In _{1/2} Nb _{1/2})O ₃ â€Pb(Mg _{1/3} Nb _{2/3})O ₃ â€PbTiO ₃ single crystals. Journal of Applied Physics, 2011, 109, 14108.	1.1	87
95	Investigation of dielectric and piezoelectric properties in aliovalent Eu ³⁺ â€modified Pb(Mg _{1/3} Nb _{2/3})O ₃ â€PbTiO ₃ ceramics. Journal of the American Ceramic Society, 2019, 102, 7428-7435.	1.9	85
96	Piezoelectric and Ferroelectric Properties of Liâ€Doped (Bi _{0.5} Na _{0.5})TiO ₃ â€(Bi _{0.5} K _{0.5})TiO ₃ â€BaTiO ₃ Leadâ€Free Piezoelectric Ceramics. Journal of the American Ceramic Society, 2010, 93, 1108-1113.	1.9	84
97	Giant electrocaloric effect in BaZr _{0.2} Ti _{0.8} O ₃ thick film. Applied Physics Letters, 2014, 105, .	1.5	84
98	Elastic, Piezoelectric, and Dielectric Properties of 0.71Pb(Mg _{1/3} Nb _{2/3})O ₃ â€0.29PbTiO ₃ Crystals Obtained by Solidâ€State Crystal Growth. Journal of the American Ceramic Society, 2008, 91, 683-686.	1.9	83
99	Electromechanical properties of calcium bismuth niobate (CaBi ₂ Nb ₂ O ₉) ceramics at elevated temperature. Materials Chemistry and Physics, 2009, 118, 21-24.	2.0	83
100	Excellent thermal stability and aging behaviors in BiFeO ₃ â€BaTiO ₃ piezoelectric ceramics with rhombohedral phase. Journal of the American Ceramic Society, 2020, 103, 374-381.	1.9	83
101	Dielectric and Piezoelectric Properties of Niobium-modified BiInO ₃ â€PbTiO ₃ Perovskite Ceramics with High Curie Temperatures. Journal of Materials Research, 2005, 20, 2067-2071.	1.2	82
102	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO ₃ ceramics. Nature Communications, 2021, 12, 881.	5.8	82
103	Composition and Structure Optimized BiFeO ₃ â€SrTiO ₃ Leadâ€Free Ceramics with Ultrahigh Energy Storage Performance. Small, 2022, 18, e2106515.	5.2	82
104	Dielectric and Piezoelectric Properties of High Curie Temperature Single Crystals in the Pb(Yb _{1/2} Nb _{1/2})O ₃ â€xPbTiO ₃ Solid Solution Series. Japanese Journal of Applied Physics, 2002, 41, 722-726.	0.8	81
105	Unveiling the ferrielectric nature of PbZrO ₃ -based antiferroelectric materials. Nature Communications, 2020, 11, 3809.	5.8	81
106	Sr x Ba 1 âˆ x Nb 2 O 6 âˆ Î Ferroelectric-thermoelectrics: Crystal anisotropy, conduction mechanism, and power factor. Applied Physics Letters, 2010, 96, .	1.5	80
107	Sintering Effect on Microstructure and Properties of (<sc><sc>K,Na</sc></sc><sc><sc>NbO</sc></sc>) Ceramics. Journal of the American Ceramic Society, 2011, 94, 3659-3665.	1.9	79
108	Crystal growth and electrical properties of Pb(Yb _{1/2} Nb _{1/2})O ₃ â€PbTiO ₃ perovskite single crystals. Journal of Crystal Growth, 2002, 234, 415-420.	0.7	78

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109	Enhanced electrical polarization and ferromagnetic moment in a multiferroic BiFeO ₃ ·Bi _{3.25} Sm _{0.75} Ti _{2.98} V _{0.02} O ₁₂ double-layered thin film. Applied Physics Letters, 2006, 88, 132909.	1.5	78
110	Recent developments on high Curie temperature PIN ⁺ PMN ⁻ PT ferroelectric crystals. Journal of Crystal Growth, 2011, 318, 846-850.	0.7	78
111	Dielectric/piezoelectric properties and temperature dependence of domain structure evolution in lead free single crystal. Solid State Communications, 2009, 149, 1646-1649.	0.9	77
112	Piezoelectric and electromechanical properties of ultrahigh temperature CaBi ₂ Nb ₂ O ₉ ceramics. Physica Status Solidi - Rapid Research Letters, 2009, 3, 49-51.	1.2	77
113	Lead-free textured piezoceramics using tape casting: A review. Journal of Materiomics, 2018, 4, 277-303.	2.8	77
114	Polarization alignment, phase transition, and piezoelectricity development in polycrystalline (0.5Ba _{1-x} Ca _x) _{0.5} (Zr _{1-x} Hf _x) _{0.5} Ti _{0.5} O ₃ ferroelectric ceramics. Physical Review B, 2014, 90, .	0.7	76
115	(K, Na, Li)(Nb, Ta)O ₃ :Mn Lead-Free Single Crystal with High Piezoelectric Properties. Journal of the American Ceramic Society, 2015, 98, 1829-1835.	1.9	75
116	Flexible piezoelectric energy harvester/sensor with high voltage output over wide temperature range. Nano Energy, 2019, 61, 337-345.	8.2	75
117	High temperature properties of manganese modified CaBi ₄ Ti ₄ O ₁₅ ferroelectric ceramics. Solid State Communications, 2006, 140, 154-158.	0.9	74
118	Enhanced Energy Storage Performance of Sodium Niobate-Based Relaxor Dielectrics by a Ramp-to-Spike Sintering Profile. ACS Applied Materials & Interfaces, 2020, 12, 32834-32841.	4.0	74
119	Toroidal polar topology in strained ferroelectric polymer. Science, 2021, 371, 1050-1056.	6.0	74
120	Compositionally Graded KNN-Based Multilayer Composite with Excellent Piezoelectric Temperature Stability. Advanced Materials, 2022, 34, e2109175.	11.1	74
121	Growth and characterization of Fe-doped Pb(Zn _{1/3} Nb _{2/3})O ₃ ·PbTiO ₃ single crystals. Journal of Applied Physics, 2003, 93, 9257-9262.	1.1	73
122	Scaling effect of flexoelectric (Ba,Sr)TiO ₃ microcantilevers. Physica Status Solidi - Rapid Research Letters, 2011, 5, 350-352.	1.2	73
123	Structure and Dielectric Properties of (Ba _{1-x} Ca _x) _{0.5} (Zr _{1-x} Hf _x) _{0.5} Ti _{0.5} O ₃ Perovskite Solid Solutions. Journal of the American Ceramic Society, 2014, 97, 1797-1801.	1.9	73
124	Investigation of Ca ₃ TaGa ₃ Si ₂ O ₁₄ piezoelectric crystals for high temperature sensors. Journal of Applied Physics, 2011, 109, .	1.1	72
125	Flexoelectric strain gradient detection using Ba _{0.64} Sr _{0.36} TiO ₃ for sensing. Applied Physics Letters, 2012, 101, .	1.5	72
126	Characterization of perovskite piezoelectric single crystals of 0.43BiScO ₃ ·0.57PbTiO ₃ with high Curie temperature. Journal of Applied Physics, 2004, 95, 4291-4295.	1.1	71

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127	Influence of MnO ₂ Doping on the Dielectric and Piezoelectric Properties and the Domain Structure in (K _{0.5} Na _{0.5})NbO ₃ Single Crystals. <i>Journal of the American Ceramic Society</i> , 2010, 93, 941-944.	1.9	71
128	Investigation of Ternary System $\langle \text{PbHfO} \rangle \langle \text{PbTiO} \rangle \langle \text{PbZrO} \rangle$ with Morphotropic Phase Boundary Compositions. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3220-3228.	1.9	71
129	Relaxor-PbTiO ₃ single crystals for various applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 1572-1580.	1.7	71
130	New Quaternary Ceramics: Morphotropic Phase Boundary Design and Electrical Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15506-15517.	4.0	71
131	Microscopic Insight into Electric Fatigue Resistance and Thermally Stable Piezoelectric Properties of (K,Na)NbO ₃ -Based Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28772-28779.	4.0	71
132	Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range. <i>Nature Communications</i> , 2021, 12, 1414.	5.8	71
133	Crystallographic dependence of loss in domain engineered relaxor-PT single crystals. <i>Applied Physics Letters</i> , 2009, 94, 162906.	1.5	70
134	Atomic-scale origin of ultrahigh piezoelectricity in samarium-doped PMN-PT ceramics. <i>Physical Review B</i> , 2020, 101, .	1.1	69
135	NaNbO ₃ -CaTiO ₃ lead-free relaxor antiferroelectric ceramics featuring giant energy density, high energy efficiency and power density. <i>Chemical Engineering Journal</i> , 2022, 429, 132534.	6.6	69
136	Orientation dependence of piezoelectric properties and mechanical quality factors of 0.27Pb(In _{1/2} Nb _{1/2})O ₃ -0.46Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.27PbTiO ₃ :Mn single crystals. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	68
137	Ferroelectrics: Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics (<i>Adv. Funct. Mater.</i> 37/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870262.	7.8	67
138	High-performance textile piezoelectric pressure sensor with novel structural hierarchy based on ZnO nanorods array for wearable application. <i>Nano Research</i> , 2021, 14, 3969-3976.	5.8	66
139	Domain size engineering in tetragonal Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ crystals. <i>Journal of Applied Physics</i> , 2011, 110, 84110-841106.	1.1	65
140	Design, fabrication and characterization of high temperature piezoelectric vibration sensor using YCOB crystals. <i>Sensors and Actuators A: Physical</i> , 2012, 178, 40-48.	2.0	65
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