

Shujun Zhang

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557
papers

26,331
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76
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142
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596
ext. papers

32,092
ext. citations

6
avg, IF

7.6
L-index

#	Paper	IF	Citations
557	Lead-free piezoelectric ceramics: Alternatives for PZT?. <i>Journal of Electroceramics</i> , 2007 , 19, 113-126	1.5	1052
556	Decoding the Fingerprint of Ferroelectric Loops: Comprehension of the Material Properties and Structures. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1-27	3.8	678
555	Homogeneous/Inhomogeneous-Structured Dielectrics and their Energy-Storage Performances. <i>Advanced Materials</i> , 2017 , 29, 1601727	24	615
554	Perovskite lead-free dielectrics for energy storage applications. <i>Progress in Materials Science</i> , 2019 , 102, 72-108	42.2	558
553	High performance ferroelectric relaxor-PbTiO ₃ single crystals: Status and perspective. <i>Journal of Applied Physics</i> , 2012 , 111, 031301	2.5	551
552	Piezoelectric properties in perovskite 0.948(K _{0.5} Na _{0.5})NbO ₃ 0.052LiSbO ₃ lead-free ceramics. <i>Journal of Applied Physics</i> , 2006 , 100, 104108	2.5	525
551	Ultrahigh piezoelectricity in ferroelectric ceramics by design. <i>Nature Materials</i> , 2018 , 17, 349-354	27	513
550	Piezoelectric Materials for High Temperature Sensors. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3153-3170	3.8	487
549	Advantages and Challenges of Relaxor-PbTiO ₃ Ferroelectric Crystals for Electroacoustic Transducers- A Review. <i>Progress in Materials Science</i> , 2015 , 68, 1-66	42.2	404
548	Perovskite (Na _{0.5} K _{0.5}) _{1-x} (LiSb) _x Nb _{1-x} O ₃ lead-free piezoceramics. <i>Applied Physics Letters</i> , 2006 , 88, 212908	3.4	365
547	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , 2019 , 365, 578-582	33.3	353
546	Lead-Free Antiferroelectric Silver Niobate Tantalate with High Energy Storage Performance. <i>Advanced Materials</i> , 2017 , 29, 1701824	24	350
545	Lead-free piezoelectric ceramics vs. PZT?. <i>Journal of Electroceramics</i> , 2007 , 19, 251-257	1.5	338
544	The origin of ultrahigh piezoelectricity in relaxor-ferroelectric solid solution crystals. <i>Nature Communications</i> , 2016 , 7, 13807	17.4	332
543	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, 132913	3.4	288
542	Electrostrictive effect in ferroelectrics: An alternative approach to improve piezoelectricity. <i>Applied Physics Reviews</i> , 2014 , 1, 011103	17.3	276
541	Multilayer Lead-Free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency. <i>Advanced Materials</i> , 2018 , 30, e1802155	24	263

540	Ultrahigh Piezoelectric Properties in Textured (K,Na)NbO ₃ -Based Lead-Free Ceramics. <i>Advanced Materials</i> , 2018 , 30, 1705171	24	254
539	Giant piezoelectricity of Sm-doped Pb(MgNb)O ₃ -PbTiO ₃ single crystals. <i>Science</i> , 2019 , 364, 264-268	33.3	242
538	Structure, ferroelectric properties, and magnetic properties of the La-doped bismuth ferrite. <i>Journal of Applied Physics</i> , 2008 , 103, 07E507	2.5	229
537	High-temperature piezoelectric sensing. <i>Sensors</i> , 2013 , 14, 144-69	3.8	210
536	Characterization of Pb(In ₁₂ Nb ₁₂)O ₃ -Pb(Mg ₁₃ Nb ₂₃)O ₃ -PbTiO ₃ ferroelectric crystal with enhanced phase transition temperatures. <i>Journal of Applied Physics</i> , 2008 , 104, 64106	2.5	210
535	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	6	209
534	Ultrahigh Energy-Storage Density in NaNbO ₃ -Based Lead-Free Relaxor Antiferroelectric Ceramics with Nanoscale Domains. <i>Advanced Functional Materials</i> , 2019 , 29, 1903877	15.6	204
533	Flexoelectric nano-generator: Materials, structures and devices. <i>Nano Energy</i> , 2013 , 2, 1079-1092	17.1	198
532	Silver Niobate Lead-Free Antiferroelectric Ceramics: Enhancing Energy Storage Density by B-Site Doping. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 819-826	9.5	195
531	Multimodal Energy Harvesting System: Piezoelectric and Electromagnetic. <i>Journal of Intelligent Material Systems and Structures</i> , 2009 , 20, 625-632	2.3	185
530	Piezoelectric materials for high power, high temperature applications. <i>Materials Letters</i> , 2005 , 59, 3471-3475	3.5	183
529	Transparent ferroelectric crystals with ultrahigh piezoelectricity. <i>Nature</i> , 2020 , 577, 350-354	50.4	181
528	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> , 2010 , 108,	2.5	178
527	Effect of grain size on the energy storage properties of (Ba _{0.4} Sr _{0.6})TiO ₃ paraelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1209-1217	6	176
526	Characterization of lead free (K _{0.5} Na _{0.5})NbO ₃ ∥SbO ₃ piezoceramic. <i>Solid State Communications</i> , 2007 , 141, 675-679	1.6	175
525	High Curie temperature piezocrystals in the BiScO ₃ -PbTiO ₃ perovskite system. <i>Applied Physics Letters</i> , 2003 , 83, 3150-3152	3.4	170
524	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. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 847-850	3.8	164
523	Phase Diagram of the Perovskite System (1-x)BiScO ₃ -xPbTiO ₃ . <i>Journal of Applied Physics</i> , 2004 , 96, 2828-2831	2.3	162

522	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	7.1	161
521	Losses in Ferroelectric Materials. <i>Materials Science and Engineering Reports</i> , 2015 , 89, 1-48	30.9	159
520	Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , 2018 , 28, 1801504	15.6	149
519	Ultrahigh Energy-Storage Density in Antiferroelectric Ceramics with Field-Induced Multiphase Transitions. <i>Advanced Functional Materials</i> , 2019 , 29, 1807321	15.6	149
518	Elastic, piezoelectric, and dielectric characterization of modified BiScO ₃ -PbTiO ₃ ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 2131-9	3.2	145
517	Manganese-modified BiScO ₃ BbTiO ₃ piezoelectric ceramic for high-temperature shear mode sensor. <i>Applied Physics Letters</i> , 2005 , 86, 262904	3.4	138
516	Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. <i>Nature Materials</i> , 2020 , 19, 999-1005	27	136
515	Mitigation of thermal and fatigue behavior in K(0.5)Na(0.5)NbO(3)-based lead free piezoceramics. <i>Applied Physics Letters</i> , 2008 , 92, 152904-1529043	3.4	132
514	Piezoelectric properties in (K0.5Bi0.5)TiO ₃ -(Na0.5Bi0.5)TiO ₃ -BaTiO ₃ lead-free ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 910-7	3.2	131
513	Relaxor-PT single crystals: observations and developments. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 2138-46	3.2	130
512	Electroceramics for High-Energy Density Capacitors: Current Status and Future Perspectives. <i>Chemical Reviews</i> , 2021 , 121, 6124-6172	68.1	129
511	Characterization of high temperature piezoelectric crystals with an ordered langasite structure. <i>Journal of Applied Physics</i> , 2009 , 105, 114107	2.5	126
510	Flexoelectricity in solids: Progress, challenges, and perspectives. <i>Progress in Materials Science</i> , 2019 , 106, 100570	42.2	123
509	Structure, Dielectric Properties and Temperature Stability of BaTiO ₃ Bi(Mg _{1/2} Ti _{1/2})O ₃ Perovskite Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3412-3417	3.8	123
508	Enhanced antiferroelectric phase stability in La-doped AgNbO ₃ : perspectives from the microstructure to energy storage properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2225-2232	13	122
507	Electromechanical characterization of [Formula: see text] crystals as a function of crystallographic orientation and temperature. <i>Journal of Applied Physics</i> , 2009 , 105, 104506	2.5	118
506	Microstructure and dielectric properties of (Nb + In) co-doped rutile TiO ₂ ceramics. <i>Journal of Applied Physics</i> , 2014 , 116, 074105	2.5	117
505	Ultra-high energy storage performance with mitigated polarization saturation in lead-free relaxors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8573-8580	13	115

504	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	3.8	115
503	Enhanced energy storage and fast discharge properties of BaTiO ₃ based ceramics modified by Bi(Mg _{1/2} Zr _{1/2})O ₃ . <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1103-1109	6	111
502	Critical Property in Relaxor-PbTiO ₃ Single Crystals --- Shear Piezoelectric Response. <i>Advanced Functional Materials</i> , 2011 , 21, 2118-2128	15.6	102
501	Characterization of hard piezoelectric lead-free ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1523-7	3.2	102
500	Characterization of Mn-modified Pb(Mg ₁₃ Nb ₂₃)O ₃ -PbZrO ₃ -PbTiO ₃ single crystals for high power broad bandwidth transducers. <i>Applied Physics Letters</i> , 2008 , 93, 122908	3.4	102
499	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	4.9	100
498	High temperature, high power piezoelectric composite transducers. <i>Sensors</i> , 2014 , 14, 14526-52	3.8	99
497	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	15.6	97
496	Thickness Dependent Properties of Relaxor-PbTiO ₃ Ferroelectrics for Ultrasonic Transducers. <i>Advanced Functional Materials</i> , 2010 , 20, 3154-3162	15.6	97
495	Constructing phase boundary in AgNbO ₃ antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. <i>Nature Communications</i> , 2020 , 11, 4824	17.4	97
494	Electromechanical properties of A-site (LiCe)-modified sodium bismuth titanate (Na _{0.5} Bi _{4.5} Ti ₄ O ₁₅) piezoelectric ceramics at elevated temperature. <i>Journal of Applied Physics</i> , 2009 , 105, 094110	2.5	96
493	Domain Configuration and Thermal Stability of (K _{0.48} Na _{0.52})(Nb _{0.96} Sb _{0.04})O ₃ -Bi _{0.50} (Na _{0.82} K _{0.18}) _{0.50} ZrO ₃ Piezoceramics with High d ₃₃ Coefficient. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7257-65	9.5	90
492	Complete set of material constants of Pb(In ₁₂ Nb ₁₂)O ₃ -Pb(Mg ₁₃ Nb ₂₃)O ₃ -PbTiO ₃ single crystal with morphotropic phase boundary composition. <i>Journal of Applied Physics</i> , 2009 , 106, 74112	2.5	87
491	Elastic, dielectric, and piezoelectric constants of Pb(In ₁₂ Nb ₁₂)O ₃ -Pb(Mg ₁₃ Nb ₂₃)O ₃ -PbTiO ₃ single crystal poled along [011](c). <i>Applied Physics Letters</i> , 2010 , 97,	3.4	84
490	Additive Manufacturing of Piezoelectric Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 2005141	15.6	84
489	Origin of the "waterfall" effect in phonon dispersion of relaxor perovskites. <i>Physical Review Letters</i> , 2003 , 91, 107602	7.4	83
488	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	6	82
487	Crystal growth and characterization of new high Curie temperature (1-x)BiScO ₃ xPbTiO ₃ single crystals. <i>Journal of Crystal Growth</i> , 2002 , 236, 210-216	1.6	82

486	Circumferential-mode, quasi-ring-type, magnetoelectric laminate composite—highly sensitive electric current and/or vortex magnetic field sensor. <i>Applied Physics Letters</i> , 2005 , 86, 182506	3.4	82
485	Electrostrictive effect in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-xPbTiO}_3$ crystals. <i>Applied Physics Letters</i> , 2013 , 102, 152910	3.4	79
484	Selective control of multiple ferroelectric switching pathways using a trailing flexoelectric field. <i>Nature Nanotechnology</i> , 2018 , 13, 366-370	28.7	77
483	High-Performance Piezoelectric Crystals, Ceramics, and Films. <i>Annual Review of Materials Research</i> , 2018 , 48, 191-217	12.8	76
482	Piezoelectric and Ferroelectric Properties of Li-Doped $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3\text{-}(\text{Bi}_{0.5}\text{K}_{0.5})\text{TiO}_3\text{-BaTiO}_3$ Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1108-1113	3.8	76
481	Characterization of piezoelectric single crystal $\text{YCa}_4\text{O}(\text{BO}_3)_3$ for high temperature applications. <i>Applied Physics Letters</i> , 2008 , 92, 202905	3.4	74
480	Giant electrocaloric effect in $\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ thick film. <i>Applied Physics Letters</i> , 2014 , 105, 152908	3.4	73
479	Dielectric and Piezoelectric Properties of High Curie Temperature Single Crystals in the $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-PbTiO}_3$ Solid Solution Series. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 722-726	1.4	73
478	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	3.8	71
477	Electromechanical 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 crystals. <i>Journal of Applied Physics</i> , 2011 , 109, 14108	2.5	71
476	Sintering Effect on Microstructure and Properties of $(\text{K},\text{Na})\text{NbO}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3659-3665	3.8	71
475	Elastic, Piezoelectric, and Dielectric Properties of $0.71\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.29\text{PbTiO}_3$ Crystals Obtained by Solid-State Crystal Growth. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 683-686	3.8	71
474	Crystal growth and electrical properties of $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-PbTiO}_3$ perovskite single crystals. <i>Journal of Crystal Growth</i> , 2002 , 234, 415-420	1.6	71
473	Controlled manipulation of oxygen vacancies using nanoscale flexoelectricity. <i>Nature Communications</i> , 2017 , 8, 615	17.4	70
472	$\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_2\text{O}_6$ Ferroelectric-thermoelectrics: Crystal anisotropy, conduction mechanism, and power factor. <i>Applied Physics Letters</i> , 2010 , 96, 031910	3.4	69
471	Electromechanical properties of calcium bismuth niobate ($\text{CaBi}_2\text{Nb}_2\text{O}_9$) ceramics at elevated temperature. <i>Materials Chemistry and Physics</i> , 2009 , 118, 21-24	4.4	68
470	Dielectric and piezoelectric properties of niobium-modified $\text{BiInO}_3\text{-PbTiO}_3$ perovskite ceramics with high Curie temperatures. <i>Journal of Materials Research</i> , 2005 , 20, 2067-2071	2.5	68
469	Dielectric/piezoelectric properties and temperature dependence of domain structure evolution in lead free single crystal. <i>Solid State Communications</i> , 2009 , 149, 1646-1649	1.6	67

468	Piezoelectric and electromechanical properties of ultrahigh temperature CaBi ₂ Nb ₂ O ₉ ceramics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 49-51	2.5	67
467	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. <i>Applied Physics Letters</i> , 2006 , 88, 132909	3.4	67
466	Flexible energy harvesting polymer composites based on biofibril-templated 3-dimensional interconnected piezoceramics. <i>Nano Energy</i> , 2018 , 50, 35-42	17.1	66
465	Growth and characterization of Fe-doped Pb(Zn _{1/3} Nb _{2/3})O ₃ BbTiO ₃ single crystals. <i>Journal of Applied Physics</i> , 2003 , 93, 9257-9262	2.5	66
464	Polarization alignment, phase transition, and piezoelectricity development in polycrystalline 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ 0.5(Ba _{0.7} Ca _{0.3})TiO ₃ . <i>Physical Review B</i> , 2014 , 90,	3.3	65
463	(K, Na, Li)(Nb, Ta)O:Mn lead-free single crystal with high piezoelectric properties. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1829-1835	3.8	65
462	Characterization of perovskite piezoelectric single crystals of 0.43BiScO ₃ 0.57PbTiO ₃ with high Curie temperature. <i>Journal of Applied Physics</i> , 2004 , 95, 4291-4295	2.5	65
461	Bioinspired elastic piezoelectric composites for high-performance mechanical energy harvesting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14546-14552	13	65
460	Crystallographic dependence of loss in domain engineered relaxor-PT single crystals. <i>Applied Physics Letters</i> , 2009 , 94, 162906	3.4	64
459	High temperature properties of manganese modified CaBi ₄ Ti ₄ O ₁₅ ferroelectric ceramics. <i>Solid State Communications</i> , 2006 , 140, 154-158	1.6	64
458	Scaling effect of flexoelectric (Ba,Sr)TiO ₃ microcantilevers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 350-352	2.5	63
457	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	3.8	62
456	Piezoelectric accelerometers for ultrahigh temperature application. <i>Applied Physics Letters</i> , 2010 , 96, 013506	3.4	62
455	Recent Developments in Piezoelectric Crystals. <i>Journal of the Korean Ceramic Society</i> , 2018 , 55, 419-439	2.2	62
454	Piezoelectric activity in Perovskite ferroelectric crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 18-32	3.2	61
453	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	12.8	60
452	(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	6.7	60
451	Structure and Dielectric Properties of BaTiO ₃ BiYO ₃ Perovskite Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1797-1801	3.8	60

450	Flexoelectric strain gradient detection using Ba _{0.64} Sr _{0.36} TiO ₃ for sensing. <i>Applied Physics Letters</i> , 2012 , 101, 252903	3.4	60
449	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, 104105	2.5	59
448	Investigation of Ternary System PbHfO ₃ PbTiO ₃ Pb(Mg _{1/3} Nb _{2/3})O ₃ with Morphotropic Phase Boundary Compositions. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3220-3228	3.8	58
447	Relaxor-PbTiO ₃ single crystals for various applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 1572-80	3.2	57
446	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	2.5	57
445	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	9.5	56
444	Recent Developments on High Curie Temperature PIN-PMN-PT Ferroelectric Crystals. <i>Journal of Crystal Growth</i> , 2011 , 318, 846-850	1.6	56
443	High temperature (NaBi) _{0.48} Bi _{0.04} Nb ₂ O ₉ -based piezoelectric ceramics. <i>Applied Physics Letters</i> , 2006 , 89, 012907	3.4	56
442	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	3.8	56
441	Piezoelectric activity of relaxor-PbTiO ₃ based single crystals and polycrystalline ceramics at cryogenic temperatures: Intrinsic and extrinsic contributions. <i>Applied Physics Letters</i> , 2010 , 96, 192903	3.4	55
440	Field-induced piezoelectric response in Pb(Mg _{1/3} Nb _{2/3})O ₃ PbTiO ₃ single crystals. <i>Solid State Communications</i> , 2006 , 137, 16-20	1.6	55
439	Multiple broadband magnetoelectric response in thickness-controlled Ni/[011] Pb(Mg _{1/3} Nb _{2/3})O ₃ -Pb(Zr,Ti)O ₃ single crystal/Ni laminates. <i>Applied Physics Letters</i> , 2013 , 103, 052907	3.4	54
438	Gadolinium calcium oxyborate piezoelectric single crystals for ultrahigh temperature (>1000 °C) applications. <i>Journal of Applied Physics</i> , 2008 , 104, 084103	2.5	54
437	Microstructural origin for the piezoelectricity evolution in (K _{0.5} Na _{0.5})NbO ₃ -based lead-free ceramics. <i>Journal of Applied Physics</i> , 2013 , 114, 154102	2.5	53
436	Characterization of Neodymium Calcium Oxyborate Piezoelectric Crystal with Monoclinic Phase. <i>Crystal Growth and Design</i> , 2010 , 10, 1871-1877	3.5	51
435	A complete set of material properties of single domain 0.26Pb(In ₁₂ Nb ₁₂)O ₃ -0.46Pb(Mg ₁₃ Nb ₂₃)O ₃ -0.28PbTiO ₃ single crystals. <i>Applied Physics Letters</i> , 2010 , 96, 12907	3.4	51
434	Complete set of elastic, dielectric, and piezoelectric constants of [011] poled rhombohedral Pb(InNb)O-Pb(MgNb)O-PbTiO ₃ :Mn single crystals. <i>Journal of Applied Physics</i> , 2013 , 113, 74106	2.5	50
433	Recent developments in high curie temperature perovskite single crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 564-9	3.2	50

432	New Pb(Mg _{1/3} Nb _{2/3})O ₃ -Pb(In _{1/2} Nb _{1/2})O ₃ -PbZrO ₃ -PbTiO ₃ Quaternary Ceramics: Morphotropic Phase Boundary Design and Electrical Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15506-15517	9.5	49
431	Investigation of Ca ₃ TaGa ₃ Si ₂ O ₁₄ piezoelectric crystals for high temperature sensors. <i>Journal of Applied Physics</i> , 2011 , 109, 114103	2.5	49
430	Domain configuration and piezoelectric properties of (K _{0.50} Na _{0.50}) _{1-x} (Nb _{0.80} Ta _{0.20})O ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 4177-4184	6	48
429	High Power Characteristics of Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3383-3386	3.8	48
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