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List of Publications by Year in Descending Order

227 papers	14,568 citations	63 h-index	114 g-index
236 ext. papers	17,261 ext. citations	7.7 avg, IF	6.95 L-index

#	Paper	IF	Citations
227	Boosting energy storage performance of BiFeO3-based multilayer capacitors via enhancing ionic bonding and relaxor behavior. *Journal of Materials Chemistry A*, **2022**, 10, 7382-7390	13	4
226	Local Atomic Configuration in Pristine and A-Site Doped Silver Niobate Perovskite Antiferroelectrics.. *Research*, **2022**, 2022, 9782343	7.8	1
225	Isolated-Oxygen-Vacancy Hardening in Lead-Free Piezoelectrics.. *Advanced Materials*, **2022**, e2202558	24	4
224	(Bi1/2Na1/2)TiO3 System **2021**, 85-121		
223	Effects of Disorder on the Electronic Structure and Thermoelectric Properties of an Inverse Full-Heusler Mn2CoAl Alloy. *Chemistry of Materials*, **2021**, 33, 2543-2547	9.6	4
222	(K ,Na)NbO3 System **2021**, 33-83		
221	BaTiO3 System **2021**, 123-155		
220	BiFeO3 System **2021**, 157-196		
219	Fundamentals of Piezoelectricity **2021**, 1-18		
218	Simultaneously achieved high-energy storage density and efficiency in (K,Na)NbO3-based lead-free ferroelectric films. *Journal of the American Ceramic Society*, **2021**, 104, 4119-4130	3.8	9
217	Ferroelectric Domain Structures in Monoclinic (K0.5Na0.5)NbO3 Epitaxial Thin Films. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2100127	2.5	0
216	Growth and characterization of large size lead-free ferroelectric K(Ta,Nb)O3 single crystal. *Journal of the American Ceramic Society*, **2021**, 104, 5182-5191	3.8	1
215	(Bi,Sb)2Te3/SiC nanocomposites with enhanced thermoelectric performance: Effect of SiC nanoparticle size and compositional modulation. *Science China Materials*, **2021**, 64, 2551-2562	7.1	4
214	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. *Science*, **2021**, 373, 556-561	33.3	79
213	Ferroelastic Nanodomain-mediated Mechanical Switching of Ferroelectricity in Thick Epitaxial Films. *Nano Letters*, **2021**, 21, 445-452	11.5	2
212	Lead-Free BiFeO-BaTiO Ceramics with High Curie Temperature: Fine Compositional Tuning across the Phase Boundary for High Piezoelectric Charge and Strain Coefficients. *ACS Applied Materials & Interfaces*, **2021**, 13, 4192-4202	9.5	26
211	Significant Enhancement of Thermoelectric Figure of Merit in BiSbTe-Based Composites by Incorporating Carbon Microfiber. *Advanced Functional Materials*, **2021**, 31, 2008851	15.6	23

210	Thermoelectric Performance Enhancement in BiSbTe Alloy by Microstructure Modulation via Cyclic Spark Plasma Sintering with Liquid Phase. *Advanced Functional Materials*, **2021**, 31, 2009681	15.6	28
209	High-Performance Lead-Free Piezoelectrics **2021**, 19-31		
208	Lead-free ferroelectric materials: Prospective applications. *Journal of Materials Research*, **2021**, 36, 985-995	2.5	12
207	All-Inorganic Flexible (K, Na)NbO-Based Lead-Free Piezoelectric Thin Films Spin-Coated on Metallic Foils. *ACS Applied Materials & Interfaces*, **2021**, 13, 39633-39640	9.5	3
206	Thermoelectric Cu Sb S -Based Synthetic Minerals with a Sublimation-Derived Porous Network. *Advanced Materials*, **2021**, 33, e2103633	24	14
205	Thermoelectrics: Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures (Adv. Energy Mater. 41/2020). *Advanced Energy Materials*, **2020**, 10, 2070171	21.8	3
204	Nanostructure Engineering and Performance Enhancement in FeO-Dispersed CuSbS Thermoelectric Composites with Earth-Abundant Elements. *ACS Applied Materials & Interfaces*, **2020**, 12, 17852-17860	9.5	10
203	Practical High-Performance (Bi,Sb)Te-Based Thermoelectric Nanocomposites Fabricated by Nanoparticle Mixing and Scrap Recycling. *ACS Applied Materials & Interfaces*, **2020**, 12, 16426-16435	9.5	18
202	Impact of texturing on the phase transitions in sol–gel-processed Bi(Sm)FeO3 thin films on LaNiO3-buffered silicon. *Journal of the American Ceramic Society*, **2020**, 103, 6554-6564	3.8	3
201	Control of the Thermoelectric Properties of MgSn Single Crystals via Point-Defect Engineering. *Scientific Reports*, **2020**, 10, 2020	4.9	17
200	Determination of polarization states in (K,Na)NbO3 lead-free piezoelectric crystal. *Journal of Advanced Ceramics*, **2020**, 9, 204-209	10.7	2
199	Ultra-large electric field-induced strain in potassium sodium niobate crystals. *Science Advances*, **2020**, 6, eaay5979	14.3	35
198	Practical high-performance lead-free piezoelectrics: structural flexibility beyond utilizing multiphase coexistence. *National Science Review*, **2020**, 7, 355-365	10.8	42
197	Local Structure Heterogeneity in Sm-Doped AgNbO for Improved Energy-Storage Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 6097-6104	9.5	43
196	Lead-free antiferroelectric niobates AgNbO3 and NaNbO3 for energy storage applications. *Journal of Materials Chemistry A*, **2020**, 8, 23724-23737	13	54
195	BiTe-based applied thermoelectric materials: research advances and new challenges. *National Science Review*, **2020**, 7, 1856-1858	10.8	52
194	Lead-free antiferroelectric AgNbO3: Phase transitions and structure engineering for dielectric energy storage applications. *Journal of Applied Physics*, **2020**, 128, 070903	2.5	11
193	Stress-modulated optimization of polymorphic phase transition in Li-doped (K,Na)NbO3. *Applied Physics Letters*, **2020**, 117, 032901	3.4	5

192	Influence of dislocations on thermal conductivity of strontium titanate. *Applied Physics Letters*, **2020**, 117, 021902	3.4	10
191	Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures. *Advanced Energy Materials*, **2020**, 10, 2000757	21.8	33
190	Constructing phase boundary in AgNbO antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. *Nature Communications*, **2020**, 11, 4824	17.4	97
189	Enhancing the Thermoelectric Performance of MgSn Single Crystals via Point Defect Engineering and Sb Doping. *ACS Applied Materials & Interfaces*, **2020**, 12, 57888-57897	9.5	5
188	Poling-induced inverse time-dependent microstrain mechanisms and post-poling relaxation in bismuth ferrite. *Applied Physics Letters*, **2020**, 116, 122901	3.4	2
187	High thermoelectric performance in low-cost SnSSe crystals. *Science*, **2019**, 365, 1418-1424	33.3	233
186	Synergistic modulation of mobility and thermal conductivity in (Bi,Sb)2Te3 towards high thermoelectric performance. *Energy and Environmental Science*, **2019**, 12, 624-630	35.4	82
185	Enhanced antiferroelectric phase stability in La-doped AgNbO3: perspectives from the microstructure to energy storage properties. *Journal of Materials Chemistry A*, **2019**, 7, 2225-2232	13	122
184	Microscopic origin of the high piezoelectric response of Sm-doped BiFeO3 near the morphotropic phase boundary. *Journal of Applied Physics*, **2019**, 125, 175113	2.5	4
183	Influence of trace zirconia addition on the properties of (K,Na)NbO3 solid solutions. *Journal of Materials Chemistry C*, **2019**, 7, 6914-6923	7.1	18
182	Large Piezoelectric Strain in Sub-10 Nanometer Two-Dimensional Polyvinylidene Fluoride Nanoflakes. *ACS Nano*, **2019**, 13, 4496-4506	16.7	26
181	Review of chemical modification on potassium sodium niobate lead-free piezoelectrics. *Journal of Materials Chemistry C*, **2019**, 7, 4284-4303	7.1	74
180	Medium-temperature thermoelectric GeTe: vacancy suppression and band structure engineering leading to high performance. *Energy and Environmental Science*, **2019**, 12, 1396-1403	35.4	147
179	Potassium-Sodium-Niobate-Based Thin Films: Lead Free for Micro-Piezoelectrics. *Annalen Der Physik*, **2019**, 531, 1800525	2.6	19
178	Enhancing the thermoelectric performance of Cu1.8S by Sb/Sn co-doping and incorporating multiscale defects to scatter heat-carrying phonons. *Journal of Materials Chemistry C*, **2019**, 7, 4026-4031	7.1	14
177	Adjusting Na doping via wet-chemical synthesis to enhance thermoelectric properties of polycrystalline SnS. *Science China Materials*, **2019**, 62, 1005-1012	7.1	12
176	Reducing Lattice Thermal Conductivity of MnTe by Se Alloying toward High Thermoelectric Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 28221-28227	9.5	16
175	Highly Textured N-Type SnSe Polycrystals with Enhanced Thermoelectric Performance. *Research*, **2019**, 2019, 9253132	7.8	21

174	Copper-nanoparticle-dispersed amorphous BaTiO thin films as hole-trapping centers: enhanced photocatalytic activity and stability.. *RSC Advances*, **2019**, 9, 5045-5052	3.7	5
173	High-performance electron-doped GeMnTe2: hierarchical structure and low thermal conductivity. *Journal of Materials Chemistry A*, **2019**, 7, 27361-27366	13	10
172	ZnO-Nanoparticle-Dispersed Cu11.5Ni0.5Sb4S13 Tetrahedrite Composites with Enhanced Thermoelectric Performance. *Journal of Electronic Materials*, **2019**, 48, 1840-1845	1.9	5
171	Enhanced Temperature Stability and Defect Mechanism of BNT-Based Lead-Free Piezoceramics Investigated by a Quenching Process. *Advanced Electronic Materials*, **2019**, 5, 1800756	6.4	40
170	Enhanced thermoelectric performance of Cu12Sb4S13 tetrahedrite via nickel doping. *Science China Materials*, **2018**, 61, 1209-1217	7.1	18
169	Comparing the role of annealing on the transport properties of polymorphous AgBiSe and monophase AgSbSe.. *RSC Advances*, **2018**, 8, 7055-7061	3.7	12
168	Defect suppression in CaZrO3-modified (K, Na)NbO3-based lead-free piezoceramic by sintering atmosphere control. *Journal of the American Ceramic Society*, **2018**, 101, 3393-3401	3.8	21
167	Large strain and temperature-insensitive piezoelectric effect in high-temperature piezoelectric ceramics. *Journal of Materials Chemistry C*, **2018**, 6, 456-463	7.1	25
166	Niobate-based lead-free piezoceramics: a diffused phase transition boundary leading to temperature-insensitive high piezoelectric voltage coefficients. *Journal of Materials Chemistry C*, **2018**, 6, 1116-1125	7.1	58
165	Remarkable electron and phonon band structures lead to a high thermoelectric performance ZT > 1 in earth-abundant and eco-friendly SnS crystals. *Journal of Materials Chemistry A*, **2018**, 6, 10048-10056	13	59
164	Lead-free MnTe mid-temperature thermoelectric materials: facile synthesis, p-type doping and transport properties. *Journal of Materials Chemistry C*, **2018**, 6, 4265-4272	7.1	21
163	Broadening the temperature range for high thermoelectric performance of bulk polycrystalline strontium titanate by controlling the electronic transport properties. *Journal of Materials Chemistry C*, **2018**, 6, 7594-7603	7.1	25
162	Melt-Centrifuged (Bi,Sb) Te : Engineering Microstructure toward High Thermoelectric Efficiency. *Advanced Materials*, **2018**, 30, e1802016	24	95
161	High-Performance 0-3 Type Niobate-Based Lead-Free Piezoelectric Composite Ceramics with ZnO Inclusions. *ACS Applied Materials & Interfaces*, **2018**, 10, 30566-30573	9.5	24
160	Lead-free piezoceramics: Status and perspectives. *MRS Bulletin*, **2018**, 43, 576-580	3.2	106
159	Achieving High Thermoelectric Figure of Merit in Polycrystalline SnSe via Introducing Sn Vacancies. *Journal of the American Chemical Society*, **2018**, 140, 499-505	16.4	111
158	Silver Niobate Lead-Free Antiferroelectric Ceramics: Enhancing Energy Storage Density by B-Site Doping. *ACS Applied Materials & Interfaces*, **2018**, 10, 819-826	9.5	195
157	Practical high strain with superior temperature stability in lead-free piezoceramics through domain engineering. *Journal of Materials Chemistry A*, **2018**, 6, 23736-23745	13	34

156	High-performance lead-free piezoelectrics with local structural heterogeneity. *Energy and Environmental Science*, **2018**, 11, 3531-3539	35.4	102
155	Temperature independence of piezoelectric properties for high-performance BiFeO-BaTiO lead-free piezoelectric ceramics up to 300 ℃.. *RSC Advances*, **2018**, 8, 35794-35801	3.7	25
154	Flexoelectricity in antiferroelectrics. *Applied Physics Letters*, **2018**, 113, 132903	3.4	16
153	Refreshing Piezoelectrics: Distinctive Role of Manganese in Lead-Free Perovskites. *ACS Applied Materials & Interfaces*, **2018**, 10, 37298-37306	9.5	25
152	Phase transition and piezoelectricity of BaZrO3-modified (K,Na)NbO3 lead-free piezoelectric thin films. *Journal of the American Ceramic Society*, **2018**, 102, 2770	3.8	2
151	Sol-gel processed highly (100)-textured (K, Na)NbO3-based lead-free thin films: Effect of pyrolysis temperature. *Journal of the American Ceramic Society*, **2018**, 102, 2696	3.8	10
150	Simultaneous enhancement of piezoelectricity and temperature stability in (K,Na)NbO3-based lead-free piezoceramics by incorporating perovskite zirconates. *Journal of Materials Chemistry C*, **2018**, 6, 10618-10627	7.1	31
149	Textured Bi1/2Na1/2TiO3-BaTiO3 Lead-Free Films with Enhanced Piezoelectric Property and Depolarization Temperature. *Advanced Electronic Materials*, **2018**, 4, 1800351	6.4	14
148	3D charge and 2D phonon transports leading to high out-of-plane in n-type SnSe crystals. *Science*, **2018**, 360, 778-783	33.3	569
147	Antiferroelectric-ferroelectric phase transition in lead-free AgNbO3 ceramics for energy storage applications. *Journal of the American Ceramic Society*, **2018**, 101, 5443-5450	3.8	56
146	The structural origin of enhanced piezoelectric performance and stability in lead free ceramics. *Energy and Environmental Science*, **2017**, 10, 528-537	35.4	305
145	High and Temperature-Insensitive Piezoelectric Strain in Alkali Niobate Lead-free Perovskite. *Journal of the American Chemical Society*, **2017**, 139, 3889-3895	16.4	245
144	Thermoelectric transport properties of polycrystalline SnSe alloyed with PbSe. *Applied Physics Letters*, **2017**, 110, 053901	3.4	44
143	Electromechanical properties of CaZrO3 modified (K,Na)NbO3-based lead-free piezoceramics under uniaxial stress conditions. *Journal of the American Ceramic Society*, **2017**, 100, 2116-2122	3.8	23
142	Identifying phase transition behavior in Bi1/2Na1/2TiO3-BaTiO3 single crystals by piezoresponse force microscopy. *Journal of Applied Physics*, **2017**, 121, 174103	2.5	19
141	Lead-Free Antiferroelectric Silver Niobate Tantalate with High Energy Storage Performance. *Advanced Materials*, **2017**, 29, 1701824	24	350
140	Domain Evolution and Piezoelectric Response across Thermotropic Phase Boundary in (K,Na)NbO-Based Epitaxial Thin Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 13315-13322	9.5	37
139	Powder metallurgically synthesized Cu12Sb4S13 tetrahedrites: phase transition and high thermoelectricity. *RSC Advances*, **2017**, 7, 18909-18916	3.7	31

138	Poling engineering of (K,Na)NbO3-based lead-free piezoceramics with orthorhombic–tetragonal coexisting phases. *Journal of Materials Chemistry C*, **2017**, 5, 549-556	7.1	55
137	Piezoelectrics: Monoclinic (K,Na)NbO3 Ferroelectric Phase in Epitaxial Films (Adv. Electron. Mater. 10/2017). *Advanced Electronic Materials*, **2017**, 3,	6.4	1
136	Doping of thermoelectric PbSe with chemically inert secondary phase nanoparticles. *Journal of Materials Chemistry C*, **2017**, 5, 10881-10887	7.1	21
135	Multiscale identification of local tetragonal distortion in NaNbO3-BaTiO3 weak relaxor ferroelectrics by Raman, synchrotron x-ray diffraction, and absorption spectra. *Applied Physics Letters*, **2017**, 111, 132901	3.4	12
134	Monoclinic (K,Na)NbO3 Ferroelectric Phase in Epitaxial Films. *Advanced Electronic Materials*, **2017**, 3, 1700226	6.4	13
133	Thermoelectric performance enhancement of Cu2S by Se doping leading to a simultaneous power factor increase and thermal conductivity reduction. *Journal of Materials Chemistry C*, **2017**, 5, 7845-7852	7.1	45
132	Reversible phase transition induced large piezoelectric response in Sm-doped BiFeO3 with a composition near the morphotropic phase boundary. *Physical Review B*, **2017**, 95,	3.3	33
131	Thermally stable piezoelectric properties of (K, Na)NbO3-based lead-free perovskite with rhombohedral-tetragonal coexisting phase. *Acta Materialia*, **2017**, 122, 344-351	8.4	126
130	Integrating Band Structure Engineering with All-Scale Hierarchical Structuring for High Thermoelectric Performance in PbTe System. *Advanced Energy Materials*, **2017**, 7, 1601450	21.8	125
129	Lead-free AgNbO3 anti-ferroelectric ceramics with an enhanced energy storage performance using MnO2 modification. *Journal of Materials Chemistry C*, **2016**, 4, 8380-8384	7.1	161
128	Piezoelectric properties of (K0.5Na0.5)NbO3-BaTiO3 lead-free ceramics prepared by spark plasma sintering. *Journal of Advanced Dielectrics*, **2016**, 06, 1650013	1.3	10
127	Thermoelectric performance enhancement in n-type Bi2(TeSe)3 alloys owing to nanoscale inhomogeneity combined with a spark plasma-textured microstructure. *NPG Asia Materials*, **2016**, 8, e275-e275	10.3	114
126	A brief review on relaxor ferroelectrics and selected issues in lead-free relaxors. *Journal of the Korean Physical Society*, **2016**, 68, 1481-1494	0.6	85
125	Sol–gel synthesis of 0.94(Bi0.5Na0.5)TiO3–0.06BaTiO3 lead-free piezoelectric films: effect of pyrolysis temperature on phase evolution and electrical properties. *Journal of Sol-Gel Science and Technology*, **2016**, 77, 423-429	2.3	8
124	Sol–gel-processed (001)-textured BiFeO3 thin films on Pt(111)/Ti/SiO2/Si substrates with PbO seeding nanocrystals. *RSC Advances*, **2016**, 6, 489-494	3.7	12
123	Distinct Impact of Alkali-Ion Doping on Electrical Transport Properties of Thermoelectric p-Type Polycrystalline SnSe. *Journal of the American Chemical Society*, **2016**, 138, 8875-82	16.4	243
122	Mechanical Alloying and Spark Plasma Sintering of BiCuSeO Oxyselenide: Synthesis Process and Thermoelectric Properties. *Journal of the American Ceramic Society*, **2016**, 99, 507-514	3.8	13
121	Diffused Phase Transition Boosts Thermal Stability of High-Performance Lead-Free Piezoelectrics. *Advanced Functional Materials*, **2016**, 26, 1217-1224	15.6	228

120	Solvothermally synthesized SnS nanorods with high carrier mobility leading to thermoelectric enhancement. *RSC Advances*, **2016**, 6, 43985-43988	3.7	17
119	Raising thermoelectric performance of n-type SnSe via Br doping and Pb alloying. *RSC Advances*, **2016**, 6, 98216-98220	3.7	86
118	Further Enhancing Piezoelectric Properties by Adding MnO2 in AgSbO3-Modified (Li,K,Na)(Nb,Ta)O3 Lead-Free Piezoceramics. *Journal of the American Ceramic Society*, **2016**, 99, 3670-3676	3.8	39
117	Multi-scale thermal stability of niobate-based lead-free piezoceramics with large piezoelectricity. *Journal of Materials Chemistry C*, **2015**, 3, 8780-8787	7.1	77
116	Strain-based scanning probe microscopies for functional materials, biological structures, and electrochemical systems. *Journal of Materiomics*, **2015**, 1, 3-21	6.7	87
115	Ferroelectric and piezoelectric properties of 0.95(Na0.49K0.49Li0.02)(Nb0.8Ta0.2)O3–0.05CaZrO3 lead-free ceramics prepared by spark plasma sintering. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 9329-9335	2.1	12
114	Dielectric and ferroelectric properties of AgSbO3-modified (Li,K,Na)(Nb,Ta)O3 lead-free piezoceramics. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 9309-9315	2.1	9
113	Temperature Stability of Lead-Free Niobate Piezoceramics with Engineered Morphotropic Phase Boundary. *Journal of the American Ceramic Society*, **2015**, 98, 2177-2182	3.8	99
112	Is Cu3SbSe3 a promising thermoelectric material?. *RSC Advances*, **2015**, 5, 42848-42854	3.7	22
111	Fine-grained lead-free p-type AgSn4SbTe6 thermoelectric materials synthesized by mechanical alloying and spark plasma sintering. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 9747-9752	2.1	2
110	Electrical and thermal transport properties of spark plasma sintered n-type Bi2Te3−xSex alloys: the combined effect of point defect and Se content. *Journal of Materials Chemistry C*, **2015**, 3, 10583-10589	7.1	100
109	Superior thermoelectric performance in PbTe–PbS pseudo-binary: extremely low thermal conductivity and modulated carrier concentration. *Energy and Environmental Science*, **2015**, 8, 2056-2068	35.4	157
108	Core-shell grain structures and ferroelectric properties of Na0.5K0.5NbO3-LiTaO3-BiScO3 piezoelectric ceramics. *Data in Brief*, **2015**, 4, 34-9	1.2	9
107	High thermoelectric performance of all-oxide heterostructures with carrier double-barrier filtering effect. *NPG Asia Materials*, **2015**, 7, e182-e182	10.3	29
106	Intergranular Stress Induced Phase Transition in CaZrO3 Modified KNN-Based Lead-Free Piezoelectrics. *Journal of the American Ceramic Society*, **2015**, 98, 1372-1376	3.8	32
105	Nanodomain Engineered (K, Na)NbO3 Lead-Free Piezoceramics: Enhanced Thermal and Cycling Reliabilities. *Journal of the American Ceramic Society*, **2015**, 98, 448-454	3.8	52
104	Phase transition and piezoelectricity of sol–gel-processed Sm-doped BiFeO3 thin films on Pt(111)/Ti/SiO2/Si substrates. *Journal of Materials Chemistry C*, **2015**, 3, 2115-2122	7.1	48
103	Enhanced Thermoelectric Performance of Nonstoichiometric Compounds Cu3−δSbSe4 by Cu Deficiencies. *Journal of Electronic Materials*, **2014**, 43, 2229-2238	1.9	37

102	BiCuSeO oxyselenides: new promising thermoelectric materials. *Energy and Environmental Science*, **2014**, 7, 2900-2924	35.4	416
101	Structure and composition characterization of lead-free (K, Na)NbO3 piezoelectric nanorods synthesized by the molten-salt reaction. *Journal of Materials Chemistry C*, **2014**, 2, 1519-1524	7.1	36
100	Piezoelectricity of lead-free (K, Na)NbO3 nanoscale single crystals. *Journal of Materials Chemistry C*, **2014**, 2, 9091-9098	7.1	23
99	Ferroelectric domain morphology and temperature-dependent piezoelectricity of (K,Na,Li)(Nb,Ta,Sb)O3 lead-free piezoceramics. *RSC Advances*, **2014**, 4, 20062-20068	3.7	74
98	High piezoelectricity of BaTiO3□CaTiO3□BaSnO3 lead-free ceramics. *Journal of Materials Chemistry C*, **2014**, 2, 4764-4771	7.1	116
97	Thermoelectrics with earth abundant elements: low thermal conductivity and high thermopower in doped SnS. *Journal of Materials Chemistry A*, **2014**, 2, 17302-17306	13	201
96	Thermoelectric properties of Sn-doped p-type Cu3SbSe4: a compound with large effective mass and small band gap. *Journal of Materials Chemistry A*, **2014**, 2, 13527-13533	13	87
95	Domain evolution of tetragonal Pb(ZrxTi1−x) O3 piezoelectric thin films on SrTiO3 (100) surfaces: combined effects of misfit strain and Zr/Ti ratio. *Journal of Materials Chemistry C*, **2014**, 2, 5836-5841	7.1	23
94	Temperature-dependent electrical properties of 0.5Pb(Ni1/3Nb2/3)O3□(0.5 −x)PbTiO3−xPbZrO3 piezoceramics near the morphotropic phase boundary. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 2540-2545	2.1	11
93	Thermoelectric Properties of Sn-S Bulk Materials Prepared by Mechanical Alloying and Spark Plasma Sintering. *Journal of Electronic Materials*, **2014**, 43, 2435-2439	1.9	52
92	Fast Seebeck coefficient measurement based on dynamic method. *Review of Scientific Instruments*, **2014**, 85, 054904	1.7	16
91	Orientation-dependent piezoelectricity and domain characteristics of tetragonal Pb(Zr0.3,Ti0.7)0.98Nb0.02O3 thin films on Nb-doped SrTiO3 substrates. *Applied Physics Letters*, **2014**, 104, 012908	3.4	14
90	Effect of Pyrolysis Temperature on Sol□Gel Synthesis of Lead-free Piezoelectric (K,Na)NbO3 Films on Nb:SrTiO3 Substrates. *Journal of the American Ceramic Society*, **2014**, 97, 107-113	3.8	29
89	Fine-Grained and Nanostructured AgPbmSbTem+2 Alloys with High Thermoelectric Figure of Merit at Medium Temperature. *Advanced Energy Materials*, **2014**, 4, 1300937	21.8	34
88	BiSbTe-Based Nanocomposites with High ZT: The Effect of SiC Nanodispersion on Thermoelectric Properties. *Advanced Functional Materials*, **2013**, 23, 4317-4323	15.6	325
87	Phase transition and high piezoelectricity in (Ba,Ca)(Ti1−xSnx)O3 lead-free ceramics. *Applied Physics Letters*, **2013**, 103, 072905	3.4	62
86	(K, Na)NbO3-Based Lead-Free Piezoceramics: Fundamental Aspects, Processing Technologies, and Remaining Challenges. *Journal of the American Ceramic Society*, **2013**, 96, 3677-3696	3.8	598
85	Fatigue-free unipolar strain behavior in CaZrO3 and MnO2 co-modified (K,Na)NbO3-based lead-free piezoceramics. *Applied Physics Letters*, **2013**, 103, 192907	3.4	51

84	High piezoelectricity due to multiphase coexistence in low-temperature sintered (Ba,Ca)(Ti,Sn)O3□CuOx ceramics. *Applied Physics Letters*, **2013**, 103, 172904	3.4	41
83	High thermoelectric performance of oxyselenides: intrinsically low thermal conductivity of Ca-doped BiCuSeO. *NPG Asia Materials*, **2013**, 5, e47-e47	10.3	286
82	Enhanced Piezoelectric Properties of (Ba1□Cax)(Ti0.92Sn0.08)O3 Lead-Free Ceramics. *Journal of the American Ceramic Society*, **2013**, 96, 241-245	3.8	103
81	Temperature-Insensitive (K,Na)NbO3-Based Lead-Free Piezoactuator Ceramics. *Advanced Functional Materials*, **2013**, 23, 4079-4086	15.6	406
80	Composition Inhomogeneity due to Alkaline Volatilization in Li-Modified (K, Na)NbO3 Lead-Free Piezoceramics. *Journal of the American Ceramic Society*, **2013**, 96, 2693-2695	3.8	47
79	Electrical properties of K0.5Na0.5NbO3 thin films grown on Nb:SrTiO3 single-crystalline substrates with different crystallographic orientations. *Journal of Applied Physics*, **2013**, 113, 024101	2.5	40
78	Enhanced thermoelectric performance of Ca-doped BiCuSeO in a wide temperature range. *Journal of Materials Chemistry A*, **2013**, 1, 11942	13	109
77	High and Frequency-Insensitive Converse Piezoelectric Coefficient Obtained in AgSbO3-Modified (Li, K, Na)(Nb,Ta)O3 Lead-Free Piezoceramics. *Journal of the American Ceramic Society*, **2013**, 96, 519-523	3.8	36
76	Enhanced Thermoelectric Performance of Separately Ni-Doped and Ni/Sr-Codoped LaCoO3 Nanocomposites. *Journal of the American Ceramic Society*, **2012**, 95, 3562-3568	3.8	9
75	BiFeO3-modified (Li, K, Na)(Nb, Ta)O3 lead-free piezoelectric ceramics with temperature-stable piezoelectric property and enhanced mechanical strength. *Journal of Materials Science*, **2012**, 47, 1767-1773	4.3	20
74	(K, Na)NbO3-based lead-free piezoceramics: Phase transition, sintering and property enhancement. *Journal of Advanced Ceramics*, **2012**, 1, 24-37	10.7	116
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