

Lead-free piezoceramics

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Citation Report

#	ARTICLE	IF	CITATIONS
10	Lead-free at last. Nature, 2004, 432, 24-25.	13.7	733
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1367		1.1	11

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1442	Lead-free (Ba _{0.7} Ca _{0.3})TiO ₃ -Ba(Zr _{0.2} Ti _{0.8})O ₃ -xwt %CuO ceramics with high piezoelectric coefficient by low-temperature sintering. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1342-1345.	1.1	47
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1458	Piezoelectric properties of [Li _{0.03} (K _{0.48} Na _{0.52}) _{0.97}](Nb _{0.97} Sb _{0.03})O ₃ -(Ba _{0.85} Ca _{0.15})(Ti _{0.90} Zr _{0.10})O ₃ lead-free piezoelectric ceramics. <i>Current Applied Physics</i> , 2012, 12, 752-754.	1.1	17

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1466	Temperature stability and phase transition of $Li_{0.02}(K_xNa_{1-x})_{0.98}NbO_3$ ceramics. <i>Ceramics International</i> , 2012, 38, S315-S318.	2.3	4
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1547	Effects of Co doping on microstructure and properties of $(K_{0.5}Na_{0.5})NbO_3 \text{--} LiSbO_3 \text{--} BiFe(1-x)Co_xO_3$ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1480-1484.	1.1	8
1548	Low temperature sintering and properties of lead-free $(Ba_{0.85}Ca_{0.15})(Zr_{0.1}Ti_{0.9})O_3$ ceramics with $Ba(Cu_{0.5}W_{0.5})O_3$ addition. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1551-1555.	1.1	19

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1553	Microstructure, dielectric and piezoelectric properties of lead-free Bi _{0.5} Na _{0.5} TiO ₃ –Bi _{0.5} K _{0.5} TiO ₃ –BiMnO ₃ ceramics. <i>Bulletin of Materials Science</i> , 2013, 36, 265-270.	0.8	8
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1932	Impact of fast microwave sintering on the grain growth, dielectric relaxation and piezoelectric properties on $\text{Ba}_{0.18}\text{Ca}_{0.02}\text{Ti}_{0.09}\text{Zr}_{0.10}\text{O}_3$ lead-free ceramics prepared by different methods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 185, 114-122.	1.7	18
1933	Crystallographic textured evolution in $0.85\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{-}0.04\text{BaTiO}_3\text{-}0.11\text{K}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ ceramics prepared by reactive-templated grain growth method. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1873-1879.	1.1	6
1934	Base metal Co-fired $(\text{Na},\text{K})\text{NbO}_3$ structures with enhanced piezoelectric performance. <i>Journal of Electroceramics</i> , 2014, 32, 301-306.	0.8	45
1935	Effects of La^{3+} addition on the phase transition, microstructure, dielectric and piezoelectric properties of $\text{Ba}_{0.9}\text{Ca}_{0.1}\text{Ti}_{0.9}\text{Zr}_{0.1}\text{O}_3$ ceramics prepared by hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1828-1835.	1.1	6
1936	Fabrication and electrical properties of textured $\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3\text{-}(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ ceramics using plate-like BaTiO_3 particles as templates. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1817-1827.	1.1	23
1937	Lead-free $(\text{K}, \text{Na})\text{NbO}_3$ thin films derived from chemical solution deposition modified with EDTA. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1112-1116.	1.1	11
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1939	Properties of B-site non-stoichiometric $(\text{K}_{0.5}\text{Na}_{0.5})(\text{Nb}_{0.9}\text{Ta}_{0.1})_{1+x}\text{O}_3$ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1085-1088.	1.1	2
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1944	Enhanced piezoelectric properties of $(\text{K}_{0.40}\text{Na}_{0.60})_{0.94}\text{Li}_{0.06}\text{Nb}_{0.94}\text{Sb}_{0.06}\text{O}_3$ lead-free ceramics by optimizing the sintering temperature. <i>Ceramics International</i> , 2014, 40, 4341-4344.	2.3	7
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1947	Phase structure and electrical properties of Yb and Mn co-substituted $(\text{K}_{0.48}\text{Na}_{0.52})\text{NbO}_3$ lead-free piezoelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 588, 496-501.	2.8	10

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1949	Advantages of Low Partial Pressure of Oxygen Processing of Alkali Niobate: NaNbO ₃ . <i>Journal of the American Ceramic Society</i> , 2014, 97, 1791-1796.	1.9	67
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1951	Dielectric and impedance spectroscopy of lead-free 0.99[(Bi _{0.5}) _{Tj} ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 627 Td (Na _{0.4} K _{0.1})(Ti _{0.5}) ₂₇₋₃₃ .	1.3	21
1952	Dielectric, ferroelectric, and piezoelectric properties in potassium sodium niobate ceramics with rhombohedral-orthorhombic and orthorhombic-tetragonal phase boundaries. <i>Ceramics International</i> , 2014, 40, 5771-5779.	2.3	54
1953	New phase boundary and piezoelectric properties in (K, Na)NbO ₃ based ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 585, 748-752.	2.8	15
1954	Influence of B-site compositional homogeneity on properties of (K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.86} Ta _{0.10} Sb _{0.04})O ₃ -based piezoelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2249-2257.	2.8	16
1955	Low-temperature sintering of (K,Na)NbO ₃ -based lead-free piezoceramics with addition of LiF. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1161-1167.	2.8	26
1956	Sintering and electrical properties of La-modified (Na _{0.52} K _{0.45} Li _{0.03}) _{1-x} Lax(Nb _{0.88} Sb _{0.09} Ta _{0.03})O ₃ lead-free ceramics. <i>Ceramics International</i> , 2014, 40, 4319-4322.	2.3	11
1957	Large piezoelectric strain observed in sol-gel derived BZT-BCT ceramics. <i>Current Applied Physics</i> , 2014, 14, 396-402.	1.1	84
1958	Dielectric, ferroelectric and field-induced strain response of lead-free BaZrO ₃ -modified Bi _{0.5} Na _{0.5} TiO ₃ ceramics. <i>Current Applied Physics</i> , 2014, 14, 331-336.	1.1	66
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1963	Temperature stability, phase structure and electrical behavior of Li-modified 0.99(K _{0.48} Na _{0.52})NbO _{3-x} 0.01BiCoO ₃ piezoelectric ceramics. <i>Ceramics International</i> , 2014, 40, 1133-1137.	2.3	17
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1965	Structural, dielectric and optical properties of sol-gel synthesized 0.55Ba(Zr _{0.2} Ti _{0.8})O _{3-x} 0.45(Ba _{0.7} Ca _{0.3})TiO ₃ ceramic. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1131-1137.	1.1	13

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1967	Green and red upconversion luminescence of Er^{3+} -doped $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ ceramics. <i>Ceramics International</i> , 2014, 40, 2581-2584.	2.3	54
1968	Microstructural, structural, dielectric and piezoelectric properties of potassium sodium niobate thick films. <i>Journal of the European Ceramic Society</i> , 2014, 34, 285-295.	2.8	32
1969	Piezoelectric and ferroelectric properties of lead-free niobium-rich potassium lithium tantalate niobate single crystals. <i>Materials Research Bulletin</i> , 2014, 49, 206-209.	2.7	12
1970	Improved piezoelectric property and bright upconversion luminescence in Er doped $(\text{Ba}_{0.99}\text{Ca}_{0.01})(\text{Ti}_{0.98}\text{Zr}_{0.02})\text{O}_3$ ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 583, 305-308.	2.8	63
1971	Study of polymorphic phase boundary in $(\text{Na},\text{K},\text{Li})(\text{Nb},\text{Ta},\text{Sb})\text{O}_3$ piezoelectric ceramics. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 065105.	1.3	7
1972	Dielectric, ferroelectric, and field-induced strain properties of Ta-doped $0.99\text{Bi}_{0.5}(\text{Na}_{0.82}\text{K}_{0.18})_{0.5}\text{TiO}_3$ - 0.01LiSbO_3 ceramics. <i>Journal of Materials Science</i> , 2014, 49, 3205-3214.	1.7	31
1973	Multi-phase transition behaviour and large electrostrain in lead-free $(\text{K}, \text{Na})_{1-x}\text{ETQq1} \text{ } 1 \text{ } 0.784314 \text{ } \text{rgBT} / \text{Overlock } 10 \text{ } \text{Tf } 50 \text{ } 462 \text{ } \text{Td} \text{ } (\text{Li})\text{NbO}_3$ ceramics. <i>Journal of Materials Science</i> , 2014, 49, 3205-3214.	1.3	23
1974	Achieving Both Giant d_{33} and High T_C in Potassium-Sodium Niobate Ternary System. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 750-756.	4.0	73
1975	Stationary domain wall contribution to enhanced ferroelectric susceptibility. <i>Nature Communications</i> , 2014, 5, 3120.	5.8	85
1976	Ferroc phase transition of tetragonal $\text{Pb}_{0.6-x}\text{Ca}_x\text{Bi}_{0.4}(\text{Ti}_{0.75}\text{Zn}_{0.15}\text{Fe}_{0.1})\text{O}_3$ ceramics: Factors determining Curie temperature. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 051501.	0.8	4
1977	Enhanced Electrical Properties of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ -modified $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ Lead-free Piezoceramics. <i>Ferroelectrics</i> , 2014, 458, 188-193.	0.3	2
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1979	Phase transitions and the piezoelectricity around morphotropic phase boundary in $\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ - $x(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ lead-free solid solution. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	122
1980	Growth and properties of Li, Ta modified $(\text{K},\text{Na})\text{NbO}_3$ lead-free piezoelectric single crystals. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 86-90.	1.2	35
1981	Doping effect of $\text{SiO}_2/\text{CeO}_2$ on the dielectric, ferroelectric and piezoelectric properties of $(\text{Ba}_{0.7}\text{Ca}_{0.3})(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ ceramics. <i>Journal of Materials Science</i> , 2014, .	1.1	9
1982	Sodium niobate particles with controlled morphology synthesized by hydrothermal method and their use as templates in KNN fibers. <i>Advanced Powder Technology</i> , 2014, 25, 1825-1833.	2.0	10
1983	Characterization and Piezoelectric Properties of Reactively Sputtered $(\text{Sc}_x\text{S}_{1-x})_2\text{O}_3$ Ceramics. <i>Ceramic Technology</i> , 2014, 11, 894-900.	1.1	9

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1985	Effect of Texture on Temperature-Dependent Properties of $(K_{0.5}Na_{0.5}NbO_3)_{1-x}Bi_{x/2}Ti_{x/2}O_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2557-2563.	1.9	43
1986	Effects of Manganese Addition on Phase Formation Behavior and Dielectric Properties of $(K_{0.5}Na_{0.5})_{0.935}Li_{0.065}NbO_3$ Ceramics. <i>Key Engineering Materials</i> , 0, 608, 206-211.	0.3	5
1987	Engineering of Lead-Free Piezoelectrics in Alkali Niobate Ceramic System: Improvement in Density by Two-Step Mixing Process. <i>Key Engineering Materials</i> , 2014, 616, 108-113.	0.4	0
1988	Two-step sintering of new potassium sodium niobate ceramics: a high d_{33} and wide sintering temperature range. <i>Dalton Transactions</i> , 2014, 43, 12836.	1.6	27
1989	Enhanced Ferroelectric Property of Manganese Doped Lead-free $(K_{0.5}Na_{0.5})NbO_3$ Ceramics. <i>Ferroelectrics</i> , 2014, 463, 72-77.	0.3	5
1990	Wide phase boundary zone, piezoelectric properties, and stability in $0.97(K_{0.4}Na_{0.6})(Nb_{1-x}Sb_x)O_3 \approx 0.03Bi_{0.5}Li_{0.5}ZrO_3$ lead-free ceramics. <i>Dalton Transactions</i> , 2014, 43, 9419.	1.6	36
1991	Structure and composition characterization of lead-free $(K, Na)NbO_3$ piezoelectric nanorods synthesized by the molten-salt reaction. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1519-1524.	2.7	40
1992	Piezoelectricity of lead-free $(K, Na)NbO_3$ nanoscale single crystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9091-9098.	2.7	26
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1994	Templated Grain Growth in Macroporous Materials. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1736-1742.	1.9	47
1995	Ferroelectric domain morphology and temperature-dependent piezoelectricity of $(K, Na, Li)(Nb, Ta, Sb)O_3$ lead-free piezoceramics. <i>RSC Advances</i> , 2014, 4, 20062-20068.	1.7	80
1996	Large d_{33} in $(K, Na)(Nb, Ta, Sb)O_3$ - $(Bi, Na, K)ZrO_3$ lead-free ceramics. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4122.	5.2	103
1997	$Dy_{2-x}O_{3-x}$ Doped $(Ba_{0.85}Ca_{0.15})(Ti_{0.90}Zr_{0.10})O_3$ Ceramics. <i>Ferroelectrics</i> , 2014, 460, 49-56.	0.3	6
1998	Hydrothermal Synthesis of Ferroelectric Mixed Potassium Niobate-Lead Titanate Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1456-1464.	1.9	5
1999	High piezoelectricity of $BaTiO_3$ - $CaTiO_3$ - $BaSnO_3$ lead-free ceramics. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4764-4771.	2.7	148
2000	X-Ray Absorption Spectroscopy Analysis of the Effect of MnO_2 Doping on Local Structure of $(K_{0.5}Na_{0.5})_{0.935}Li_{0.065}NbO_3$ Ceramics. <i>Integrated Ferroelectrics</i> , 2014, 155, 106-110.	0.3	0
2001	Rod-like $NaNbO_3$: mechanisms for stable solvothermal synthesis, temperature-mediated phase transitions and morphological evolution. <i>RSC Advances</i> , 2014, 4, 15104-15110.	1.7	16

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2003	High Strain in (K,Na)NbO ₃ -Based Lead-Free Piezoceramics. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20358-20364.	4.0	31
2004	Synthesis of lead-free piezoelectric powders by ultrasonic-assisted hydrothermal method and properties of sintered (K _{0.48} Na _{0.52})NbO ₃ ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 225-230.	1.7	8
2005	Orientation dependence of electrical properties of large-sized sodium potassium niobate lead-free single crystals. <i>CrystEngComm</i> , 2014, 16, 2760-2765.	1.3	39
2006	New lead-free piezoelectric ceramics based on (K _{0.48} Na _{0.52})(Nb _{0.95} Ta _{0.05})O ₃ –Bi _{0.5} (Na _{0.7} K _{0.2} Li _{0.1}) _{0.5} ZrO ₃ . <i>Dalton Transactions</i> , 2014, 43, 3434.	1.6	26
2007	High piezoelectricity in low-temperature sintering potassium–sodium niobate-based lead-free ceramics. <i>RSC Advances</i> , 2014, 4, 53490-53497.	1.7	21
2008	A high quality lead-free (Li, Ta) modified (K, Na)NbO ₃ single crystal and its complete set of elastic, dielectric and piezoelectric coefficients with macroscopic 4mm symmetry. <i>CrystEngComm</i> , 2014, 16, 9828-9833.	1.3	48
2009	High strain in lead-free Nb-doped Bi _{1/2} (Na _{0.84} K _{0.16}) _{1/2} TiO ₃ –SrTiO ₃ incipient piezoelectric ceramics. <i>Applied Physics Express</i> , 2014, 7, 061502.	1.1	9
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2084	KNbO_3 plate crystal grown by micro-pulling-down method from stoichiometric melt. <i>Journal of Crystal Growth</i> , 2014, 401, 772-776.	0.7	3
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2088	Defect dipoles-driven ferroelectric behavior in potassium sodium niobate ceramics. <i>Ceramics International</i> , 2014, 40, 13205-13210.	2.3	8
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2097	Phonon dynamics and inelastic neutron scattering of sodium niobate. <i>Physical Review B</i> , 2014, 89, .	1.1	18
2098	Cobalt doping effects on structures and electrical properties of lead-free ferroelectric $\text{K}_0.5\text{Na}_0.5\text{NbO}_3$ films. <i>Journal of Alloys and Compounds</i> , 2014, 608, 202-206.	2.8	16
2099	Charge compensation mechanism in La-doped potassium sodium tantalate niobate ceramics. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 265305.	1.3	2
2100	Enhanced dielectric and piezoelectric properties of BZT-BCT system near MPB. <i>Ceramics International</i> , 2014, 40, 14149-14157.	2.3	30
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2769	Comprehensive biocompatibility of nontoxic and high-output flexible energy harvester using lead-free piezoceramic thin film. <i>APL Materials</i> , 2017, 5, .	2.2	121
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2971	Phase structure and electrical properties of (1-x)K _{0.48} Na _{0.52} NbO _{3-x} Bi _{0.46} La _{0.04} (Na _{0.82} K _{0.18}) _{0.5} ZrO ₃ lead-free piezoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 3299-3308.	1.1	6
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2983	Effect of vanadium substitution on electrical and piezoelectric properties of lead-free (K _{0.5} Na _{0.5})NbO ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 507-513.	1.1	1

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2987	Full tensor properties of [111] poled (Na, K)(Nb,Ta)O ₃ lead-free single crystal. <i>Materials Letters</i> , 2017, 186, 267-270.	1.3	3
2988	Improved Piezoelectricity in (K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.91} Ta _{0.05} Sb _{0.04})O ₃ -xBi _{0.25} Na _{0.25} NbO ₃ Lead-Free Piezoelectric Ceramics. <i>Journal of Electronic Materials</i> , 2017, 46, 116-122.	1.0	3
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2990	Low-temperature sintering and enhanced dielectric properties of alkali niobate ceramics prepared from solvothermally synthesized nanopowders. <i>Ceramics International</i> , 2017, 43, 1135-1144.	2.3	18
2991	Phase structure, microstructure, and piezoelectric properties of potassium-sodium niobate-based lead-free ceramics modified by Ca. <i>Journal of Alloys and Compounds</i> , 2017, 693, 950-954.	2.8	10
2992	Phase structure and electrical properties of Sn and Zr modified BaTiO ₃ lead-free ceramics. <i>Ceramics International</i> , 2017, 43, 641-649.	2.3	23
2993	Dielectric properties, relaxor behavior and temperature stability of (1-x)(K _{0.4425} Na _{0.52} Li _{0.0375})(Nb _{0.87} Ta _{0.06} Sb _{0.07})O ₃ -xBa _{0.4} Sr _{0.6} TiO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2017, 693, 118-125.	2.8	11
2994	Modulation of electrical properties of KNNS–BNKZ lead-free ceramics by calcination temperatures. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 2086-2092.	1.1	2
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3046	Phase segregation and dielectric, ferroelectric, and piezoelectric properties of MgO-doped NBT-BT lead-free ferroelectric ceramics. <i>Materials Research Express</i> , 2018, 5, 036305.	0.8	3
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3430	Technology transfer of lead-free $(\text{K}, \text{Na})\text{NbO}_3$ -based piezoelectric ceramics. <i>Materials Today</i> , 2019, 29, 37-48.	8.3	109
3431	Rietveld analysis, optical, and ferroelectric properties of $(1-x)(\text{Na}_{0.97}\text{K}_{0.03})\text{NbO}_3 \cdot x\text{BaTiO}_3$ ($x=0.1, 0.2$) ceramics synthesized by solid-state reaction method. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	0
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3834	Phase diagrams classification based on machine learning and phenomenological investigation of physical properties in K _{1-x} Na _x NbO ₃ thin films. Journal of Applied Physics, 2020, 127, 154101.	1.1	9
3835	Effective oriented direction for enhancement of the piezoelectric properties of crystal-oriented (Li, Tj) ETQ ₀ O ₀ rgBT /Overlock 10 Tf 50	1.0	1
3836	Effect of antimony content on electrical and structural properties of 0.98(K _{0.48} Na _{0.52}) _{0.95} Li _{0.05} Nb _{1-x} Sb _x O ₃ 0.02Ba _{0.5} (Bi _{0.5} Na _{0.5}) _{0.5} ZrO ₃ ceramics. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2021, 60, 266-272.	0.9	1

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3856	Low driving field-induced large strain in MnO ₂ -modified 0.76Bi _{1/2} Na _{1/2} TiO ₃ -0.24SrTiO ₃ lead-free piezoceramics. <i>Journal of Alloys and Compounds</i> , 2021, 857, 158237.	2.8	10
3857	Phase evolution and associated electrical properties of Al-doped KNN-Bi _{0.5} Na _{0.5} ZrO ₃ lead-free piezoelectric ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 151, 109797.	1.9	6
3858	[0 0 1]-oriented crystalline Potassium-Sodium Niobate thin film fabricated at low temperature for use in piezoelectric energy harvester. <i>Applied Surface Science</i> , 2021, 537, 147871.	3.1	15
3859	Synthesis and characterization of K _{0.5} Bi _{0.5} TiO ₃ -BaTiO ₃ piezoelectric ceramics for energy storage applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 717-726.	1.1	9
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3861	Influence of the BaTiO ₃ addition to K _{0.5} Na _{0.5} NbO ₃ lead-free ceramics on the vacancy-like defect structure and dielectric properties. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1288-1298.	2.8	17
3862	Shock-driven depolarization behaviors and electrical output in BiAlO ₃ -doped Bi _{0.5} Na _{0.5} TiO ₃ ferroelectric ceramics. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1169-1177.	1.9	11
3863	Formation mechanisms and electrical properties of perovskite mesocrystals. <i>Ceramics International</i> , 2021, 47, 1479-1512.	2.3	8
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3866	Low intrinsic thermal conductivity of Spark Plasma Sintered dense KNbO ₃ and NaNbO ₃ perovskite ceramics. <i>Thermochimica Acta</i> , 2021, 695, 178807.	1.2	8
3867	Structural, Magnetic, and Electrical Properties of (1-x) Na _{0.5} Bi _{0.5} TiO ₃ - (x) NiFe ₂ O ₄ (x = 0.1, 0.3, 0.5, 0.7), <i>Tj ETQq0 0 0 rgBT</i> 34, 489-495.	0.8	7
3868	Composition driven (Ba,Ca)(Zr,Ti)O ₃ lead-free ceramics with large quality factor and energy harvesting characteristics. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1088-1101.	1.9	14
3869	Enhanced temperature stability and electrical properties of Bi/Mn co-doped (Ba,Ca) (Zr,Ti)O ₃ lead-free ceramics. <i>Ceramics International</i> , 2021, 47, 2525-2530.	2.3	2
3870	Enhanced temperature stability in high piezoelectric performance of (K, Na)NbO ₃ -based lead-free ceramics through co-doped antimony and tantalum. <i>Journal of Alloys and Compounds</i> , 2021, 852, 156865.	2.8	23
3871	Thermoplastic polyurethane elastomer induced shear piezoelectric coefficient enhancement in bismuth sodium titanate - PVDF composite films. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49818.	1.3	5
3872	Phase transition and temperature stability of KNN-based lead-free piezoceramics. <i>Ferroelectrics</i> , 2021, 570, 31-36.	0.3	2

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3886	Large-Scale Piezoelectric-Based Systems for More Electric Aircraft Applications. <i>Micromachines</i> , 2021, 12, 140.	1.4	15
3887	Temperature-stable electrical properties of CaZrO ₃ -modified (Na _x) _{1-x} Ti _{2-x} O ₇ ferroelectric ceramics. <i>Journal of Applied Physics</i> , 2021, 124, 197701.	0.2	1
3888	Transition metal effect on different properties of lead-free KNN ceramics. <i>Materials Today: Proceedings</i> , 2021, 47, 1641-1645.	0.9	2
3889	Effect of Li doping on dielectric properties of Na _{1-x} K _x NbO ₃ x = 0.500, morphotropic phase region. <i>Ferroelectrics</i> , 2021, 570, 122-131.	0.3	2
3890	The high piezoelectric properties of lead-free (1-x)(Ba _{0.85} Ca _{0.15})(Ti _{0.9} Zr _{0.1})O _{3-x} LiTaO ₃ -0.3Åmol% GeO ₂ ceramics driven by multiphase coexistence. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 2432-2440.	1.1	3
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4011	Li and Ta-modified KNN piezoceramic fibers for vibrational energy harvesters. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7662-7669.	2.8	16
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4296	Ultrahigh energy harvesting performance in lead-free piezocomposites with intragranular structure. Acta Materialia, 2022, 222, 117450.	3.8	21
4297	Research progress of high piezoelectric activity of potassium sodium niobate based lead-free ceramics. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 127707.	0.2	12
4298	Some Optical, Electrical Properties of Lead Free KNN-CZN Ceramics. Journal of Materials Science and Chemical Engineering, 2020, 08, 1-11.	0.2	0
4299	Advanced control of crystallographic orientation in ceramics by strong magnetic field. Journal of the Ceramic Society of Japan, 2020, 128, 1005-1012.	0.5	5
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4302	Field-induced Strain Property of Lead-free Ferroelectric Ceramics Based on Sodium Bismuth Titanate. Wuli Xuebao/Journal of Inorganic Materials, 2021, , 453.	0.6	2
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4327	Piezoelectric materials and systems for tissue engineering and implantable energy harvesting devices for biomedical applications. <i>International Materials Reviews</i> , 2022, 67, 683-733.	9.4	21
4328	BaTiO ₃ -based nanogenerators: fundamentals and current status. <i>Journal of Electroceramics</i> , 2022, 48, 8-34.	0.8	12
4329	Pyroelectric properties of 91.5Na _{0.5} Bi _{0.5} TiO ₃ –8.5K _{0.5} Bi _{0.5} TiO ₃ lead-free single crystal. <i>Journal of Advanced Dielectrics</i> , 2021, 11, .	1.5	8

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4332	Evolution from Lead-Based to Lead-Free Piezoelectrics: Engineering of Lattices, Domains, Boundaries, and Defects Leading to Giant Response. Advanced Materials, 2022, 34, e2106845.	11.1	54
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4344	Effect of different pore formers on the performance of lead free piezoelectric ceramics. Ferroelectrics, 2021, 583, 162-176.	0.3	2
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4359	A Comprehensive Review on Piezoelectric Polymeric and Ceramic Nanogenerators. Advanced Engineering Materials, 2022, 24, .	1.6	21
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4368	Improved Energy Storage Properties Achieved in (K, Na)NbO ₃ -Based Relaxor Ferroelectric Ceramics via a Combinatorial Optimization Strategy. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	79
4369	Ultrahigh energy harvesting properties in temperature-insensitive eco-friendly high-performance KNN-based textured ceramics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7978-7988.	5.2	58
4370	Theoretical exploration of mechanical, electronic structure and optical properties of aluminium based double halide perovskite. <i>RSC Advances</i> , 2022, 12, 10209-10218.	1.7	11
4371	Ultrahigh mechanical flexibility induced superior piezoelectricity of InSeBr-type 2D Janus materials. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8371-8377.	1.3	6
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4383	Using Feature-Assisted Machine Learning Algorithms to Boost Polarity in Lead-Free Multicomponent Niobate Alloys for High-Performance Ferroelectrics. <i>Advanced Science</i> , 2022, 9, e2104569.	5.6	11
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4386	Real-Time Capturing of Microscale Events Controlling the Sintering of Lead-Free Piezoelectric Potassium-Sodium Niobate. <i>Small</i> , 2022, 18, e2106825.	5.2	6
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4388	A Local Atomic Mechanism for Monoclinic-Tetragonal Phase Boundary Creation in Li-Doped Na _{0.5} K _{0.5} NbO ₃ Ferroelectric Solid Solution. <i>Inorganic Chemistry</i> , 2022, 61, 4335-4349.	1.9	9
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4390	Construction strategies of self-cleaning ceramic composite membranes for water treatment. <i>Ceramics International</i> , 2022, 48, 7362-7373.	2.3	4
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4392	Room temperature constructing rhombohedral-tetragonal phase boundary in novel (Bi, Na)(Zr, Ti)O ₃ modified (K, Na)(Nb, Sb)O ₃ ceramics: Phase structure, defect and piezoelectric performance. <i>Ceramics International</i> , 2022, , .	2.3	4
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4397	Understanding the origin of the high piezoelectric performance of KNN-based ceramics from the perspective of lattice distortion. <i>Ceramics International</i> , 2022, 48, 9731-9738.	2.3	20
4398	Achievement of a giant piezoelectric coefficient and piezoelectric voltage coefficient through plastic molecular-based ferroelectric materials. <i>Matter</i> , 2022, 5, 1296-1304.	5.0	21
4399	Effects of coupling ability of dopants on NbO ₆ vibration and piezoelectric properties of KNN lead-free ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 164, 110633.	1.9	4
4400	Piezoelectricity induced by pulsed hydraulic pressure enables in situ membrane demulsification and oil/water separation. <i>Water Research</i> , 2022, 215, 118245.	5.3	17
4401	Donor multiple effects on the ferroelectric and piezoelectric performance of lead-free BiFeO ₃ -BaTiO ₃ ceramics. <i>Materials Letters</i> , 2022, 315, 131950.	1.3	16
4402	Phase evolution, dielectric, ferroelectric, and piezoelectric properties of Bi(Mg _{0.5} Hf _{0.5})O ₃ -modified BiFeO ₃ -BaTiO ₃ . <i>Materials Today Chemistry</i> , 2022, 24, 100825.	1.7	2

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4404	Orientation dependent intrinsic and extrinsic contributions to the piezoelectric response in lead-free (Na _{0.5} K _{0.5})NbO ₃ based films. <i>Journal of Alloys and Compounds</i> , 2022, 906, 164346.	2.8	2
4405	Ultrahigh strain in textured BCZT-based lead-free ceramics with CuO sintering agent. <i>Journal of Materials Science and Technology</i> , 2022, 117, 207-214.	5.6	8
4406	Synthesis of (K, Na)NbO ₃ piezoelectric crystals with tunable K/Na ratios. <i>Ferroelectrics</i> , 2021, 584, 12-19.	0.3	0
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4408	Effect of the Ag-Doping on the Phase Structural Evolution, Dielectric and Ferroelectric Properties of Lead-Free Niobate Ceramics. <i>Electronic Materials Letters</i> , 2022, 18, 159-167.	1.0	0
4409	Phase Formation, Microstructure, Electric and Magnetic Properties of NiO Doping in (Ba _{0.85} Ca _{0.15})(Ti _{0.90} Zr _{0.10})O ₃ Ceramics. <i>Integrated Ferroelectrics</i> , 2022, 222, 149-162.	0.3	0
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4411	Domain Dynamics and Local Level Switching Behaviors of Sol-Gel Nanopowder-Derived Lead-Free Piezoelectric Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} TiO ₃ Ceramics. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5641-5650.	2.0	1
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4413	Enhanced ferroelectric and piezoelectric properties of BCT-BZT at the morphotropic phase boundary driven by the coexistence of phases with different symmetries. <i>Physical Review B</i> , 2021, 104, .	1.1	26
4414	Dielectric and Piezoelectric Properties of PLZT x/40/60 (x = 5; 12) Ceramics. <i>Russian Microelectronics</i> , 2021, 50, 673-678.	0.1	0
4415	Piezoelectric property from processed crustacean shells. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	0
4416	Influence of annealing environments on the conduction behaviour of KNN-based ceramics. <i>Ceramics International</i> , 2022, , .	2.3	11
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4420	Octahedral distortion-driven phase transition, relaxation and conduction process of Zr/Sn modified barium titanate relaxors. <i>Ceramics International</i> , 2022, 48, 20858-20871.	2.3	6
4422	Grain Growth Behavior and Electrical Properties of 0.96(K _{0.46} Na _{0.54})Nb _{0.95} Sb _{0.05} O ₃ -0.04Bi _{0.5} (Na _{0.82} K _{0.18}) _{0.5} ZrO ₃ Ceramics. <i>Materials</i> , 2022, 15, 2357.	1.3	0

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