

Fang-Zhou Yao

List of Publications by Year in descending order

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citations

257101

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docs citations

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times ranked

2282
citing authors

#	ARTICLE	IF	CITATIONS
1	(K, Na)- NbO_3 -Based Lead-Free Piezoceramics: Fundamental Aspects, Processing Technologies, and Remaining Challenges. Journal of the American Ceramic Society, 2013, 96, 3677-3696.	1.9	737
2	High-Temperature Dielectric Materials for Electrical Energy Storage. Annual Review of Materials Research, 2018, 48, 219-243.	4.3	540
3	Temperature-Insensitive (K, Na)- NbO_3 -Based Lead-Free Piezoactuator Ceramics. Advanced Functional Materials, 2013, 23, 4079-4086.	7.8	494
4	Simultaneously achieved temperature-insensitive high energy density and efficiency in domain engineered BaTiO_3 - $\text{Bi}(\text{Mg}_{0.5}\text{Zr}_{0.5})\text{O}_3$ lead-free relaxor ferroelectrics. Nano Energy, 2018, 52, 203-210.	8.2	410
5	Diffused Phase Transition Boosts Thermal Stability of High-Performance Lead-Free Piezoelectrics. Advanced Functional Materials, 2016, 26, 1217-1224.	7.8	272
6	Multiscale structural engineering of dielectric ceramics for energy storage applications: from bulk to thin films. Nanoscale, 2020, 12, 17165-17184.	2.8	131
7	Multi-scale thermal stability of niobate-based lead-free piezoceramics with large piezoelectricity. Journal of Materials Chemistry C, 2015, 3, 8780-8787.	2.7	91
8	Nanoscale ferroelectric/relaxor composites: Origin of large strain in lead-free Bi -based incipient piezoelectric ceramics. Journal of the European Ceramic Society, 2016, 36, 3401-3407.	2.8	89
9	Bioinspired Hierarchically Structured All-Inorganic Nanocomposites with Significantly Improved Capacitive Performance. Advanced Functional Materials, 2020, 30, 2000191.	7.8	88
10	Ferroelectric domain morphology and temperature-dependent piezoelectricity of $(\text{K}, \text{Na}, \text{Li})(\text{Nb}, \text{Ta}, \text{Sb})\text{O}_3$ lead-free piezoceramics. RSC Advances, 2014, 4, 20062-20068.	1.7	80
11	Phase transition and high piezoelectricity in $(\text{Ba}, \text{Ca})(\text{Ti}_{1-x}\text{Sn}_x)\text{O}_3$ lead-free ceramics. Applied Physics Letters, 2013, 103, .	1.5	79
12	Enhanced bipolar fatigue resistance in CaZrO_3 -modified $(\text{K}, \text{Na})\text{NbO}_3$ lead-free piezoceramics. Applied Physics Letters, 2014, 104, .	1.5	77
13	Poling engineering of $(\text{K}, \text{Na})\text{NbO}_3$ -based lead-free piezoceramics with orthorhombic-tetragonal coexisting phases. Journal of Materials Chemistry C, 2017, 5, 549-556.	2.7	69
14	Fatigue-free unipolar strain behavior in CaZrO_3 and MnO_2 co-modified $(\text{K}, \text{Na})\text{NbO}_3$ -based lead-free piezoceramics. Applied Physics Letters, 2013, 103, .	1.5	60
15	Nanodomain Engineered $(\text{K}, \text{Na})\text{NbO}_3$ -Based Lead-Free Piezoceramics: Enhanced Thermal and Cycling Reliabilities. Journal of the American Ceramic Society, 2015, 98, 448-454.	1.9	57
16	Composition Inhomogeneity due to Alkaline Volatilization in Li -Modified (K, Na)- NbO_3 -Based Lead-Free Piezoceramics. Journal of the American Ceramic Society, 2013, 96, 2693-2695.	1.9	56
17	Effect of poling temperature on piezoelectricity of CaZrO_3 -modified $(\text{K}, \text{Na})\text{NbO}_3$ -based lead-free ceramics. Journal of Applied Physics, 2014, 116, .	1.1	51
18	Deciphering the phase transition-induced ultrahigh piezoresponse in $(\text{K}, \text{Na})\text{NbO}_3$ -based piezoceramics. Nature Communications, 2022, 13, .	5.8	39

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19	Intergranular Stress Induced Phase Transition in CaZrO_3 Modified KNN-Based Lead-Free Piezoelectrics. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1372-1376.	1.9	36
20	Refreshing Piezoelectrics: Distinctive Role of Manganese in Lead-Free Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37298-37306.	4.0	36
21	Comprehensive investigation of elastic and electrical properties of Li/Ta-modified (K,Na)NbO ₃ lead-free piezoceramics. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	34
22	(K, Na)NbO ₃ -based lead-free piezoceramics: one more step to boost applications. <i>National Science Review</i> , 2022, 9, .	4.6	29
23	Electromechanical properties of CaZrO_3 modified (K,Na)NbO ₃ -based lead-free piezoceramics under uniaxial stress conditions. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2116-2122.	1.9	27
24	Identifying phase transition behavior in $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ -BaTiO ₃ single crystals by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	26
25	Improving fatigue properties, temperature stability and piezoelectric properties of KNN-based ceramics via sintering in reducing atmosphere. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4462-4472.	2.8	26
26	Evolution of electromechanical properties in Fe-doped (Pb,Sr)(Zr,Ti)O ₃ piezoceramics. <i>Journal of Advanced Ceramics</i> , 2021, 10, 587-595.	8.9	20
27	Robust CaZrO_3 -modified (K, Na)NbO ₃ -based lead-free piezoceramics: High fatigue resistance insensitive to temperature and electric field. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	19
28	Grain size effect on microwave dielectric properties of Na ₂ WO ₄ ceramics prepared by cold sintering process. <i>Ceramics International</i> , 2020, 46, 27193-27198.	2.3	18
29	Piezoelectric properties of (K _{0.5} Na _{0.5})NbO ₃ -BaTiO ₃ lead-free ceramics prepared by spark plasma sintering. <i>Journal of Advanced Dielectrics</i> , 2016, 06, 1650013.	1.5	16
30	Ferroelectric and piezoelectric properties of 0.95(Na _{0.49} K _{0.49} Li _{0.02})(Nb _{0.8} Ta _{0.2})O ₃ -0.05CaZrO ₃ lead-free ceramics prepared by spark plasma sintering. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9329-9335.	1.1	12
31	Cold Sintering of Na ₂ WO ₄ Ceramics using a Na ₂ WO ₄ -2H ₂ O Chemistry. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6029-6034.	2.8	6
32	Heterogeneous multilayer dielectric ceramics enabled by ultralow-temperature self-constrained sintering. <i>Journal of the American Ceramic Society</i> , 2020, 103, 249-257.	1.9	5
33	All-Inorganic Nanocomposites: Bioinspired Hierarchically Structured All-Inorganic Nanocomposites with Significantly Improved Capacitive Performance (<i>Adv. Funct. Mater.</i> 23/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070149.	7.8	1