Jialiang Zhang

List of Publications by Year
in descending order

43 papers	1,648 citations	257450 24 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	1420 citing authors

#	Article	IF	Citations
1	Unfolding grain size effects in barium titanate ferroelectric ceramics. Scientific Reports, 2015, 5, 9953.	3.3	227
2	High piezoelectric properties and domain configuration in BaTiO₃ceramics obtained through the solid-state reaction route. Journal Physics D: Applied Physics, 2008, 41, 125408.	2.8	173
3	Remarkably Strong Piezoelectricity of Leadâ€Free (K_{0.45}Na_{0.55})_{0.98}Li_{0.02}(Nb_{0.77}Ta_{0.18}Sb<sub>0.05</s Ceramic. Journal of the American Ceramic Society, 2011, 94, 2968-2973.	3.8	123
4	Domain Configuration and Thermal Stability of (K_{0.48}Na_{0.52})(Nb_{0.96}Sb_{0.04})O₃â€“Bi_{0.50}(Na<sub>0.8 Piezoceramics with High <i>d</i>₃₃ Coefficient. ACS Applied Materials & Interfaces, 2016, 8, 7257-7265.	8.0	113
5	Study of poly(trimethylene terephthalate) as an engineering thermoplastics material. Journal of Applied Polymer Science, 2004, 91, 1657-1666.	2.6	93
6	Giant Dielectricâ€Permittivity Phenomena of Compositionally and Structurally CaCu₃Ti₄O₁₂â€Like Oxide Ceramics. Journal of the American Ceramic Society, 2009, 92, 2937-2943.	3.8	82
7	Domain configuration and piezoelectric properties of (K0.50Na0.50)1â^'Li (Nb0.80Ta0.20)O3 ceramics. Journal of the European Ceramic Society, 2014, 34, 4177-4184.	5.7	57
8	Domain Structure of Potassiumâ€Sodium Niobate Ceramics Before and After Poling. Journal of the American Ceramic Society, 2015, 98, 1027-1033.	3.8	53
9	A monoclinic-tetragonal ferroelectric phase transition in lead-free (K0.5Na0.5)NbO3-x%LiNbO3 solid solution. Journal of Applied Physics, 2012, 111, 103503.	2.5	52
10	On the origin of grain size effects in Ba(Ti0.96Sn0.04)O3 perovskite ceramics. Journal of the European Ceramic Society, 2019, 39, 2064-2075.	5.7	52
11	Study of domain structure of poled (K,Na)NbO3 ceramics. Journal of Applied Physics, 2013, 113, .	2.5	45
12	Remarkably strong piezoelectricity, rhombohedral-orthorhombic-tetragonal phase coexistence and domain structure of (K,Na)(Nb,Sb)O3â€"(Bi,Na)ZrO3â€"BaZrO3 ceramics. Journal of Alloys and Compounds, 2020, 820, 153411.	5.5	43
13	Enhancement of electric field-induced strain in BaTiO₃ceramics through grain size optimization. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 433-438.	1.8	40
14	Piezoelectric performance, phase transitions, and domain structure of 0.96(K0.48Na0.52)(Nb0.96Sb0.04)O3â^'0.04(Bi0.50Na0.50)ZrO3 ceramics. Journal of Applied Physics, 2018, 124, .	2.5	37
15	High piezoelectric performance and domain configurations of (K0.45Na0.55)0.98Li0.02Nb0.76Ta0.18Sb0.06O3 lead-free ceramics prepared by two-step sintering. Journal of the European Ceramic Society, 2019, 39, 287-294.	5.7	35
16	Giant piezoelectricity, rhombohedral-orthorhombic-tetragonal phase coexistence and domain configurations of (K,Na)(Nb,Sb)O3â€"BiFeO3â€"(Bi, Na)ZrO3 ceramics. Journal of the European Ceramic Society, 2020, 40, 1223-1231.	5.7	35
17	Influences of morphotropic phase boundaries on physical properties in (K,Na,Li)Nb0.80Ta0.20O3ceramics. Journal Physics D: Applied Physics, 2007, 40, 3527-3530.	2.8	34
18	Giant Dielectric Permittivity Properties and Relevant Mechanism of NaCu3Ti3SbO12 Ceramics. Journal of the American Ceramic Society, 2011, 94, 1067-1072.	3.8	34

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19	Impacts of acceptor doping on the piezoelectric properties and domain structure in NBT-based lead-free ceramics. Journal of the European Ceramic Society, 2017, 37, 3493-3500.	5.7	34
20	Highly temperature-stable piezoelectric properties of 0.96(K0.48Na0.52)(Nb0.96Sb0.04)O3â€“0.03BaZrO3â€“0.01(Bi0.50Na0.50)ZrO3 ceramic in common usage temperature range. Scripta Materialia, 2019, 162, 86-89.	5.2	29
21	Phase coexistence and high piezoelectric properties in (K0.40Na0.60)0.96Li0.04Nb0.80Ta0.20O3ceramics. Journal Physics D: Applied Physics, 2008, 41, 035402.	2.8	27
22	Notable grain-size dependence of converse piezoelectric effect in BaTiO 3 ceramics. Ceramics International, 2016, 42, 9815-9820.	4.8	27
23	Outstanding piezoelectric properties, phase transitions and domain configurations of 0.963(K0.48Na0.52)(Nb0.955Sb0.045)O3âˆ’0.037(Bi0.50Na0.50)HfO3 ceramics. Journal of Alloys and Compounds, 2019, 779, 800-804.	5.5	26
24	Domain Structure of Poled (K_{0.50}Na_{0.50})_{1âˆ’<i>x</i>}Li_{<i>x</i>}NbO₃ Ceramics with Different Stabilities. Journal of the American Ceramic Society, 2015, 98, 990-995.	3.8	25
25	Improvement of Physical Properties for <scp>KNN</scp>â€based Ceramics by Modified Twoâ€Step Sintering. Journal of the American Ceramic Society, 2014, 97, 759-764.	3.8	21
26	Large decrease of characteristic frequency of dielectric relaxation associated with domain-wall motion in Sb5+-modified (K,Na)NbO3-based ceramics. Applied Physics Letters, 2012, 101, .	3.3	20
27	Superior piezoelectricity and rhombohedral-orthorhombic-tetragonal phase coexistence of (1Ââˆ’Âx)(K,Na)(Nb,Sb)O3âˆ’x(Bi,Na)HfO3 ceramics. Scripta Materialia, 2020, 176, 108-111.	5.2	17
28	Effective nucleating chemical agents for the crystallization of poly(trimethylene terephthalate). Journal of Applied Polymer Science, 2004, 93, 590-601.	2.6	12
29	Novel 1â€“3 (K,Na)NbO3-based ceramic/epoxy composites with large thickness-mode electromechanical coupling coefficient and good temperature stability. Ceramics International, 2021, 47, 4643-4647.	4.8	12
30	Effects of nucleating agents on physical properties of poly(trimethylene terephthalate)/glass-fiber composites. Journal of Applied Polymer Science, 2005, 96, 883-893.	2.6	10
31	Enhanced piezoelectricity in plastically deformed nearly amorphous Bi12TiO20-BaTiO3 nanocomposites. Applied Physics Letters, 2016, 109, 032904.	3.3	10
32	HIGH PIEZOELECTRIC PERFORMANCE AND RELEVANT PHYSICAL MECHANISM OF CuO-MODIFIED Ba(Ti0.96Sn0.04)O3 CERAMICS. Journal of Advanced Dielectrics, 2011, 01, 79-84.	2.4	8
33	Comparative study of two (K,Na)NbO3-based piezoelectric ceramics. Journal of Applied Physics, 2014, 116, 104106.	2.5	6
34	Piezoelectricity and excellent temperature stability in nonferroelectric Bi12TiO20â€“CaTiO3 polar composite ceramics. RSC Advances, 2016, 6, 1182-1187.	3.6	6
35	Feasible acid-etching method for investigating temperature-dependent domain configurations of ferroelectric ceramics. Journal of the European Ceramic Society, 2020, 40, 4469-4474.	5.7	6
36	Ferroelectric relaxor as a critical state. Science in China Series D: Earth Sciences, 2009, 52, 123-126.	0.9	5

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37	Study of domain configurations in (Bi,Na)ZrO3-modified (K,Na)(Nb,Sb)O3 piezoelectric ceramics by acid-etching at different temperatures. Scientific Reports, 2020, 10, 18526.	3.3	5
38	Evolution of domain structure in 0.96(K0.48Na0.52)(Nb0.96Sb0.04)O30.04(Bi0.50Na0.50)ZrO3 ceramics with poling and temperature. Journal of Materiomics, 2022, 8, 9-17.	5.7	4
39	Piezoelectricity in non-ferroelectric Bi₁₂ TiO₂₀ -BaSnO₃ amorphous ceramics. Physica Status Solidi (B): Basic Research, 2015, 252, 2174-2178.	1.5	3
40	Large thickness-mode electromechanical coupling and good temperature stability of 1â€“3 PZT/epoxy composites. Journal of Materials Science: Materials in Electronics, 2021, 32, 4705-4712.	2.2	3
41	Alkaline-solution-induced crystallization in poly(butylene terephthalate). Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1938-1948.	2.1	2
42	Piezoelectric properties, phase transitions and domain structure of (Bi,Na)HfO3âˆ’modified (K,Na)(Nb,Sb)O3 ceramics. Materialia, 2021, 17, 101120.	2.7	2
43	Thermopower of an Oxide-Alloy Composite System Obtained by InÂSitu Carbothermal Synthesis. Journal of Electronic Materials, 2011, 40, 1190-1194.	2.2	0