# Jialiang Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9433269/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 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 | 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 |
| 2 | 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 |
| 3 | Piezoelectric properties, phase transitions and domain structure of (Bi,Na)HfO3â^'modified (K,Na)(Nb,Sb)O3 ceramics. Materialia, 2021, 17, 101120. | 2.7 | 2 |
| 4 | 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 |
| 5 | Superior piezoelectricity and rhombohedral-orthorhombic-tetragonal phase coexistence of (1Âˆ'Âx)(K,Na)(Nb,Sb)O3â^'x(Bi,Na)HfO3 ceramics. Scripta Materialia, 2020, 176, 108-111. | 5.2 | 17 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 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 | 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 |
| 12 | Outstanding piezoelectric properties, phase transitions and domain configurations of 0.963(K0.48Na0.52)(Nb0.955Sb0.045)O3â^'0.037(Bi0.50Na0.50)HfO3 ceramics. Journal of Alloys and Compounds, 2019, 779, 800-804. | 5.5 | 26 |
| 13 | 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 |
| 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 | 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 |
| 16 | Enhanced piezoelectricity in plastically deformed nearly amorphous Bi12TiO20-BaTiO3 nanocomposites. Applied Physics Letters, 2016, 109, 032904. | 3.3 | 10 |
| 17 | Domain Configuration and Thermal Stability of (K<sub>0.48</sub>Na<sub>0.52</sub>)(Nb<sub>0.96</sub>Sb<sub>0.04</sub>)O<sub>3</sub>â€“Bi<sub>0.50</sub>(Na<sub>0.8</sub> Piezoceramics with High d<sub>33</sub> Coefficient. ACS Applied Materials & Interfaces, 2016, 8, 7257-7265. | 8.0 | 113 |
| 18 | Notable grain-size dependence of converse piezoelectric effect in BaTiO 3 ceramics. Ceramics International, 2016, 42, 9815-9820. | 4.8 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Piezoelectricity and excellent temperature stability in nonferroelectric Bi12TiO20â€“CaTiO3 polar composite ceramics. RSC Advances, 2016, 6, 1182-1187. | 3.6 | 6 |
| 20 | Enhancement of electric field-induced strain in BaTiO<sub>3</sub>ceramics through grain size optimization. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 433-438. | 1.8 | 40 |
| 21 | Piezoelectricity in non-ferroelectric Bi<sub>12</sub> TiO<sub>20</sub> -BaSnO<sub>3</sub> amorphous ceramics. Physica Status Solidi (B): Basic Research, 2015, 252, 2174-2178. | 1.5 | 3 |
| 22 | Domain Structure of Poled (K<sub>0.50</sub>Na<sub>0.50</sub>)<sub>1â^'x</sub>Li<sub>x</sub>NbO<sub>3</sub> Ceramics with Different Stabilities. Journal of the American Ceramic Society, 2015, 98, 990-995. | 3.8 | 25 |
| 23 | Unfolding grain size effects in barium titanate ferroelectric ceramics. Scientific Reports, 2015, 5, 9953. | 3.3 | 227 |
| 24 | Domain Structure of Potassiumâ€“Sodium Niobate Ceramics Before and After Poling. Journal of the American Ceramic Society, 2015, 98, 1027-1033. | 3.8 | 53 |
| 25 | Comparative study of two (K,Na)NbO3-based piezoelectric ceramics. Journal of Applied Physics, 2014, 116, 104106. | 2.5 | 6 |
| 26 | 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 |
| 27 | 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 |
| 28 | Study of domain structure of poled (K,Na)NbO3 ceramics. Journal of Applied Physics, 2013, 113, . | 2.5 | 45 |
| 29 | 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 |
| 30 | 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 |
| 31 | Giant Dielectric Permittivity Properties and Relevant Mechanism of NaCu3Ti3SbO12 Ceramics. Journal of the American Ceramic Society, 2011, 94, 1067-1072. | 3.8 | 34 |
| 32 | Remarkably Strong Piezoelectricity of Leadâ€Free (K<sub>0.45</sub>Na<sub>0.55</sub>)<sub>0.98</sub>Li<sub>0.02</sub>(Nb<sub>0.77</sub>Ta<sub>0.18</sub>Sb<sub>0.05</sub> Ceramic. Journal of the American Ceramic Society, 2011, 94, 2968-2973. | 3.8 | 123 |
| 33 | Thermopower of an Oxide-Alloy Composite System Obtained by InÂSitu Carbothermal Synthesis. Journal of Electronic Materials, 2011, 40, 1190-1194. | 2.2 | 0 |
| 34 | 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 |
| 35 | Ferroelectric relaxor as a critical state. Science in China Series D: Earth Sciences, 2009, 52, 123-126. | 0.9 | 5 |
| 36 | Giant Dielectricâ€Permittivity Phenomena of Compositionally and Structurally CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub>â€Like Oxide Ceramics. Journal of the American Ceramic Society, 2009, 92, 2937-2943. | 3.8 | 82 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | High piezoelectric properties and domain configuration in BaTiO<sub>3</sub>ceramics obtained through the solid-state reaction route. Journal Physics D: Applied Physics, 2008, 41, 125408. | 2.8 | 173 |
| 39 | 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 |
| 40 | 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 |
| 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 | Study of poly(trimethylene terephthalate) as an engineering thermoplastics material. Journal of Applied Polymer Science, 2004, 91, 1657-1666. | 2.6 | 93 |
| 43 | Effective nucleating chemical agents for the crystallization of poly(trimethylene terephthalate). Journal of Applied Polymer Science, 2004, 93, 590-601. | 2.6 | 12 |