

Zhijun Xu

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73
papers

921
citations

15
h-index

28
g-index

79
ext. papers

1,049
ext. citations

3
avg, IF

4.08
L-index

| # | Paper | IF | Citations |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Piezoelectric and Dielectric Properties of $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Ti}_{0.95}\text{Zr}_{0.05})\text{O}_3$ Lead-Free Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2942-2944 | 3.8 | 151 |
| 72 | Large Piezoelectric Coefficient in $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Ti}_{0.96}\text{Sn}_{0.04})\text{O}_3$ Lead-Free Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4131-4133 | 3.8 | 80 |
| 71 | Electric field-induced ultrahigh strain and large piezoelectric effect in $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ -based lead-free piezoceramics. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 489-496 | 6 | 71 |
| 70 | Temperature Stability in Dy-Doped $(\text{Ba}_{0.99}\text{Ca}_{0.01})(\text{Ti}_{0.98}\text{Zr}_{0.02})\text{O}_3$ Lead-Free Ceramics with High Piezoelectric Coefficient. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3181-3183 | 3.8 | 57 |
| 69 | Lead-free electrostrictive $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3/(\text{Bi}_{0.5}\text{K}_{0.5})\text{TiO}_3/(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ ceramics with good thermostability and fatigue-free behavior. <i>Journal of Materials Science</i> , 2015 , 50, 5328-5336 | 4.3 | 43 |
| 68 | Large strain response and fatigue-resistant behavior in lead-free $\text{Bi}_{0.5}(\text{Na}_{0.80}\text{K}_{0.20})_{0.5}\text{TiO}_3/(\text{K}_{0.5}\text{Na}_{0.5})\text{MO}_3$ (M = Sb, Ta) ceramics. <i>RSC Advances</i> , 2015 , 5, 82605-82616 | 3.7 | 32 |
| 67 | Study on high temperature performances for bismuth layer-structured $(\text{Sr}_{1-x}\text{Ca}_x)_2\text{Bi}_4\text{Ti}_5\text{O}_{18}$ ($0 \leq x \leq 1$) ceramics. <i>Journal of Alloys and Compounds</i> , 2009 , 487, 585-590 | 5.7 | 28 |
| 66 | Bright upconversion emission and large strain in Er/Sb-codoped $(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.945}\text{Ba}_{0.065}\text{TiO}_3$ ceramics. <i>Materials Letters</i> , 2017 , 193, 138-141 | 3.3 | 23 |
| 65 | Low-temperature sintering and electrical properties of Co-doped ZnO varistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 3878-3884 | 2.1 | 23 |
| 64 | Structure and electrical properties of $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ -based lead-free piezoelectric ceramics. <i>RSC Advances</i> , 2015 , 5, 41646-41652 | 3.7 | 19 |
| 63 | Large strain response in (Mn,Sb)-modified $(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.935}\text{Ba}_{0.065}\text{TiO}_3$ lead-free piezoelectric ceramics. <i>Ceramics International</i> , 2016 , 42, 14886-14893 | 5.1 | 19 |
| 62 | Dielectric, ferroelectric and field-induced strain response of lead-free (Fe, Sb)-modified $(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.935}\text{Ba}_{0.065}\text{TiO}_3$ ceramics. <i>Ceramics International</i> , 2016 , 42, 9419-9425 | 5.1 | 18 |
| 61 | Dielectric, ferroelectric and piezoelectric properties of $\text{Ca}_{0.1}\text{Sr}_{0.9}\text{Bi}_2\text{Nb}_2\text{O}_9$ ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 8740-8746 | 2.1 | 17 |
| 60 | Strong photoluminescence and good electrical properties in Eu-modified $\text{SrBi}_2\text{Nb}_2\text{O}_9$ multifunctional ceramics. <i>Ceramics International</i> , 2016 , 42, 14849-14854 | 5.1 | 17 |
| 59 | Electric Field Cycling Induced Large Electrostrain in Aged $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3/\text{Lu}$ Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 402-405 | 3.8 | 17 |
| 58 | High strain in $(\text{Bi}_{1/2}\text{Na}_{1/2})_{0.935}\text{Ba}_{0.065}\text{TiO}_3/\text{Br}_3\text{FeNb}_2\text{O}_9$ lead-free ceramics with giant piezoresponse. <i>RSC Advances</i> , 2015 , 5, 90508-90514 | 3.7 | 14 |
| 57 | Poling effects on the structural, electrical and photoluminescence properties in Sm doped BCST piezoelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11312-11319 | 7.1 | 14 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 56 | A Novel Hybrid Method of Sol-Gel and Ultrasonic Atomization Synthesis and Piezoelectric Properties of SrBi ₄ Ti ₄ O ₁₅ Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 910-913 | 3.8 | 13 |
| 55 | Enhanced electrical properties of (Li,Ce) co-doped Sr(Na _{0.5} Bi _{0.5})Bi ₄ Ti ₅ O ₁₈ high temperature piezoceramics. <i>RSC Advances</i> , 2016 , 6, 33387-33392 | 3.7 | 13 |
| 54 | Domain evolution and corresponding piezoelectricity of lead-free In ₂ O ₃ -doped K _{0.5} Na _{0.5} NbO ₃ ceramics together with improved fatigue resistance and temperature stability. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019 , 243, 141-148 | 3.1 | 12 |
| 53 | The effect of SiO ₂ on electrical properties of low-temperature-sintered ZnO:Bi ₂ O ₃ :TiO ₂ :Co ₂ O ₃ :MnO ₂ -based ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1057-1064 | 3.8 | 10 |
| 52 | Enhanced thermal stability and fatigue resistance in MTiO ₃ -modified (K _{0.5} Na _{0.5}) _{0.94} Li _{0.06} NbO ₃ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 7867-7872 ¹ | 2.1 | 10 |
| 51 | Electrical properties and luminescence properties of 0.96(K _{0.48} Na _{0.52})(Nb _{0.95} Sb _{0.05}) _{0.04} Bi _{0.5} (Na _{0.82} K _{0.18}) _{0.5} ZrO ₃ -xSm lead-free ceramics. <i>Journal of Advanced Ceramics</i> , 2020 , 9, 72-82 | 10.7 | 10 |
| 50 | Varistor, Dielectric, and Luminescent Properties of Pr ₆ O ₁₁ -doped TiO ₂ Multifunctional Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2995-3001 | 3.8 | 10 |
| 49 | Effect of (Bi _{0.5} K _{0.5})TiO ₃ on the electrical properties, thermal and fatigue behavior of (K _{0.5} Na _{0.5})NbO ₃ -based lead-free piezoelectrics. <i>Journal of Materials Research</i> , 2015 , 30, 2018-2029 | 2.5 | 10 |
| 48 | Structure and electrical properties of the Ho ₂ O ₃ doped 0.82Bi _{0.5} Na _{0.5} TiO ₃ :0.18Bi _{0.5} K _{0.5} TiO ₃ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 2167-2172 ¹ | 2.1 | 10 |
| 47 | Enhanced temperature stability of modified (K _{0.5} Na _{0.5}) _{0.94} Li _{0.06} NbO ₃ lead-free piezoelectric ceramics. <i>Journal of Materials Science</i> , 2009 , 44, 6162-6166 | 4.3 | 9 |
| 46 | Low-temperature sintering of high potential gradient B ₂ O ₃ -doped ZnO varistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4997-5000 | 2.1 | 8 |
| 45 | Largely enhanced piezoelectric and luminescent properties of Er doped BST ceramics. <i>RSC Advances</i> , 2015 , 5, 91903-91907 | 3.7 | 8 |
| 44 | Strong red emission and enhanced ferroelectric properties in (Pr, Ce)-modified Na _{0.5} Bi _{4.5} Ti ₄ O ₁₅ multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 12216-12221 | 2.1 | 8 |
| 43 | Rational design of SnO ₂ aggregation nanostructure with uniform pores and its supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6143-6147 | 2.1 | 8 |
| 42 | Thermal stability and enhanced electrical properties of Er ³⁺ -modified Na _{0.5} Bi _{4.5} Ti ₄ O ₁₅ lead-free piezoelectric ceramics. <i>RSC Advances</i> , 2016 , 6, 94870-94875 | 3.7 | 8 |
| 41 | Temperature stability and electrical properties of Tm ₂ O ₃ doped KNN-based ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 4716-4725 | 2.1 | 7 |
| 40 | Strong photoluminescence and high piezoelectric properties of Eu-doped (Ba _{0.99} Ca _{0.01})(Ti _{0.98} Zr _{0.02})O ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16561-16569 | 2.1 | 7 |
| 39 | Electric Field-Induced Large Strain in Ni/Sb-co Doped (Bi _{0.5} Na _{0.5}) TiO ₃ -Based Lead-Free Ceramics. <i>Journal of Electronic Materials</i> , 2018 , 47, 1512-1518 | 1.9 | 7 |

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| 38 | SmAlO ₃ -modified (K _{0.5} Na _{0.5}) _{0.95} Li _{0.05} Sb _{0.05} Nb _{0.95} O ₃ lead-free ceramics with a wide sintering temperature range. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 1027-1031 | 3.1 | 6 |
| 37 | Rare-earth doped (K _{0.5} Na _{0.5})NbO ₃ multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 5288-5294 | 2.1 | 5 |
| 36 | Strong Photoluminescence and Improved Electrical Properties in Eu-Modified SrBi ₄ Ti ₄ O ₁₅ Multifunctional Ceramics. <i>Journal of Electronic Materials</i> , 2017 , 46, 4398-4404 | 1.9 | 5 |
| 35 | Bismuth layer-structured piezoelectric ceramics with high piezoelectric constant and high temperature stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5686-5689 | 2.1 | 5 |
| 34 | Lead-free rare earth-modified (K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.86} Ta _{0.15} Sb _{0.04})O ₃ ceramics: phase structure, electrical and photoluminescence properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4791-4800 | 2.1 | 5 |
| 33 | Enhanced electrical properties of lead-free (1-x)(K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.91} Ta _{0.05} Sb _{0.04})O ₃ -xSrZrO ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 6535-6541 | 2.1 | 5 |
| 32 | Preparation and electrical properties of SrBi ₂ -xSm _x Nb ₂ O ₉ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2114-2119 | 2.1 | 5 |
| 31 | Reddish orange-emitting and improved electrical properties of Sm ₂ O ₃ -doped SrBi ₄ Ti ₄ O ₁₅ multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16341-16347 | 2.1 | 5 |
| 30 | Structure and electrical properties of (1-x)(Na _{0.5} Bi _{0.5}) _{0.94} Ba _{0.06} TiO ₃ -xSmAlO ₃ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 122-127 | 2.1 | 4 |
| 29 | Nonlinear electrical properties of MnO ₂ -doped TiO ₂ capacitor varistor ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 7232-7237 | 2.1 | 4 |
| 28 | Structure and electrical properties of lead-free Sr _{1-x/2} (K,Ce) _{x/2} (Na _{0.5} Bi _{0.5})Bi ₄ Ti ₅ O ₁₈ piezoelectric ceramics. <i>RSC Advances</i> , 2016 , 6, 13803-13808 | 3.7 | 4 |
| 27 | Hydrothermal preparation and electrical properties of Aurivillius phase SrBi ₄ Ti ₄ O ₁₅ ceramic. <i>Ferroelectrics</i> , 2017 , 516, 148-155 | 0.6 | 4 |
| 26 | Improved piezoelectricity and high strain response of (1-x)(0.948K _{0.5} Na _{0.5} NbO ₃ -0.052LiSbO ₃)-xBi ₂ O ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 1211-1216 | 2.1 | 4 |
| 25 | DIELECTRIC AND FERROELECTRIC PROPERTIES OF (Li, Ce)-DOPED Sr ₂ Bi ₄ Ti ₅ O ₁₈ LEAD-FREE CERAMICS. <i>Journal of Advanced Dielectrics</i> , 2011 , 01, 439-445 | 1.3 | 4 |
| 24 | Strong up-conversion luminescence and electrical properties of SrBi ₄ Ti ₄ O ₁₅ multifunctional ceramics by Er ³⁺ doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 5840-5845 | 2.1 | 3 |
| 23 | (K _{0.5} Na _{0.5}) _{0.96} Li _{0.04} Nb _{0.86} Ta _{0.15} Sb _{0.04} O ₃ -xZrO ₃ ceramics with good fatigue-resistance and temperature-stable piezoelectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 13249-13258 | 2.1 | 3 |
| 22 | 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 | 1.9 | 3 |
| 21 | Impedance spectroscopy analysis for high-T _c BaTiO ₃ -(Bi ^{1/2} Na ^{1/2})TiO ₃ lead-free PTCR ceramics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1099-1104 | 1.6 | 3 |

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| 20 | Bright upconversion emission and enhanced piezoelectric properties in Er-modified bismuth layer-structured SrCaBi ₄ Ti ₅ O ₁₈ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 5259-5263 | 2.1 | 3 |
| 19 | Photoluminescence and electrical properties of SrSmAlO ₄ -doped (Bi _{0.5} Na _{0.5}) _{0.935} Ba _{0.065} TiO ₃ ferroelectric ceramics. <i>Ceramics International</i> , 2019 , 45, 5008-5014 | 5.1 | 3 |
| 18 | Strong red emission and enhanced electrostrain in (Bi _{0.5} Na _{0.5}) _{0.935} Pr _x Ba _{0.065} Ti _{1-x} Sb _x O ₃ lead-free multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 13810-13817 ³ | 2.1 | 3 |
| 17 | Strong red emission and enhanced electrical properties in Pr-doped SrBi ₄ Ti ₄ O ₁₅ multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 17890-17898 | 2.1 | 2 |
| 16 | Investigation of structural and electrical properties of B-site complex ion (Nd _{1/2} Ta _{1/2}) ₄₊ -doped Bi _{1/2} Na _{1/2} TiO ₃ lead-free piezoelectric ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5409-5415 | 2.1 | 2 |
| 15 | Microstructure and piezoelectric properties of Ho ₂ O ₃ doped (K _{0.4} Na _{0.6}) _{0.95} Li _{0.05} Nb _{0.95} Sb _{0.05} O ₃ lead-free ceramics near the rhombohedral/rthorhombic phase boundary. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9654-9660 | 2.1 | 2 |
| 14 | Influence of B-site non-stoichiometry on electrical properties of (K _{0.458} Na _{0.542}) _{0.96} Li _{0.04} Nb _{0.85} Ta _{0.15} Sb _x O ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1197-1200 | 2.1 | 2 |
| 13 | Properties of B-site non-stoichiometric (K _{0.5} Na _{0.5})(Nb _{0.9} Ta _{0.1}) _{1+x} O ₃ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1085-1088 | 2.1 | 2 |
| 12 | Ho-doped SrBi ₂ Nb ₂ O ₉ multifunctional ceramics with bright green emission and good electrical properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1700276 | 1.6 | 2 |
| 11 | Single-Calcination Synthesis of Pyrochlore Free Pb(Mg _{1/3} Nb _{2/3})O ₃ Powders Using Particle-Coating Method. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 18-21 | 3.8 | 2 |
| 10 | Effect of SmAlO ₃ doping on the properties of (1-x)(K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.91} Ta _{0.05} Sb _{0.04})O ₃ lead-free ceramics. <i>Journal of Electroceramics</i> , 2019 , 42, 74-78 | 1.5 | 2 |
| 9 | Influence of orientation on dielectric and ferroelectric properties of the BNT-BT-ST Thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 20952-20958 | 2.1 | 2 |
| 8 | Crystallization evolution and ferroelectric behavior of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ -based thin films prepared by rf-magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8974-8979 ¹ | 2.1 | 1 |
| 7 | Enhancement of up-conversion emission and field-induced strain in BNT-based multifunctional ceramics doping with LiNbO ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 9579-9585 | 2.1 | 1 |
| 6 | Enhancement of field-induced strain and bright upconversion luminescence in BNT-based multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 21632-21639 | 2.1 | 1 |
| 5 | Enhanced dielectric and piezoelectric properties of (100) oriented Bi _{0.5} Na _{0.5} TiO ₃ BaTiO ₃ BrTiO ₃ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 8911-8915 | 2.1 | 1 |
| 4 | Effect of BiO content on the microstructure and electrical properties of SrBiNbO piezoelectric ceramics.. <i>RSC Advances</i> , 2018 , 8, 15613-15620 | 3.7 | 1 |
| 3 | Electrical and luminescence properties, and energy band structure of SrBi ₂ -Er Nb ₂ O ₉ multifunctional ceramics. <i>Ceramics International</i> , 2021 , 47, 30938-30946 | 5.1 | 1 |

- 2 Photoluminescence, electrical properties and electron band structure of (Ho, Yb)³⁺ co-doped SrBi₄Ti₄O₁₅ multifunctional ceramics. *Ceramics International*, **2022**, 48, 9248-9257 5.1 0
- 1 Thickness dependent dielectric and piezoelectric properties of BNT/BTBT thin films. *Ferroelectrics*, **2017**, 516, 140-147 0.6