

Ruiqing Chu

List of Publications by Year in descending order

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76
papers

1,111
citations

471371

17
h-index

454834

30
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78
all docs

78
docs citations

78
times ranked

935
citing authors

#	ARTICLE	IF	CITATIONS
1	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. Journal of the American Ceramic Society, 2010, 93, 2942-2944.	1.9	174
2	Large Piezoelectric Coefficient in $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Ti}_{0.96}\text{Zr}_{0.04})\text{O}_3$ Lead-Free Ceramics. Journal of the American Ceramic Society, 2011, 94, 4131-4133.	1.9	108
3	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. Journal of the American Ceramic Society, 2011, 94, 3181-3183.	1.9	66
4	Bright reddish-orange emission and good piezoelectric properties of Sm_2O_3 -modified $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ -based lead-free piezoelectric ceramics. Journal of Applied Physics, 2015, 117, .	1.1	48
5	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. Journal of Materials Science, 2015, 50, 5328-5336.	1.7	48
6	Large electric-field-induced strain in SrZrO_3 modified $\text{Bi}_{0.5}(\text{Na}_{0.8}\text{K}_{0.2})\text{O}_5\text{TiO}_3$ lead-free electromechanical ceramics with fatigue-resistant behavior. Journal of Alloys and Compounds, 2015, 647, 857-865.	2.8	47
7	Large strain response and fatigue-resistant behavior in lead-free $\text{Bi}_{0.5}(\text{Na}_{0.8}\text{K}_{0.2})\text{TiO}_3$ $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ (M = Sb, Ta) ceramics. RSC Advances, 2015, 5, 82605-82616.	1.1	65
8	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. Journal of Alloys and Compounds, 2009, 487, 585-590.	2.8	31
9	Low-temperature sintering and electrical properties of Co-doped ZnO varistors. Journal of Materials Science: Materials in Electronics, 2014, 25, 3878-3884.	1.1	27
10	Electrical properties and luminescence properties of $0.96(\text{K}_{0.48}\text{Na}_{0.52})(\text{Nb}_{0.95}\text{Sb}_{0.05})_2\text{O}_7 \cdot 0.04\text{Bi}_{0.5}(\text{Na}_{0.82}\text{K}_{0.18})\text{O}_5\text{ZrO}_3$ -xSm lead-free ceramics. Journal of Advanced Ceramics, 2020, 9, 72-82.	8.9	27
11	Poling effects on the structural, electrical and photoluminescence properties in Sm doped BCST piezoelectric ceramics. Journal of Materials Chemistry C, 2018, 6, 11312-11319.	2.7	23
12	Electric Field Cycling Induced Large Electrostrain in Aged $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ Cu Lead-Free Piezoelectric Ceramics. Journal of the American Ceramic Society, 2016, 99, 402-405.	1.9	22
13	Strong photoluminescence and good electrical properties in Eu-modified $\text{SrBi}_2\text{Nb}_2\text{O}_9$ multifunctional ceramics. Ceramics International, 2016, 42, 14849-14854.	2.3	22
14	Structure and electrical properties of $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ -based lead-free piezoelectric ceramics. RSC Advances, 2015, 5, 41646-41652.	1.7	19
15	Dielectric, ferroelectric and piezoelectric properties of $\text{Ca}_{0.1}\text{Sr}_{0.9}\text{Bi}_2\text{Nb}_2\text{O}_9$ ceramic. Journal of Materials Science: Materials in Electronics, 2015, 26, 8740-8746.	1.1	18
16	Preparation and electrical properties of $(\text{La}_x)\text{SrBi}_2\text{Nb}_2\text{O}_9$ BiFeO_3 lead-free piezoelectric ceramics. Ceramics International, 2016, 42, 5391-5396.	2.3	18
17	The effect of SiO_2 on electrical properties of low-temperature sintered ZnO (Bi_2O_3) (Ti_2O_3) (Co_2O_3) (MnO_2) based ceramics. Journal of the American Ceramic Society, 2017, 100, 1057-1064.	1.1	18
18	Enhanced electrical properties of (Li,Ce) co-doped $\text{Sr}(\text{Na}_{0.5}\text{Bi}_{0.5})\text{Bi}_4\text{Ti}_5\text{O}_{18}$ high temperature piezoceramics. RSC Advances, 2016, 6, 33387-33392.	1.7	16

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19	Effect of $(\text{Bi}_{0.5}\text{K}_{0.5})\text{TiO}_3$ on the electrical properties, thermal and fatigue behavior of $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ -based lead-free piezoelectrics. <i>Journal of Materials Research</i> , 2015, 30, 2018-2029.	1.2	14
20	High strain in $(\text{Bi}_{1/2}\text{Na}_{1/2})_{0.935}\text{Ba}_{0.065}\text{TiO}_3$ "Sr ₃ FeNb ₂ lead-free ceramics with giant piezoresponse. <i>RSC Advances</i> , 2015, 5, 90508-90514.		
21	Varistor, Dielectric, and Luminescent Properties of Pr_6O_{11} -doped TiO_2 Multifunctional Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2995-3001.	1.9	14
22	Structure and piezoelectric properties of $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Ti}_{0.95}\text{Hf}_{0.05})\text{O}_3$ lead-free ceramics. <i>Materials Research Bulletin</i> , 2018, 97, 334-342.	2.7	14
23	A Novel Hybrid Method of Sol-Gel and Ultrasonic Atomization Synthesis and Piezoelectric Properties of $\text{SrBi}_4\text{Ti}_4\text{O}_{15}$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2008, 91, 910-913.	1.9	13
24	Processing and enhanced electrical properties of $\text{Sr}_{1-(\text{K}_{0.5}\text{Bi}_{0.5})}\text{Bi}_2\text{Nb}_2\text{O}_9$ lead-free piezoelectric ceramics. <i>Ceramics International</i> , 2016, 42, 10619-10623.	2.3	13
25	Structure and electrical properties of the Ho_2O_3 doped $0.82\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ " $0.18\text{Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3$ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 2167-2172.	1.1	12
26	Preparation and electrical properties of MoO_3 -modified $\text{SrBi}_2\text{Nb}_2\text{O}_9$ -based lead-free piezoelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2016, 666, 10-14.	2.8	12
27	Thermal stability and enhanced electrical properties of Er^{3+} -modified $\text{Na}_{0.5}\text{Bi}_{4.5}\text{Ti}_4\text{O}_{15}$ lead-free piezoelectric ceramics. <i>RSC Advances</i> , 2016, 6, 94870-94875.	1.7	11
28	Strong photoluminescence and high piezoelectric properties of Eu -doped $(\text{Ba}_{0.99}\text{Ca}_{0.01})(\text{Ti}_{0.98}\text{Zr}_{0.02})\text{O}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16561-16569.	1.1	11
29	SmAlO_3 -modified $(\text{K}_{0.5}\text{Na}_{0.5})_{0.95}\text{Li}_{0.05}\text{Sb}_{0.05}\text{Nb}_{0.95}\text{O}_3$ 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.	1.7	10
30	Low-temperature sintering of high potential gradient B_2O_3 -doped ZnO varistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4997-5000.	1.1	10
31	Enhanced thermal stability and fatigue resistance in MTiO_3 -modified $(\text{K}_{0.5}\text{Na}_{0.5})_{0.94}\text{Li}_{0.06}\text{NbO}_3$ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7867-7872.	1.1	10
32	Largely enhanced piezoelectric and luminescent properties of Er doped BST ceramics. <i>RSC Advances</i> , 2015, 5, 91903-91907.	1.7	10
33	Electric field-induced giant strain and piezoelectricity enhancement effect in $(\text{Bi}_{1/2}\text{Na}_{1/2})_{0.935}\text{Ba}_{0.065}\text{Ti}_4(\text{Pr}_{1/2}\text{Nb}_{1/2})\text{O}_3$ lead-free ceramics. <i>Ceramics International</i> , 2016, 42, 4354-4360.	2.3	10
34	Enhanced temperature stability of modified $(\text{K}_{0.5}\text{Na}_{0.5})_{0.94}\text{Li}_{0.06}\text{NbO}_3$ lead-free piezoelectric ceramics. <i>Journal of Materials Science</i> , 2009, 44, 6162-6166.	1.7	9
35	Strong red emission and enhanced ferroelectric properties in (Pr, Ce) -modified $\text{Na}_{0.5}\text{Bi}_{4.5}\text{Ti}_4\text{O}_{15}$ multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12216-12221.	1.1	9
36	Preparation and electrical properties of $\text{SrBi}_{2-x}\text{Sm}_x\text{Nb}_2\text{O}_9$ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2114-2119.	1.1	8

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37	Reddish orange-emitting and improved electrical properties of Sm ₂ O ₃ -doped SrBi ₄ Ti ₄ O ₁₅ multifunctional ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 16341-16347.	1.1	8
38	Electric Field-Induced Large Strain in Ni/Sb-co Doped (Bi _{0.5} Na _{0.5}) TiO ₃ -Based Lead-Free Ceramics. Journal of Electronic Materials, 2018, 47, 1512-1518.	1.0	8
39	Citrate-oxide method to prepare SrBi ₄ Ti ₄ O ₁₅ powders and ceramics. Journal of Alloys and Compounds, 2009, 479, 500-504.	2.8	7
40	Electrical properties and thermal stability of Na _{0.5} Bi _{4.5} (La _{0.5} Ce _{0.5}) Ti ₄ O ₁₅ Aurivillius ceramics. Materials Letters, 2016, 180, 252-255.	1.3	7
41	Rare-earth doped (K _{0.5} Na _{0.5})NbO ₃ multifunctional ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 5288-5294.	1.1	7
42	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. Journal of Materials Science: Materials in Electronics, 2017, 28, 1211-1216.	1.1	7
43	Bright green emission and enhanced electrical properties in SrBi ₄ -Ho Ti ₄ O ₁₅ multifunctional ceramics. Materials Chemistry and Physics, 2018, 203, 82-88.	2.0	7
44	Hydrothermal preparation and electrical properties of Aurivillius phase SrBi ₄ Ti ₄ O ₁₅ ceramic. Ferroelectrics, 2017, 516, 148-155.	0.3	6
45	Electrical and luminescence properties, and energy band structure of SrBi ₂ -Er Nb ₂ O ₉ multifunctional ceramics. Ceramics International, 2021, 47, 30938-30946.	2.3	6
46	DIELECTRIC AND FERROELECTRIC PROPERTIES OF (Li, Ce)-DOPED Sr ₂ Bi ₄ Ti ₅ O ₁₈ LEAD-FREE CERAMICS. Journal of Advanced Dielectrics, 2011, 01, 439-445.	1.5	5
47	Bismuth layer-structured piezoelectric ceramics with high piezoelectric constant and high temperature stability. Journal of Materials Science: Materials in Electronics, 2015, 26, 5686-5689.	1.1	5
48	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. Journal of Materials Science: Materials in Electronics, 2016, 27, 6535-6541.	1.1	5
49	Strong Photoluminescence and Improved Electrical Properties in Eu-Modified SrBi ₄ Ti ₄ O ₁₅ Multifunctional Ceramics. Journal of Electronic Materials, 2017, 46, 4398-4404.	1.0	5
50	Ho-doped SrBi ₂ Nb ₂ O ₉ multifunctional ceramics with bright green emission and good electrical properties. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700276.	0.8	5
51	Strong red emission and enhanced electrical properties in Pr-doped SrBi ₄ Ti ₄ O ₁₅ multifunctional ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 17890-17898.	1.1	5
52	Sm-modified bismuth layer-structured SrBi ₂ Nb ₂ O ₉ multifunctional ceramics with enhanced electrical properties and good photoluminescence properties. Ceramics International, 2022, 48, 18989-18998.	2.3	5
53	Impedance spectroscopy analysis for high-T _c BaTiO ₃ (Bi _{1/2} Na _{1/2})TiO ₃ lead-free PTCR ceramics. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1099-1104.	0.8	4
54	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. Journal of Materials Science: Materials in Electronics, 2015, 26, 122-127.	1.1	4

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55	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. Journal of Materials Science: Materials in Electronics, 2015, 26, 5409-5415.	1.1	4
56	Nonlinear electrical properties of MnO ₂ -doped TiO ₂ capacitor varistor ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 7232-7237.	1.1	4
57	(K _{0.5} Na _{0.5}) _{0.96} Li _{0.04} Nb _{0.86} Ta _{0.14} Sb _{0.04} O ₃ SrZrO ₃ ceramics with good fatigue-resistance and temperature-stable piezoelectric properties. Journal of Materials Science: Materials in Electronics, 2016, 27, 13249-13258.	1.1	4
58	Structure and electrical properties of lead-free Sr _{1-x} (K,Ce) _{x/2} (Na _{0.5} Bi _{0.5}) ₂ Ti ₅ O ₁₈ piezoelectric ceramics. RSC Advances, 2016, 6, 13803-13808.	1.1	4
59	Strong up-conversion luminescence and electrical properties of SrBi ₄ Ti ₄ O ₁₅ multifunctional ceramics by Er ³⁺ doping. Journal of Materials Science: Materials in Electronics, 2017, 28, 5840-5845.	1.1	4
60	Strong red emission and enhanced electrostrain in (Bi _{0.5} Na _{0.5}) _{0.935} P _x Ba _{0.065} Ti _{1-x} Sb _x O ₃ lead-free multifunctional ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 13810-13817.	1.1	4
61	Bright upconversion emission and enhanced piezoelectric properties in Er-modified bismuth layer-structured SrCaBi ₄ Ti ₅ O ₁₈ ceramics. Journal of Materials Science: Materials in Electronics, 2016, 27, 5259-5263.	1.1	3
62	Improved Piezoelectricity in (K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.91} Ta _{0.05} Sb _{0.04})O _{3-x} Bi _{0.25} Na _{0.25} NbO ₃ Lead-Free Piezoelectric Ceramics. Journal of Electronic Materials, 2017, 46, 116-122.	1.0	3
63	Effect of Bi ₂ O ₃ content on the microstructure and electrical properties of SrBi ₂ Nb ₂ O ₉ piezoelectric ceramics. RSC Advances, 2018, 8, 15613-15620.	1.7	3
64	Single-Step Calcination Synthesis of Pyrochlore Free Pb(Mg _{1/3} Nb _{2/3})O ₃ Powders Using Particle Coating Method. Journal of the American Ceramic Society, 2010, 93, 18-21.	1.9	2
65	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. Journal of Materials Science: Materials in Electronics, 2014, 25, 1085-1088.	1.1	2
66	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-orthorhombic phase boundary. Journal of Materials Science: Materials in Electronics, 2015, 26, 9654-9660.	1.1	2
67	Enhanced dielectric and piezoelectric properties of (100) oriented Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ -SrTiO ₃ thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 8911-8915.	1.1	2
68	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. Journal of Materials Science: Materials in Electronics, 2016, 27, 1197-1200.	1.1	2
69	Influence of orientation on dielectric and ferroelectric properties of the BNT-BT-ST Thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 20952-20958.	1.1	2
70	Crystallization evolution and ferroelectric behavior of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ -based thin films prepared by rf-magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2019, 30, 8974-8979.	1.1	2
71	Enhancement of up-conversion emission and field-induced strain in BNT-based multifunctional ceramics doping with LiNbO ₃ . Journal of Materials Science: Materials in Electronics, 2020, 31, 9579-9585.	1.1	2
72	Photoluminescence, electrical properties and electron band structure of (Ho, Yb) ³⁺ co-doped SrBi ₄ Ti ₄ O ₁₅ multifunctional ceramics. Ceramics International, 2022, 48, 9248-9257.	2.3	2

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73	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.	1.1	1
74	Structure and electrical properties of Ho-modified $\text{Sr}_{0.2}\text{Bi}_{0.4}\text{Ti}_{0.5}\text{O}_{18}$; Lead-free piezoelectric ceramics. , 2011, , .		0
75	Structure and electrical properties of (La,Ta)-doped $(\text{K}_{0.5}\text{Na}_{0.5})_{0.94}\text{Li}_{0.06}\text{Nb}_{0.95}$ ceramic. , 2011, , .		
76	Thickness dependent dielectric and piezoelectric properties of BNT δ -BT δ -ST thin films. <i>Ferroelectrics</i> , 2017, 516, 140-147.	0.3	0