

# Ruiqing Chu

## List of Publications by Year in descending order

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76  
papers

1,111  
citations

535685

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docs citations

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times ranked

1056  
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#	ARTICLE	IF	CITATIONS
1	Sm-modified bismuth layer-structured SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> multifunctional ceramics with enhanced electrical properties and good photoluminescence properties. <i>Ceramics International</i> , 2022, 48, 18989-18998.	2.3	5
2	Photoluminescence, electrical properties and electron band structure of (Ho, Yb) <sub>3+</sub> co-doped SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> multifunctional ceramics. <i>Ceramics International</i> , 2022, 48, 9248-9257.	2.3	2
3	Electrical and luminescence properties, and energy band structure of SrBi <sub>2</sub> -Er Nb <sub>2</sub> O <sub>9</sub> multifunctional ceramics. <i>Ceramics International</i> , 2021, 47, 30938-30946.	2.3	6
4	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
5	Enhancement of up-conversion emission and field-induced strain in BNT-based multifunctional ceramics doping with LiNbO <sub>3</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 9579-9585.	1.1	2
6	Electrical properties and luminescence properties of 0.96(K <sub>0.48</sub> Na <sub>0.52</sub> )(Nb <sub>0.95</sub> Sb <sub>0.05</sub> ) $\hat{\wedge}$ 0.04Bi <sub>0.5</sub> (Na <sub>0.82</sub> K <sub>0.18</sub> ) <sub>0.5</sub> ZrO <sub>3</sub> -xSm lead-free ceramics. <i>Journal of Advanced Ceramics</i> , 2020, 9, 72-82.	8.9	27
7	Strong red emission and enhanced electrical properties in Pr-doped SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17890-17898.	1.1	5
8	Crystallization evolution and ferroelectric behavior of Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> -based thin films prepared by rf-magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8974-8979.	1.1	2
9	Structure and piezoelectric properties of (Ba 1 $\hat{\sim}$ x Ca x )(Ti 0.95 Hf 0.05 )O 3 lead-free ceramics. <i>Materials Research Bulletin</i> , 2018, 97, 334-342.	2.7	14
10	Bright green emission and enhanced electrical properties in SrBi <sub>4</sub> -Ho Ti <sub>4</sub> O <sub>15</sub> multifunctional ceramics. <i>Materials Chemistry and Physics</i> , 2018, 203, 82-88.	2.0	7
11	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.	2.7	23
12	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.	1.1	2
13	Effect of Bi <sub>2</sub> O <sub>3</sub> content on the microstructure and electrical properties of SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> piezoelectric ceramics. <i>RSC Advances</i> , 2018, 8, 15613-15620.	1.7	3
14	Strong red emission and enhanced electrostrain in (Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.935</sub> $\hat{\sim}$ xPrxBa <sub>0.065</sub> Ti <sub>1</sub> $\hat{\sim}$ xSbxO <sub>3</sub> lead-free multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13810-13817.	1.1	4
15	Electric Field-Induced Large Strain in Ni/Sb-co Doped (Bi <sub>0.5</sub> Na <sub>0.5</sub> ) TiO <sub>3</sub> -Based Lead-Free Ceramics. <i>Journal of Electronic Materials</i> , 2018, 47, 1512-1518.	1.0	8
16	Strong up-conversion luminescence and electrical properties of SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> multifunctional ceramics by Er <sup>3+</sup> doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5840-5845.	1.1	4
17	Rare-earth doped (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5288-5294.	1.1	7
18	Strong Photoluminescence and Improved Electrical Properties in Eu-Modified SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> Multifunctional Ceramics. <i>Journal of Electronic Materials</i> , 2017, 46, 4398-4404.	1.0	5

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19	The effect of SiO <sub>2</sub> on electrical properties of low-temperature sintered Zn <sub>0.9</sub> Bi <sub>2</sub> O <sub>3</sub> –TiO <sub>2</sub> –Co <sub>2</sub> O <sub>3</sub> –MnO <sub>2</sub> based ceramics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1057-1064.		
20	Ho-doped SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> multifunctional ceramics with bright green emission and good electrical properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700276.	0.8	5
21	Reddish orange-emitting and improved electrical properties of Sm <sub>2</sub> O <sub>3</sub> -doped SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16341-16347.	1.1	8
22	Strong photoluminescence and high piezoelectric properties of Eu-doped (Ba <sub>0.99</sub> Ca <sub>0.01</sub> )(Ti <sub>0.98</sub> Zr <sub>0.02</sub> )O <sub>3</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16561-16569.	1.1	11
23	Thickness dependent dielectric and piezoelectric properties of BNT–BT–ST thin films. <i>Ferroelectrics</i> , 2017, 516, 140-147.	0.3	0
24	Hydrothermal preparation and electrical properties of Aurivillius phase SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> ceramic. <i>Ferroelectrics</i> , 2017, 516, 148-155.	0.3	6
25	Improved Piezoelectricity in (K <sub>0.44</sub> Na <sub>0.52</sub> Li <sub>0.04</sub> )(Nb <sub>0.91</sub> Ta <sub>0.05</sub> Sb <sub>0.04</sub> )O <sub>3-x</sub> Bi <sub>0.25</sub> Na <sub>0.25</sub> NbO <sub>3</sub> Lead-Free Piezoelectric Ceramics. <i>Journal of Electronic Materials</i> , 2017, 46, 116-122.	1.0	3
26	Improved piezoelectricity and high strain response of (1-x)(0.948K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> –0.052LiSbO <sub>3</sub> )–xBi <sub>2</sub> O <sub>3</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1211-1216.	1.1	7
27	Electric Field Cycling Induced Large Electrostrain in Aged (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> –Cu Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 402-405.	1.9	22
28	Enhanced electrical properties of (Li,Ce) co-doped Sr(Na <sub>0.5</sub> Bi <sub>0.5</sub> )Bi <sub>4</sub> Ti <sub>5</sub> O <sub>18</sub> high temperature piezoceramics. <i>RSC Advances</i> , 2016, 6, 33387-33392.	1.7	16
29	Bright upconversion emission and enhanced piezoelectric properties in Er-modified bismuth layer-structured SrCaBi <sub>4</sub> Ti <sub>5</sub> O <sub>18</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5259-5263.	1.1	3
30	Enhanced dielectric and piezoelectric properties of (100) oriented Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> –BaTiO <sub>3</sub> –SrTiO <sub>3</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8911-8915.	1.1	2
31	Thermal stability and enhanced electrical properties of Er <sup>3+</sup> -modified Na <sub>0.5</sub> Bi <sub>4.5</sub> Ti <sub>4</sub> O <sub>15</sub> lead-free piezoelectric ceramics. <i>RSC Advances</i> , 2016, 6, 94870-94875.	1.7	11
32	Strong photoluminescence and good electrical properties in Eu-modified SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> multifunctional ceramics. <i>Ceramics International</i> , 2016, 42, 14849-14854.	2.3	22
33	Electrical properties and thermal stability of Na <sub>0.5</sub> Bi <sub>4.5</sub> (La <sub>0.5</sub> Ce <sub>0.5</sub> )Ti <sub>4</sub> O <sub>15</sub> Aurivillius ceramics. <i>Materials Letters</i> , 2016, 180, 252-255.	1.3	7
34	Strong red emission and enhanced ferroelectric properties in (Pr, Ce)-modified Na <sub>0.5</sub> Bi <sub>4.5</sub> Ti <sub>4</sub> O <sub>15</sub> multifunctional ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12216-12221.	1.1	9
35	(K <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.96</sub> Li <sub>0.04</sub> Nb <sub>0.86</sub> Ta <sub>0.1</sub> Sb <sub>0.04</sub> O <sub>3</sub> –SrZrO <sub>3</sub> ceramics with good fatigue-resistance and temperature-stable piezoelectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 13249-13258.	1.1	4
36	Varistor, Dielectric, and Luminescent Properties of Pr <sub>6</sub> O <sub>11</sub> -doped TiO <sub>2</sub> Multifunctional Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2995-3001.	1.9	14

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37	Electric field-induced giant strain and piezoelectricity enhancement effect in $(\text{Bi}_{1/2}\text{Na}_{1/2})_{0.935}\text{Ba}_{0.065}\text{Ti}_{1-x}(\text{Pr}_{1/2}\text{Nb}_{1/2})\text{O}_3$ lead-free ceramics. <i>Ceramics International</i> , 2016, 42, 4354-4360.	2.3	10
38	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
39	Preparation and electrical properties of $\text{MoO}_3$ -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
40	Structure and electrical properties of lead-free $\text{Sr}_{1-x}(\text{K,Ce})_{x/2}(\text{Na}_{0.5}\text{Bi}_{0.5})\text{Bi}_{4-x}\text{Ti}_{5-x}\text{O}_{18.5}$ piezoelectric ceramics. <i>RSC Advances</i> , 2016, 6, 13803-13808.	0.7	184
41	Enhanced electrical properties of lead-free $(1-x)(\text{K}_{0.44}\text{Na}_{0.52}\text{Li}_{0.04})(\text{Nb}_{0.91}\text{Ta}_{0.05}\text{Sb}_{0.04})\text{O}_3-x\text{SrZrO}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 6535-6541.	1.1	5
42	Preparation and electrical properties of $(1-x)\text{SrBi}_2\text{Nb}_2\text{O}_9-x\text{BiFeO}_3$ lead-free piezoelectric ceramics. <i>Ceramics International</i> , 2016, 42, 5391-5396.	2.3	18
43	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
44	Influence of B-site non-stoichiometry on electrical properties of $(\text{K}_{0.458}\text{Na}_{0.542})_{0.96}\text{Li}_{0.04}\text{Nb}_{0.85}\text{Ta}_{0.15}\text{Sb}_x\text{O}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1197-1200.	1.1	2
45	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
46	Bright reddish-orange emission and good piezoelectric properties of $\text{Sm}_2\text{O}_3$ -modified $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ -based lead-free piezoelectric ceramics. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	48
47	Structure and electrical properties of $(1-x)(\text{Na}_{0.5}\text{Bi}_{0.5})_{0.94}\text{Ba}_{0.06}\text{TiO}_3-x\text{SmAlO}_3$ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 122-127.	1.1	4
48	Low-temperature sintering of high potential gradient $\text{B}_2\text{O}_3$ -doped $\text{ZnO}$ varistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4997-5000.	1.1	10
49	Enhanced thermal stability and fatigue resistance in $\text{MTiO}_3$ -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
50	Large electric-field-induced strain in $\text{SrZrO}_3$ modified $\text{Bi}_{0.5}(\text{Na}_{0.8}\text{K}_{0.2})_{0.5}\text{TiO}_3$ lead-free electromechanical ceramics with fatigue-resistant behavior. <i>Journal of Alloys and Compounds</i> , 2015, 647, 857-865.	2.8	47
51	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.	1.7	19
52	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.	1.7	48
53	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.	1.1	5
54	Investigation of structural and electrical properties of B-site complex ion $(\text{Nd}_{1/2}\text{Ta}_{1/2})_{4+}$ -doped $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ lead-free piezoelectric ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5409-5415.	1.1	4

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55	Dielectric, ferroelectric and piezoelectric properties of Ca <sub>0.1</sub> Sr <sub>0.9</sub> Bi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ceramic. Journal of Materials Science: Materials in Electronics, 2015, 26, 8740-8746.	1.1	18
56	Large strain response and fatigue-resistant behavior in lead-free Bi <sub>0.5</sub> (Na <sub>0.80</sub> K <sub>0.20</sub> ) <sub>0.5</sub> TiO <sub>3</sub> (K = Sb, Ta) ceramics. RSC Advances, 2015, 5, 82605-82616.	1.7	10
57	Largely enhanced piezoelectric and luminescent properties of Er doped BST ceramics. RSC Advances, 2015, 5, 91903-91907.	1.1	4
58	Nonlinear electrical properties of MnO <sub>2</sub> -doped TiO <sub>2</sub> capacitor varistor ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 7232-7237.	1.1	4
59	High strain in (Bi <sub>1/2</sub> Na <sub>1/2</sub> ) <sub>0.935</sub> Ba <sub>0.065</sub> TiO <sub>3</sub> lead-free ceramics with giant piezoresponse. RSC Advances, 2015, 5, 90508-90514.	1.1	2
60	Microstructure and piezoelectric properties of Ho <sub>2</sub> O <sub>3</sub> doped (K <sub>0.4</sub> Na <sub>0.6</sub> ) <sub>0.95</sub> Li <sub>0.05</sub> Nb <sub>0.95</sub> Sb <sub>0.05</sub> O <sub>3</sub> lead-free ceramics near the rhombohedral-orthorhombic phase boundary. Journal of Materials Science: Materials in Electronics, 2015, 26, 9654-9660.	1.1	2
61	Properties of B-site non-stoichiometric (K <sub>0.5</sub> Na <sub>0.5</sub> )(Nb <sub>0.9</sub> Ta <sub>0.1</sub> ) <sub>1+x</sub> O <sub>3</sub> lead-free piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2014, 25, 1085-1088.	1.1	2
62	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
63	SmAlO <sub>3</sub> -modified (K <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.95</sub> Li <sub>0.05</sub> Sb <sub>0.05</sub> Nb <sub>0.95</sub> O <sub>3</sub> lead-free ceramics with a wide sintering temperature range. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 1027-1031.	1.7	10
64	Structure and electrical properties of the Ho <sub>2</sub> O <sub>3</sub> doped 0.82Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> lead-free piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2012, 23, 2167-2172.	1.1	12
65	Structure and electrical properties of Ho-modified Sr <sub>2</sub> Bi <sub>4</sub> Ti <sub>5</sub> O <sub>18</sub> lead-free piezoelectric ceramics. , 2011, , .		0
66	Structure and electrical properties of (La,Ta)-doped (K <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.94</sub> Li <sub>0.06</sub> Nb <sub>0.95</sub> Sb <sub>0.05</sub> O <sub>3</sub> ceramic. , 2011, , .		
67	Temperature Stability in Dy-Doped (Ba <sub>0.99</sub> Ca <sub>0.01</sub> )(Ti <sub>0.98</sub> Zr <sub>0.02</sub> )O <sub>3</sub> Lead-Free Ceramics with High Piezoelectric Coefficient. Journal of the American Ceramic Society, 2011, 94, 3181-3183.	1.9	66
68	Large Piezoelectric Coefficient in (Ba <sub>1-x</sub> Ca <sub>x</sub> )(Ti <sub>0.96</sub> Zr <sub>0.04</sub> )O <sub>3</sub> Lead-Free Ceramics. Journal of the American Ceramic Society, 2011, 94, 4131-4133.	1.9	66
69	Impedance spectroscopy analysis for high-T <sub>c</sub> BaTiO <sub>3</sub> (Bi <sub>1/2</sub> Na <sub>1/2</sub> )TiO <sub>3</sub> lead-free PTCR ceramics. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1099-1104.	0.8	4
70	DIELECTRIC AND FERROELECTRIC PROPERTIES OF (Li, Ce)-DOPED Sr <sub>2</sub> Bi <sub>4</sub> Ti <sub>5</sub> O <sub>18</sub> LEAD-FREE CERAMICS. Journal of Advanced Dielectrics, 2011, 01, 439-445.	1.5	5
71	Single-Step Calcination Synthesis of Pyrochlore Free Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Powders Using Particle-Coating Method. Journal of the American Ceramic Society, 2010, 93, 18-21.	1.9	2
72	Piezoelectric and Dielectric Properties of (Ba <sub>1-x</sub> Ca <sub>x</sub> )(Ti <sub>0.95</sub> Zr <sub>0.05</sub> )O <sub>3</sub> Lead-Free Ceramics. Journal of the American Ceramic Society, 2010, 93, 2942-2944.	1.9	174

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73	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.	1.7	9
74	Citrate-oxide method to prepare $SrBi_4Ti_4O_{15}$ powders and ceramics. <i>Journal of Alloys and Compounds</i> , 2009, 479, 500-504.	2.8	7
75	Study on high temperature performances for bismuth layer-structured $(Sr_{1-x}Ca_x)_2Bi_4Ti_5O_{18}$ ( $0 \leq x \leq 1$ ) ceramics. <i>Journal of Alloys and Compounds</i> , 2009, 487, 585-590.	2.8	31
76	A Novel Hybrid Method of Sol-Gel and Ultrasonic Atomization Synthesis and Piezoelectric Properties of $SrBi_4Ti_4O_{15}$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2008, 91, 910-913.	1.9	13