

# Xin-Gui Tang

## List of Publications by Citations

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99  
ext. papers

1,507  
ext. citations

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L-index

#	Paper	IF	Citations
90	Effect of grain size on the electrical properties of (Ba,Ca)(Zr,Ti)O <sub>3</sub> relaxor ferroelectric ceramics. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 034109	2.5	123
89	Preparation and Electrical Properties of Highly (111)-Oriented (Na <sub>0.5</sub> Bi <sub>0.5</sub> )TiO <sub>3</sub> Thin Films by a Sol-Gel Process. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 5293-5296	9.6	75
88	Oxygen-vacancy-related relaxation and conduction behavior in (Pb <sub>1-x</sub> Ba <sub>x</sub> )(Zr <sub>0.95</sub> Ti <sub>0.05</sub> )O <sub>3</sub> ceramics. <i>AIP Advances</i> , <b>2014</b> , 4, 107141	1.5	63
87	High energy-storage density of lead-free BiFeO <sub>3</sub> doped Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> thin film capacitor with good temperature stability. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 757, 169-176	5.7	52
86	The great improvement effect of pores on ZT in Co <sub>1-x</sub> Ni <sub>x</sub> Sb <sub>3</sub> system. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 042108	3.4	41
85	Oxygen-vacancy-related dielectric relaxation behaviours and impedance spectroscopy of Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> modified BaTiO <sub>3</sub> ferroelectric ceramics. <i>Journal of Materiomics</i> , <b>2018</b> , 4, 194-201	6.7	32
84	Resistive Switching Characteristics of HfO <sub>2</sub> Thin Films on Mica Substrates Prepared by Sol-Gel Process. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	32
83	Antiferroelectric to relaxor ferroelectric phase transition in PbO modified (Pb <sub>0.97</sub> La <sub>0.02</sub> )(Zr <sub>0.95</sub> Ti <sub>0.05</sub> )O <sub>3</sub> ceramics with a large energy-density for dielectric energy storage. <i>RSC Advances</i> , <b>2017</b> , 7, 43327-43333	3.7	32
82	Oxygen-Vacancy-Related High Temperature Dielectric Relaxation in (Pb <sub>1-x</sub> Ba <sub>x</sub> )ZrO <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 551-558	3.8	31
81	Large Electrocaloric Effect in Lead-free Ba(Hf <sub>x</sub> Ti <sub>1-x</sub> )O <sub>3</sub> Ferroelectric Ceramics for Clean Energy Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 8920-8925	8.3	29
80	Enhanced electrocaloric analysis and energy-storage performance of lanthanum modified lead titanate ceramics for potential solid-state refrigeration applications. <i>Scientific Reports</i> , <b>2018</b> , 8, 396	4.9	28
79	Giant electrocaloric effect in BaTiO <sub>3</sub> Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> lead-free ferroelectric ceramics. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 747, 1053-1061	5.7	27
78	Energy storage properties and electrocaloric effect of Ba <sub>0.65</sub> Sr <sub>0.35</sub> TiO <sub>3</sub> ceramics near room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 1075-1081	2.1	26
77	Electrocaloric effect and pyroelectric properties in Ce-doped BaCe <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> ceramics. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 776, 731-739	5.7	23
76	Dielectric relaxation and pinning phenomenon of (Sr,Pb)TiO <sub>3</sub> ceramics for dielectric tunable device application. <i>Scientific Reports</i> , <b>2016</b> , 6, 31960	4.9	22
75	Orientation related electrocaloric effect and dielectric phase transitions of relaxor PMN-PT single crystals. <i>Ceramics International</i> , <b>2017</b> , 43, 16300-16305	5.1	22
74	High-Temperature Dielectric Relaxation Behaviors of Relaxor-Like PbZrO <sub>3</sub> BiTiO <sub>3</sub> Ceramics for Energy-Storage Applications. <i>Energy Technology</i> , <b>2016</b> , 4, 633-640	3.5	21

73	Electrical properties of highly (111)-oriented lead zirconate thin films. <i>Solid State Communications</i> , <b>2004</b> , 130, 373-377	1.6	19
72	Temperature-dependent dielectric relaxation and high tunability of (Ba1-Sr)TiO3 ceramics. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 70-77	5.7	18
71	Pyroelectric energy harvesting capabilities and electrocaloric effect in lead-free Sr Ba1-Nb2O6 ferroelectric ceramics. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 791, 1038-1045	5.7	17
70	High Energy Storage Density and Impedance Response of PLZT2/95/5 Antiferroelectric Ceramics. <i>Materials</i> , <b>2017</b> , 10,	3.5	16
69	Excellent energy storage density and efficiency in lead-free Sm-doped BaTiO3Bi(Mg0.5Ti0.5)O3 ceramics. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13405-13414	7.1	16
68	Enhanced energy storage density and efficiency in lead-free Bi(Mg1/2Hf1/2)O3-modified BaTiO3 ceramics. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129379	14.7	15
67	Giant negative electrocaloric effect in B-site non-stoichiometric (Pb0.97La0.02)(Zr0.95Ti0.05)1+yO3 anti-ferroelectric ceramics. <i>Materials Research Letters</i> , <b>2018</b> , 6, 384-389	7.4	14
66	Growth and characterization of oriented Pb1-xCaxTiO3 thin films. <i>Thin Solid Films</i> , <b>2000</b> , 375, 159-162	2.2	13
65	Giant electrocaloric effect in lead zinc niobate titanate single crystal. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 710, 297-301	5.7	12
64	Composition dependence of giant electrocaloric effect in Pb Sr1-TiO3 ceramics for energy-related applications. <i>Journal of Materiomics</i> , <b>2019</b> , 5, 118-126	6.7	12
63	Giant Negative Electrocaloric Effect in Anti-Ferroelectric (PbLa)(ZrTi)O Ceramics. <i>ACS Omega</i> , <b>2019</b> , 4, 14650-14654	3.9	10
62	The Microstructure, Electric, Optical and Photovoltaic Properties of BiFeO Thin Films Prepared by Low Temperature Sol-Gel Method. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
61	Improvement of electrical conductivity and leakage current in co-precipitation derived Nd-doping BiFeO3 ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 495-499	2.1	10
60	Photodiode characteristics of HfO2 thin films prepared by magnetron sputtering. <i>Materials and Design</i> , <b>2020</b> , 188, 108465	8.1	10
59	Room Temperature Tunable Multiferroic Properties in Sol-Gel-Derived Nanocrystalline Sr(TiFe)O Thin Films. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	9
58	Large Electrocaloric Effect in Ferroelectric Materials. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , <b>2014</b> , 29, 6-12	1	9
57	Phase structure analysis and pyroelectric energy harvesting performance of Ba(HfxTi1-x)O3 ceramics. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 3623-3629	3.8	9
56	Paraelectric Matrix-Tuned Energy Storage in BiFeO3BaTiO3BrTiO3 Relaxor Ferroelectrics. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 9216-9226	6.1	9

55	Multiferroic properties and resistive switching behaviors of Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> thin films. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 1-7	8.7	9
54	Electrode effect regulated resistance switching and selector characteristics in Nb doped SrTiO <sub>3</sub> single crystal for potential cross-point memory applications. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 730, 516-520	5.7	8
53	Bipolar resistive switching behavior and conduction mechanisms of composite nanostructured TiO <sub>2</sub> /ZrO <sub>2</sub> thin film. <i>Ceramics International</i> , <b>2020</b> , 46, 21196-21201	5.1	8
52	A highly sensitive, foldable and wearable pressure sensor based on MXene-coated airlaid paper for electronic skin. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 12642-12649	7.1	8
51	Bipolar resistive switching characteristics of amorphous SrTiO <sub>3</sub> thin films prepared by the sol-gel process. <i>Journal of Asian Ceramic Societies</i> , <b>2019</b> , 7, 298-305	2.4	7
50	The dielectric anomaly and pyroelectric properties of sol-gel derived (Pb,Cd,La)TiO <sub>3</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 3174-3178	2.1	7
49	Dielectric and Pyroelectric Properties of Compositionally Graded Pb(Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> Thin Films Prepared by Sol-gel Process. <i>Chinese Journal of Chemical Physics</i> , <b>2007</b> , 20, 665-669	0.9	7
48	Diffuse phase transition and high-temperature dielectric relaxation study on (Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>1-x</sub> BaxTiO <sub>3</sub> ceramics. <i>Physica B: Condensed Matter</i> , <b>2016</b> , 496, 20-25	2.8	7
47	Improvement of memristive properties in CuO films with a seed Cu layer. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 061602	3.4	7
46	Preparation of (Pb, Cd, La)TiO <sub>3</sub> Phase Pure Powders and Thin Films by Sol-gel Processing. <i>Journal of Materials Science Letters</i> , <b>1998</b> , 17, 1277-1279		6
45	Large Room Temperature Negative Electrocaloric Effect in Novel Antiferroelectric PbHfO Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 21331-21337	9.5	6
44	Tailoring energy-storage performance in antiferroelectric PbHfO <sub>3</sub> thin films. <i>Materials and Design</i> , <b>2021</b> , 204, 109666	8.1	6
43	Analog Memristive Characteristics and Conditioned Reflex Study Based on Au/ZnO/ITO Devices. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 141	2.6	5
42	Low leakage current in (Bi <sub>0.95</sub> La <sub>0.05</sub> ) <sub>2</sub> NiMnO <sub>6</sub> double-perovskite thin films prepared by chemical solution deposition. <i>Materials Letters</i> , <b>2014</b> , 120, 23-25	3.3	5
41	LARGE PIEZOELECTRIC EFFECT IN LOW-TEMPERATURE-SINTERED LEAD-FREE (Ba <sub>0.85</sub> Ca <sub>0.15</sub> )(Zr <sub>0.1</sub> Ti <sub>0.9</sub> )O <sub>3</sub> THICK FILMS. <i>Functional Materials Letters</i> , <b>2012</b> , 05, 1250029	1.2	5
40	The enhanced magnetoelectric effect and piezoelectric properties in the lead-free Bi <sub>3.15</sub> Nd <sub>0.85</sub> Ti <sub>3</sub> O <sub>12</sub> /La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> nano-multilayers composite thin films. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 485-491	5.7	5
39	Impedance response and high temperature dielectric relaxation behavior in lead barium strontium zirconate ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 1582-1589	2.1	4
38	Electrical and Pyroelectric Properties of Highly (001)-Oriented (Pb <sub>0.76</sub> Ca <sub>0.24</sub> )TiO <sub>3</sub> Thin Films Grown by a Sol-gel Process. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 1588-1590	3.8	4

37	Oxygen vacancy effect on ionic conductivity and relaxation phenomenon of $Sr_xBa_{1-x}Nb_2O_6$ ceramics. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2019</b> , 68, 227701	0.6	4
36	High-temperature dielectric properties and impedance spectroscopy of $PbHf_{1-x}Sn_xO_3$ ceramics. <i>IET Nanodielectrics</i> , <b>2020</b> , 3, 131-137	2.8	4
35	A Review of a Good Binary Ferroelectric Ceramic: $BaTiO_3BiFeO_3$ . <i>ACS Applied Electronic Materials</i> ,	4	4
34	Interfacial resistive switching properties of $Sr_2TiO_4/SrTiO_3$ heterojunction thin films prepared via sol-gel process. <i>Ceramics International</i> , <b>2021</b> , 47, 18808-18813	5.1	4
33	Relaxation Associated with Oxygen Vacancies at High Temperatures and Leakage Current in $Ba_xSr_{1-x}TiO_3$ Ceramics. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 3174-3182	1.9	4
32	Energy storage density and charge/discharge properties of $PbHf_{1-x}Sn_xO_3$ antiferroelectric ceramics. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132540	14.7	4
31	Improved electric property in $SrTiO_3Bi_2NiMnO_6BrTiO_3$ sandwich structural thin films. <i>Superlattices and Microstructures</i> , <b>2015</b> , 85, 653-657	2.8	3
30	B-site non-stoichiometric $(Pb_{0.97}La_{0.02})(Zr_{0.95}Ti_{0.05})O_3$ antiferroelectric ceramics for energy storage. <i>Journal of Asian Ceramic Societies</i> , <b>2018</b> , 6, 240-246	2.4	3
29	Ferroelectric and Pyroelectric Properties of Highly (111)-oriented Nanocrystalline $Pb(Zr_{0.95}Ti_{0.05})O_3$ Thin Films. <i>Chinese Journal of Chemical Physics</i> , <b>2007</b> , 20, 763-767	0.9	3
28	Pyroelectric energy harvesting and ferroelectric properties of $Pb_xSr_{1-x}TiO_3$ ceramics. <i>Journal of Asian Ceramic Societies</i> , <b>2020</b> , 8, 1147-1153	2.4	3
27	Enhancement of the photoelectric properties of composite oxide $TiO_2-SrTiO_3$ thin films. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7	3
26	Bipolar resistive switching characteristics of $PbZrO_3/LaNiO_3$ heterostructure thin films prepared by a sol-gel process. <i>Ceramics International</i> , <b>2021</b> , 47, 5617-5623	5.1	3
25	An oxygen defect-related dielectric relaxation behaviors of lead-free $Ba(Hf_xTi_{1-x})O_3$ ferroelectric ceramics. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 485302	3	3
24	Ultra-high dielectric tuning performance and double-set resistive switching effect achieved on the $BiNiMnO_3$ thin film prepared by sol-gel method. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 913-919	9.3	3
23	Synaptic behaviors in flexible $Au/WO_3/Pt/mica$ memristor for neuromorphic computing system. <i>Materials Today Physics</i> , <b>2022</b> , 23, 100650	8	3
22	Ultrahigh energy storage density and superior discharge power density in a novel antiferroelectric lead hafnate. <i>Materials Today Physics</i> , <b>2022</b> , 24, 100681	8	3
21	Effect of annealing temperature on dielectric and pyroelectric property of highly (111)-oriented $(Pb_{0.98}La_{0.02})(Zr_{0.95}Ti_{0.05})_{0.995}O_3$ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 1784-1788	2.1	2
20	Excellent Bidirectional Adjustable Multistage Resistive Switching Memory in $BiFeCrO_3$ Thin Film. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> ,	9.5	2

19	High temperature dielectric anomaly and impedance analysis of $(\text{Pb}_{1-x}\text{La}_x)(\text{Zr}_{0.95}\text{Ti}_{0.05})\text{O}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 14864-14873	2.1	1
18	Influence of $\text{LaNiO}_3$ and $\text{LaNi}_{0.5}\text{Mn}_{0.5}\text{O}_3$ Buffer Layers on the Structural and Electrical Properties of $\text{BiNi}_{0.5}\text{Mn}_{0.5}\text{O}_3$ Thin Films. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 3783-3787	1.9	1
17	Optical Properties of Nanocrystalline $(\text{Ba,Ca})\text{TiO}_3$ Thin Films Grown on Pt-Coated Silicon Substrates. <i>Ferroelectrics</i> , <b>2010</b> , 405, 268-274	0.6	1
16	Oxygen vacancies-related high-temperature dielectric relaxation and pyroelectric energy harvesting in lead-free $\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2022</b> , 33, 3024	2.1	1
15	Large energy-storage density and positive electrocaloric effect in $x\text{BiFeO}_3(1-x)\text{BaTiO}_3$ relaxor ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 1302-1312	7.1	1
14	Excellent Bipolar Resistive Switching Characteristics of $\text{BiTiO}$ Thin Films Prepared via Sol-Gel Process. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
13	Resistive switching behaviors of $\text{Au/CZO/FTO/glass}$ heterostructures grown by magnetron sputtering. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 817, 152738	5.7	1
12	The defect related energy-storage properties of A-site off-stoichiometry ferroelectric ceramic. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	1
11	Anneal temperature dependence of resistive switching and photoelectric properties of Bismuth ferrite thin film prepared via sol-gel method. <i>FlatChem</i> , <b>2021</b> , 28, 100266	5.1	1
10	Ferroelectric Diode Effect with Temperature Stability of Double Perovskite $\text{BiNiMnO}$ Thin Films. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	1
9	Oxygen defect related high temperature dielectric relaxation behavior in $(\text{Ba,Lu})(\text{Zr,Sn,Ti})\text{O}_3$ ceramics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	1
8	Modified relaxor ferroelectrics in $\text{BiFeO}_3$ - $(\text{Ba,Sr})\text{TiO}_3$ - $\text{BiScO}_3$ ceramics for energy storage applications. <i>Sustainable Materials and Technologies</i> , <b>2022</b> , e00428	5.3	1
7	Energy storage and charge-discharge performance of B-site doped NBT-based lead-free ceramics. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165074	5.7	1
6	The transformation of digital to analog resistance switching behavior in $\text{Bi}_2\text{FeCrO}_6$ thin films. <i>Journal of Asian Ceramic Societies</i> , 1-7	2.4	0
5	Structural and multiferroic properties of Nd and Mn co-doped $0.55\text{BiFeMnO}_3$ - $0.45\text{BaTiO}_3$ ceramics with high energy storage efficiency. <i>Ceramics International</i> , <b>2021</b> , 47, 18800-18807	5.1	0
4	Resistive switching and optical properties of strontium ferrate titanate thin film prepared via chemical solution deposition. <i>Journal of Advanced Ceramics</i> , <b>2021</b> , 10, 1001	10.7	0
3	Non-Volatile Regulation of Magnetism via Electric Fields in Polycrystal $\text{FeSi}/(011)$ $\text{PMN-0.32PT}$ Heterostructures. <i>Magnetochemistry</i> , <b>2020</b> , 6, 57	3.1	
2	Interfacial resistive switching of Ruddlesden-Popper phase strontium titanate thin film by charge-modulated Schottky barrier. <i>FlatChem</i> , <b>2021</b> , 27, 100239	5.1	

- 1 The thermal conductivity and tolerance factor modulated ferroelectric thermal stability of Ba<sub>0.955</sub>La<sub>0.03</sub>TiO<sub>3</sub> relaxor ferroelectric. *Journal of Materials Science: Materials in Electronics*, **2022**, 33, 7621-7635 2.1