# Xin-Gui Tang

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 90 papers | 1,096 citations | 18 h-index | 29 g-index |
| 99 ext. papers | 1,507 ext. citations | 4.6 avg, IF | 4.7 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 90 | Oxygen vacancies-related high-temperature dielectric relaxation and pyroelectric energy harvesting in lead-free Ba(Zr0.2Ti0.8)O3 ceramics. *Journal of Materials Science: Materials in Electronics*, **2022**, 33, 3024 | 2.1 | 1 |
| 89 | Large energy-storage density and positive electrocaloric effect in xBiFeO3(1 x)BaTiO3 relaxor ferroelectric ceramics. *Journal of Materials Chemistry C*, **2022**, 10, 1302-1312 | 7.1 | 1 |
| 88 | Energy storage density and charge discharge properties of PbHf1 n O3 antiferroelectric ceramics. *Chemical Engineering Journal*, **2022**, 429, 132540 | 14.7 | 4 |
| 87 | Ultra-high dielectric tuning performance and double-set resistive switching effect achieved on the BiNiMnO thin film prepared by sol-gel method. *Journal of Colloid and Interface Science*, **2022**, 606, 913-919 | 9.3 | 3 |
| 86 | The thermal conductivity and tolerance factor modulated ferroelectric thermal stability of Ba0.955La0.03TiO3 relaxor ferroelectric. *Journal of Materials Science: Materials in Electronics*, **2022**, 33, 7621-7635 | 2.1 | |
| 85 | Synaptic behaviors in flexible Au/WO /Pt/mica memristor for neuromorphic computing system. *Materials Today Physics*, **2022**, 23, 100650 | 8 | 3 |
| 84 | Modified relaxor ferroelectrics in BiFeO3-(Ba,Sr)TiO3-BiScO3 ceramics for energy storage applications. *Sustainable Materials and Technologies*, **2022**, e00428 | 5.3 | 1 |
| 83 | Ultrahigh energy storage density and superior discharge power density in a novel antiferroelectric lead hafnate. *Materials Today Physics*, **2022**, 24, 100681 | 8 | 3 |
| 82 | Energy storage and charge-discharge performance of B-site doped NBT-based lead-free ceramics. *Journal of Alloys and Compounds*, **2022**, 165074 | 5.7 | 1 |
| 81 | Excellent Bipolar Resistive Switching Characteristics of BiTiO Thin Films Prepared via Sol-Gel Process. *Nanomaterials*, **2021**, 11, | 5.4 | 1 |
| 80 | Large Room Temperature Negative Electrocaloric Effect in Novel Antiferroelectric PbHfO Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 21331-21337 | 9.5 | 6 |
| 79 | The defect related energy-storage properties of A-site off-stoichiometry ferroelectric ceramic. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1 | 2.6 | 1 |
| 78 | Interfacial resistive switching of Ruddlesden Popper phase strontium titanate thin film by charge-modulated Schottky barrier. *FlatChem*, **2021**, 27, 100239 | 5.1 | |
| 77 | Tailoring energy-storage performance in antiferroelectric PbHfO3 thin films. *Materials and Design*, **2021**, 204, 109666 | 8.1 | 6 |
| 76 | Interfacial resistive switching properties of Sr2TiO4/SrTiO3 heterojunction thin films prepared via sol-gel process. *Ceramics International*, **2021**, 47, 18808-18813 | 5.1 | 4 |
| 75 | Anneal temperature dependence of resistive switching and photoelectric properties of Bismuth ferrite thin film prepared via sol gel method. *FlatChem*, **2021**, 28, 100266 | 5.1 | 1 |
| 74 | Structural and multiferroic properties of Nd and Mn co-doped 0.55BiFeMnO3-0.45BaTiO3 ceramics with high energy storage efficiency. *Ceramics International*, **2021**, 47, 18800-18807 | 5.1 | 0 |

| | | | |
|---|---|---|---|
| 73 | Bipolar resistive switching characteristics of PbZrO3/LaNiO3 heterostructure thin films prepared by a sol□gel process. *Ceramics International*, **2021**, 47, 5617-5623 | 5.1 | 3 |
| 72 | A highly sensitive, foldable and wearable pressure sensor based on MXene-coated airlaid paper for electronic skin. *Journal of Materials Chemistry C*, **2021**, 9, 12642-12649 | 7.1 | 8 |
| 71 | Paraelectric Matrix-Tuned Energy Storage in BiFeO3□BaTiO3□SrTiO3 Relaxor Ferroelectrics. *ACS Applied Energy Materials*, **2021**, 4, 9216-9226 | 6.1 | 9 |
| 70 | Enhanced energy storage density and efficiency in lead-free Bi(Mg1/2Hf1/2)O3-modified BaTiO3 ceramics. *Chemical Engineering Journal*, **2021**, 418, 129379 | 14.7 | 15 |
| 69 | Resistive switching and optical properties of strontium ferrate titanate thin film prepared via chemical solution deposition. *Journal of Advanced Ceramics*, **2021**, 10, 1001 | 10.7 | 0 |
| 68 | Oxygen defect related high temperature dielectric relaxation behavior in (Ba,La)(Zr,Sn,Ti)O3 ceramics. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1 | 2.6 | 1 |
| 67 | Multiferroic properties and resistive switching behaviors of Ni0.5Zn0.5Fe2O4 thin films. *Advanced Composites and Hybrid Materials*, **2021**, 4, 1-7 | 8.7 | 9 |
| 66 | Bipolar resistive switching behavior and conduction mechanisms of composite nanostructured TiO2/ZrO2 thin film. *Ceramics International*, **2020**, 46, 21196-21201 | 5.1 | 8 |
| 65 | High-temperature dielectric properties and impedance spectroscopy of PbHf1□ Snx O3 ceramics. *IET Nanodielectrics*, **2020**, 3, 131-137 | 2.8 | 4 |
| 64 | Resistive switching behaviors of Au/CZO/FTO/glass heterostructures grown by magnetron sputtering. *Journal of Alloys and Compounds*, **2020**, 817, 152738 | 5.7 | 1 |
| 63 | Photodiode characteristics of HfO2 thin films prepared by magnetron sputtering. *Materials and Design*, **2020**, 188, 108465 | 8.1 | 10 |
| 62 | Pyroelectric energy harvesting and ferroelectric properties of PbxSr1-xTiO3 ceramics. *Journal of Asian Ceramic Societies*, **2020**, 8, 1147-1153 | 2.4 | 3 |
| 61 | Excellent Bidirectional Adjustable Multistage Resistive Switching Memory in BiFeCrO Thin Film. *ACS Applied Materials & Interfaces*, **2020**, | 9.5 | 2 |
| 60 | Non-Volatile Regulation of Magnetism via Electric Fields in Polycrystal FeSi/(011) PMN-0.32PT Heterostructures. *Magnetochemistry*, **2020**, 6, 57 | 3.1 | |
| 59 | Excellent energy storage density and efficiency in lead-free Sm-doped BaTiO3□Bi(Mg0.5Ti0.5)O3 ceramics. *Journal of Materials Chemistry C*, **2020**, 8, 13405-13414 | 7.1 | 16 |
| 58 | Giant Negative Electrocaloric Effect in Anti-Ferroelectric (PbLa)(ZrTi)O Ceramics. *ACS Omega*, **2019**, 4, 14650-14654 | 3.9 | 10 |
| 57 | The Microstructure, Electric, Optical and Photovoltaic Properties of BiFeO Thin Films Prepared by Low Temperature Sol?Gel Method. *Materials*, **2019**, 12, | 3.5 | 10 |
| 56 | Pyroelectric energy harvesting capabilities and electrocaloric effect in lead-free Sr Ba1-Nb2O6 ferroelectric ceramics. *Journal of Alloys and Compounds*, **2019**, 791, 1038-1045 | 5.7 | 17 |

| | | | |
|---|---|---|---|
| 55 | Resistive Switching Characteristics of HfO Thin Films on Mica Substrates Prepared by Sol-Gel Process. *Nanomaterials*, **2019**, 9, | 5.4 | 32 |
| 54 | Bipolar resistive switching characteristics of amorphous SrTiO3 thin films prepared by the sol-gel process. *Journal of Asian Ceramic Societies*, **2019**, 7, 298-305 | 2.4 | 7 |
| 53 | Oxygen vacancy effect on ionic conductivity and relaxation phenomenon of SrxBa1−xNb2O6 ceramics. *Wuli Xuebao/Acta Physica Sinica*, **2019**, 68, 227701 | 0.6 | 4 |
| 52 | Improvement of memristive properties in CuO films with a seed Cu layer. *Applied Physics Letters*, **2019**, 114, 061602 | 3.4 | 7 |
| 51 | Ferroelectric Diode Effect with Temperature Stability of Double Perovskite BiNiMnO Thin Films. *Nanomaterials*, **2019**, 9, | 5.4 | 1 |
| 50 | Electrocaloric effect and pyroelectric properties in Ce-doped BaCexTi1−xO3 ceramics. *Journal of Alloys and Compounds*, **2019**, 776, 731-739 | 5.7 | 23 |
| 49 | Composition dependence of giant electrocaloric effect in Pb Sr1-TiO3 ceramics for energy-related applications. *Journal of Materiomics*, **2019**, 5, 118-126 | 6.7 | 12 |
| 48 | Phase structure analysis and pyroelectric energy harvesting performance of Ba(HfxTi1-x)O3 ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 3623-3629 | 3.8 | 9 |
| 47 | The enhanced magnetoelectric effect and piezoelectric properties in the lead-free Bi3.15Nd0.85Ti3O12/La0.7Ca0.3MnO3 nano-multilayers composite thin films. *Journal of Alloys and Compounds*, **2019**, 777, 485-491 | 5.7 | 5 |
| 46 | Enhanced electrocaloric analysis and energy-storage performance of lanthanum modified lead titanate ceramics for potential solid-state refrigeration applications. *Scientific Reports*, **2018**, 8, 396 | 4.9 | 28 |
| 45 | Giant negative electrocaloric effect in B-site non-stoichiometric (Pb0.97La0.02)(Zr0.95Ti0.05)1+yO3 anti-ferroelectric ceramics. *Materials Research Letters*, **2018**, 6, 384-389 | 7.4 | 14 |
| 44 | Oxygen-vacancy-related dielectric relaxation behaviours and impedance spectroscopy of Bi(Mg1/2Ti1/2)O3 modified BaTiO3 ferroelectric ceramics. *Journal of Materiomics*, **2018**, 4, 194-201 | 6.7 | 32 |
| 43 | Giant electrocaloric effect in BaTiO3Bi(Mg1/2Ti1/2)O3 lead-free ferroelectric ceramics. *Journal of Alloys and Compounds*, **2018**, 747, 1053-1061 | 5.7 | 27 |
| 42 | Electrode effect regulated resistance switching and selector characteristics in Nb doped SrTiO3 single crystal for potential cross-point memory applications. *Journal of Alloys and Compounds*, **2018**, 730, 516-520 | 5.7 | 8 |
| 41 | Temperature-dependent dielectric relaxation and high tunability of (Ba1-Sr )TiO3 ceramics. *Journal of Alloys and Compounds*, **2018**, 731, 70-77 | 5.7 | 18 |
| 40 | Energy storage properties and electrocaloric effect of Ba0.65Sr0.35TiO3 ceramics near room temperature. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 1075-1081 | 2.1 | 26 |
| 39 | B-site non-stoichiometric (Pb0.97La0.02)(Zr0.95Ti0.05)O3 antiferroelectric ceramics for energy storage. *Journal of Asian Ceramic Societies*, **2018**, 6, 240-246 | 2.4 | 3 |
| 38 | High energy-storage density of lead-free BiFeO3 doped Na0.5Bi0.5TiO3-BaTiO3 thin film capacitor with good temperature stability. *Journal of Alloys and Compounds*, **2018**, 757, 169-176 | 5.7 | 52 |

| | | | |
|---|---|---|---|
| 37 | Analog Memristive Characteristics and Conditioned Reflex Study Based on Au/ZnO/ITO Devices. *Electronics (Switzerland)*, **2018**, 7, 141 | 2.6 | 5 |
| 36 | An oxygen defect-related dielectric relaxation behaviors of lead-free Ba(Hf x Ti1 )O3 ferroelectric ceramics. *Journal Physics D: Applied Physics*, **2018**, 51, 485302 | 3 | 3 |
| 35 | Large Electrocaloric Effect in Lead-free Ba(HfxTi1)O3 Ferroelectric Ceramics for Clean Energy Applications. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8920-8925 | 8.3 | 29 |
| 34 | Giant electrocaloric effect in lead zinc niobate titanate single crystal. *Journal of Alloys and Compounds*, **2017**, 710, 297-301 | 5.7 | 12 |
| 33 | Orientation related electrocaloric effect and dielectric phase transitions of relaxor PMN-PT single crystals. *Ceramics International*, **2017**, 43, 16300-16305 | 5.1 | 22 |
| 32 | Antiferroelectric to relaxor ferroelectric phase transition in PbO modified (Pb0.97La0.02)(Zr0.95Ti0.05)O3 ceramics with a large energy-density for dielectric energy storage. *RSC Advances*, **2017**, 7, 43327-43333 | 3.7 | 32 |
| 31 | High temperature dielectric anomaly and impedance analysis of (Pb1 x/2La x )(Zr0.95Ti0.05)O3 ceramics. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 14864-14873 | 2.1 | 1 |
| 30 | High Energy Storage Density and Impedance Response of PLZT2/95/5 Antiferroelectric Ceramics. *Materials*, **2017**, 10, | 3.5 | 16 |
| 29 | Room Temperature Tunable Multiferroic Properties in Sol-Gel-Derived Nanocrystalline Sr(TiFe)O Thin Films. *Nanomaterials*, **2017**, 7, | 5.4 | 9 |
| 28 | Dielectric relaxation and pinning phenomenon of (Sr,Pb)TiO3 ceramics for dielectric tunable device application. *Scientific Reports*, **2016**, 6, 31960 | 4.9 | 22 |
| 27 | Impedance response and high temperature dielectric relaxation behavior in lead barium strontium zirconate ceramics. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 1582-1589 | 2.1 | 4 |
| 26 | High-Temperature Dielectric Relaxation Behaviors of Relaxer-Like PbZrO3 rTiO3 Ceramics for Energy-Storage Applications. *Energy Technology*, **2016**, 4, 633-640 | 3.5 | 21 |
| 25 | Diffuse phase transition and high-temperature dielectric relaxation study on (Bi0.5Na0.5)1-xBaxTiO3 ceramics. *Physica B: Condensed Matter*, **2016**, 496, 20-25 | 2.8 | 7 |
| 24 | Relaxation Associated with Oxygen Vacancies at High Temperatures and Leakage Current in Ba x Sr1 TiO3 Ceramics. *Journal of Electronic Materials*, **2016**, 45, 3174-3182 | 1.9 | 4 |
| 23 | Improved electric property in SrTiO 3 Bi 2 NiMnO 6 rTiO 3 sandwich structural thin films. *Superlattices and Microstructures*, **2015**, 85, 653-657 | 2.8 | 3 |
| 22 | Effect of annealing temperature on dielectric and pyroelectric property of highly (111)-oriented (Pb0.98La0.02)(Zr0.95Ti0.05)0.995O3 thin films. *Journal of Materials Science: Materials in Electronics* , **2015**, 26, 1784-1788 | 2.1 | 2 |
| 21 | Oxygen-Vacancy-Related High Temperature Dielectric Relaxation in (Pb1 Bax)ZrO3 Ceramics. *Journal of the American Ceramic Society*, **2015**, 98, 551-558 | 3.8 | 31 |
| 20 | Influence of LaNiO3 and LaNi0.5Mn0.5O3 Buffer Layers on the Structural and Electrical Properties of BiNi0.5Mn0.5O3 Thin Films. *Journal of Electronic Materials*, **2015**, 44, 3783-3787 | 1.9 | 1 |

| | | | |
|---|---|---|---|
| 19 | The dielectric anomaly and pyroelectric properties of sol–gel derived (Pb,Cd,La)TiO3 ceramics. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 3174-3178 | 2.1 | 7 |
| 18 | Low leakage current in (Bi0.95La0.05)2NiMnO6 double-perovskite thin films prepared by chemical solution deposition. *Materials Letters*, **2014**, 120, 23-25 | 3.3 | 5 |
| 17 | Oxygen-vacancy-related relaxation and conduction behavior in (Pb1-xBax)(Zr0.95Ti0.05)O3 ceramics. *AIP Advances*, **2014**, 4, 107141 | 1.5 | 63 |
| 16 | Improvement of electrical conductivity and leakage current in co-precipitation derived Nd-doping BiFeO3 ceramics. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 495-499 | 2.1 | 10 |
| 15 | Large Electrocaloric Effect in Ferroelectric Materials. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2014**, 29, 6-12 | 1 | 9 |
| 14 | LARGE PIEZOELECTRIC EFFECT IN LOW-TEMPERATURE-SINTERED LEAD-FREE (Ba0.85Ca0.15)(Zr0.1Ti0.9)O3 THICK FILMS. *Functional Materials Letters*, **2012**, 05, 1250029 | 1.2 | 5 |
| 13 | Optical Properties of Nanocrystalline (Ba,Ca)TiO3 Thin Films Grown on Pt-Coated Silicon Substrates. *Ferroelectrics*, **2010**, 405, 268-274 | 0.6 | 1 |
| 12 | The great improvement effect of pores on ZT in Co1−xNixSb3 system. *Applied Physics Letters*, **2008**, 93, 042108 | 3.4 | 41 |
| 11 | Ferroelectric and Pyroelectric Properties of Highly (111)-oriented Nanocrystalline Pb(Zr0.95Ti0.05)O3 Thin Films. *Chinese Journal of Chemical Physics*, **2007**, 20, 763-767 | 0.9 | 3 |
| 10 | Dielectric and Pyroelectric Properties of Compositionally Graded Pb(Zr1-xTix)O3 Thin Films Prepared by Sol-gel Process. *Chinese Journal of Chemical Physics*, **2007**, 20, 665-669 | 0.9 | 7 |
| 9 | Effect of grain size on the electrical properties of (Ba,Ca)(Zr,Ti)O3 relaxor ferroelectric ceramics. *Journal of Applied Physics*, **2005**, 97, 034109 | 2.5 | 123 |
| 8 | Electrical and Pyroelectric Properties of Highly (001)-Oriented (Pb0.76Ca0.24)TiO3 Thin Films Grown by a Sol–Gel Process. *Journal of the American Ceramic Society*, **2004**, 87, 1588-1590 | 3.8 | 4 |
| 7 | Electrical properties of highly (111)-oriented lead zirconate thin films. *Solid State Communications*, **2004**, 130, 373-377 | 1.6 | 19 |
| 6 | Preparation and Electrical Properties of Highly (111)-Oriented (Na0.5Bi0.5)TiO3 Thin Films by a Sol–Gel Process. *Chemistry of Materials*, **2004**, 16, 5293-5296 | 9.6 | 75 |
| 5 | Growth and characterization of oriented Pb1−xCaxTiO3 thin films. *Thin Solid Films*, **2000**, 375, 159-162 | 2.2 | 13 |
| 4 | Preparation of (Pb, Cd, La)TiO3 Phase Pure Powders and Thin Films by Sol-gel Processing. *Journal of Materials Science Letters*, **1998**, 17, 1277-1279 | | 6 |
| 3 | Enhancement of the photoelectric properties of composite oxide TiO2-SrTiO3 thin films. *Advanced Composites and Hybrid Materials*,1 | 8.7 | 3 |
| 2 | A Review of a Good Binary Ferroelectric Ceramic: BaTiO3–BiFeO3. *ACS Applied Electronic Materials*, | 4 | 4 |

| | | | |
|---|---|---|---|
| 1 | The transformation of digital to analog resistance switching behavior in Bi2FeCrO6 thin films. *Journal of Asian Ceramic Societies*,1-7 | 2.4 | 0 |