

# Xuetong Zhao

## List of Publications by Year in descending order

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76  
papers

1,637  
citations

279798

23  
h-index

302126

39  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1226  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Study on the Insulation Ageing of 10kV XLPE Cable via Accelerated Electrical Test and Accelerated Water Tree Test. <i>Journal of Electrical Engineering and Technology</i> , 2022, 17, 475-484.	2.0	9
2	Altering interfacial properties through the integration of C60 into ZnO ceramic via cold sintering process. <i>Carbon</i> , 2022, 190, 255-261.	10.3	12
3	Tuning interfacial relaxations in P(VDF-HFP) with Al <sub>2</sub> O <sub>3</sub> @ZrO <sub>2</sub> core-shell nanofillers for enhanced dielectric and energy storage performance. <i>Composites Science and Technology</i> , 2022, 222, 109379.	7.8	25
4	Microstructural evolution of ZnO via hybrid cold sintering/spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2022, 42, 5738-5746.	5.7	16
5	Roles of Al <sub>2</sub> O <sub>3</sub> @ZrO <sub>2</sub> Particles in Modulating Crystalline Morphology and Electrical Properties of P(VDF-HFP) Nanocomposites. <i>Molecules</i> , 2022, 27, 4289.	3.8	1
6	Cold sintering ZnO based varistor ceramics with controlled grain growth to realize superior breakdown electric field. <i>Journal of the European Ceramic Society</i> , 2021, 41, 430-435.	5.7	26
7	Largely enhanced dielectric properties of polymer composites with HfO <sub>2</sub> nanoparticles for high-temperature film capacitors. <i>Composites Science and Technology</i> , 2021, 201, 108528.	7.8	121
8	Characterization of dielectric relaxations in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> via diverse complex planes: Effect of dipole polarization and dc conductivity. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 97-104.	1.1	0
9	Effect of Relative Humidity on the Surface Electric Field Intensity Characteristics under DC Voltage in a Corona Cage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021, 28, 888-896.	2.9	6
10	High-Temperature High-Energy-Density Dielectric Polymer Nanocomposites Utilizing Inorganic Core-Shell Nanostructured Nanofillers. <i>Advanced Energy Materials</i> , 2021, 11, 2101297.	19.5	130
11	Preparation of zinc oxide/poly-ether-ether-ketone (PEEK) composites via the cold sintering process. <i>Acta Materialia</i> , 2021, 215, 117036.	7.9	26
12	Cold sintered composites consisting of PEEK and metal oxides with improved electrical properties via the hybrid interfaces. <i>Composites Part B: Engineering</i> , 2021, 226, 109349.	12.0	10
13	Improved dielectric properties of indium and tantalum co-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic prepared by spark plasma sintering. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 1400-1408.	2.9	7
14	High temperature ac conductivity relaxations in dielectric ceramics: grain boundary/intergranular phase effects. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16468-16478.	2.2	4
15	Enhanced electrical properties of ZnO varistor ceramics by spark plasma sintering: Role of annealing. <i>Ceramics International</i> , 2020, 46, 15076-15083.	4.8	17
16	Cold sintering of ZnO-PTFE: Utilizing polymer phase to promote ceramic anisotropic grain growth. <i>Acta Materialia</i> , 2020, 186, 511-516.	7.9	24
17	The Variation of Electric Field on the Conductor Surface Characterized by Space Charge Density. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 282-291.	0.4	0
18	Enhanced Energy Storage Performance with High-Temperature Stability of Polyetherimide Nanocomposites. , 2020, , .		2

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19	Variation of surface electric field intensity determined by space charge density at different temperatures. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1660-1668.	2.9	2
20	The effect of air pressure on the surface electric field intensity characteristics under negative DC corona discharge in a corona cage. International Journal of Electrical Power and Energy Systems, 2019, 113, 244-250.	5.5	5
21	Enhanced electrical properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by spark plasma sintering: Role of Zn and Al co-doping. Journal of Alloys and Compounds, 2019, 792, 1079-1087.	5.5	35
22	Corona onset criterion and surface electric field intensity characterized by space charge density. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1973-1980.	2.9	6
23	Understanding the anti-icing property of nanostructured superhydrophobic aluminum surface during glaze ice accretion. International Journal of Heat and Mass Transfer, 2019, 133, 119-128.	4.8	29
24	A novel and facile way to fabricate transparent superhydrophobic film on glass with self-cleaning and stability. Materials Letters, 2019, 239, 48-51.	2.6	32
25	Introducing a ZnO@PTFE (Polymer) Nanocomposite Varistor via the Cold Sintering Process. Advanced Engineering Materials, 2018, 20, 1700902.	3.5	55
26	Measuring the charge density along the radius in concentric cylinders configuration by sensing system. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 181-189.	2.9	5
27	Calculation of Space Charge Density in Negative Corona Based on Finite-Element Iteration and Sound Pulse Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	4
28	Effect of spark plasma sintering process on dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /Ti <sub>4</sub> O <sub>7</sub> /O <sub>2</sub> ceramics. , 2018, , .		0
29	Improving the anti-icing/frosting property of a nanostructured superhydrophobic surface by the optimum selection of a surface modifier. RSC Advances, 2018, 8, 19906-19916.	3.6	21
30	Improvement of breakdown field and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by Bi and Al co-doping. Journal of Alloys and Compounds, 2018, 768, 652-658.	5.5	51
31	Effect of impulse current degradation on the electrical properties and dielectric relaxations of ZnO-based ceramic varistors. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 975-983.	2.9	13
32	Research on Corona Discharge Characteristics Based on Hybrid Numerical Algorithm. IEEE Transactions on Plasma Science, 2018, 46, 4037-4043.	1.3	3
33	Recent Progress in Applications of the Cold Sintering Process for Ceramic@Polymer Composites. Advanced Functional Materials, 2018, 28, 1801724.	14.9	110
34	Structure and dielectric relaxations of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by heat treatments in different atmospheres. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 764-773.	2.9	12
35	Effect of CeO <sub>2</sub> and ZrO <sub>2</sub> doping on the dielectric characteristics of CCTO ceramics. , 2017, , .		0
36	AC breakdown and frequency dielectric response characteristics of the mixed oil-paper insulation with different moisture content. , 2017, , .		3

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37	Anti-frosting performance of superhydrophobic surface with ZnO nanorods. Applied Thermal Engineering, 2017, 110, 39-48.	6.0	98
38	Fabrication of Self-Cleaning and Anti-Icing Durable Surface on Glass. Journal of Nanoscience and Nanotechnology, 2017, 17, 420-426.	0.9	9
39	Recent research progress of relaxation performances of defects in ZnO-Bi <sub>2</sub> O <sub>3</sub> varistor ceramics. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 027701.	0.5	1
40	The influence of thermal insulation position in building exterior walls on indoor thermal comfort and energy consumption of residential buildings in Chongqing. IOP Conference Series: Earth and Environmental Science, 2016, 40, 012081.	0.3	5
41	Development of a one-dimensional distribution of space charge measurement system. , 2016, , .		0
42	Influence of nano-Al <sub>2</sub> O <sub>3</sub> on electrical properties of insulation paper under thermal aging. , 2016, , .		1
43	Effect of nano-Al <sub>2</sub> O <sub>3</sub> on the thermal aging physicochemical properties of insulating paper. , 2016, , .		2
44	Study on ageing characteristics of insulating pressboard impregnated by mineral-vegetable oil. , 2016, , .		2
45	Role of Relaxation on the Giant Permittivity and Electrical Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. Journal of Electronic Materials, 2016, 45, 3079-3086.	2.2	9
46	A new accelerated thermal aging test for over-loading condition transformer. , 2016, , .		3
47	Facile Fabrication of Transparent Superhydrophobic Film Based on PTFE by One-Step Hot Melting Process. Journal of Nanoscience and Nanotechnology, 2016, 16, 9867-9869.	0.9	1
48	Effect of temperature on 2-furfural partitioning in the oil-paper system of power transformers. , 2016, , .		7
49	Effects of temperature and aging on furfural partitioning in the oil-paper system of power transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1393-1401.	2.9	40
50	Preparation, characterization and dielectric response of a high-breakdown-field ZnO-based varistor. Journal of Materials Science: Materials in Electronics, 2016, 27, 9196-9205.	2.2	3
51	Measurement of Charge Density Distribution in Negative Corona on a Coaxial Cylinder Model Using Sound Wave. IEEE Transactions on Power Delivery, 2016, 31, 404-406.	4.3	1
52	Improvement on dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics by heat treatment in rich oxygen atmosphere. , 2015, , .		0
53	Influence of DC degradation on the dielectric response of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. , 2015, , .		0
54	PVDF energy-harvesting devices: Film preparation, electric poling, energy-harvesting efficiency. , 2015, , .		6

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55	Fabrication and anti-icing property of superhydrophobic coatings on insulator. , 2015, , .		3
56	Ice accretion on superhydrophobic insulators under freezing condition. Cold Regions Science and Technology, 2015, 112, 87-94.	3.5	38
57	Fabrication and anti-icing property of coral-like superhydrophobic aluminum surface. Applied Surface Science, 2015, 331, 132-139.	6.1	92
58	Anti-icing performance in glaze ice of nanostructured film prepared by RF magnetron sputtering. Applied Surface Science, 2015, 356, 539-545.	6.1	31
59	Calculating model of insulation life loss of dry- type transformer based on the hot-spot temperature. , 2015, , .		11
60	Numerical Simulation of the Characteristics of Electrons in Bar-plate DC Negative Corona Discharge Based on a Plasma Chemical Model. Journal of Electrical Engineering and Technology, 2015, 10, 1804-1814.	2.0	12
61	Effect of the Oxidizing Atmosphere on the Microstructure and Dielectric Properties of $\text{CaCu}_{3}\text{Ti}_{4}\text{O}_{12}$ Ceramics. Wuli Xuebao/Journal of Inorganic Materials, 2015, 30, 1303.	1.3	1
62	Measurement of space charges in air based on sound pulse method. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 164301.	0.5	2
63	Effect of direct current degradation on dielectric property of $\text{CaCu}_{3}\text{Ti}_{4}\text{O}_{12}$ ceramic. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 127701.	0.5	1
64	Study on the electrical properties and defect structures of a high voltage gradient ZnO varistor. , 2014, , .		0
65	Colossal breakdown electric field and dielectric response of Al-doped $\text{CaCu}_{3}\text{Ti}_{4}\text{O}_{12}$ ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 185, 79-85.	3.5	65
66	Role of defects in determining the electrical properties of ZnO ceramics. Journal of Applied Physics, 2014, 116, .	2.5	42
67	Fractal analysis of side channels for breakdown structures in XLPE cable insulation. Journal of Materials Science: Materials in Electronics, 2013, 24, 1640-1643.	2.2	11
68	Enhanced electric breakdown field of $\text{CaCu}_{3}\text{Ti}_{4}\text{O}_{12}$ ceramics: tuning of grain boundary by a secondary phase. Journal Physics D: Applied Physics, 2013, 46, 325304.	2.8	30
69	Large breakdown field and dielectric performance of $\text{CaCu}_{3}\text{Ti}_{4}\text{O}_{12}$ ceramics modified by $\text{Al}_{2}\text{O}_{3}$ , 2013, , .		1
70	The Effect of DC degradation and heat-treatment on defects in ZnO varistor. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 077701.	0.5	6
71	Defects and dc electrical degradation in $\text{CaCu}_{3}\text{Ti}_{4}\text{O}_{12}$ ceramics: Role of oxygen vacancy migration. Applied Physics Letters, 2012, 100, .	3.3	57
72	Intrinsic and extrinsic defect relaxation behavior of ZnO ceramics. Journal of Applied Physics, 2012, 111, .	2.5	68

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73	DC degradation of ZnO varistor and its restorability by heat-treatment. , 2012, , .		2
74	The effect of accelerated water tree ageing on the properties of XLPE cable insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1562-1569.	2.9	76
75	The impulse current degradation of ZnO varistor ceramics. , 2011, , .		3
76	Intrinsic and extrinsic relaxation of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics: Effect of sintering. Journal of Applied Physics, 2010, 108, .	2.5	74