

# 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	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
2	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
3	Recent Progress in Applications of the Cold Sintering Process for Ceramic-Polymer Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1801724.	14.9	110
4	Anti-frosting performance of superhydrophobic surface with ZnO nanorods. <i>Applied Thermal Engineering</i> , 2017, 110, 39-48.	6.0	98
5	Fabrication and anti-icing property of coral-like superhydrophobic aluminum surface. <i>Applied Surface Science</i> , 2015, 331, 132-139.	6.1	92
6	The effect of accelerated water tree ageing on the properties of XLPE cable insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2011, 18, 1562-1569.	2.9	76
7	Intrinsic and extrinsic relaxation of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics: Effect of sintering. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	74
8	Intrinsic and extrinsic defect relaxation behavior of ZnO ceramics. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	68
9	Colossal breakdown electric field and dielectric response of Al-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 185, 79-85.	3.5	65
10	Defects and dc electrical degradation in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics: Role of oxygen vacancy migration. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	57
11	Introducing a ZnO-PTFE (Polymer) Nanocomposite Varistor via the Cold Sintering Process. <i>Advanced Engineering Materials</i> , 2018, 20, 1700902.	3.5	55
12	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. <i>Journal of Alloys and Compounds</i> , 2018, 768, 652-658.	5.5	51
13	Role of defects in determining the electrical properties of ZnO ceramics. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	42
14	Effects of temperature and aging on furfural partitioning in the oil-paper system of power transformers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 1393-1401.	2.9	40
15	Ice accretion on superhydrophobic insulators under freezing condition. <i>Cold Regions Science and Technology</i> , 2015, 112, 87-94.	3.5	38
16	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. <i>Journal of Alloys and Compounds</i> , 2019, 792, 1079-1087.	5.5	35
17	A novel and facile way to fabricate transparent superhydrophobic film on glass with self-cleaning and stability. <i>Materials Letters</i> , 2019, 239, 48-51.	2.6	32
18	Anti-icing performance in glaze ice of nanostructured film prepared by RF magnetron sputtering. <i>Applied Surface Science</i> , 2015, 356, 539-545.	6.1	31

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19	Enhanced electric breakdown field of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics: tuning of grain boundary by a secondary phase. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 325304.	2.8	30
20	Understanding the anti-icing property of nanostructured superhydrophobic aluminum surface during glaze ice accretion. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 119-128.	4.8	29
21	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
22	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
23	Tuning interfacial relaxations in P(VDF-HFP) with $\text{Al}_2\text{O}_3@Zr\text{O}_2$ core-shell nanofillers for enhanced dielectric and energy storage performance. <i>Composites Science and Technology</i> , 2022, 222, 109379.	7.8	25
24	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
25	Improving the anti-icing/frosting property of a nanostructured superhydrophobic surface by the optimum selection of a surface modifier. <i>RSC Advances</i> , 2018, 8, 19906-19916.	3.6	21
26	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
27	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
28	Effect of impulse current degradation on the electrical properties and dielectric relaxations of ZnO-based ceramic varistors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 975-983.	2.9	13
29	Structure and dielectric relaxations of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics by heat treatments in different atmospheres. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 764-773.	2.9	12
30	Numerical Simulation of the Characteristics of Electrons in Bar-plate DC Negative Corona Discharge Based on a Plasma Chemical Model. <i>Journal of Electrical Engineering and Technology</i> , 2015, 10, 1804-1814.	2.0	12
31	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
32	Fractal analysis of side channels for breakdown structures in XLPE cable insulation. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1640-1643.	2.2	11
33	Calculating model of insulation life loss of dry-type transformer based on the hot-spot temperature. , 2015, , .		11
34	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
35	Role of Relaxation on the Giant Permittivity and Electrical Properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Ceramics. <i>Journal of Electronic Materials</i> , 2016, 45, 3079-3086.	2.2	9
36	Fabrication of Self-Cleaning and Anti-Icing Durable Surface on Glass. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 420-426.	0.9	9

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37	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
38	Effect of temperature on 2-furfural partitioning in the oil-paper system of power transformers. , 2016, , .		7
39	Improved dielectric properties of indium and tantalum co-doped $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramic prepared by spark plasma sintering. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 1400-1408.	2.9	7
40	PVDF energy-harvesting devices: Film preparation, electric poling, energy-harvesting efficiency. , 2015, , .		6
41	Corona onset criterion and surface electric field intensity characterized by space charge density. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 1973-1980.	2.9	6
42	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
43	The Effect of DC degradation and heat-treatment on defects in ZnO varistor. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013, 62, 077701.	0.5	6
44	The influence of thermal insulation position in building exterior walls on indoor thermal comfort and energy consumption of residential buildings in Chongqing. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 40, 012081.	0.3	5
45	Measuring the charge density along the radius in concentric cylinders configuration by sensing system. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 181-189.	2.9	5
46	The effect of air pressure on the surface electric field intensity characteristics under negative DC corona discharge in a corona cage. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 113, 244-250.	5.5	5
47	Calculation of Space Charge Density in Negative Corona Based on Finite-Element Iteration and Sound Pulse Method. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	4
48	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
49	The impulse current degradation of ZnO varistor ceramics. , 2011, , .		3
50	Fabrication and anti-icing property of superhydrophobic coatings on insulator. , 2015, , .		3
51	A new accelerated thermal aging test for over-loading condition transformer. , 2016, , .		3
52	Preparation, characterization and dielectric response of a high-breakdown-field ZnO-based varistor. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9196-9205.	2.2	3
53	AC breakdown and frequency dielectric response characteristics of the mixed oil-paper insulation with different moisture content. , 2017, , .		3
54	Research on Corona Discharge Characteristics Based on Hybrid Numerical Algorithm. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 4037-4043.	1.3	3

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55	DC degradation of ZnO varistor and its restorability by heat-treatment. , 2012, , .		2
56	Effect of nano-Al <sub>2</sub> O <sub>3</sub> on the thermal aging physicochemical properties of insulating paper. , 2016, , .		2
57	Study on ageing characteristics of insulating pressboard impregnated by mineral-vegetable oil. , 2016, , .		2
58	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
59	Measurement of space charges in air based on sound pulse method. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 164301.	0.5	2
60	Enhanced Energy Storage Performance with High-Temperature Stability of Polyetherimide Nanocomposites. , 2020, , .		2
61	Large breakdown field and dielectric performance of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics modified by Al <sub>2</sub> O <sub>3</sub> . , 2013, , .		1
62	Influence of nano-Al <sub>2</sub> O <sub>3</sub> on electrical properties of insulation paper under thermal aging. , 2016, , .		1
63	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
64	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
65	Effect of the Oxidizing Atmosphere on the Microstructure and Dielectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. Wuli Xuebao/Journal of Inorganic Materials, 2015, 30, 1303.	1.3	1
66	Effect of direct current degradation on dielectric property of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 127701.	0.5	1
67	Recent research progress of relaxation performances of defects in ZnO-Bi <sub>2</sub> O <sub>3</sub> varistor ceamics. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 027701.	0.5	1
68	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. Molecules, 2022, 27, 4289.	3.8	1
69	Study on the electrical properties and defect structures of a high voltage gradient ZnO varistor. , 2014, , .		0
70	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
71	Influence of DC degradation on the dielectric response of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. , 2015, , .		0
72	Development of a one-dimensional distribution of space charge measurement system. , 2016, , .		0

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73	Effect of CeO <sub>2</sub> and ZrO <sub>2</sub> doping on the dielectric characteristics of CCTO ceramics. , 2017, , .		0
74	Effect of spark plasma sintering process on dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. , 2018, , .		0
75	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. Journal of the Ceramic Society of Japan, 2021, 129, 97-104.	1.1	0
76	The Variation of Electric Field on the Conductor Surface Characterized by Space Charge Density. Lecture Notes in Electrical Engineering, 2020, , 282-291.	0.4	0