

Xuetong Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3118682/publications.pdf>

Version: 2024-02-01

76
papers

1,637
citations

279487

23
h-index

301761

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. | 1.2 | 9 |
| 2 | Altering interfacial properties through the integration of C60 into ZnO ceramic via cold sintering process. <i>Carbon</i> , 2022, 190, 255-261. | 5.4 | 12 |
| 3 | Tuning interfacial relaxations in P(VDF-HFP) with Al ₂ O ₃ @ZrO ₂ core-shell nanofillers for enhanced dielectric and energy storage performance. <i>Composites Science and Technology</i> , 2022, 222, 109379. | 3.8 | 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. | 2.8 | 16 |
| 5 | Roles of Al ₂ O ₃ @ZrO ₂ Particles in Modulating Crystalline Morphology and Electrical Properties of P(VDF-HFP) Nanocomposites. <i>Molecules</i> , 2022, 27, 4289. | 1.7 | 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. | 2.8 | 26 |
| 7 | Largely enhanced dielectric properties of polymer composites with HfO ₂ nanoparticles for high-temperature film capacitors. <i>Composites Science and Technology</i> , 2021, 201, 108528. | 3.8 | 121 |
| 8 | Characterization of dielectric relaxations in CaCu ₃ Ti ₄ O ₁₂ via diverse complex planes: Effect of dipole polarization and dc conductivity. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 97-104. | 0.5 | 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. | 1.8 | 6 |
| 10 | High-Temperature High-Energy-Density Dielectric Polymer Nanocomposites Utilizing Inorganic Core-Shell Nanostructured Nanofillers. <i>Advanced Energy Materials</i> , 2021, 11, 2101297. | 10.2 | 130 |
| 11 | Preparation of zinc oxide/poly-ether-ether-ketone (PEEK) composites via the cold sintering process. <i>Acta Materialia</i> , 2021, 215, 117036. | 3.8 | 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. | 5.9 | 10 |
| 13 | Improved dielectric properties of indium and tantalum co-doped CaCu ₃ Ti ₄ O ₁₂ ceramic prepared by spark plasma sintering. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 1400-1408. | 1.8 | 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. | 1.1 | 4 |
| 15 | Enhanced electrical properties of ZnO varistor ceramics by spark plasma sintering: Role of annealing. <i>Ceramics International</i> , 2020, 46, 15076-15083. | 2.3 | 17 |
| 16 | Cold sintering of ZnO-PTFE: Utilizing polymer phase to promote ceramic anisotropic grain growth. <i>Acta Materialia</i> , 2020, 186, 511-516. | 3.8 | 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. | 0.3 | 0 |
| 18 | Enhanced Energy Storage Performance with High-Temperature Stability of Polyetherimide Nanocomposites. , 2020, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 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. | 1.8 | 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. | 3.3 | 5 |
| 21 | Enhanced electrical properties of CaCu ₃ Ti ₄ O ₁₂ ceramics by spark plasma sintering: Role of Zn and Al co-doping. Journal of Alloys and Compounds, 2019, 792, 1079-1087. | 2.8 | 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. | 1.8 | 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. | 2.5 | 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. | 1.3 | 32 |
| 25 | Introducing a ZnO@PTFE (Polymer) Nanocomposite Varistor via the Cold Sintering Process. Advanced Engineering Materials, 2018, 20, 1700902. | 1.6 | 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. | 1.8 | 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. | 1.2 | 4 |
| 28 | Effect of spark plasma sintering process on dielectric properties of CaCu ₃ Ti ₄ O ₁₂ /Ti ₄ O ₃ /O ₂ 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. | 1.7 | 21 |
| 30 | Improvement of breakdown field and dielectric properties of CaCu ₃ Ti ₄ O ₁₂ ceramics by Bi and Al co-doping. Journal of Alloys and Compounds, 2018, 768, 652-658. | 2.8 | 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. | 1.8 | 13 |
| 32 | Research on Corona Discharge Characteristics Based on Hybrid Numerical Algorithm. IEEE Transactions on Plasma Science, 2018, 46, 4037-4043. | 0.6 | 3 |
| 33 | Recent Progress in Applications of the Cold Sintering Process for Ceramic@Polymer Composites. Advanced Functional Materials, 2018, 28, 1801724. | 7.8 | 110 |
| 34 | Structure and dielectric relaxations of CaCu ₃ Ti ₄ O ₁₂ ceramics by heat treatments in different atmospheres. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 764-773. | 1.8 | 12 |
| 35 | Effect of CeO ₂ and ZrO ₂ 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Anti-frosting performance of superhydrophobic surface with ZnO nanorods. Applied Thermal Engineering, 2017, 110, 39-48. | 3.0 | 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 ₂ O ₃ varistor ceramics. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 027701. | 0.2 | 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. | 0.2 | 5 |
| 41 | Development of a one-dimensional distribution of space charge measurement system. , 2016, , . | | 0 |
| 42 | Influence of nano-Al ₂ O ₃ on electrical properties of insulation paper under thermal aging. , 2016, , . | | 1 |
| 43 | Effect of nano-Al ₂ O ₃ 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 ₃ Ti ₄ O ₁₂ Ceramics. Journal of Electronic Materials, 2016, 45, 3079-3086. | 1.0 | 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. | 1.8 | 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. | 1.1 | 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. | 2.9 | 1 |
| 52 | Improvement on dielectric properties of CaCu ₃ Ti ₄ O ₁₂ ceramics by heat treatment in rich oxygen atmosphere. , 2015, , . | | 0 |
| 53 | Influence of DC degradation on the dielectric response of CaCu ₃ Ti ₄ O ₁₂ Ceramics. , 2015, , . | | 0 |
| 54 | PVDF energy-harvesting devices: Film preparation, electric poling, energy-harvesting efficiency. , 2015, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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. | 1.6 | 38 |
| 57 | Fabrication and anti-icing property of coral-like superhydrophobic aluminum surface. Applied Surface Science, 2015, 331, 132-139. | 3.1 | 92 |
| 58 | Anti-icing performance in glaze ice of nanostructured film prepared by RF magnetron sputtering. Applied Surface Science, 2015, 356, 539-545. | 3.1 | 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. | 1.2 | 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. | 0.6 | 1 |
| 62 | Measurement of space charges in air based on sound pulse method. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 164301. | 0.2 | 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. | 0.2 | 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. | 1.7 | 65 |
| 66 | Role of defects in determining the electrical properties of ZnO ceramics. Journal of Applied Physics, 2014, 116, . | 1.1 | 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. | 1.1 | 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. | 1.3 | 30 |
| 69 | Large breakdown field and dielectric performance of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics modified by Al_2O_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. | 0.2 | 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, . | 1.5 | 57 |
| 72 | Intrinsic and extrinsic defect relaxation behavior of ZnO ceramics. Journal of Applied Physics, 2012, 111, . | 1.1 | 68 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 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. | 1.8 | 76 |
| 75 | The impulse current degradation of ZnO varistor ceramics. , 2011, , . | | 3 |
| 76 | Intrinsic and extrinsic relaxation of CaCu ₃ Ti ₄ O ₁₂ ceramics: Effect of sintering. Journal of Applied Physics, 2010, 108, . | 1.1 | 74 |