

# Zhengyong Huang

## List of Publications by Year in descending order

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135  
papers

2,488  
citations

236925

25  
h-index

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46  
g-index

141  
all docs

141  
docs citations

141  
times ranked

2612  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Oriented BN/Silicone rubber composite thermal interface materials with high out-of-plane thermal conductivity and flexibility. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 152, 106681.                            | 7.6 | 59        |
| 2  | Pomegranate-Inspired Biomimetic Pressure Sensor Arrays With a Wide Range and High Linear Sensitivity for Human-Machine Interaction. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1353-1358.                                    | 3.0 | 8         |
| 3  | Low-Temperature Property Improvement on Green and Low-Carbon Natural Ester Insulating Oil. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022, 29, 1459-1464.  | 2.9 | 8         |
| 4  | Recyclable and High-Performance Thermosetting Polymers for Digital Light Processing 3D Printing. , 2022, , .   |     | 0         |
| 5  | Gas-Sensing Properties of Dissolved Gases in Insulating Material Adsorbed on SnO <sub>2</sub> -GeSe Monolayer. <i>Chemosensors</i> , 2022, 10, 212.  | 3.6 | 9         |
| 6  | Strong anharmonicity induced low lattice thermal conductivity and high thermoelectric performance in (CuInTe <sub>2</sub> ) <sub>1-x</sub> (AgSbTe <sub>2</sub> ) <sub>x</sub> system. <i>Applied Physics Letters</i> , 2022, 121, 013903. | 3.3 | 1         |
| 7  | Filler concentration effect on breakdown strength and trap level of epoxy resin-Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Polymer Bulletin</i> , 2021, 78, 5891-5903.  | 3.3 | 7         |
| 8  | Transition-Metal Carbides as Hydrogen Evolution Reduction Electrocatalysts: Synthetic Methods and Optimization Strategies. <i>Chemistry - A European Journal</i> , 2021, 27, 5074-5090.  | 3.3 | 41        |
| 9  | Suppressing ion aggregation on cellulose surface by bio-dielectric liquids: Insights from molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2021, 327, 114805.   | 4.9 | 1         |
| 10 | Branching Initial Streamers to Inhibit the Streamer Propagation in Natural Ester-based Nanofluid. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021, 28, 116-123.   | 2.9 | 8         |
| 11 | Role of Cellulose Nanofiber/Boron Nitride Hybrids in the Thermal Conductivity and Dielectric Strength of Liquid-Crystalline Epoxy Resin. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021, 28, 11-18.              | 2.9 | 9         |
| 12 | Enhanced Pollution Flashover of a Slurry Coalescence Superhydrophobic Coating. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021, 28, 310-317.  | 2.9 | 14        |
| 13 | A Real-Time Electricity Price Decision Model for Demand Side Management in Wind Power Heating Mode. <i>Frontiers in Energy Research</i> , 2021, 9, .   | 2.3 | 3         |
| 14 | Design of 3D printed bioinspired nacre-like structured materials with significantly enhanced thermal conductivity. <i>Applied Physics Letters</i> , 2021, 118, .   | 3.3 | 18        |
| 15 | Study on energy storage properties of Metal-organic frameworks nanofluids (UIO-67/Water and) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> 10008-10017.  | 3.7 | 3         |
| 16 | Optimized Energy Storage System Configuration for Voltage Regulation of Distribution Network With PV Access. <i>Frontiers in Energy Research</i> , 2021, 9, .  | 2.3 | 11        |
| 17 | Influence of Fiber Diameters on the Thermal Conductivity of Liquid Crystal Epoxy Resin Film. , 2021, , .   |     | 2         |
| 18 | Effect of Temperature on Dielectric Properties of Metallized Film Capacitor. , 2021, , .   |     | 1         |

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|----|---|------|-----------|
| 19 | The Orientation of BN Nanosheet in Polyimide to Improve the Thermal Conductivity of Epoxy Resin. , 2021, , .  |      | 0         |
| 20 | Oil Flow Electrification of Insulating Oil Detected by The Triboelectric Effect. , 2021, , .  |      | 0         |
| 21 | Enhanced Thermoelectric Performance of Bi <sub>2</sub> Te <sub>3</sub> through Uniform Dispersion of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> . , 2021, , .  |      | 0         |
| 22 | Enhance the Surface Flashover Performance of the Fluorocarbon Coating Compositied with SiC Particles. , 2021, , .   |      | 1         |
| 23 | Molecular Dynamics Simulation for the Effect of Fluorinated Graphene Oxide Layer Spacing on the Thermal and Mechanical Properties of Fluorinated Epoxy Resin. Nanomaterials, 2021, 11, 1344.  | 4.1  | 7         |
| 24 | Experiment and Simulation of Pressboard Barrier Effect on the Streamer Propagation in Natural Ester During Positive Pulsed Voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 864-871.  | 2.9  | 1         |
| 25 | Plasmonic photothermal film for defogging and anti-icing/deicing on PTFE. Journal of Alloys and Compounds, 2021, 866, 158827.   | 5.5  | 25        |
| 26 | Study on the Thermal Stability of Urea-Formaldehyde Resin Microcapsules with Nanosilica Incorporation by Molecular Dynamics Simulation and Experiments. Macromolecular Theory and Simulations, 2021, 30, 2100009.   | 1.4  | 2         |
| 27 | A hybrid plasma de-icing actuator by using SiC hydrophobic coating-based quartz glass as barrier dielectric. Journal Physics D: Applied Physics, 2021, 54, 375202.  | 2.8  | 6         |
| 28 | A Comparative Study of Gas-phase Fluorination and Nano-Al <sub>2</sub> O <sub>3</sub> Doping on Space Charge Behavior and Trap Level in Epoxy Resin. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1093-1100.                     | 2.9  | 5         |
| 29 | Numerical Evaluation on the Propagation of Non-breakdown Streamer in Natural Ester under Negative Lightning Impulse Voltage via Shadowgraph Imaging. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1198-1206.                     | 2.9  | 3         |
| 30 | Molecular-level evaluation of ionic transport under external electric fields in biological dielectric liquids. Journal of Molecular Liquids, 2021, 340, 116883.   | 4.9  | 5         |
| 31 | Exponentially reduced carrier mobility of natural ester via blocking effect of 2D hexagonal boron nitride nanosheets. High Voltage, 2021, 6, 219-229.   | 4.7  | 8         |
| 32 | Self-healing of mechanical damage of polyethylene/microcapsules electrical insulation composite material. Journal of Materials Science: Materials in Electronics, 2021, 32, 26329-26340.  | 2.2  | 4         |
| 33 | Synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanostructures with different morphologies for supercapacitor. Synthetic Metals, 2021, 282, 116954.   | 3.9  | 9         |
| 34 | DLP 3D Printing of High-Performance Epoxy Resin Via Dual Curing. , 2021, , .  |      | 3         |
| 35 | Preparation of two-dimensional titanium carbide (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) and NiCo <sub>2</sub> O <sub>4</sub> composites to achieve excellent microwave absorption properties. Composites Part B: Engineering, 2020, 180, 107577. | 12.0 | 201       |
| 36 | Preparation of Ionic Liquid-Coated Graphene Nanosheets/PTFE Nanocomposite for Stretchable, Flexible Conductor via a Pre-Stretch Processing. Nanomaterials, 2020, 10, 40.  | 4.1  | 4         |

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|----|---|------|-----------|
| 37 | D-ribose directed one-step fabrication of modifier-free C/NiCo <sub>2</sub> O <sub>4</sub> nanowires with advanced electrochemical performance. <i>Electrochimica Acta</i> , 2020, 358, 136926.                                     | 5.2  | 5         |
| 38 | Achieving Ultrahigh Output Energy Density of Triboelectric Nanogenerators in High-Pressure Gas Environment. <i>Advanced Science</i> , 2020, 7, 2001757.   | 11.2 | 59        |
| 39 | Simulation of the effect of carrier density fluctuations on initial streamer branching in natural ester during pulsed positive discharges. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 1604-1610. | 2.9  | 10        |
| 40 | Decomposition analysis of camellia oil under electric fields: An experimental and molecular simulation study. <i>Modern Physics Letters B</i> , 2020, 34, 2050431.  | 1.9  | 1         |
| 41 | Triboelectric Energy Harvesting of the Superhydrophobic Coating from Dropping Water. <i>Polymers</i> , 2020, 12, 1936.  | 4.5  | 15        |
| 42 | Molecular dynamics simulations of performance degradation of cellulose nanofibers (CNFs) under hygrothermal environments. <i>Molecular Simulation</i> , 2020, 46, 1172-1180.  | 2.0  | 5         |
| 43 | 3D porous graphene/NiCo <sub>2</sub> O <sub>4</sub> hybrid film as an advanced electrode for supercapacitors. <i>Applied Surface Science</i> , 2020, 534, 147598.   | 6.1  | 23        |
| 44 | Rational design of perfect interface coupling to boost electrocatalytical oxygen reduction. <i>Nano Energy</i> , 2020, 76, 105055.  | 16.0 | 20        |
| 45 | Influence of treated nano-alumina and gas-phase fluorination on the dielectric properties of epoxy resin/alumina nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 410-417.             | 2.9  | 14        |
| 46 | Flexible triboelectric 3D touch pad with unit subdivision structure for effective XY positioning and pressure sensing. <i>Nano Energy</i> , 2020, 76, 105047.   | 16.0 | 69        |
| 47 | Experimental and theoretical studies on the thermal stability and decomposition mechanism of HFO-1336mzz(Z) with POE lubricant. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 147, 104795.                             | 5.5  | 13        |
| 48 | Relationship between the Electrical Characteristics of Molecules and Fast Streamers in Ester Insulation Oil. <i>International Journal of Molecular Sciences</i> , 2020, 21, 974.  | 4.1  | 16        |
| 49 | Recent advancements in heterostructured interface engineering for hydrogen evolution reaction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6926-6956.   | 10.3 | 158       |
| 50 | Self-ejections of multiple isolated slushes on disorderly grooved superhydrophobic surfaces. <i>Applied Physics Letters</i> , 2020, 116, 053702.  | 3.3  | 2         |
| 51 | Is There Existing A Gaseous Process During the Propagation of Streamer in the Natural Ester?. , 2020, , .   |      | 0         |
| 52 | Graphene/NiCo <sub>2</sub> O <sub>4</sub> Composite as Electrode Material for Supercapacitors. , 2020, , .  |      | 0         |
| 53 | Surface Charge Stability of High Temperature Phosphatized Biaxially Oriented Polypropylene Film. , 2020, , .  |      | 0         |
| 54 | Ageing Characterization of Transformer Paper Insulation Based on Dispersion Staining Colors of Cellulose Fibers in Oil. , 2020, , .   |      | 2         |

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|----|---|------|-----------|
| 55 | Nickel Cobalt Hydroxide/Reduced Graphene Oxide and Its Electrochemical Performance. , 2020, , .   |      | 0         |
| 56 | Effect of water states on mechanical properties of cellulose insulation paper: A molecular dynamics simulation study. , 2020, , .   |      | 1         |
| 57 | Controlled preparation of MOF for performance improvement of vegetable insulating oil. , 2020, , .  |      | 0         |
| 58 | Suppression of Surface Charge Accumulation on Rough RTV Silicone Rubber. , 2020, , .  |      | 0         |
| 59 | Low Water Adhesion Enhances the Pollution Flashover Performance of Superhydrophobic Coating. , 2020, , .  |      | 2         |
| 60 | Preparation and Properties of Nano-Cellulose Modified Natural Ester Liquids. , 2019, , .  |      | 1         |
| 61 | Effect of h-BN and Fe <sub>3</sub> O <sub>4</sub> nanoparticles on streamer propagation and dissipation in vegetable oil based nanofluids. AIP Advances, 2019, 9, .                                   | 1.3  | 8         |
| 62 | Study on electrical properties of superhydrophobic coating covered with moss. , 2019, , .   |      | 0         |
| 63 | Significantly Enhanced Electrical Performances of Eco-Friendly Dielectric Liquids for Harsh Conditions with Fullerene. Nanomaterials, 2019, 9, 989.   | 4.1  | 24        |
| 64 | Study on Preparation and Thermal Conductivity of Liquid Crystal Epoxy Resin filled with Nano-cellulose/ BNNSs. , 2019, , .  |      | 1         |
| 65 | Surfaceâ€Electron Coupling for Efficient Hydrogen Evolution. Angewandte Chemie, 2019, 131, 17873-17881.   | 2.0  | 8         |
| 66 | Synthesis of trimethylolpropane fatty acid triester as a high performance electrical insulating oil. Industrial Crops and Products, 2019, 142, 111834.  | 5.2  | 25        |
| 67 | Surfaceâ€Electron Coupling for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 17709-17717.  | 13.8 | 42        |
| 68 | The Energy Storage Properties of Refrigerants (R170, R134a, R143a, and R152a) in Mof-5 Nanoparticles: A Molecular Simulation Approach. Materials, 2019, 12, 3577.                                     | 2.9  | 4         |
| 69 | Improved Thermal Conductivity and Mechanical Property of PTFE Reinforced with Al <sub>2</sub> O <sub>3</sub> . Nano, 2019, 14, 1950064.   | 1.0  | 8         |
| 70 | A strategy to promote efficiency and durability for sliding energy harvesting by designing alternating magnetic stripe arrays in triboelectric nanogenerator. Nano Energy, 2019, 66, 104087.          | 16.0 | 60        |
| 71 | Morphology-dependent electromagnetic wave absorbing properties of iron-based absorbers: one-dimensional, two-dimensional, and three-dimensional classification. EPJ Applied Physics, 2019, 87, 20901. | 0.7  | 14        |
| 72 | Molecular dynamics studies of the mechanical behaviors and thermal conductivity of the DGEBA/MTHPA/CNB composites. Composites Part B: Engineering, 2019, 164, 659-666.                                | 12.0 | 34        |

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|----|---|------|-----------|
| 73 | Dual Substitution and Spark Plasma Sintering to Improve Ionic Conductivity of Garnet Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> . <i>Nanomaterials</i> , 2019, 9, 721.                                     | 4.1  | 13        |
| 74 | A review of metal oxide-related microwave absorbing materials from the dimension and morphology perspective. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10961-10984.                             | 2.2  | 103       |
| 75 | Tunable microwave absorbing property of La <sub>x</sub> FeO <sub>3</sub> /C by introducing A-site cation deficiency. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13474-13487.                     | 2.2  | 50        |
| 76 | Significantly Improved Electrical Breakdown Strength of Natural Ester Liquid Dielectrics by Doping Ultraviolet Absorbing Molecules. <i>IEEE Access</i> , 2019, 7, 73448-73454.  | 4.2  | 16        |
| 77 | Development of spindle-cone shaped of Fe <sup>1±</sup> -Fe <sub>2</sub> O <sub>3</sub> hybrids and their superior wideband electromagnetic absorption performance. <i>Journal of Alloys and Compounds</i> , 2019, 799, 216-223. | 5.5  | 75        |
| 78 | DC breakdown and flashover characteristics of direct fluorinated epoxy/Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 702-737.                    | 2.9  | 5         |
| 79 | Molecular Dynamics Simulation and Experimental Studies on the Thermomechanical Properties of Epoxy Resin with Different Anhydride Curing Agents. <i>Polymers</i> , 2019, 11, 975.   | 4.5  | 46        |
| 80 | New vesicular carbon-based rhenium phosphides with all-pH range electrocatalytic hydrogen evolution activity. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117851.  | 20.2 | 32        |
| 81 | Electrical and thermal properties of insulating oil-based nanofluids: a comprehensive overview. <i>IET Nanodielectrics</i> , 2019, 2, 27-40.  | 4.1  | 57        |
| 82 | Mesoporous carbon hollow microspheres with tunable pore size and shell thickness as efficient electromagnetic wave absorbers. <i>Composites Part B: Engineering</i> , 2019, 167, 690-699.                                       | 12.0 | 194       |
| 83 | Effect of Gas-phase Fluorination on Trap Level of Nano-Alumina / Epoxy Resin Nanocomposites. , 2019, , .  |      | 0         |
| 84 | Frontispiz: Surface-€Electron Coupling for Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019, 131, .  | 2.0  | 0         |
| 85 | A sandwich-like Si/SiC/nanographite sheet as a high performance anode for lithium-ion batteries. <i>Dalton Transactions</i> , 2019, 48, 17683-17690.  | 3.3  | 41        |
| 86 | Accelerated Charge Dissipation by Gas-Phase Fluorination on Nomex Paper. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3879.   | 2.5  | 6         |
| 87 | Frontispiece: Surface-€Electron Coupling for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .   | 13.8 | 0         |
| 88 | Covalent Bonding of Si Nanoparticles on Graphite Nanosheets as Anodes for Lithium-Ion Batteries Using Diazonium Chemistry. <i>Nanomaterials</i> , 2019, 9, 1741.  | 4.1  | 20        |
| 89 | Component-controllable cobalt telluride nanoparticles encapsulated in nitrogen-doped carbon frameworks for efficient hydrogen evolution in alkaline conditions. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 568-575. | 20.2 | 60        |
| 90 | Epitaxial growth of graphene on V8C7 nanomeshes for highly efficient and stable hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2019, 369, 47-53.  | 6.2  | 40        |

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|-----|--|-----|-----------|
| 91  | Novel Approaches of DGA to Transformers Filled with Natural Ester Based Insulating Oils. , 2018, , .   |     | 3         |
| 92  | Analysis of Dielectric Properties and Breakdown Characteristics of Vegetable Insulating Oil with Modified by ZnO Nanoparticles. , 2018, , .  |     | 3         |
| 93  | Study on the Analysis and Diagnosis of Dissolved Gases in Camellia Insulating Oil. , 2018, , .   |     | 1         |
| 94  | Gas diffusion behavior in green camellia insulating oils. AIP Advances, 2018, 8, 115127.   | 1.3 | 0         |
| 95  | Effects of Suspended Moisture Particles on AC Breakdown Voltage and Electric Field Distribution of Vegetable Insulation Oil. , 2018, , .   |     | 1         |
| 96  | Effect of Fluorination and Isothermal Crystallization on Polypropylene Electret Fiber Films for Transformer-oil Filtration. , 2018, , .  |     | 0         |
| 97  | Analysis of creeping discharges on oil-impregnated pressboard under combined AC and DC voltages. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2380-2388.                            | 2.9 | 9         |
| 98  | Graphic approaches for faults diagnosis for Camellia insulating liquid filled transformers based on dissolved gas analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1897-1903. | 2.9 | 27        |
| 99  | Streamer characteristics of dielectric natural ester-based liquids under long gap distances. AIP Advances, 2018, 8, .  | 1.3 | 24        |
| 100 | Analyzing the health condition and chemical degradation in field aged transformer insulation oil using spectroscopic techniques. , 2018, , .   |     | 14        |
| 101 | One-Step Preparation of Durable Super-Hydrophobic MSR/SiO <sub>2</sub> Coatings by Suspension Air Spraying. Micromachines, 2018, 9, 677.   | 2.9 | 7         |
| 102 | The Effect of Polyhedral Oligomeric Silsesquioxanes on Electrical Properties of Mineral Oil. , 2018, , .   |     | 0         |
| 103 | Acids generated and influence on electrical lifetime of natural ester impregnated paper insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1904-1914.                         | 2.9 | 11        |
| 104 | Influence of Temperature on Electrical Properties of POSS/Mineral Oil based Nanofluids. , 2018, , .  |     | 0         |
| 105 | Effect of nanoparticles on streamer propagation and breakdown of vegetable oil-pressboard interface in non-uniform electric field. AIP Advances, 2018, 8, 085211.  | 1.3 | 5         |
| 106 | Significantly Reduced Secondary-Electron-Yield of Aluminum Sheet with Fluorocarbon Coating. Coatings, 2018, 8, 249.  | 2.6 | 10        |
| 107 | The Effect of Polyhedral Oligomeric Silsesquioxanes on Electrical Properties of Mineral Oil. , 2018, , .   |     | 0         |
| 108 | Phenomenon analysis and state classification of surface discharge on oil-impregnated pressboard under AC-DC combined voltage. AIP Advances, 2018, 8, 105023.   | 1.3 | 1         |

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|-----|---|------|-----------|
| 109 | Ganoderma-like MoS <sub>2</sub> /NiS <sub>2</sub> with Single Platinum Atoms Doping as an Efficient and Stable Hydrogen Evolution Reaction Catalyst. <i>Small</i> , 2018, 14, e1800697.                                   | 10.0 | 60        |
| 110 | Selectively anchoring Pt single atoms at hetero-interfaces of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> /NiS to promote the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11783-11789.   | 10.3 | 49        |
| 111 | Influence of hydrophobicity on ice accumulation process under sleet and wind conditions. <i>AIP Advances</i> , 2018, 8, .   | 1.3  | 7         |
| 112 | A New Platinum-like Efficient Electrocatalyst for Hydrogen Evolution Reaction at All pH: Single-Crystal Metallic Interweaved V <sub>8</sub> C <sub>7</sub> Networks. <i>Advanced Energy Materials</i> , 2018, 8, 1800575. | 19.5 | 62        |
| 113 | Enhanced Electrical Insulation and Heat Transfer Performance of Vegetable Oil Based Nanofluids. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-12.   | 2.7  | 26        |
| 114 | Structure, microparameters and properties of crosslinked DGEBA/MTHPA: A molecular dynamics simulation. <i>AIP Advances</i> , 2018, 8, .   | 1.3  | 37        |
| 115 | Micro-Structure and Thermomechanical Properties of Crosslinked Epoxy Composite Modified by Nano-SiO <sub>2</sub> : A Molecular Dynamics Simulation. <i>Polymers</i> , 2018, 10, 801.                                      | 4.5  | 39        |
| 116 | A novel aging indicator of transformer paper insulation based on dispersion staining colors of cellulose fibers in oil. <i>IEEE Electrical Insulation Magazine</i> , 2018, 34, 8-16.                                      | 0.8  | 22        |
| 117 | Electrohydrodynamic behavior of water droplets on a horizontal super hydrophobic surface and its self-cleaning application. <i>Applied Surface Science</i> , 2017, 403, 133-140.  | 6.1  | 72        |
| 118 | Thermally-manageable superhydrophobic soot/fluorocarbon hybrid thin films. , 2017, , .  |      | 1         |
| 119 | Aging characteristics of epoxy resin in hygrothermal environment. , 2017, , .   |      | 2         |
| 120 | Electric heating performance of soot/silicon-oxide/fluorocarbon super-hydrophobic thin film. , 2017, , .  |      | 0         |
| 121 | Molecular Structure and Electronic Properties of Triolein Molecule under an External Electric Field Related to Streamer Initiation and Propagation. <i>Energies</i> , 2017, 10, 510.                                      | 3.1  | 18        |
| 122 | Influence of nano boron nitride (BN) on electric corrosion of fluororesin based super hydrophobic coatings for insulators. , 2016, , .  |      | 4         |
| 123 | Droplet condensation on superhydrophobic surfaces with enhanced dewetting under a tangential AC electric field. <i>Applied Physics Letters</i> , 2016, 109, .   | 3.3  | 20        |
| 124 | An OH-PDMS-modified nano-silica/carbon hybrid coating for anti-icing of insulators part ii: anti-icing performance. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 2165-2173.              | 2.9  | 13        |
| 125 | Investigation of the electric field driven self-propelled motion of water droplets on a super-hydrophobic surface. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 3007-3015.               | 2.9  | 18        |
| 126 | Fractal simulation of breakdown in oil impregnated paper at pulsating DC voltage. , 2016, , .   |      | 0         |



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|-----|--|-----|-----------|
| 127 | An OH-PDMS-modified nano-silica/carbon hybrid coating for anti-icing of insulators part I: Fabrication and small-scale testing. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 935-942. | 2.9 | 8         |
| 128 | One-step preparation of transparent superhydrophobic coatings using atmospheric arc discharge. Applied Physics Letters, 2015, 107, .   | 3.3 | 18        |
| 129 | Transforming PDMS surface to super-hydrophobic by surface arc-discharge. , 2015, , .   |     | 0         |
| 130 | Fabrication of superhydrophobic surface with discarded silicone under arc exposure. RSC Advances, 2015, 5, 103739-103743.  | 3.6 | 3         |
| 131 | Electrical driven rolling behavior of water droplet on a super hydrophobic surface. , 2014, , .  |     | 1         |
| 132 | Time delay of water contact with acrylic polyurethane super-hydrophobic surfaces. , 2014, , .  |     | 0         |
| 133 | Anti-icing performances of super hydrophobic insulator. , 2013, , .  |     | 1         |
| 134 | Ice bonding strength detection of the super-hydrophobic coating. , 2013, , .   |     | 2         |
| 135 | One-step preparation and application of semiconductive and durable superhydrophobic coating. , 2012, , .   |     | 0         |