Zhengyong Huang

List of Publications by Year
in descending order

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52 papers	1,933 citations	257450 24 h-index	254184 43 g-index
52 all docs	52 docs citations	52 times ranked	2273 citing authors

#	Article	IF	Citations
1	Synergistic effect of electric field and temperature on POSS modified natural ester insulating oil: A molecular dynamics study. Journal of Molecular Liquids, 2022, 355, 118923.	4.9	5
2	Transitionâ€Metal Carbides as Hydrogen Evolution Reduction Electrocatalysts: Synthetic Methods and Optimization Strategies. Chemistry - A European Journal, 2021, 27, 5074-5090.	3.3	41
3	Branching Initial Streamers to Inhibit the Streamer Propagation in Natural Ester-based Nanofluid. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 116-123.	2.9	8
4	Enhanced Pollution Flashover of a Slurry Coalescence Superhydrophobic Coating. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 310-317.	2.9	14
5	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
6	A Comparative Study of Gas-phase Fluorination and Nano-Al₂O₃ 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
7	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
8	Molecular-level evaluation of ionic transport under external electric fields in biological dielectric liquids. Journal of Molecular Liquids, 2021, 340, 116883.	4.9	5
9	Preparation of two-dimensional titanium carbide (Ti3C2Tx) and NiCo2O4 composites to achieve excellent microwave absorption properties. Composites Part B: Engineering, 2020, 180, 107577.	12.0	201
10	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
11	Simulation of the effect of carrier density fluctuations on initial streamer branching in natural ester during pulsed positive discharges. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1604-1610.	2.9	10
12	Rational design of perfect interface coupling to boost electrocatalytical oxygen reduction. Nano Energy, 2020, 76, 105055.	16.0	20
13	Influence of treated nano-alumina and gas-phase fluorination on the dielectric properties of epoxy resin/alumina nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 410-417.	2.9	14
14	Flexible triboelectric 3D touch pad with unit subdivision structure for effective XY positioning and pressure sensing. Nano Energy, 2020, 76, 105047.	16.0	69
15	Relationship between the Electrical Characteristics of Molecules and Fast Streamers in Ester Insulation Oil. International Journal of Molecular Sciences, 2020, 21, 974.	4.1	16
16	Recent advancements in heterostructured interface engineering for hydrogen evolution reaction electrocatalysis. Journal of Materials Chemistry A, 2020, 8, 6926-6956.	10.3	158
17	Self-ejections of multiple isolated slushes on disorderly grooved superhydrophobic surfaces. Applied Physics Letters, 2020, 116, 053702.	3.3	2
18	Surfaceâ€Electron Coupling for Efficient Hydrogen Evolution. Angewandte Chemie, 2019, 131, 17873-17881.	2.0	8

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19	Synthesis of trimethylolpropane fatty acid triester as a high performance electrical insulating oil. Industrial Crops and Products, 2019, 142, 111834.	5.2	25
20	Surfaceâ€Electron Coupling for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 17709-17717.	13.8	42
21	Improved Thermal Conductivity and Mechanical Property of PTFE Reinforced with Al₂O₃. Nano, 2019, 14, 1950064.	1.0	8
22	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
23	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
24	A review of metal oxide-related microwave absorbing materials from the dimension and morphology perspective. Journal of Materials Science: Materials in Electronics, 2019, 30, 10961-10984.	2.2	103
25	Tunable microwave absorbing property of LaxFeO3/C by introducing A-site cation deficiency. Journal of Materials Science: Materials in Electronics, 2019, 30, 13474-13487.	2.2	50
26	Significantly Improved Electrical Breakdown Strength of Natural Ester Liquid Dielectrics by Doping Ultraviolet Absorbing Molecules. IEEE Access, 2019, 7, 73448-73454.	4.2	16
27	Development of spindle-cone shaped of Fe/Î±-Fe2O3 hybrids and their superior wideband electromagnetic absorption performance. Journal of Alloys and Compounds, 2019, 799, 216-223.	5.5	75
28	Molecular Dynamics Simulation and Experimental Studies on the Thermomechanical Properties of Epoxy Resin with Different Anhydride Curing Agents. Polymers, 2019, 11, 975.	4.5	46
29	New vesicular carbon-based rhenium phosphides with all-pH range electrocatalytic hydrogen evolution activity. Applied Catalysis B: Environmental, 2019, 256, 117851.	20.2	32
30	Electrical and thermal properties of insulating oilâ€based nanofluids: a comprehensive overview. IET Nanodielectrics, 2019, 2, 27-40.	4.1	57
31	Mesoporous carbon hollow microspheres with tunable pore size and shell thickness as efficient electromagnetic wave absorbers. Composites Part B: Engineering, 2019, 167, 690-699.	12.0	194
32	A sandwich-like Si/SiC/nanographite sheet as a high performance anode for lithium-ion batteries. Dalton Transactions, 2019, 48, 17683-17690.	3.3	41
33	Covalent Bonding of Si Nanoparticles on Graphite Nanosheets as Anodes for Lithium-Ion Batteries Using Diazonium Chemistry. Nanomaterials, 2019, 9, 1741.	4.1	20
34	Component-controllable cobalt telluride nanoparticles encapsulated in nitrogen-doped carbon frameworks for efficient hydrogen evolution in alkaline conditions. Applied Catalysis B: Environmental, 2019, 244, 568-575.	20.2	60
35	Epitaxial growth of graphene on V8C7 nanomeshs for highly efficient and stable hydrogen evolution reaction. Journal of Catalysis, 2019, 369, 47-53.	6.2	40
36	Streamer characteristics of dielectric natural ester-based liquids under long gap distances. AIP Advances, 2018, 8, .	1.3	24

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37	One-Step Preparation of Durable Super-Hydrophobic MSR/SiO2 Coatings by Suspension Air Spraying. Micromachines, 2018, 9, 677.	2.9	7
38	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
39	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
40	Ganodermaâ€Like MoS₂/NiS₂ with Single Platinum Atoms Doping as an Efficient and Stable Hydrogen Evolution Reaction Catalyst. Small, 2018, 14, e1800697.	10.0	60
41	Selectively anchoring Pt single atoms at hetero-interfaces of Î³-Al₂O₃/NiS to promote the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 11783-11789.	10.3	49
42	Influence of hydrophobicity on ice accumulation process under sleet and wind conditions. AIP Advances, 2018, 8, .	1.3	7
43	A New Platinumâ€Like Efficient Electrocatalyst for Hydrogen Evolution Reaction at All pH: Singleâ€Crystal Metallic Interweaved V₈C₇ Networks. Advanced Energy Materials, 2018, 8, 1800575.	19.5	62
44	Structure, microparameters and properties of crosslinked DGEBA/MTHPA: A molecular dynamics simulation. AIP Advances, 2018, 8, .	1.3	37
45	Micro-Structure and Thermomechanical Properties of Crosslinked Epoxy Composite Modified by Nano-SiO2: A Molecular Dynamics Simulation. Polymers, 2018, 10, 801.	4.5	39
46	Electrohydrodynamic behavior of water droplets on a horizontal super hydrophobic surface and its self-cleaning application. Applied Surface Science, 2017, 403, 133-140.	6.1	72
47	Droplet condensation on superhydrophobic surfaces with enhanced dewetting under a tangential AC electric field. Applied Physics Letters, 2016, 109, .	3.3	20
48	Investigation of the electric field driven self-propelled motion of water droplets on a super-hydrophobic surface. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3007-3015.	2.9	18
49	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
50	One-step preparation of transparent superhydrophobic coatings using atmospheric arc discharge. Applied Physics Letters, 2015, 107, .	3.3	18
51	Fabrication of superhydrophobic surface with discarded silicone under arc exposure. RSC Advances, 2015, 5, 103739-103743.	3.6	3
52	One-step preparation and application of semiconductive and durable superhydrophobic coating. , 2012, , .		0