

Zhengyong Huang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Preparation of two-dimensional titanium carbide (Ti ₃ C ₂ T _x) and NiCo ₂ O ₄ composites to achieve excellent microwave absorption properties. <i>Composites Part B: Engineering</i> , 2020, 180, 107577.	12.0	201
2	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
3	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
4	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
5	Development of spindle-cone shaped of Fe ^{1±} -Fe ₂ O ₃ hybrids and their superior wideband electromagnetic absorption performance. <i>Journal of Alloys and Compounds</i> , 2019, 799, 216-223.	5.5	75
6	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
7	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
8	A New Platinum-Like Efficient Electrocatalyst for Hydrogen Evolution Reaction at All pH: Single-Crystal Metallic Interweaved V ₈ C ₇ Networks. <i>Advanced Energy Materials</i> , 2018, 8, 1800575.	19.5	62
9	Ganoderma-Like MoS ₂ /NiS ₂ with Single Platinum Atoms Doping as an Efficient and Stable Hydrogen Evolution Reaction Catalyst. <i>Small</i> , 2018, 14, e1800697.	10.0	60
10	A strategy to promote efficiency and durability for sliding energy harvesting by designing alternating magnetic stripe arrays in triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 66, 104087.	16.0	60
11	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
12	Electrical and thermal properties of insulating oil-based nanofluids: a comprehensive overview. <i>IET Nanodielectrics</i> , 2019, 2, 27-40.	4.1	57
13	Tunable microwave absorbing property of La _x FeO ₃ /C by introducing A-site cation deficiency. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13474-13487.	2.2	50
14	Selectively anchoring Pt single atoms at hetero-interfaces of ¹³ -Al ₂ O ₃ /NiS to promote the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11783-11789.	10.3	49
15	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
16	Surface-Electron Coupling for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17709-17717.	13.8	42
17	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
18	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

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19	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
20	Micro-Structure and Thermomechanical Properties of Crosslinked Epoxy Composite Modified by Nano-SiO ₂ : A Molecular Dynamics Simulation. <i>Polymers</i> , 2018, 10, 801.	4.5	39
21	Structure, microparameters and properties of crosslinked DGEBA/MTHPA: A molecular dynamics simulation. <i>AIP Advances</i> , 2018, 8, .	1.3	37
22	Molecular dynamics studies of the mechanical behaviors and thermal conductivity of the DGEBA/MTHPA/CNB composites. <i>Composites Part B: Engineering</i> , 2019, 164, 659-666.	12.0	34
23	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
24	Synthesis of trimethylolpropane fatty acid triester as a high performance electrical insulating oil. <i>Industrial Crops and Products</i> , 2019, 142, 111834.	5.2	25
25	Streamer characteristics of dielectric natural ester-based liquids under long gap distances. <i>AIP Advances</i> , 2018, 8, .	1.3	24
26	Droplet condensation on superhydrophobic surfaces with enhanced dewetting under a tangential AC electric field. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	20
27	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
28	Rational design of perfect interface coupling to boost electrocatalytical oxygen reduction. <i>Nano Energy</i> , 2020, 76, 105055.	16.0	20
29	One-step preparation of transparent superhydrophobic coatings using atmospheric arc discharge. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	18
30	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
31	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
32	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
33	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
34	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
35	Acids generated and influence on electrical lifetime of natural ester impregnated paper insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 1904-1914.	2.9	11
36	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

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37	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
38	Surface-Plasmon Electron Coupling for Efficient Hydrogen Evolution. Angewandte Chemie, 2019, 131, 17873-17881.	2.0	8
39	Improved Thermal Conductivity and Mechanical Property of PTFE Reinforced with Al ₂ O ₃ . Nano, 2019, 14, 1950064.	1.0	8
40	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
41	One-Step Preparation of Durable Super-Hydrophobic MSR/SiO ₂ Coatings by Suspension Air Spraying. Micromachines, 2018, 9, 677.	2.9	7
42	Influence of hydrophobicity on ice accumulation process under sleet and wind conditions. AIP Advances, 2018, 8, .	1.3	7
43	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
44	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
45	A Comparative Study of Gas-phase Fluorination and Nano-Al ₂ O ₃ 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
46	Molecular-level evaluation of ionic transport under external electric fields in biological dielectric liquids. Journal of Molecular Liquids, 2021, 340, 116883.	4.9	5
47	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
48	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
49	Fabrication of superhydrophobic surface with discarded silicone under arc exposure. RSC Advances, 2015, 5, 103739-103743.	3.6	3
50	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
51	Self-ejections of multiple isolated slushes on disorderly grooved superhydrophobic surfaces. Applied Physics Letters, 2020, 116, 053702.	3.3	2
52	One-step preparation and application of semiconductive and durable superhydrophobic coating. , 2012, , .		0