

Jian Li

List of Publications by Year in descending order

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63
papers

2,011
citations

236925

25
h-index

243625

44
g-index

67
all docs

67
docs citations

67
times ranked

2115
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of a vegetable oil-based nanofluid and investigation of its breakdown and dielectric properties. IEEE Electrical Insulation Magazine, 2012, 28, 43-50.	0.8	200
2	A generalized model for wind turbine anomaly identification based on SCADA data. Applied Energy, 2016, 168, 550-567.	10.1	127
3	A critical review of plant-based insulating fluids for transformer: 30-year development. Renewable and Sustainable Energy Reviews, 2021, 141, 110783.	16.4	112
4	Anti-icing Performance of a Superhydrophobic PDMS/Modified Nano-silica Hybrid Coating for Insulators. Journal of Adhesion Science and Technology, 2012, 26, 665-679.	2.6	90
5	Macroporous fluoropolymeric films templated by silica colloidal assembly: A possible route to super-hydrophobic surfaces. Applied Surface Science, 2006, 252, 2229-2234.	6.1	87
6	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
7	A New Platinum-like Efficient Electrocatalyst for Hydrogen Evolution Reaction at All pH: Single-Crystal Metallic Interweaved V ₈ C ₇ Networks. Advanced Energy Materials, 2018, 8, 1800575.	19.5	62
8	Ganoderma-like MoS ₂ /NiS ₂ with Single Platinum Atoms Doping as an Efficient and Stable Hydrogen Evolution Reaction Catalyst. Small, 2018, 14, e1800697.	10.0	60
9	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
10	Anomaly detection for wind turbines based on the reconstruction of condition parameters using stacked denoising autoencoders. Renewable Energy, 2020, 147, 1469-1480.	8.9	59
11	Oriented BN/Silicone rubber composite thermal interface materials with high out-of-plane thermal conductivity and flexibility. Composites Part A: Applied Science and Manufacturing, 2022, 152, 106681.	7.6	59
12	Electrical and thermal properties of insulating oil-based nanofluids: a comprehensive overview. IET Nanodielectrics, 2019, 2, 27-40.	4.1	57
13	Comparison of ageing results for transformer oil-paper insulation subjected to thermal ageing in mineral oil and ageing in retardant oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 225-232.	2.9	49
14	Selectively anchoring Pt single atoms at hetero-interfaces of Î³-Al ₂ O ₃ /NiS to promote the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 11783-11789.	10.3	49
15	Hybrid energy harvesting for condition monitoring sensors in power grids. Energy, 2017, 118, 435-445.	8.8	47
16	Oil-paper aging evaluation by fuzzy clustering and factor analysis to statistical parameters of partial discharges. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 756-763.	2.9	45
17	The effect of nanoparticle surfactant polarization on trapping depth of vegetable insulating oil-based nanofluids. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 604-608.	2.1	43
18	Surface-Plasmon Electron Coupling for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 17709-17717.	13.8	42

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19	Characteristics of moisture diffusion in vegetable oil-paper insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1650-1656.	2.9	41
20	Transition-Metal Carbides as Hydrogen Evolution Reduction Electrocatalysts: Synthetic Methods and Optimization Strategies. Chemistry - A European Journal, 2021, 27, 5074-5090.	3.3	41
21	Epitaxial growth of graphene on V8C7 nanomeshes for highly efficient and stable hydrogen evolution reaction. Journal of Catalysis, 2019, 369, 47-53.	6.2	40
22	DIELECTRIC PROPERTIES AND ELECTRODYNAMIC PROCESS OF NATURAL ESTER-BASED INSULATING NANOFLUID. Modern Physics Letters B, 2011, 25, 2021-2031.	1.9	36
23	Comparison of Dissolved Gases in Mineral and Vegetable Insulating Oils under Typical Electrical and Thermal Faults. Energies, 2016, 9, 312.	3.1	35
24	New vesicular carbon-based rhenium phosphides with all-pH range electrocatalytic hydrogen evolution activity. Applied Catalysis B: Environmental, 2019, 256, 117851.	20.2	32
25	Normal Behavior Models for the Condition Assessment of Wind Turbine Generator Systems. Electric Power Components and Systems, 2014, 42, 1201-1212.	1.8	27
26	A study on ionization potential and electron trap of vegetable insulating oil related to streamer inception and propagation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3732-3738.	2.1	26
27	Enhanced Electrical Insulation and Heat Transfer Performance of Vegetable Oil Based Nanofluids. Journal of Nanomaterials, 2018, 2018, 1-12.	2.7	26
28	Fabrication of Super-Hydrophobic Surfaces with Long-Term Stability. Journal of Dispersion Science and Technology, 2011, 32, 969-974.	2.4	25
29	Electronic Properties of Typical Molecules and the Discharge Mechanism of Vegetable and Mineral Insulating Oils. Energies, 2018, 11, 523.	3.1	25
30	Streamer characteristics of dielectric natural ester-based liquids under long gap distances. AIP Advances, 2018, 8, .	1.3	24
31	Significantly Enhanced Electrical Performances of Eco-Friendly Dielectric Liquids for Harsh Conditions with Fullerene. Nanomaterials, 2019, 9, 989.	4.1	24
32	Influences of temperature on partial discharge behavior in oil-paper bounded gas cavity under pulsating DC voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1482-1490.	2.9	23
33	3D porous graphene/NiCo2O4 hybrid film as an advanced electrode for supercapacitors. Applied Surface Science, 2020, 534, 147598.	6.1	23
34	Droplet condensation on superhydrophobic surfaces with enhanced dewetting under a tangential AC electric field. Applied Physics Letters, 2016, 109, .	3.3	20
35	Influence of Monodisperse Fe ₃ O ₄ Nanoparticle Size on Electrical Properties of Vegetable Oil-Based Nanofluids. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	19
36	One-step preparation of transparent superhydrophobic coatings using atmospheric arc discharge. Applied Physics Letters, 2015, 107, .	3.3	18

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37	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
38	Design of 3D printed bioinspired nacre-like structured materials with significantly enhanced thermal conductivity. Applied Physics Letters, 2021, 118, .	3.3	18
39	Effect of Sputtering Temperature on Fluorocarbon Films: Surface Nanostructure and Fluorine/Carbon Ratio. Nanomaterials, 2019, 9, 848.	4.1	17
40	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
41	An OH-PDMS-modified nano-silica/carbon hybrid coating for anti-icing of insulators part ii: anti-icing performance. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2165-2173.	2.9	13
42	LIGHTNING IMPULSE BREAKDOWN CHARACTERISTICS AND ELECTRODYNAMIC PROCESS OF INSULATING VEGETABLE OIL-BASED NANOFLUID. Modern Physics Letters B, 2012, 26, 1250095.	1.9	11
43	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
44	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
45	Surface- π Electron Coupling for Efficient Hydrogen Evolution. Angewandte Chemie, 2019, 131, 17873-17881.	2.0	8
46	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
47	Pre-breakdown processes in water under ultra-long pulses: Bubble- π streamer dynamics and their transition. Physics of Fluids, 2021, 33, .	4.0	8
48	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
49	One-Step Preparation of Durable Super-Hydrophobic MSR/SiO ₂ Coatings by Suspension Air Spraying. Micromachines, 2018, 9, 677.	2.9	7
50	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
51	Molecular dynamics simulations of performance degradation of cellulose nanofibers (CNFs) under hygrothermal environments. Molecular Simulation, 2020, 46, 1172-1180.	2.0	5
52	Molecular-level evaluation of ionic transport under external electric fields in biological dielectric liquids. Journal of Molecular Liquids, 2021, 340, 116883.	4.9	5
53	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
54	Dynamic evolution of liquid phase disturbance and its critical influence on pre-breakdown process. Physics of Fluids, 2022, 34, .	4.0	5

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55	DLP 3D Printing of High-Performance Epoxy Resin Via Dual Curing. , 2021, , .		3
56	Self-ejections of multiple isolated slushes on disorderly grooved superhydrophobic surfaces. Applied Physics Letters, 2020, 116, 053702.	3.3	2
57	Secondary electron emission behavior of nanostructured fluorocarbon film. Surfaces and Interfaces, 2022, 33, 102195.	3.0	2
58	Electrical driven rolling behavior of water droplet on a super hydrophobic surface. , 2014, , .		1
59	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
60	Suppressing ion aggregation on cellulose surface by bio-dielectric liquids: Insights from molecular dynamics simulations. Journal of Molecular Liquids, 2021, 327, 114805.	4.9	1
61	Strong anharmonicity induced low lattice thermal conductivity and high thermoelectric performance in $(\text{CuInTe})_{1-x}(\text{AgSbTe})_x$ system. Applied Physics Letters. 2022. 121, 013903.	3.3	1
62	Gas diffusion behavior in green camellia insulating oils. AIP Advances, 2018, 8, 115127.	1.3	0
63	Frontispiece: Transition-Metal Carbides as Hydrogen Evolution Reduction Electrocatalysts: Synthetic Methods and Optimization Strategies. Chemistry - A European Journal, 2021, 27, .	3.3	0