

Chanyeop Park

List of Publications by Year in descending order

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48
papers

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933447

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docs citations

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times ranked

136
citing authors

#	ARTICLE	IF	CITATIONS
1	The dielectric properties of gaseous cryogen mixtures of He, H ₂ , Ne, and N ₂ in a temperature range of 50–80 K at pressures up to 2.0 MPa. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	31
2	Electret: An Entirely New Approach of Solving Partial Discharge Caused by Triple Points, Sharp Edges, Bubbles, and Airgaps. <i>IEEE Access</i> , 2020, 8, 78354-78366.	4.2	21
3	Classification and comparison of AC and DC partial discharges by pulse waveform analysis. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 125, 106518.	5.5	19
4	Discharge and ground electrode design considerations for the lightning strike damage tolerance assessment of CFRP matrix composite laminates. <i>Composites Part B: Engineering</i> , 2020, 198, 108226.	12.0	18
5	The critical electric field of gas mixtures over the extended range of cryogenic operating conditions. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	17
6	A versatile modeling technique for predicting dielectric strength improvements in gas mixtures for superconducting applications. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 2755-2764.	2.9	16
7	Effects of filler composition, loading, and geometry on the dielectric loss, partial discharge, and dielectric strength of liquid metal polymer composites. <i>Composites Part B: Engineering</i> , 2022, 234, 109686.	12.0	15
8	Electrets: A Remedy for Partial Discharge Caused by Power Electronics Switching. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 12947-12952.	7.9	14
9	High Temperature Superconducting Power Cables for MVDC Power Systems of Navy Ships. , 2019, , .		13
10	Breakdown characteristics of carbon dioxide–ethane azeotropic mixtures near the critical point. <i>Physics of Fluids</i> , 2020, 32, .	4.0	13
11	Evaluating the Lightning Strike Damage Tolerance for CFRP Composite Laminates Containing Conductive Nanofillers. <i>Applied Composite Materials</i> , 2022, 29, 1537-1554.	2.5	12
12	Investigation of the dielectric strength of supercritical carbon dioxide–trifluoriodomethane fluid mixtures. <i>Physics of Fluids</i> , 2020, 32, .	4.0	10
13	A Review on Dielectric Properties of Supercritical Fluids. , 2020, , .		10
14	Boltzmann Analysis of Cryogenic $\text{He} - \text{H}_2$ Gas Mixtures as Dielectric Media for High-Temperature Superconducting Power Devices. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-6.	1.7	9
15	Design of Transmission Line and Electromagnetic Field Sensors for DC Partial Discharge Analysis. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 2138-2146.	2.9	9
16	The influence of temperature on the dielectric strength of gaseous cryogens. , 2018, , .		8
17	Electret Fabrication Under Various Discharge Conditions of Triode Corona Charging and the Partial Discharge Mitigation Performance. , 2021, , .		8
18	The dielectric strength of dissociated cryogenic gas media. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	7

#	ARTICLE	IF	CITATIONS
19	Modelling of electrical breakdown in supercritical CO2 with molecular clusters formation. , 2018, , .		7
20	Understanding Surface Flashover Strength in Cryogenic Helium Gas for Superconducting Devices. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	7
21	Modeling the dielectric strength variation of supercritical fluids driven by cluster formation near critical point. Physics of Fluids, 2020, 32, .	4.0	7
22	MXene Reinforced Thermosetting Composite for Lightning Strike Protection of Carbon Fiber Reinforced Polymer. Advanced Materials Interfaces, 2021, 8, 2100803.	3.7	7
23	Detection of Series Faults in High-Temperature Superconducting DC Power Cables Using Machine Learning. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-9.	1.7	6
24	Electret: A Remedy for Partial Discharge and Surface Flashover in Shipboard Power Applications. , 2021, , .		6
25	Electret: A Solution to Partial Discharge in Power Electronics Applications. , 2021, , .		6
26	Electret Fabrication Under Various Temperatures and Partial Discharge Mitigation Performance. , 2021, , .		6
27	Effects of Fabrication Conditions on the Partial Discharge Mitigation Performance of Electrets for Power Electronic Driven Systems. IEEE Transactions on Industrial Electronics, 2023, 70, 5203-5213.	7.9	6
28	Evaluating the dielectric strength of helium-nitrogen gas mixtures by plasma parameter measurements. Physics of Plasmas, 2018, 25, .	1.9	5
29	A versatile model for estimating breakdown voltage and its application for cryogenic gas mixtures. , 2016, , .		4
30	Versatile Paschen's model for the dielectric strength estimation of binary and ternary gas mixtures. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1569-1576.	2.9	4
31	Testbed to Study the Surface Charge Distribution along DC Standoff Insulators for All-Electric Ships. , 2020, , .		4
32	Effect of magnetic field on the dielectric strength of gaseous cooling media for superconducting applications. , 2018, , .		3
33	Polyaniline doped graphene thin film to enhance the electrical conductivity in carbon fiber-reinforced composites for lightning strike mitigation. Journal of Composite Materials, 2021, 55, 4445-4455.	2.4	3
34	Electrical Breakdown Characteristics of Supercritical Trifluoriodomethane-Carbon Dioxide (CF3I-CO2) Mixtures. , 2020, , .		3
35	Electret: A Method to Increase Critical Flashover Voltage in Power Dense Applications. , 2021, , .		3
36	Electret Based Mitigation of Partial Discharge in PWM Inverter Driven System. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
37	A New Representation of Paschen's Law Suitable for Variable Temperature Power Applications. , 2019, , .		2
38	Gas-Insulated High Temperature Superconducting Coaxial Dipole for MVDC Power Systems. , 2019, , .		2
39	Electron Scattering Cross Section Data of Supercritical CO ₂ Clusters. , 2020, , .		2
40	Application of D-dot Sensor for Partial Discharge Waveform Measurement. , 2021, , .		2
41	Langmuir probe plasma diagnostics to investigate the dielectric properties of cryogenic gas mixtures. IOP Conference Series: Materials Science and Engineering, 2017, 278, 012039.	0.6	1
42	Modeling cluster formation driven variations in critical electric field of He and Xe near critical point based on electron scattering cross sections. Physics of Fluids, 2020, 32, 127106.	4.0	1
43	Viscosity Measurement of Gaseous and Supercritical Fluids as a Dielectric Medium. , 2021, , .		1
44	Theoretical Modeling and Experimental Testing on the Electrical Breakdown in Supercritical Fluids. , 2021, , .		1
45	Confidence-Level-Based Semi-Supervised Machine Learning Approach for Partial Discharge Signal Classification. , 2022, , .		1
46	Characterization of a Superconducting Gas Insulated Cable Under AC and DC Voltages. , 2021, , .		0
47	Validating Discharge and Ground Electrode Effect on the Lightning Strike Damage of Materials and its Implication to Composite Structures by Modeling Lightning Discharge. , 2021, , .		0
48	Epoxy Electret: A Remedy for Partial Discharge at Cryogenic Temperature. IOP Conference Series: Materials Science and Engineering, 2022, 1241, 012005.	0.6	0