

# Chanyeop Park

## List of Publications by Year in descending order

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48  
papers

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citations

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49  
times ranked

136  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Effects of filler composition, loading, and geometry on the dielectric loss, partial discharge, and dielectric strength of liquid metal polymer composites. Composites Part B: Engineering, 2022, 234, 109686.	12.0	15
3	Evaluating the Lightning Strike Damage Tolerance for CFRP Composite Laminates Containing Conductive Nanofillers. Applied Composite Materials, 2022, 29, 1537-1554.	2.5	12
4	Epoxy Electret: A Remedy for Partial Discharge at Cryogenic Temperature. IOP Conference Series: Materials Science and Engineering, 2022, 1241, 012005.	0.6	0
5	Electret Based Mitigation of Partial Discharge in PWM Inverter Driven System. , 2022, , .		3
6	Confidence-Level-Based Semi-Supervised Machine Learning Approach for Partial Discharge Signal Classification. , 2022, , .		1
7	Classification and comparison of AC and DC partial discharges by pulse waveform analysis. International Journal of Electrical Power and Energy Systems, 2021, 125, 106518.	5.5	19
8	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
9	MXene Reinforced Thermosetting Composite for Lightning Strike Protection of Carbon Fiber Reinforced Polymer. Advanced Materials Interfaces, 2021, 8, 2100803.	3.7	7
10	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
11	Electret: A Remedy for Partial Discharge and Surface Flashover in Shipboard Power Applications. , 2021, , .		6
12	Electrets: A Remedy for Partial Discharge Caused by Power Electronics Switching. IEEE Transactions on Industrial Electronics, 2021, 68, 12947-12952.	7.9	14
13	Electret Fabrication Under Various Discharge Conditions of Triode Corona Charging and the Partial Discharge Mitigation Performance. , 2021, , .		8
14	Application of D-dot Sensor for Partial Discharge Waveform Measurement. , 2021, , .		2
15	Characterization of a Superconducting Gas Insulated Cable Under AC and DC Voltages. , 2021, , .		0
16	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
17	Electret: A Solution to Partial Discharge in Power Electronics Applications. , 2021, , .		6
18	Electret Fabrication Under Various Temperatures and Partial Discharge Mitigation Performance. , 2021, , .		6

#	ARTICLE	IF	CITATIONS
19	Viscosity Measurement of Gaseous and Supercritical Fluids as a Dielectric Medium. , 2021, , .		1
20	Theoretical Modeling and Experimental Testing on the Electrical Breakdown in Supercritical Fluids. , 2021, , .		1
21	Electret: A Method to Increase Critical Flashover Voltage in Power Dense Applications. , 2021, , .		3
22	Testbed to Study the Surface Charge Distribution along DC Standoff Insulators for All-Electric Ships. , 2020, , .		4
23	Modeling the dielectric strength variation of supercritical fluids driven by cluster formation near critical point. Physics of Fluids, 2020, 32, .	4.0	7
24	Investigation of the dielectric strength of supercritical carbon dioxideâ€“trifluoroiodomethane fluid mixtures. Physics of Fluids, 2020, 32, .	4.0	10
25	A Review on Dielectric Properties of Supercritical Fluids. , 2020, , .		10
26	Electron Scattering Cross Section Data of Supercritical CO <sub>2</sub> Clusters. , 2020, , .		2
27	Electret: An Entirely New Approach of Solving Partial Discharge Caused by Triple Points, Sharp Edges, Bubbles, and Airgaps. IEEE Access, 2020, 8, 78354-78366.	4.2	21
28	Breakdown characteristics of carbon dioxideâ€“ethane azeotropic mixtures near the critical point. Physics of Fluids, 2020, 32, .	4.0	13
29	Discharge and ground electrode design considerations for the lightning strike damage tolerance assessment of CFRP matrix composite laminates. Composites Part B: Engineering, 2020, 198, 108226.	12.0	18
30	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
31	Design of Transmission Line and Electromagnetic Field Sensors for DC Partial Discharge Analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 2138-2146.	2.9	9
32	Electrical Breakdown Characteristics of Supercritical Trifluoroiodomethane-Carbon Dioxide (CF3I-CO2) Mixtures. , 2020, , .		3
33	High Temperature Superconducting Power Cables for MVDC Power Systems of Navy Ships. , 2019, , .		13
34	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
35	Understanding Surface Flashover Strength in Cryogenic Helium Gas for Superconducting Devices. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	7
36	A New Representation of Paschen's Law Suitable for Variable Temperature Power Applications. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Gas-Insulated High Temperature Superconducting Coaxial Dipole for MVDC Power Systems. , 2019, , .		2
38	The dielectric strength of dissociated cryogenic gas media. Journal of Applied Physics, 2018, 124, .	2.5	7
39	The influence of temperature on the dielectric strength of gaseous cryogenes. , 2018, , .		8
40	Evaluating the dielectric strength of helium-nitrogen gas mixtures by plasma parameter measurements. Physics of Plasmas, 2018, 25, .	1.9	5
41	Effect of magnetic field on the dielectric strength of gaseous cooling media for superconducting applications. , 2018, , .		3
42	Modelling of electrical breakdown in supercritical CO2 with molecular clusters formation. , 2018, , .		7
43	Boltzmann Analysis of Cryogenic $\text{He}$ - $\text{H}_2$ Gas Mixtures as Dielectric Media for High-Temperature Superconducting Power Devices. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-6.	1.7	9
44	The dielectric properties of gaseous cryogen mixtures of He, H <sub>2</sub> , Ne, and N <sub>2</sub> in a temperature range of 50â€“80â€“K at pressures up to 2.0â€“MPa. Journal of Applied Physics, 2017, 121, .	2.5	31
45	The critical electric field of gas mixtures over the extended range of cryogenic operating conditions. Journal of Applied Physics, 2017, 122, .	2.5	17
46	A versatile modeling technique for predicting dielectric strength improvements in gas mixtures for superconducting applications. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2755-2764.	2.9	16
47	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
48	A versatile model for estimating breakdown voltage and its application for cryogenic gas mixtures. , 2016, , .		4