

Bang-Wook Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

327
citations

8
h-index

15
g-index

60
ext. papers

421
ext. citations

2.1
avg. IF

3.73
L-index

#	Paper	IF	Citations
50	Evaluation of Selection Criteria for the Level of Liquid Nitrogen in HTS Magnet System. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 1-1	1.8	
49	Comparison of AC and DC Partial Discharge by Monitoring of Vacuum Degree in a Distribution Class Vacuum Interrupter. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
48	Surface Dielectric Characteristics of GFRP and PTFE in Cryogenic Environment under the Switching Impulse Superimposed on DC Voltage. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 1-1	1.8	
47	Real-Time Monitoring of the Vacuum Degree Based on the Partial Discharge and an Insulation Supplement Design for a Distribution Class Vacuum Interrupter. <i>Energies</i> , 2021 , 14, 7891	3.1	2
46	Calculation Method of Allowable Continuous Current for Direct Burial Laying HVDC Underground Cable. <i>Energies</i> , 2021 , 14, 6431	3.1	1
45	Consideration of the Insulation Design Method on a 200 kV Converter Valve Unit in an HVDC Converter Hall. <i>Energies</i> , 2021 , 14, 2296	3.1	5
44	A Novel Diagnosis Method for Void Defects in HVDC Mass-Impregnated PPLP Cable Based on Partial Discharge Measurement. <i>Energies</i> , 2021 , 14, 2052	3.1	1
43	A Study of Fast Front Transients of an HVDC Mixed Transmission Line Exposed to Bipolar Lightning Strokes. <i>Energies</i> , 2021 , 14, 2896	3.1	0
42	Characteristics of Gel Time and Dielectric Strength of Epoxy Composite According to the Mixing Ratio of Micro-Fillers. <i>Energies</i> , 2020 , 13, 5165	3.1	2
41	A Reliable Protection Scheme for Fast DC Fault Clearance in a VSC-Based Meshed MTDC Grid. <i>IEEE Access</i> , 2020 , 8, 88188-88199	3.5	8
40	Novel Diagnostic Method of DC Void Discharge in High Temperature Superconducting Cable Based on Pulse Sequence Analysis. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-5	1.8	2
39	Numerical Analysis of Space Charge Behavior and Transient Electric Field under Polarity Reversal of HVDC Extruded Cable. <i>Energies</i> , 2020 , 13, 2845	3.1	1
38	Experimental Assessment on Air Clearance of Multiple Valve Unit Considering Switching Impulse and DC Superimposed Switching Impulse. <i>Energies</i> , 2020 , 13, 2958	3.1	1
37	Assessment of Thermal and Electric Field Characteristics of HVDC Cable According to the Inner Filler Size of XLPE. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 27-37	0.2	
36	Feasible protection strategy for HVDC system by means of SFCL and passive resonance DC breaker. <i>Journal of Engineering</i> , 2019 , 2019, 767-770	0.7	7
35	Evaluation of Electric Field and Space Charge Dynamics in Dielectric under DC Voltage with Superimposed Switching Impulse. <i>Energies</i> , 2019 , 12, 1836	3.1	4
34	Appropriate Protection Scheme for DC Grid Based on the Half Bridge Modular Multilevel Converter System. <i>Energies</i> , 2019 , 12, 1837	3.1	9

33	Assessment of appropriate SFCL type considering DC fault interruption in full bridge modular multilevel converter HVDC system. <i>Physica C: Superconductivity and Its Applications</i> , 2019 , 563, 1-6	1.3	8
32	Simulation of DC Electric Fields on the Layer Structure of PPLP for Butt-Gap Conditions in HVDC MI-PPLP Cable. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 1335-1345	1.4	1
31	Analysis of Transient Behavior of Mixed High Voltage DC Transmission Line Under Lightning Strikes. <i>IEEE Access</i> , 2019 , 7, 7194-7205	3.5	5
30	Surface Flashover Characteristics of Ribbed Insulator in Cryogenic Environment. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-6	1.8	1
29	Assessment of Overvoltage and Insulation Coordination in Mixed HVDC Transmission Lines Exposed to Lightning Strikes. <i>Energies</i> , 2019 , 12, 4217	3.1	6
28	Accurate Evaluation of Steady-State Sheath Voltage and Current in HVDC Cable Using Electromagnetic Transient Simulation. <i>Energies</i> , 2019 , 12, 4161	3.1	3
27	The Analysis of Low-Voltage DC Arc behavior on Three Interrupting Phases Based on AC Black-box Arc model 2019 ,		2
26	Parameter identification of dc black-box arc model using non-linear least squares. <i>Journal of Engineering</i> , 2019 , 2019, 2202-2206	0.7	4
25	Feasible Application Study of Several Types of Superconducting Fault Current Limiters in HVDC Grids. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	32
24	Determination of Threshold Electric Field for PPLP Specimen in Liquid Nitrogen Based on the Measurement of Electrical Conductivity. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-4	1.8	1
23	Assessment of Appropriate MMC Topology Considering DC Fault Handling Performance of Fault Protection Devices. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1834	2.6	4
22	Correlation between Partial Discharge Inception Voltage and Breakdown Voltage Characteristics of Butt-gap in HVDC Mass Impregnated PPLP Cable 2018 ,		3
21	Time-Dependent Electric Field Distribution during Load Cycle Test for HVDC MI Cable 2018 ,		1
20	Investigation of Arc Behavior in HVDC LC Resonance Circuit Breaker Using Flexible Pulsed DC-Source 2018 ,		2
19	Surface Flashover Characteristics of PPLP According to Its Orientation in Cryogenic Environment. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	2
18	Influence of Placement of Overhead Ground Wires on Steady State Induction in AC-DC Hybrid Transmission Corridor. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2999-3008	4.3	2
17	Comparison of Surface Flashover Characteristics of Rod and Rib Type Post Insulator for Extra-High Voltage Superconducting Fault Current Limiter. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5	1.8	5
16	Assessment of various kinds of AC black-box arc models for DC circuit breaker 2017 ,		6

15	Impact of SFCL on the Four Types of HVDC Circuit Breakers by Simulation. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-6	1.8	29
14	Comparison of DC and AC Surface Breakdown Characteristics of GFRP and Epoxy Nanocomposites in Liquid Nitrogen. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	4
13	Comparison of the Electrical Conductivity of Polypropylene Laminated Paper (PPLP) and Kraft in LN ₂ According to the Number of Layers. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 1-1	1.8	8
12	Feasibility analysis of a novel hybrid-type superconducting circuit breaker in multi-terminal HVDC networks. <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 518, 154-158	1.3	6
11	A Study on the Measurement of Volume and Surface Electrical Conductivity of Cryogenic Insulants for DC HTS Equipment. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	8
10	A Novel Model of HVDC Hybrid-Type Superconducting Circuit Breaker and Its Performance Analysis for Limiting and Breaking DC Fault Currents. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-9	1.8	52
9	Comparison Between PD Inception Voltage and BD Voltage of PPLP in LN_2 Considering HTS Cable Insulation. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 5402104-5402104	1.8	5
8	Validity Analysis on the Positioning of Superconducting Fault Current Limiter in Neighboring AC and DC Microgrid. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 5600204-5600204	1.8	18
7	Evaluation of the Reliability of Insulating Gases for the Bushing in Cryogenic Environment. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 7700704-7700704	1.8	
6	Experimental and Analytical Study on DC Breakdown Characteristics of Butt Gap Condition in LN_2/PPLP Composite System. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 5401604-5401604	1.8	5
5	Breakdown characteristics of liquid nitrogen for transmission-class superconducting electric equipment 2012 ,		7
4	Improvement of Recovery Characteristics of a Flux-Lock Type SFCL Using a Superconductor's Trigger. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1182-1185	1.8	11
3	Thermal Analysis of PCS for an HTS Pancake Coil in Persistent Current Mode. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1009-1012	1.8	1
2	Hybrid Superconducting Fault Current Limiter of the First Half Cycle Non-Limiting Type. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 1888-1891	1.8	34
1	A Compact Cryocooling System With Subcooled Liquid Nitrogen for Small HTS Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , 2008 , 18, 1479-1482	1.8	6