

Lei Lan

List of Publications by Year in descending order

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docs citations

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times ranked

296
citing authors

#	ARTICLE	IF	CITATIONS
1	Breakdown characteristics of long air gap with negative polarity switching impulse. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 603-611.	2.9	27
2	RTV Silicone Rubber Degradation Induced by Temperature Cycling. Energies, 2017, 10, 1054.	3.1	27
3	Impulse Characteristics of Tower Grounding Devices Considering Soil Ionization by the Time-Domain Difference Method. IEEE Transactions on Power Delivery, 2015, 30, 1906-1913.	4.3	20
4	Electrical erosion test and condition assessment of SF ₆ CB contact sets. IET Generation, Transmission and Distribution, 2017, 11, 1901-1909.	2.5	18
5	The Influence of Natural Contamination on Pollution Flashover Voltage Waveform of Porcelain Insulators in Heavily Polluted Area. IEEE Access, 2019, 7, 121395-121406.	4.2	16
6	Effect of Wind Turbine Blade Rotation on Triggering Lightning: An Experimental Study. Energies, 2016, 9, 1029.	3.1	13
7	Characteristics of Alternating Current Corona Discharge Pulses and Its Radio Interference Level in a Coaxial Wire-Cylinder Gap. IEEE Transactions on Plasma Science, 2018, 46, 598-605.	1.3	13
8	Effect of Altitude on the Audible Noise Level of AC Power lines. Energies, 2017, 10, 1055.	3.1	12
9	Sparkover observation and analysis of the soil under the impulse current. IET Science, Measurement and Technology, 2016, 10, 228-233.	1.6	11
10	Electron swarm parameters and Townsend coefficients of atmospheric corona discharge plasmas by considering humidity. Physics of Plasmas, 2018, 25, .	1.9	10
11	Study on the Effective Ionization Rate of Atmospheric Corona Discharge Plasmas by Considering Humidity. IEEE Transactions on Plasma Science, 2016, 44, 3386-3391.	1.3	9
12	Numerical Simulation and Field Test of the Transient Temperature Rise of HVdc Grounding Electrodes. IEEE Transactions on Power Delivery, 2018, 33, 22-31.	4.3	9
13	Corrosion Rate Simulation and Influence Factors of a Vertical DC Grounding Electrode. IEEE Access, 2018, 6, 57230-57238.	4.2	9
14	Analysis of Excess Loss in SiFe Laminations Considering Eddy-Current Dominated Domain Wall Motion. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
15	Statistical characteristics of breakdowns in long air gaps at negative switching impulses. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 779-786.	2.9	8
16	Effect of transformer oil on room temperature vulcanized silicone rubber. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2337-2343.	2.9	8
17	Studies on metallurgical contamination accumulation characteristics on ceramic insulator of 500kV AC transmission line. IET Science, Measurement and Technology, 2019, 13, 722-728.	1.6	7
18	Research on Earth Resistivity Measuring and Modeling of HVDC Deep-Well Grounding Electrode Sites. IEEE Access, 2020, 8, 23776-23786.	4.2	7

#	ARTICLE	IF	CITATIONS
19	Effects of Impulse Voltage Waveforms on Lightning Shielding Simulation Test of Transmission Lines. , 2009, , .		6
20	Simulation study on the pollution accumulation of the porcelain insulator in a wind tunnel under direct-current composite electric field. Electric Power Systems Research, 2022, 209, 108014.	3.6	6
21	Temperature Rise Characteristics and Error Analysis of a DC Voltage Divider. Energies, 2021, 14, 1914.	3.1	5
22	Wind tunnel experiments on the pollution characteristics of suspension insulators in an ion flow field. Journal of Electrostatics, 2022, 115, 103659.	1.9	5
23	Experimental Study and Data Processing of On-Line Monitoring System for High Voltage Cables. , 2009, , .		4
24	Improved Electrogeometric Model Suitable for EHV and UHV Transmission Lines Developed through Breakdown Testing for Long Air Gaps. Energies, 2017, 10, 333.	3.1	4
25	Experimental Study on Gas Evolution Characteristics of DC Deep Well Grounding Electrodes. IEEE Access, 2019, 7, 57450-57458.	4.2	4
26	Soil resistivity modeling for temperature rise calculating of HVDC deep-well earth electrode. International Journal of Electrical Power and Energy Systems, 2021, 125, 106537.	5.5	4
27	Study on the effect of corona on hydrophobicity recovery performance of RTV silicone rubber and its failure criterion. , 2016, , .		3
28	Application of tower grounding device equivalent model in the calculation of transmission line backâ€flashover. Journal of Engineering, 2019, 2019, 1830-1835.	1.1	3
29	Experimental research on lightning shielding performance of large scaled UHV transmission line. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2871-2878.	2.9	2
30	Force and Motion Characteristics of Contamination Particles near the High Voltage End of UHVDC Insulator. Energies, 2017, 10, 969.	3.1	2
31	The Analysis on Soil Structure for the Grounding Projects. , 2009, , .		1
32	Feasibility study on using jacket structure as natural grounding electrode of offshore wind turbines. , 2014, , .		1
33	Breakdown characteristics of different air gaps with negative switching impulse. , 2016, , .		1
34	The Lightning Shielding Effect to ± 1100 kV UHVDC Line Provided by a Parallel 500kV AC Line in a Joint Right-of-Way. , 2018, , .		1
35	Load extrapolation computational algorithms for energy efficiency measurement testing of highâ€power and highâ€voltage induction motors. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1570-1574.	1.4	1
36	Burst Pulses for Positive Corona Discharge in an Air Atmosphere: A Simulation Study. IEEE Transactions on Plasma Science, 2021, 49, 1079-1087.	1.3	1

#	ARTICLE	IF	CITATIONS
37	Analysis of soil impulse discharge characteristics based on optical-electrical synchronous observation. IET Generation, Transmission and Distribution, 0, , .	2.5	1
38	Numerical Analysis on Lightning Shielding Performance of Overhead Lines based on Leader Progression Model. , 2009, , .		0
39	Characteristics of AC corona discharge pulses and RI levels in a coaxial wire-cylinder gap. , 2016, , .		0
40	Study on the forces and motion characteristics of contamination particles nearby the high voltage end of HVDC insulator. , 2016, , .		0
41	The Research on Selective Discharge Experiment of Double Scaling Wind Turbines. , 2018, , .		0
42	Test and Observation of Lightning Shielding Characteristics of $\pm 1100\text{kV}$ Transmission Lines. , 2019, , .		0
43	Study on Corona Aging of Room Temperature Vulcanized Silicone Rubber. , 2019, , .		0
44	Research on RTV Vulcanization Performance Based on Hydrophobicity, SEM, FTIR and TGA. , 2019, , .		0
45	Current Density Limit of DC Grounding Facilities Considering Impact on Zebrafish (Brachydanio rerio). Sustainability, 2022, 14, 3942.	3.2	0