

Hengxin He

List of Publications by Year in descending order

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papers

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citations

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39
docs citations

39
times ranked

190
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the Streamerâ€œLeader Propagation Processes of Long Air-Gap Positive Discharges. IEEE Transactions on Plasma Science, 2010, 38, 214-217.	1.3	36
2	On the use of quantitative Schlieren techniques in temperature measurement of leader discharge channels. Plasma Sources Science and Technology, 2019, 28, 075012.	3.1	36
3	Experimental study of the dynamics of leader initiation with a long dark period. Journal Physics D: Applied Physics, 2020, 53, 205203.	2.8	23
4	The Effect of Corona Discharge on Leader Initiation in Long Air Gaps. IEEE Transactions on Plasma Science, 2014, 42, 890-895.	1.3	20
5	Numerical simulation of the positive streamer propagation and chemical reactions in SF ₆ /N ₂ mixtures under non-uniform field. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 782-790.	2.9	18
6	Comparison of Positive Leader Propagation in Rodâ€œPlane and Inverted Rodâ€œPlane Gaps. IEEE Transactions on Plasma Science, 2012, 40, 22-28.	1.3	17
7	Continuous and Discontinuous Streamer Leader Propagation Phenomena under Slow Front Impulse Voltages in a 10-meter Rod-Plane Air Gap. Energies, 2018, 11, 2636.	3.1	17
8	Model predictive control of MMC-UPFC under unbalanced grid conditions. International Journal of Electrical Power and Energy Systems, 2020, 117, 105637.	5.5	15
9	Attachment Processes and Influencing Factors in Competition Tests Under Switching Impulse Voltages. IEEE Transactions on Plasma Science, 2013, 41, 1773-1780.	1.3	13
10	Experimental Studies on Melt Erosion at Rail-Armature Contact of Rail Launcher in Current Range of 10â€œ20 kA/mm. IEEE Transactions on Plasma Science, 2017, 45, 1667-1672.	1.3	12
11	Effect of branching on spikes of positive leader current. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1-6.	2.9	10
12	Simulation of positive streamer propagation in an air gap with a GFRP composite barrier. High Voltage, 2021, 6, 1079-1091.	4.7	9
13	On the electrical breakdown of GFRP wind turbine blades due to direct lightning strokes. Renewable Energy, 2022, 186, 974-985.	8.9	9
14	Positive Leaders Propagate Slower at Higher Altitudes: Experimental Evidence and Theoretical Explanation. Geophysical Research Letters, 2022, 49, .	4.0	9
15	Some Key Parameters of Different Caliber Solid-Armature Railgun Related to Linear Current Density. IEEE Transactions on Plasma Science, 2017, 45, 1134-1138.	1.3	8
16	Experimental Study on the Flashover Characteristics of Polluted Insulators under Short-tail Lightning Impulse Waveform. , 2018, , .		8
17	An experimental and numerical study of leader development in rod-rod gaps under positive switching impulse voltage. EPJ Applied Physics, 2013, 64, 10802.	0.7	7
18	Number and dimensional distribution of stems near the anode in a 1m air gap under positive pulse. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
19	Temperature measurements of long sparks in air using time-resolved moiré deflectometry. Journal Physics D: Applied Physics, 2022, 55, 265201.	2.8	7
20	Temperature and composition of AC arc plasma of medium voltage distribution networks in the air. Journal Physics D: Applied Physics, 2022, 55, 245201.	2.8	6
21	Semi-Empirical Calculation Method of the Positive First Corona Space Charge Under Different Impulse Rising Rates in Long Air Gaps. IEEE Transactions on Plasma Science, 2013, 41, 2237-2245.	1.3	5
22	Observation of Leader Development in Rod-Rod Air Gaps under Negative Switching Impulse. Japanese Journal of Applied Physics, 2013, 52, 090206.	1.5	5
23	Some Key Parameters of Monolithic C-Type Armature in Rectangular Caliber Railgun. IEEE Transactions on Plasma Science, 2017, 45, 1465-1469.	1.3	5
24	Effect of branching on the channel tortuosity of positive leader. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2501-2504.	2.9	3
25	Lightning performance of EHV and UHV overhead transmission Lines in China southern power grid. , 2016, , .		2
26	Revisiting the theory of positive glow corona with a comprehensive kinetic scheme. Journal Physics D: Applied Physics, 2022, 55, 095203.	2.8	2
27	Modeling of a Flyback Converter Controlled by an IGBT for Generating a High-Frequency Pulse Voltage. IEEE Transactions on Electron Devices, 2022, , 1-9.	3.0	2
28	A new tool for lightning performance assessment of overhead transmission lines. , 2011, , .		1
29	Lightning performance assessment of 500kV transmission lines in Southern China. , 2013, , .		1
30	Transient over-voltage of the full-bridge MMC HVDC system with overhead line fault. , 2016, , .		1
31	On the Dynamic Electric Field Distribution of 500kV GIS Basin-type Insulators Under Very Fast Transient Over-voltage. , 2018, , .		1
32	Study on characteristics of slow-front overvoltage of ± 1100 kV UHVDC transmission lines. Journal of Engineering, 2019, 2019, 1726-1729.	1.1	1
33	Visualization of Positive Leader Channel Expansion in a 3m rod-plane gap by Schlieren Method. , 2021, , .		1
34	Observation on the attachment processes of competition tests under switching impulse voltage. , 2011, , .		0
35	On the positive upward leader in response to downward stepped leader in a 10m rod-to-rod long air gap. , 2016, , .		0
36	Study on the lightning overvoltage protection of a 500kV unified power flow controller station. Journal of Engineering, 2019, 2019, 1100-1106.	1.1	0

#	ARTICLE	IF	CITATIONS
37	Observation of Positive Streamer Branches in a Long Air Gap. Lecture Notes in Electrical Engineering, 2021, , 47-55.	0.4	0
38	Computational study on the positive streamer inception in air at high altitude. , 2021, , .		0
39	Physical Transient Model of IGBT in Forward Conduction Mode. IEEE Transactions on Electron Devices, 2022, 69, 3841-3847.	3.0	0