

# Hengxin He

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2986138/publications.pdf>

Version: 2024-02-01

39  
papers

317  
citations

933447

10  
h-index

940533

16  
g-index

39  
all docs

39  
docs citations

39  
times ranked

190  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting the theory of positive glow corona with a comprehensive kinetic scheme. Journal Physics D: Applied Physics, 2022, 55, 095203.	2.8	2
2	On the electrical breakdown of GFRP wind turbine blades due to direct lightning strokes. Renewable Energy, 2022, 186, 974-985.	8.9	9
3	Positive Leaders Propagate Slower at Higher Altitudes: Experimental Evidence and Theoretical Explanation. Geophysical Research Letters, 2022, 49, .	4.0	9
4	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
5	Temperature measurements of long sparks in air using time-resolved moiré deflectometry. Journal Physics D: Applied Physics, 2022, 55, 265201.	2.8	7
6	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
7	Physical Transient Model of IGBT in Forward Conduction Mode. IEEE Transactions on Electron Devices, 2022, 69, 3841-3847.	3.0	0
8	Observation of Positive Streamer Branches in a Long Air Gap. Lecture Notes in Electrical Engineering, 2021, , 47-55.	0.4	0
9	Simulation of positive streamer propagation in an air gap with a GFRP composite barrier. High Voltage, 2021, 6, 1079-1091.	4.7	9
10	Visualization of Positive Leader Channel Expansion in a 3m rod-plane gap by Schlieren Method. , 2021, , .		1
11	Computational study on the positive streamer inception in air at high altitude. , 2021, , .		0
12	Model predictive control of MMC-UPFC under unbalanced grid conditions. International Journal of Electrical Power and Energy Systems, 2020, 117, 105637.	5.5	15
13	Numerical simulation of the positive streamer propagation and chemical reactions in SF <sub>6</sub> /N <sub>2</sub> mixtures under non-uniform field. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 782-790.	2.9	18
14	Experimental study of the dynamics of leader initiation with a long dark period. Journal Physics D: Applied Physics, 2020, 53, 205203.	2.8	23
15	Study on the lightning overvoltage protection of a 500kV unified power flow controller station. Journal of Engineering, 2019, 2019, 1100-1106.	1.1	0
16	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
17	Study on characteristics of slow-front overvoltage of ±1100kV UHVDC transmission lines. Journal of Engineering, 2019, 2019, 1726-1729.	1.1	1
18	Experimental Study on the Flashover Characteristics of Polluted Insulators under Short-tail Lightning Impulse Waveform. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
19	Continuous and Discontinuous Streamer Leader Propagation Phenomena under Slow Front Impulse Voltages in a 10-meter Rod-Plane Air Gap. <i>Energies</i> , 2018, 11, 2636.	3.1	17
20	On the Dynamic Electric Field Distribution of 500kV GIS Basin-type Insulators Under Very Fast Transient Over-voltage. , 2018, , .		1
21	Some Key Parameters of Monolithic C-Type Armature in Rectangular Caliber Railgun. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1465-1469.	1.3	5
22	Experimental Studies on Melt Erosion at Rail-Armature Contact of Rail Launcher in Current Range of 10â€“20 kA/mm. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1667-1672.	1.3	12
23	Some Key Parameters of Different Caliber Solid-Armature Railgun Related to Linear Current Density. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1134-1138.	1.3	8
24	Lightning performance of EHV and UHV overhead transmission Lines in China southern power grid. , 2016, , .		2
25	Transient over-voltage of the full-bridge MMC HVDC system with overhead line fault. , 2016, , .		1
26	On the positive upward leader in response to downward stepped leader in a 10m rod-to-rod long air gap. , 2016, , .		0
27	Effect of branching on spikes of positive leader current. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 1-6.	2.9	10
28	Effect of branching on the channel tortuosity of positive leader. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 2501-2504.	2.9	3
29	Number and dimensional distribution of stems near the anode in a 1m air gap under positive pulse. , 2016, , .		7
30	The Effect of Corona Discharge on Leader Initiation in Long Air Gaps. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 890-895.	1.3	20
31	Semi-Empirical Calculation Method of the Positive First Corona Space Charge Under Different Impulse Rising Rates in Long Air Gaps. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 2237-2245.	1.3	5
32	Attachment Processes and Influencing Factors in Competition Tests Under Switching Impulse Voltages. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 1773-1780.	1.3	13
33	An experimental and numerical study of leader development in rod-rod gaps under positive switching impulse voltage. <i>EPJ Applied Physics</i> , 2013, 64, 10802.	0.7	7
34	Observation of Leader Development in Rodâ€“Rod Air Gaps under Negative Switching Impulse. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 090206.	1.5	5
35	Lightning performance assessment of 500kV transmission lines in Southern China. , 2013, , .		1
36	Comparison of Positive Leader Propagation in Rodâ€“Plane and Inverted Rodâ€“Plane Gaps. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 22-28.	1.3	17

#	ARTICLE	IF	CITATIONS
37	Observation on the attachment processes of competition tests under switching impulse voltage. , 2011, , .		0
38	A new tool for lightning performance assessment of overhead transmission lines. , 2011, , .		1
39	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