

Ya Ping Du

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.

116
papers

783
citations

14
h-index

20
g-index

158
ext. papers

1,024
ext. citations

3.1
avg, IF

4.68
L-index

#	Paper	IF	Citations
116	Practical Schemes on Lightning Energy Suppression in Arresters for Transformers on 10 kV Overhead Distribution Lines. <i>IEEE Transactions on Power Delivery</i> , 2022 , 1-1	4.3	1
115	Transients in solar photovoltaic systems during lightning strikes to a transmission line. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 134, 106885	5.1	3
114	Power transformer fault diagnosis considering data imbalance and data set fusion. <i>High Voltage</i> , 2021 , 6, 543-554	4.1	5
113	A 3-D FDTD Thin-Wire Model of Single-Core Coaxial Cables With Multiple Conductive Layers. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 762-771	2	1
112	Extended Traveling Wave Theory for the Multistage Tower Under a Direct Lightning Strike. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 830-839	2	1
111	Litz Wire and Uninsulated Twisted Wire Assessment Using a Multilevel PEEC Method. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
110	Comprehensive Assessment of Lightning Protection Schemes for 10 kV Overhead Distribution Lines. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	2
109	A stable and efficient FDTD thin-wire model for lossy wire structures with irregular cross sections. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
108	Lightning Surge Analysis of Transmission Line Towers with a Hybrid PEEC-FDTD Method. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	7
107	Evaluation of Green's Functions for PEEC Models in the Air and Lossy-Ground Space. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 1-11	2	3
106	Effective Grounding of the Photovoltaic Power Plant Protected by Lightning Rods. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 1128-1136	2	7
105	Design Consideration of the Shielding Wire in 10 kV Overhead Distribution Lines Against Lightning-Induced Overvoltage. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 3005-3013	4.3	3
104	Early Warning of Incipient Faults for Power Transformer Based on DGA Using a Two-Stage Feature Extraction Technique. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	0
103	Fast Simulation of Litz Wire Using Multilevel PEEC Method. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12612-12616	7.2	6
102	Comprehensive transient analysis for low-voltage system in a wind turbine under direct lightning. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 121, 106131	5.1	7
101	Considerations of Photovoltaic System Structure Design for Effective Lightning Protection. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 1333-1341	2	14
100	Stable thin-wire model of buried pipe-type power distribution cables for 3D FDTD transient simulation. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 6168-6178	2.5	1

99	. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 106-116	4-3	4
98	A Full-Wave PEEC Model of Thin-Wire Structures Above the Lossy Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2055-2064	2	9
97	The Spatial Evolution of Upward Positive Stepped Leaders Initiated From a 356-m-Tall Tower in Southern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031508	4-4	2
96	Prima Facie Evidence of the Fast Impact of a Lightning Stroke on the Lower Ionosphere. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090274	4-9	1
95	Leader Charges, Currents, Ambient Electric Fields, and Space Charges Along Downward Positive Leader Paths Retrieved From Ground Measurements in Metropolis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032818	4-4	3
94	A GPU-Based Grid Traverse Algorithm for Accelerating Lightning Geolocation Process. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 489-497	2	6
93	Time-Domain PEEC Transient Analysis for a Wire Structure Above the Perfectly Conducting Ground With the Incident Field From a Distant Lightning Channel. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 1787-1795	2	5
92	Fast Design of Multilayered Shields Using Surrogate Model and Space Mapping. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 698-706	2	0
91	Thin-Wire Models for Inclined Conductors With Frequency-Dependent Losses. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1083-1092	4-3	6
90	Lightning-Generated Transients in Buildings With an Efficient PEEC Method. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	4
89	Lightning protection design of solar photovoltaic systems: Methodology and guidelines. <i>Electric Power Systems Research</i> , 2019 , 174, 105877	3-5	20
88	Lightning Propagation Analysis on Telecommunication Towers Above the Perfect Ground Using Full-Wave Time Domain PEEC Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 697-704	2	5
87	A Comparative Study of the Ray Theory Model With the Finite Difference Time Domain Model for Lightning Sferic Transmission in Earth-Ionosphere Waveguide. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 3335-3349	4-4	2
86	Line Charge Densities and Currents of Downward Negative Leaders Estimated From VHF Images and VLF Electric Fields Observed at Close Distances. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1507-1514	2	3
85	Lightning Grounding Grid Model Considering Both the Frequency-Dependent Behavior and Ionization Phenomenon. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 157-165	2	41
84	Proximity effect in transient analysis of radio base stations. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018 , 31, e2335	1	9
83	Analysis of the Grounding for the Substation Under Very Fast Transient Using Improved Lossy Thin-Wire Model for FDTD. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1833-1841	2	5
82	Lightning-Induced Voltages on a Distribution Line With Surge Arresters Using a Hybrid FDTDSPICE Method. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2354-2363	4-3	12

81	Lightning Transient Analysis of Radio Base Stations. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2187-2197	4.5	17
80	Lightning Surge Propagation on a Grounded Vertical Conductor. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 276-279	2	3
79	A macroscopic physical model for self-initiated upward leaders from tall grounded objects and its application. <i>Atmospheric Research</i> , 2018 , 200, 13-24	5.4	5
78	Model of ferromagnetic steels for lightning transient analysis. <i>IET Science, Measurement and Technology</i> , 2018 , 12, 301-307	1.5	14
77	Lightning Transient Analysis of Telecommunication System With a Tubular Tower. <i>IEEE Access</i> , 2018 , 6, 60088-60099	3.5	8
76	Lightning surge analysis in light rail transit using the FDTD method 2018 ,		1
75	Proximity effect modelling for cables of finite length using the hybrid partial element equivalent circuit and artificial neural network method. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 3876-3882	2.5	8
74	An FDTD Thin-Wire Model for Lossy Wire Structures With Noncircular Cross Section. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 3055-3064	4.3	8
73	An improved ray theory and transfer matrix method-based model for lightning electromagnetic pulses propagating in Earth-ionosphere waveguide and its applications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 712-727	4.4	16
72	Analysis of Transient Magnetic Shielding Made by Conductive Plates With a PEEC Method. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	7
71	Fine spatial evolution of leaders and M-components in rocket-triggered lightning observed with a broadband interferometer. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 161, 170-184	2	1
70	A statistical approach for site error correction in lightning location networks with DF/TOA technique and its application results. <i>Atmospheric Research</i> , 2017 , 184, 103-111	5.4	1
69	Lightning Surge Propagation on a Single Conductor in Free Space. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 119-127	2	7
68	A leader-return-stroke consistent macroscopic model for calculations of return stroke current and its optical and electromagnetic emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8686-8704	4.4	6
67	Surges induced in building electrical systems during a lightning strike. <i>Electric Power Systems Research</i> , 2016 , 139, 68-74	3.5	10
66	Influence of different factors on coordination of two cascaded SPDs. <i>Electric Power Systems Research</i> , 2016 , 139, 139-145	3.5	3
65	A modified FDTD method using a hybrid Cartesian-cylindrical coordinate system 2016 ,		1
64	A comprehensive study on the nonlinear behavior of metal oxide varistors 2016 ,		10

63	Simulation of transients in electrical systems with ferromagnetic steels 2016 ,		1
62	The Extended Thin-Wire Model of Lossy Round Wire Structures for FDTD Simulations. <i>IEEE Transactions on Power Delivery</i> , 2016 , 1-1	4-3	3
61	Induced surges in railway signaling systems during an indirect lightning strike 2016 ,		2
60	An improved wave impedance approach for locating close lightning stroke from single station observation and its validation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 122, 1-8	2	4
59	Dynamic modelling of lightning return stroke and its optical and electromagnetic radiations based on Maxwell'S integral-equations 2015 ,		1
58	Low-frequency magnetic shielding against unbalanced currents 2015 ,		1
57	An Efficient Modeling Method for 3-D Magnetic Plates in Magnetic Shielding. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 608-614	2	17
56	Surge behavior at the discontinuity of a vertical line over the ground. <i>Electric Power Systems Research</i> , 2014 , 113, 129-133	3-5	4
55	Influence of different impulse waveforms on coordination of two cascaded SPDs 2014 ,		1
54	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1377-1385	2	8
53	Lightning current among closely-spaced cables 2014 ,		6
52	Principles of power-frequency magnetic shielding with finite-width plates. <i>International Transactions on Electrical Energy Systems</i> , 2014 , 24, 1168-1184	2.2	6
51	Surge propagation and characteristics in building wiring systems 2014 ,		2
50	Lightning-induced surges in building electrical systems 2014 ,		2
49	Joint Modeling for Conductive Plates in Low-Frequency Magnetic Shielding. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2005-2008	2	6
48	Reduction of PEEC Unknowns for 3D Metallic Plates in Magnetic Shielding. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2001-2004	2	3
47	Evolution of line charge density of steadily-developing upward positive leaders in triggered lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4670-4678	4-4	9
46	Properties of bite error of lightning direction-finder (DF) and its modeling. <i>Atmospheric Research</i> , 2013 , 129-130, 97-109	5-4	7

45	A statistical method for evaluating detection efficiency of lightning location network and its application. <i>Atmospheric Research</i> , 2013 , 128, 13-23	5-4	6
44	The effect of ground altitude on lightning striking distance based on a bi-directional leader model. <i>Atmospheric Research</i> , 2013 , 125-126, 76-83	5-4	6
43	Transient surge impedance of a vertical conductor over the ground. <i>Electric Power Systems Research</i> , 2013 , 94, 106-112	3-5	10
42	Circuit Parameters of Vertical Wires Above a Lossy Ground in PEEC Models. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 871-879	2	20
41	Tripping Characteristics of Residual Current Devices Under Nonsinusoidal Currents. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1515-1521	4-3	25
40	Directional field enhancement of dielectric nano optical disc antenna arrays. <i>Optical Materials</i> , 2011 , 34, 126-130	3-3	3
39	Transient responses of switching mode power supplies under a lightning surge 2011 ,		1
38	Numerical investigation of transient surge impedance of a vertical conductor over a perfect ground 2011 ,		1
37	Performance of TOA/DF Lightning Location Network in China [Site errors and detection efficiency 2011 ,		1
36	Fractal dynamics analysis of the VHF radiation pulses during initial breakdown process of lightning. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4-9	6
35	Influence of Building Structures on the Lightning Return Stroke Current. <i>IEEE Transactions on Power Delivery</i> , 2010 , 25, 307-315	4-3	8
34	Electrical and Thermal Analysis of Parallel Single-Conductor Cable Installations 2009 ,		1
33	Equivalent Circuit Approach for Evaluating Low-Frequency Magnetic Fields in the Presence of Non-Ferromagnetic Plates. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 960-963	2	11
32	Lightning-induced magnetic fields in a building with large metallic plates. <i>Atmospheric Research</i> , 2009 , 91, 574-581	5-4	1
31	Induced Voltages and Power Losses in Single-Conductor Armored Cables. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 2145-2151	4-3	3
30	Current Distribution in Parallel Single-Core Cables on Metal Tray. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1886-1891	4-3	1
29	Analysis of Lightning Transients in a DC Traction Power System of Electrified Railway Using EMTP. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		3
28	Phenomena of Parallel Discharges and Flashovers in Lightning Triggered to Conventional and Non-conventional Lightning Rods. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006 , 126, 531-535	0-2	1

27	Using EMTP for evaluation of surge current distribution in metallic gridlike structures. <i>IEEE Transactions on Industry Applications</i> , 2005 , 41, 1113-1117	4.3	13
26	Capacitance matrix of screened/insulated single-core cables of finite length. <i>IET Science, Measurement and Technology</i> , 2005 , 152, 233-239		3
25	Spectral Patterns of Lightning Radiations in Intervals of 25 to 100 MHz. <i>IEEJ Transactions on Power and Energy</i> , 2005 , 125, 97-102	0.2	4
24	Lightning data observed with lightning location system in Guang-Dong Province, China. <i>IEEE Transactions on Power Delivery</i> , 2004 , 19, 1148-1153	4.3	25
23	The magnetic field and induced current arising from a cylindrical shell loop with an unbalanced current. <i>Electric Power Systems Research</i> , 2004 , 71, 21-26	3.5	14
22	Magnetic Fields of a Cylindrical Shell Excited by an Unbalanced Current Source. <i>HKIE Transactions</i> , 2004 , 11, 5-9	2.9	
21	Monitoring the competitiveness in the supply of low-voltage switchboards. <i>Building and Environment</i> , 2003 , 38, 787-793	6.5	2
20	Simultaneous observations of optical and electrical signals in altitude-triggered negative lightning flashes. <i>Journal of Geophysical Research</i> , 2003 , 108,		16
19	A Preliminary Survey of Lightning Protection Practices in Hong Kong Buildings. <i>HKIE Transactions</i> , 2003 , 10, 59-65	2.9	1
18	Experimental study of a Phased Array Antenna for Lightning Observation. <i>Journal of Atmospheric Electricity</i> , 2003 , 23, 41-48	0.1	
17	A lightning location system in China: its performances and applications. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2002 , 44, 555-560	2	21
16	Evaluation of the Guang Dong lightning location system with transmission line fault data. <i>IET Science, Measurement and Technology</i> , 2002 , 149, 9-16		15
15	Magnetic Field Mitigation in Large Commercial Buildings. <i>HKIE Transactions</i> , 2002 , 9, 37-41	2.9	
14	Harmonic Characteristics of Large Single-core Cables in Low-voltage Installations. <i>HKIE Transactions</i> , 2002 , 9, 46-51	2.9	1
13	Current distribution in single-core cables connected in parallel. <i>IET Generation, Transmission and Distribution</i> , 2001 , 148, 406		15
12	Experimental and Numerical Evaluation of Surge Current Distribution in Buildings During a Direct Lightning Stroke. <i>HKIE Transactions</i> , 2001 , 8, 1-6	2.9	4
11	Experimental and numerical evaluation of busbar trunking impedance. <i>Electric Power Systems Research</i> , 2000 , 55, 113-119	3.5	10
10	Experimental investigation into harmonic impedance of low-voltage cables. <i>IET Generation, Transmission and Distribution</i> , 2000 , 147, 322		9

9	Magnetic Shielding by Ferromagnetic Trunking in Low-Voltage Installations. <i>HKIE Transactions</i> , 2000 , 7, 35-39	2.9	1
8	Power-frequency magnetic shielding of heavy-current conductors by rectangular shields. <i>IET Generation, Transmission and Distribution</i> , 1999 , 146, 223		12
7	ELF magnetic fields from nonarmoured multi-core power cables. <i>IET Science, Measurement and Technology</i> , 1999 , 146, 2-8		3
6	Failure analysis of composite dielectric of power capacitors in distribution systems. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 1998 , 5, 583-588	2.3	26
5	Principles of power-frequency magnetic field shielding with flat sheets in a source of long conductors. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1996 , 38, 450-459	2	56
4	Multimode wave theory application to the analysis of very fast transients in lossless systems. <i>Electric Power Systems Research</i> , 1996 , 38, 25-32	3.5	
3	Harmonic impedance of single-core armored cables		3
2	A novel control method for shunt active power filters using SVPWM		1
1	Analytical analysis of shunt active power filters based on voltage detection		1