

Ya Ping Du

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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	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
115	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
114	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
113	Tripping Characteristics of Residual Current Devices Under Nonsinusoidal Currents. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1515-1521	4.3	25
112	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
111	A lightning location system in China: its performances and applications. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2002 , 44, 555-560	2	21
110	Lightning protection design of solar photovoltaic systems: Methodology and guidelines. <i>Electric Power Systems Research</i> , 2019 , 174, 105877	3.5	20
109	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
108	Lightning Transient Analysis of Radio Base Stations. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2187-2197	4.3	17
107	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
106	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
105	Simultaneous observations of optical and electrical signals in altitude-triggered negative lightning flashes. <i>Journal of Geophysical Research</i> , 2003 , 108,		16
104	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
103	Current distribution in single-core cables connected in parallel. <i>IET Generation, Transmission and Distribution</i> , 2001 , 148, 406		15
102	Model of ferromagnetic steels for lightning transient analysis. <i>IET Science, Measurement and Technology</i> , 2018 , 12, 301-307	1.5	14
101	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
100	Considerations of Photovoltaic System Structure Design for Effective Lightning Protection. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 1333-1341	2	14

99	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
98	Lightning-Induced Voltages on a Distribution Line With Surge Arresters Using a Hybrid FDTD/SPICE Method. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2354-2363	4.3	12
97	Power-frequency magnetic shielding of heavy-current conductors by rectangular shields. <i>IET Generation, Transmission and Distribution</i> , 1999 , 146, 223		12
96	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
95	Surges induced in building electrical systems during a lightning strike. <i>Electric Power Systems Research</i> , 2016 , 139, 68-74	3.5	10
94	Transient surge impedance of a vertical conductor over the ground. <i>Electric Power Systems Research</i> , 2013 , 94, 106-112	3.5	10
93	Experimental and numerical evaluation of busbar trunking impedance. <i>Electric Power Systems Research</i> , 2000 , 55, 113-119	3.5	10
92	A comprehensive study on the nonlinear behavior of metal oxide varistors 2016 ,		10
91	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
90	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
89	Experimental investigation into harmonic impedance of low-voltage cables. <i>IET Generation, Transmission and Distribution</i> , 2000 , 147, 322		9
88	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
87	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1377-1385	2	8
86	Influence of Building Structures on the Lightning Return Stroke Current. <i>IEEE Transactions on Power Delivery</i> , 2010 , 25, 307-315	4.3	8
85	Lightning Transient Analysis of Telecommunication System With a Tubular Tower. <i>IEEE Access</i> , 2018 , 6, 60088-60099	3.5	8
84	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
83	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
82	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

81	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
80	Lightning Surge Propagation on a Single Conductor in Free Space. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 119-127	2	7
79	Properties of lightning direction-finder (DF) and its modeling. <i>Atmospheric Research</i> , 2013 , 129-130, 97-109	5.4	7
78	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
77	Effective Grounding of the Photovoltaic Power Plant Protected by Lightning Rods. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 1128-1136	2	7
76	Fast Simulation of Litz Wire Using Multilevel PEEC Method. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12612-12616	7.2	6
75	Joint Modeling for Conductive Plates in Low-Frequency Magnetic Shielding. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2005-2008	2	6
74	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
73	Lightning current among closely-spaced cables 2014 ,		6
72	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
71	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
70	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
69	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
68	A GPU-Based Grid Traverse Algorithm for Accelerating Lightning Geolocation Process. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 489-497	2	6
67	Thin-Wire Models for Inclined Conductors With Frequency-Dependent Losses. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1083-1092	4.3	6
66	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	2.7	5
65	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
64	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

63	Power transformer fault diagnosis considering data imbalance and data set fusion. <i>High Voltage</i> , 2021 , 6, 543-554	4.1	5
62	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
61	Lightning-Generated Transients in Buildings With an Efficient PEEC Method. <i>IEEE Transactions on Magnetism</i> , 2019 , 55, 1-5	2	4
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	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
58	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
57	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
56	. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 106-116	4.3	4
55	Lightning Surge Propagation on a Grounded Vertical Conductor. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 276-279	2	3
54	Influence of different factors on coordination of two cascaded SPDs. <i>Electric Power Systems Research</i> , 2016 , 139, 139-145	3.5	3
53	Reduction of PEEC Unknowns for 3D Metallic Plates in Magnetic Shielding. <i>IEEE Transactions on Magnetism</i> , 2013 , 49, 2001-2004	2	3
52	Directional field enhancement of dielectric nano optical disc antenna arrays. <i>Optical Materials</i> , 2011 , 34, 126-130	3.3	3
51	Induced Voltages and Power Losses in Single-Conductor Armored Cables. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 2145-2151	4.3	3
50	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
49	Harmonic impedance of single-core armored cables		3
48	Capacitance matrix of screened/insulated single-core cables of finite length. <i>IET Science, Measurement and Technology</i> , 2005 , 152, 233-239		3
47	ELF magnetic fields from nonarmoured multi-core power cables. <i>IET Science, Measurement and Technology</i> , 1999 , 146, 2-8		3
46	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

45	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
44	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
43	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
42	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
41	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
40	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
39	Surge propagation and characteristics in building wiring systems 2014 ,		2
38	Lightning-induced surges in building electrical systems 2014 ,		2
37	Monitoring the competitiveness in the supply of low-voltage switchboards. <i>Building and Environment</i> , 2003 , 38, 787-793	6-5	2
36	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
35	Induced surges in railway signaling systems during an indirect lightning strike 2016 ,		2
34	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
33	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
32	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
31	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
30	Dynamic modelling of lightning return stroke and its optical and electromagnetic radiations based on Maxwell's integral-equations 2015 ,		1
29	Low-frequency magnetic shielding against unbalanced currents 2015 ,		1
28	Influence of different impulse waveforms on coordination of two cascaded SPDs 2014 ,		1

27	Transient responses of switching mode power supplies under a lightning surge 2011 ,		1
26	Electrical and Thermal Analysis of Parallel Single-Conductor Cable Installations 2009 ,		1
25	Numerical investigation of transient surge impedance of a vertical conductor over a perfect ground 2011 ,		1
24	Performance of TOA/DF Lightning Location Network in China ☒ Site errors and detection efficiency 2011 ,		1
23	Lightning-induced magnetic fields in a building with large metallic plates. <i>Atmospheric Research</i> , 2009 , 91, 574-581	5.4	1
22	Current Distribution in Parallel Single-Core Cables on Metal Tray. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1886-1891	4.3	1
21	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
20	A novel control method for shunt active power filters using SVPWM		1
19	A Preliminary Survey of Lightning Protection Practices in Hong Kong Buildings. <i>HKIE Transactions</i> , 2003 , 10, 59-65	2.9	1
18	Analytical analysis of shunt active power filters based on voltage detection		1
17	Harmonic Characteristics of Large Single-core Cables in Low-voltage Installations. <i>HKIE Transactions</i> , 2002 , 9, 46-51	2.9	1
16	Magnetic Shielding by Ferromagnetic Trunking in Low-Voltage Installations. <i>HKIE Transactions</i> , 2000 , 7, 35-39	2.9	1
15	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
14	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
13	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
12	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
11	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
10	A modified FDTD method using a hybrid Cartesian-cylindrical coordinate system 2016 ,		1

9	Simulation of transients in electrical systems with ferromagnetic steels 2016 ,		1
8	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
7	Lightning surge analysis in light rail transit using the FDTD method 2018 ,		1
6	Fast Design of Multilayered Shields Using Surrogate Model and Space Mapping. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 698-706	2	0
5	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
4	Magnetic Fields of a Cylindrical Shell Excited by an Unbalanced Current Source. <i>HKIE Transactions</i> , 2004 , 11, 5-9	2.9	
3	Magnetic Field Mitigation in Large Commercial Buildings. <i>HKIE Transactions</i> , 2002 , 9, 37-41	2.9	
2	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	
1	Experimental study of a Phased Array Antenna for Lightning Observation. <i>Journal of Atmospheric Electricity</i> , 2003 , 23, 41-48	0.1	