

Ming-li Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Comprehensive Assessment of Lightning Protection Schemes for 10 kV Overhead Distribution Lines. IEEE Transactions on Power Delivery, 2022, 37, 2326-2336.	4.3	21
2	A Stable Extended FDTD Thin-Wire Model for Lossy Wire Structures With Irregular Cross Sections. IEEE Transactions on Power Delivery, 2022, 37, 349-358.	4.3	5
3	Practical Schemes on Lightning Energy Suppression in Arresters for Transformers on 10 kV Overhead Distribution Lines. IEEE Transactions on Power Delivery, 2022, 37, 4272-4281.	4.3	10
4	Three-dimensional mapping of two coincident flashes - An upward positive flash triggered by the in-cloud activity of a downward negative flash. Atmospheric Research, 2021, 250, 105408.	4.1	3
5	Evaluation of Green's Functions for PEEC Models in the Air and Lossy-Ground Space. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1930-1940.	2.2	15
6	A 3-D FDTD Thin-Wire Model of Single-Core Coaxial Cables With Multiple Conductive Layers. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 762-771.	2.2	5
7	Extended Traveling Wave Theory for the Multistage Tower Under a Direct Lightning Strike. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 830-839.	2.2	2
8	Design Consideration of the Shielding Wire in 10 kV Overhead Distribution Lines Against Lightning-Induced Overvoltage. IEEE Transactions on Power Delivery, 2021, 36, 3005-3013.	4.3	18
9	A ROTI-Aided Equatorial Plasma Bubbles Detection Method. Remote Sensing, 2021, 13, 4356.	4.0	6
10	Evaluating Total Electron Content (TEC) Detrending Techniques in Determining Ionospheric Disturbances during Lightning Events in A Low Latitude Region. Remote Sensing, 2021, 13, 4753.	4.0	5
11	A GPU-Based Grid Traverse Algorithm for Accelerating Lightning Geolocation Process. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 489-497.	2.2	9
12	Time-Domain PEEC Transient Analysis for a Wire Structure Above the Perfectly Conducting Ground With the Incident Field From a Distant Lightning Channel. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1787-1795.	2.2	10
13	Thin-Wire Models for Inclined Conductors With Frequency-Dependent Losses. IEEE Transactions on Power Delivery, 2020, 35, 1083-1092.	4.3	7
14	A Full-Wave PEEC Model of Thin-Wire Structures Above the Lossy Ground. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2055-2064.	2.2	23
15	The Spatial Evolution of Upward Positive Stepped Leaders Initiated From a 356m Tall Tower in Southern China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031508.	3.3	11
16	Study on Seasonal Variations of Plasma Bubble Occurrence over Hong Kong Area Using GNSS Observations. Remote Sensing, 2020, 12, 2423.	4.0	8
17	Prima Facie Evidence of the Fast Impact of a Lightning Stroke on the Lower Ionosphere. Geophysical Research Letters, 2020, 47, e2020GL090274.	4.0	4
18	Leader Charges, Currents, Ambient Electric Fields, and Space Charges Along Downward Positive Leader Paths Retrieved From Ground Measurements in Metropolis. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032818.	3.3	5

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19	Stable thin-wire model of buried pipe-type power distribution cables for 3D FDTD transient simulation. IET Generation, Transmission and Distribution, 2020, 14, 6168-6178.	2.5	4
20	Lightning-Generated Transients in Buildings With an Efficient PEEC Method. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	10
21	Lightning Initiation Processes Imaged With Very High Frequency Broadband Interferometry. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2994-3004.	3.3	52
22	A Comparative Study of the Ray Theory Model With the Finite Difference Time Domain Model for Lightning Spheric Transmission in Earth's Ionosphere Waveguide. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3335-3349.	3.3	4
23	Application of insulation technology in tower lightning current measurement. , 2019, , .		1
24	Statistical Observation of Thunderstorm-Induced Ionospheric Gravity Waves above Low-Latitude Areas in the Northern Hemisphere. Remote Sensing, 2019, 11, 2732.	4.0	9
25	Optical and Current Measurements of Lightning Attachment to the 356-m-High Shenzhen Meteorological Gradient Tower in Southern Coastal Area of China. IEEE Access, 2019, 7, 155372-155380.	4.2	10
26	Potential of GPU-Based Grid Traverse Algorithm for Lightning Geolocation. , 2019, , .		0
27	Line Charge Densities and Currents of Downward Negative Leaders Estimated From VHF Images and VLF Electric Fields Observed at Close Distances. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1507-1514.	2.2	3
28	Time Correlations of Lightning Flash Sequences in Thunderstorms Revealed by Fractal Analysis. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1351-1362.	3.3	1
29	Observations of Blue Discharges Associated With Negative Narrow Bipolar Events in Active Deep Convection. Geophysical Research Letters, 2018, 45, 2842-2851.	4.0	34
30	Lightning Transient Analysis of Radio Base Stations. IEEE Transactions on Power Delivery, 2018, 33, 2187-2197.	4.3	23
31	Lightning Surge Propagation on a Grounded Vertical Conductor. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 276-279.	2.2	7
32	A macroscopic physical model for self-initiated upward leaders from tall grounded objects and its application. Atmospheric Research, 2018, 200, 13-24.	4.1	8
33	Properties of Channel Extension and Expansion of Upward Positive Connecting Leader from Tall Tower. , 2018, , .		0
34	Lightning Current Distribution of the Radio Base Station With a Steel Tower. , 2018, , .		0
35	Lightning surge analysis in light rail transit using the FDTD method. , 2018, , .		2
36	Preliminary results of lightning current measurements at the 356 m high Shenzhen Meteorological Gradient Tower in South China. , 2018, , .		0

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37	Representation of Lightning Return Stroke Channel in FDTD Code and its Impact on Lightning-Produced Electric Field Calculation. , 2018, , .		2
38	An FDTD Thin-Wire Model for Lossy Wire Structures With Noncircular Cross Section. IEEE Transactions on Power Delivery, 2018, 33, 3055-3064.	4.3	12
39	An improved ray theory and transfer matrix method-based model for lightning electromagnetic pulses propagating in Earth-ionosphere waveguide and its applications. Journal of Geophysical Research D: Atmospheres, 2017, 122, 712-727.	3.3	20
40	Analysis of Transient Magnetic Shielding Made by Conductive Plates With a PEEC Method. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	8
41	Thunderstorm-lightning-induced ionospheric perturbation: An observation from equatorial and low-latitude stations around Hong Kong. Journal of Geophysical Research: Space Physics, 2017, 122, 9032-9044.	2.4	26
42	Fine spatial evolution of leaders and M-components in rocket-triggered lightning observed with a broadband interferometer. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 161, 170-184.	1.6	1
43	A statistical approach for site error correction in lightning location networks with DF/TOA technique and its application results. Atmospheric Research, 2017, 184, 103-111.	4.1	3
44	A leader-return-stroke consistent macroscopic model for calculations of return stroke current and its optical and electromagnetic emissions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8686-8704.	3.3	12
45	The Extended Thin Wire Model of Lossy Round Wire Structures for FDTD Simulations. IEEE Transactions on Power Delivery, 2016, , 1-1.	4.3	5
46	Effects of solar and geomagnetic activity on the occurrence of equatorial plasma bubbles over Hong Kong. Journal of Geophysical Research: Space Physics, 2016, 121, 9164-9178.	2.4	31
47	Modelling of effect of propagation of lightning electromagnetic pulse over rough ground. , 2016, , .		0
48	A simple physical model for self-triggered upward leaders from high-rise buildings. , 2016, , .		0
49	Study of earth-ionosphere waveguide effect on lightning pulse with Ray Theory. , 2016, , .		2
50	Hybrid MoM/FDTD method for thin wire structures with rectangular cross section. , 2016, , .		0
51	Surges induced in building electrical systems during a lightning strike. Electric Power Systems Research, 2016, 139, 68-74.	3.6	13
52	Dynamic modelling of lightning return stroke and its optical and electromagnetic radiations based on Maxwell's integral-equations. , 2015, , .		2
53	Current distribution within a new meteorological gradient observation tower under direct lightning strike in Shenzhen and spatial electrical field around the tower. , 2015, , .		0
54	Low-frequency magnetic shielding against unbalanced currents. , 2015, , .		2

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55	Corrigendum to "Properties of site error of lightning direction-finder (DF) and its modelling" [Atmos. Res. 129(130) (2013) 97-109]. Atmospheric Research, 2015, 153, 578.	4.1	0
56	An improved wave impedance approach for locating close lightning stroke from single station observation and its validation. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 122, 1-8.	1.6	6
57	Fine spatial structures and associated electric field changes for an M-component observed with a VHF broadband interferometer system. , 2014, , .		0
58	Lightning current among closely-spaced cables. , 2014, , .		8
59	Lightning-induced surges in building electrical systems. , 2014, , .		5
60	Surge behavior at the discontinuity of a vertical line over the ground. Electric Power Systems Research, 2014, 113, 129-133.	3.6	4
61	Joint Modeling for Conductive Plates in Low-Frequency Magnetic Shielding. IEEE Transactions on Magnetics, 2013, 49, 2005-2008.	2.1	6
62	A study of occurrence characteristics of plasma bubbles over Hong Kong area. Advances in Space Research, 2013, 52, 1949-1958.	2.6	18
63	A 3-D Self-Organized Leader Propagation Model and Its Engineering Approximation for Lightning Protection Analysis. IEEE Transactions on Power Delivery, 2013, 28, 2342-2355.	4.3	18
64	Evolution of line charge density of steadily-developing upward positive leaders in triggered lightning. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4670-4678.	3.3	14
65	Properties of site error of lightning direction-finder (DF) and its modeling. Atmospheric Research, 2013, 129-130, 97-109.	4.1	9
66	A statistical method for evaluating detection efficiency of lightning location network and its application. Atmospheric Research, 2013, 128, 13-23.	4.1	8
67	The effect of ground altitude on lightning striking distance based on a bi-directional leader model. Atmospheric Research, 2013, 125-126, 76-83.	4.1	7
68	Transient surge impedance of a vertical conductor over the ground. Electric Power Systems Research, 2013, 94, 106-112.	3.6	11
69	Magnetic field environments at power frequency inside modern buildings. , 2013, , .		0
70	Striking distance calculation for flat ground and lightning rod by a 3D self-organized Leader Propagation Model. , 2012, , .		1
71	Study of the effect of propagation path on lightning-produced electromagnetic pulses based on LLN data. , 2012, , .		0
72	Site errors estimation and correction for MDF/TOA combined lightning location network. , 2012, , .		1

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73	Circuit Parameters of Vertical Wires Above a Lossy Ground in PEEC Models. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 871-879.	2.2	29
74	Surge behavior at the discontinuity of a vertical line over the ground. , 2012, , .		1
75	Numerical investigation of transient surge impedance of a vertical conductor over a perfect ground. , 2011, , .		3
76	Performance of TOA/DF Lightning Location Network in China — Site errors and detection efficiency. , 2011, , .		5
77	Experimental study of single-station lightning locating technique. , 2011, , .		1
78	An improved 3-D self-consistent stochastic stepped leader model. , 2011, , .		1
79	Possible effect of the ground altitude on the lightning striking distance. , 2010, , .		0
80	Temporal and spatial characteristics of lightning activity versus terrain in Hong Kong. , 2010, , .		0
81	A new method for the calculation of the linear charge density and current in upward positive leader. , 2010, , .		0
82	Fractal dynamics analysis of the VHF radiation pulses during initial breakdown process of lightning. Geophysical Research Letters, 2010, 37, .	4.0	8
83	Wavelet multiresolution based multifractal analysis of electric fields by lightning return strokes. Atmospheric Research, 2009, 91, 410-415.	4.1	16
84	Lightning-induced magnetic fields in a building with large metallic plates. Atmospheric Research, 2009, 91, 574-581.	4.1	3
85	Effects of ionospheric disturbances on GPS observation in low latitude area. GPS Solutions, 2008, 12, 33-41.	4.3	51
86	Phenomena of Parallel Discharges and Flashovers in Lightning Triggered to Conventional and Non-conventional Lightning Rods. IEEE Transactions on Fundamentals and Materials, 2006, 126, 531-535.	0.2	2
87	Evaluation Procedure for Coordinate Transformation. Journal of Surveying Engineering, - ASCE, 2005, 131, 43-49.	1.7	19
88	Spectral Patterns of Lightning Radiations in Intervals of 25 to 100 MHz. IEEE Transactions on Power and Energy, 2005, 125, 97-102.	0.2	4
89	Simultaneous observations of optical and electrical signals in altitude-triggered negative lightning flashes. Journal of Geophysical Research, 2003, 108, .	3.3	18
90	Broadband Interferometer Observations of the Bi-directional Breakdown Process in Natural Lightning. Chinese Journal of Geophysics, 2003, 46, 449-456.	0.2	11

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91	Experimental study of a Phased Array Antenna for Lightning Observation. Journal of Atmospheric Electricity, 2003, 23, 41-48.	0.3	0
92	Spatial and temporal properties of optical radiation produced by stepped leaders. Journal of Geophysical Research, 1999, 104, 27573-27584.	3.3	57
93	Some new observations of vightning spectra in the bands above 25 MHz. , 0, , .		0