Farhad Rachidi

List of Publications by Year
in descending order

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396	9,180	53660 45	64668 79
papers	citations	h-index	g-index

404	404	404	2211
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Compressive Sensing Framework for EMI Source Localization Using a Metalens Structure: Localization Beyond the Diffraction Limit. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 58-65.	1.4	1
2	Partial discharge localization in power transformers using acoustic time reversal. Electric Power Systems Research, 2022, 206, 107801.	2.1	7
3	On the Use of Benfordâ€™s Law to Assess the Quality of the Data Provided by Lightning Locating Systems. Atmosphere, 2022, 13, 552.	1.0	3
4	Estimation of Charge Transfer During Long Continuing Currents in Natural Downward Flashes Using Singleâ€Station Eâ€Field Measurements. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	3
5	An Inverse-Filter-Based Method to Locate Partial Discharge Sources in Power Transformers. Energies, 2022, 15, 1988.	1.6	3
6	Secondary Fast Breakdown in Narrow Bipolar Events. Geophysical Research Letters, 2022, 49, .	1.5	7
7	A Self-Consistent Return Stroke Model That Includes the Effect of the Ground Conductivity at the Strike Point. Atmosphere, 2022, 13, 593.	1.0	2
8	Comment on â€œStraight lightning as a signature of macroscopic dark matterâ€. Physical Review D, 2022, 105, .	1.6	0
9	SÃntis lightning research facility: aÂsummary of the first ten years and future outlook. Elektrotechnik Und Informationstechnik, 2022, 139, 379-394.	0.7	2
10	A Prony-Based Approach for Accelerating the Lightning Electromagnetic Fields Computation: Effect of the Soil Finite Conductivity. Electric Power Systems Research, 2022, 209, 108013.	2.1	1
11	Assessment of the Lightning Performance of overhead distribution lines based on Lightning Location Systems data. International Journal of Electrical Power and Energy Systems, 2022, 142, 108230.	3.3	3
12	On the reconstruction of the attenuation function of a return-stroke current from the Fourier Transform of finite-duration measurements. International Journal of Electrical Power and Energy Systems, 2022, 142, 108186.	3.3	2
13	A Prony-based approach for accelerating the lightning electromagnetic fields computation above a perfectly conducting ground. Electric Power Systems Research, 2022, 210, 108125.	2.1	4
14	A Frequency-Domain Analysis of a Time-Reversal Cavity for Electromagnetic Waves in Transmission Line Networks. , 2022, , .		0
15	Impact of Frequency-Dependent Soil Models on Grounding System Performance for Direct and Indirect Lightning Strikes. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 134-144.	1.4	31
16	An Effective EMTR-Based High-Impedance Fault Location Method for Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 268-276.	1.4	23
17	Localization of Electromagnetic Interference Sources Using a Time-Reversal Cavity. IEEE Transactions on Industrial Electronics, 2021, 68, 654-662.	5.2	23
18	A New Channel-Base Lightning Current Formula With Analytically Adjustable Parameters. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 542-549.	1.4	5

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19	Field-to-Transmission Line Coupling Models With Special Attention to the Coorayâ€“Rubinstein Approximation. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 484-493.	1.4	5
20	Revisiting the Calculation of the Early Time HEMP Conducted Environment. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 111-124.	1.4	7
21	A Closed Time-Reversal Cavity for Electromagnetic Waves in Transmission Line Networks. IEEE Transactions on Antennas and Propagation, 2021, 69, 1621-1630.	3.1	8
22	Analytical Expressions for Lightning Electromagnetic Fields With Arbitrary Channel-Base Current. Part II: Validation and Computational Performance. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 534-541.	1.4	7
23	Analytical Expressions for Lightning Electromagnetic Fields With Arbitrary Channel-Base Currentâ€”Part I: Theory. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 525-533.	1.4	11
24	An experimental validation of partial discharge localization using electromagnetic time reversal. Scientific Reports, 2021, 11, 220.	1.6	8
25	Estimation of the Lightning Performance of Overhead Lines Accounting for Different Types of Strokes and Multiple Strike Points. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 2015-2023.	1.4	4
26	Modified Transmission Line Model with a Current Attenuation Function Derived from the Lightning Radiation Fieldâ€”MTLD Model. Atmosphere, 2021, 12, 249.	1.0	6
27	On the Initiation of Upward Negative Lightning by Nearby Lightning Activity: An Analytical Approach. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034043.	1.2	4
28	Electromagnetic Time Reversal Method to Locate Partial Discharges in Power Networks Using 1D TLM Modelling. IEEE Letters on EMC Practice and Applications, 2021, 3, 24-28.	0.7	9
29	Laser lightning rod and artificial fog dissipation. , 2021, , .		0
30	An Efficient Methodology for the Evaluation of the Lightning Performance of Overhead Lines. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1137-1145.	1.4	11
31	Ionization Waves Enhance the Production of X-rays during Streamer Collisions. Atmosphere, 2021, 12, 1101.	1.0	3
32	Three-Dimensional FDTD-Based Simulation of Induced Surges in Secondary Circuits Owing to Primary-Circuit Surges in Substations. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1078-1089.	1.4	9
33	Could Macroscopic Dark Matter (Macros) Give Rise to Mini-Lightning Flashes out of a Blue Sky without Clouds?. Atmosphere, 2021, 12, 1230.	1.0	3
34	A Correlation-Based Electromagnetic Time Reversal Technique to Locate Indoor Transient Radiation Sources. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3945-3957.	2.9	9
35	An Extension of the Guided Wave Mâ€Component Model Taking Into Account the Presence of a Tall Strike Object. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035121.	1.2	4
36	Evaluation of Site Errors in LLS Magnetic Direction Finding Caused by Large Hills Using the 3Dâ€FDTD Technique. Earth and Space Science, 2021, 8, e2021EA001914.	1.1	1

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37	Bidirectional Recoil Leaders in Upward Lightning Flashes Observed at the SÃntis Tower. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035238.	1.2	2
38	The laser lightning rod project. EPJ Applied Physics, 2021, 93, 10504.	0.3	26
39	An Experimental Study on Electromagnetic Time Reversal Focusing Property in Mismatched Media. , 2021, , .		0
40	Single-Sensor EMI Source Localization Using Time Reversal: An Experimental Validation. Electronics (Switzerland), 2021, 10, 2448.	1.8	5
41	On the Apparent Non-Uniqueness of the Electromagnetic Field Components of Return Strokes Revisited. Atmosphere, 2021, 12, 1319.	1.0	1
42	A Method for the Improvement of the Stability in FDTD-Based Numerical Codes Evaluating Lightning-Induced Voltages. , 2021, , .		0
43	Lightning-Induced Voltage on an Overhead Transmission Line Terminated with Non-veritical Risers. , 2021, , .		0
44	Simulation of High-Frequency Transients in Overhead Lines Including Frequency-Dependent Soil Parameters: a FDTD Approach. , 2021, , .		1
45	Lightning-induced Voltages on Overhead Distribution Lines Computed through Analytical Expressions for the Electromagnetic Fields. , 2021, , .		0
46	Polarity Asymmetry in Lightning Return Stroke Speed Caused by the Momentum Associated with Radiation. Atmosphere, 2021, 12, 1642.	1.0	0
47	On the Stability of FDTD-Based Numerical Codes to Evaluate Lightning-Induced Overvoltages in Overhead Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 108-115.	1.4	17
48	On the influence of the soil stratification and frequency-dependent parameters on lightning electromagnetic fields. Electric Power Systems Research, 2020, 178, 106047.	2.1	4
49	Time reversal applied to fault location in power networks: Pilot test results and analyses. International Journal of Electrical Power and Energy Systems, 2020, 114, 105382.	3.3	22
50	An Efficient FDTD Method to Calculate Lightning Electromagnetic Fields Over Irregular Terrain Adopting the Moving Computational Domain Technique. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 976-980.	1.4	6
51	Electromagnetic Time Reversal Similarity Characteristics and Its Application to Locating Faults in Power Networks. IEEE Transactions on Power Delivery, 2020, 35, 1735-1748.	2.9	16
52	LMA observations of upward lightning flashes at the SÃntis Tower initiated by nearby lightning activity. Electric Power Systems Research, 2020, 181, 106067.	2.1	9
53	Numerical and Experimental Validation of Electromagnetic Time Reversal for Geolocation of Lightning Strikes. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2156-2163.	1.4	15
54	Localization of Electromagnetic Interference Source Using a Time Reversal Cavity: Application of the Maximum Power Criterion. , 2020, , .		7

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55	THE UPPER BOUND OF THE SPEED OF PROPAGATION OF WAVES ALONG A TRANSMISSION LINE. Progress in Electromagnetics Research M, 2020, 93, 119-125.	0.5	2
56	Measurement and Modeling of Both Distant and Close Electric Fields of an Mâ€Component in Rocketâ€Triggered Lightning. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032300.	1.2	8
57	Partial Discharge Localization Using Electromagnetic Time Reversal: A Performance Analysis. IEEE Access, 2020, 8, 147507-147515.	2.6	24
58	On the Propagation of Lightning-Radiated Electromagnetic Fields Across a Mountain. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2137-2147.	1.4	6
59	Impedance and Admittance Formulas for a Multistair Model of Transmission Towers. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2491-2502.	1.4	10
60	Partial Discharge Localization Using Time Reversal: Application to Power Transformers. Sensors, 2020, 20, 1419.	2.1	35
61	Machine Learning-Based Lightning Localization Algorithm Using Lightning-Induced Voltages on Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2512-2519.	1.4	10
62	Characteristics of different charge transfer modes in upward flashes inferred from simultaneously measured currents and fields. High Voltage, 2020, 5, 30-37.	2.7	6
63	Grounding Resistance of a Hemispheric Electrode Located on the Top of a Finite-Height, Cone-Shaped Mountain. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1889-1892.	1.4	5
64	The Polarity Reversal of Lightningâ€Generated Sky Wave. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032448.	1.2	5
65	Modeling Compact Intracloud Discharge (CID) as a Streamer Burst. Atmosphere, 2020, 11, 549.	1.0	13
66	Latitude and Topographical Dependence of Lightning Return Stroke Peak Current in Natural and Tower-Initiated Negative Ground Flashes. Atmosphere, 2020, 11, 560.	1.0	7
67	Locating Transient Directional Sources in Free Space Based on the Electromagnetic Time Reversal Technique. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2036-2044.	1.4	2
68	On the Efficiency of OpenACC-aided GPU-Based FDTD Approach: Application to Lightning Electromagnetic Fields. Applied Sciences (Switzerland), 2020, 10, 2359.	1.3	8
69	Investigation of Electromagnetic Field Coupling to a Transmission Line Terminated with Non-Vertical Risers. , 2020, , .		0
70	An Acoustic Time Reversal Technique to Locate a Partial Discharge Source: Two-Dimensional Numerical Validation. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 2203-2205.	1.8	16
71	Assessing the Efficacy of a GPU-Based MW-FDTD Method for Calculating Lightning Electromagnetic Fields Over Large-Scale Terrains. IEEE Letters on EMC Practice and Applications, 2020, 2, 106-110.	0.7	4
72	Importance of Taking Into Account the Soil Stratification in Reproducing the Late-Time Features of Distant Fields Radiated by Lightning. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 935-944.	1.4	7

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73	Tower and Path-Dependent Voltage Effects on the Measurement of Grounding Impedance for Lightning Studies. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 409-418.	1.4	14
74	Estimation of the expected annual number of flashovers in power distribution lines due to negative and positive lightning. Electric Power Systems Research, 2019, 176, 105956.	2.1	8
75	On the representation of thin wires inside lossy dielectric materials for FDTDâ€based LEMP simulations. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1314-1322.	0.8	2
76	Generalized Electric Field Equations of a Time-Varying Current Distribution Based on the Electromagnetic Fields of Moving and Accelerating Charges. Atmosphere, 2019, 10, 367.	1.0	7
77	Meteorological Aspects of Selfâ€Initiated Upward Lightning at the SÃntis Tower (Switzerland). Journal of Geophysical Research D: Atmospheres, 2019, 124, 14162-14183.	1.2	13
78	Nowcasting lightning occurrence from commonly available meteorological parameters using machine learning techniques. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	63
79	Analysis of the lightning production of convective cells. Atmospheric Measurement Techniques, 2019, 12, 5573-5591.	1.2	9
80	On the Influence of an Elevated Terrain on the Grounding Resistance of a Vertical Rod. , 2019, , .		2
81	Properties of Direct-Time and Reversed-Time Transfer Functions to Locate Disturbances along Power Transmission Lines. , 2019, , .		1
82	Polarimetric radar characteristics of lightning initiation and propagating channels. Atmospheric Measurement Techniques, 2019, 12, 2881-2911.	1.2	10
83	Isolated vs. Interconnected Wind Turbine Grounding Systems: Effect on the Harmonic Grounding Impedance, Ground Potential Rise and Step Voltage. Electric Power Systems Research, 2019, 173, 230-239.	2.1	12
84	Electromagnetic Fields Associated With the Mâ€Component Mode of Charge Transfer. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6791-6809.	1.2	5
85	EM Fields Generated by a Scale Model Helical Antenna and Its Use in Validating a Code for Lightning-Induced Voltage Calculation. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 778-787.	1.4	10
86	A Study of a Large Bipolar Lightning Event Observed at the SÃntis Tower. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 796-806.	1.4	7
87	Analysis of a bipolar upward lightning flash based on simultaneous records of currents and 380-km distant electric fields. Electric Power Systems Research, 2019, 174, 105845.	2.1	6
88	On the Modeling of Non-Vertical Risers in the Interaction of Electromagnetic Fields With Overhead Lines. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 631-636.	1.4	6
89	Calculation of High-Frequency Electromagnetic Field Coupling to Overhead Transmission Line Above a Lossy Ground and Terminated With a Nonlinear Load. IEEE Transactions on Antennas and Propagation, 2019, 67, 4119-4132.	3.1	16
90	Locating Lightning Using Electromagnetic Time Reversal: Application of the Minimum Entropy Criterion. , 2019, , .		8

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91	Performance Analysis of the Moving Computational Domain Technique for the Calculation of Sferics. , 2019, , .		0
92	Reduction of a Cone-Shaped Terrain Grounding Resistance by Remote Grounding. , 2019, , .		0
93	Using Electromagnetic Time Reversal Similarity Metric to Locate Lightning-Originated Flashovers on Overhead Transmission Lines. , 2019, , .		0
94	LMA Observation of Upward Bipolar Lightning Flash at the SÃntis Tower. , 2019, , .		2
95	Single-Sensor Source Localization Using Electromagnetic Time Reversal and Deep Transfer Learning: Application to Lightning. Scientific Reports, 2019, 9, 17372.	1.6	20
96	A New Engineering Model of Lightning M Component That Reproduces Its Electric Field Waveforms at Both Close and Far Distances. Journal of Geophysical Research D: Atmospheres, 2019, 124, 14008-14023.	1.2	12
97	The Propagation Effects of Lightning Electromagnetic Fields Over Mountainous Terrain in the Earthâ€ionosphere Waveguide. Journal of Geophysical Research D: Atmospheres, 2019, 124, 14198-14219.	1.2	10
98	Calculation of the Grounding Resistance of Structures Located on Elevated Terrain. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1891-1895.	1.4	13
99	Nonlinear electrical conductivity through the thickness of multidirectional carbon fiber composites. Journal of Materials Science, 2019, 54, 3893-3903.	1.7	4
100	Swiss competence center on energy research FURIES - Overview and contributions in the area of power electronics and SmartGrids. , 2019, , .		0
101	On the Differential Input Impedance of an Electro-Explosive Device. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 858-864.	2.9	6
102	An Analysis of Current and Electric Field Pulses Associated With Upward Negative Lightning Flashes Initiated from the SÃntis Tower. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4045-4059.	1.2	23
103	Transient Responses of Overhead Cables Due to Mode Transition in High Frequencies. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 785-794.	1.4	25
104	Frequency Response of Electric and Magnetic Fields of Overhead Conductors With Particular Reference to Axial Electric Field. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 2029-2032.	1.4	8
105	A Full-Scale Experimental Validation of Electromagnetic Time Reversal Applied to Locate Disturbances in Overhead Power Distribution Lines. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1562-1570.	1.4	42
106	A Simple Formula Expressing the Fields on the Aperture of an Impulse Radiating Antenna Fed by TEM Coplanar Plates. IEEE Transactions on Antennas and Propagation, 2018, 66, 1549-1552.	3.1	1
107	A New Solution for the Evaluation of the Horizontal Electric Fields From Lightning in Presence of a Finitely Conducting Ground. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 674-678.	1.4	13
108	Study of the Propagation of Common Mode IEMI Signals Through Concrete Walls. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 385-393.	1.4	7

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109	Evaluation of the Mitigation Effect of the Shield Wires on Lightning Induced Overvoltages in MV Distribution Systems Using Statistical Analysis. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1400-1408.	1.4	36
110	An improved time marching simulation of distributed multiport networks loaded with nonlinear devices. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2315.	1.2	0
111	Extension of the Unmatched-Media Time Reversal Method to Locate Soft Faults in Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1539-1545.	1.4	13
112	An experimental field study of the grounding system response of tall wind turbines to impulse surges. Electric Power Systems Research, 2018, 160, 219-225.	2.1	20
113	Norm Criteria in the Electromagnetic Time Reversal Technique for Fault Location in Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1240-1248.	1.4	33
114	On Nonuniform Transient Electromagnetic Field Coupling to Overhead Transmission Lines. IEEE Transactions on Antennas and Propagation, 2018, 66, 3087-3096.	3.1	11
115	Locating lightning strikes and flashovers along overhead power transmission lines using electromagnetic time reversal. Electric Power Systems Research, 2018, 160, 282-291.	2.1	18
116	Effect of Dispersive Soil on the Electromagnetic Response of Buried Wires in the UHF Range. Radio Science, 2018, 53, 895-905.	0.8	6
117	Modeling of EMP coupling to lossless MTLs in time domain based on analytical Gauss-Seidel iteration technique. , 2018, , .		2
118	On the Impact of Meteorological Conditions on the Initiation of Upward Lightning Flashes from Tall Structures. , 2018, , .		4
119	On the Classification of Self-Triggered versus OtherTriggered Lightning Flashes. , 2018, , .		2
120	Transient Impedance of Interconnected Wind Turbine Grounding Systems. , 2018, , .		3
121	An Analysis of the Distribution of Inter-Flash Time Intervals in the Area of the SÃntis Tower. , 2018, , .		1
122	Generalized Telegrapher's Equations for Buried Curved Wires. , 2018, , .		1
123	On the Similarity of Electric Field Signatures of Upward and Downward Negative Leaders. , 2018, , .		1
124	Mitigation of Lightning-Induced Overvoltages Using Shield Wires: Application of the Response Surface Method. , 2018, , .		9
125	Electromagnetic Time Reversal Applied to Fault Location: On the Properties of Back-Injected Signals. , 2018, , .		13
126	Modeling of different charge transfer modes in upward flashes constrained by simultaneously measured currents and fields. , 2018, , .		8

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127	LMA observation of upward flashes at SÃntis Tower: Preliminary results. , 2018, , .		3
128	Corrections to â€œStudy of the Propagation of Common Mode IEMI Signals Through Concrete Wallsâ€• [Apr 18 385-393]. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1610-1610.	1.4	0
129	A Semi-Analytical Method to Evaluate Lightning-Induced Overvoltages on Overhead Lines Using the Matrix Pencil Method. IEEE Transactions on Power Delivery, 2018, 33, 2837-2848.	2.9	27
130	Formulation of the Field-to-Transmission Line Coupling Equations in Terms of Scalar and Vector Potentials. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1586-1591.	1.4	20
131	Mixed-Potential Integral Equation for Full-Wave Modeling of Grounding Systems Buried in a Lossy Multilayer Stratified Ground. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1505-1513.	1.4	28
132	Analysis of lightning-ionosphere interaction using simultaneous records of source current and 380Âkm distant electric field. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 159, 48-56.	0.6	20
133	Lightning Potential Index performances in multimicrophysical cloudâ€resolving simulations of a backâ€building mesoscale convective system: The Genoa 2014 event. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4238-4257.	1.2	48
134	Are Standardized Lightning Current Waveforms Suitable for Aircraft and Wind Turbine Blades Made of Composite Materials?. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1320-1328.	1.4	15
135	An Alternative Method for Locating Faults in Transmission Line Networks Based on Time Reversal. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1601-1612.	1.4	59
136	Evaluation of lightning-induced overvoltages on a distribution system: Validation of a dedicated code using experimental results on a reduced-scale model. , 2017, , .		11
137	Single-end FPGA-based fault location system for radial/meshed AC/DC networks based on the electromagnetic time reversal theory. , 2017, , .		5
138	Assessment of the influence of losses on the performance of the electromagnetic time reversal fault location method. , 2017, , .		3
139	Lightning performance of distribution lines due to positive and negative indirect lightning flashes. , 2017, , .		3
140	Location Accuracy Evaluation of ToAâ€Based Lightning Location Systems Over Mountainous Terrain. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,760.	1.2	32
141	Simultaneous records of current and 380-km distant electric field of a bipolar lightning flash. , 2017, , .		0
142	A Technique for Calculating Voltages Induced on Twisted-Wire Pairs Using the FDTD Method. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 301-304.	1.4	24
143	Extrapolation of a Truncated Spectrum With Hilbert Transform for Obtaining Causal Impulse Responses. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 454-460.	1.4	13
144	Stable Simulation of Multiport Passive Distributed Networks Using Time Marching Method. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 447-453.	1.4	3

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145	Evaluation of Power System Lightning Performanceâ€"Part II: Application to an Overhead Distribution Network. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 146-153.	1.4	47
146	Assessment of the Influence of Losses on the Performance of the Electromagnetic Time Reversal Fault Location Method. IEEE Transactions on Power Delivery, 2017, 32, 2303-2312.	2.9	43
147	Evaluation of Power System Lightning Performance, Part I: Model and Numerical Solution Using the PSCAD-EMTDC Platform. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 137-145.	1.4	66
148	Using electromagnetic time reversal to locate faults in transmission lines: Definition and application of the â€œMirrored Minimum Energyâ€•property. , 2017, , .		25
149	Workshop: Measurement techniques for lightning currents interpretation of the measurements under performance constraints. , 2017, , .		0
150	On wind turbine impedance analysis via different approaches. , 2017, , .		0
151	A method to detect causality violations using discrete Hilbert transform. , 2017, , .		0
152	A semi-analytical simplified approach to compute lightning radiated electric fields at long distances taking into account ionospheric reflection. , 2017, , .		0
153	On the use of magnetic current loop source model in lightning electromagnetics. , 2017, , .		1
154	Time marching simulation of signal propagation in power lines loaded with non-linear devices. , 2017, , .		0
155	ON INSTABILITIES IN TIME MARCHING METHODS. Progress in Electromagnetics Research C, 2016, 68, 1-10.	0.6	1
156	On Practical Implementation of Electromagnetic Models of Lightning Return-Strokes. Atmosphere, 2016, 7, 135.	1.0	11
157	A Methodology to Reduce the Computational Effort in the Evaluation of the Lightning Performance of Distribution Networks. Atmosphere, 2016, 7, 147.	1.0	6
158	A Switched Oscillator Geometry Inspired by a Curvilinear Spaceâ€"Part I: DC Considerations. IEEE Transactions on Plasma Science, 2016, 44, 2240-2248.	0.6	6
159	Evaluation of the performance characteristics of the European Lightning Detection Network EUCLID in the Alps region for upward negative flashes using direct measurements at the instrumented SÃntis Tower. Journal of Geophysical Research D: Atmospheres, 2016, 121, 595-606.	1.2	37
160	Analysis of lightning electromagnetic field propagation in mountainous terrain and its effects on ToAâ€based lightning location systems. Journal of Geophysical Research D: Atmospheres, 2016, 121, 895-911.	1.2	25
161	Lightning location systems and interstroke intervals: Effects of imperfect detection efficiency. , 2016, , .		0
162	Implementation and performance analysis of the lightning potential index as a forecasting tool. , 2016, , .		6

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163	Bipolar lightning flashes observed at the SÃntis Tower: Do we need to modify the traditional classification?. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,117.	1.2	11
164	Graded-permittivity polymer nanocomposites as superior dielectrics. Composites Science and Technology, 2016, 129, 1-9.	3.8	28
165	On the adequacy of standardized lightning current waveform for composite structures for aircraft and wind turbine blades. , 2016, , .		4
166	Stable simulation of nonlinearly loaded lossy transmission lines with time marching approach. , 2016, , .		4
167	Fast initial continuous current pulses versus return stroke pulses in towerâ€initiated lightning. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6425-6434.	1.2	19
168	A Switched Oscillator Geometry Inspired by a Curvilinear Spaceâ€"Part II: Electrodynamic Considerations. IEEE Transactions on Plasma Science, 2016, 44, 2249-2257.	0.6	2
169	An automated FPGA real-time simulator for power electronics and power systems electromagnetic transient applications. Electric Power Systems Research, 2016, 141, 147-156.	2.1	22
170	High power electromagnetics applied to humanitarian demining in Colombia. , 2016, , .		2
171	Electromagnetic field coupling to transmission lines: A model for the risers. , 2016, , .		1
172	Correlation vs. causality in other-triggered upward lightning in tower flashes. , 2016, , .		2
173	Experimental Characterization of the Response of an Electrical and Communication Raceway to IEMI. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 494-505.	1.4	13
174	On the Kernel of the Cooraya€"Rubinstein Formula in the Time Domain. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 927-930.	1.4	8
175	An Improved Approach for the Calculation of the Transient Ground Resistance Matrix of Multiconductor Lines. IEEE Transactions on Power Delivery, 2016, 31, 1142-1149.	2.9	12
176	On Lightning Electromagnetic Field Propagation Along an Irregular Terrain. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 161-171.	1.4	56
177	Influence of ground wire on the initiation of upward leader from 110 to 1000 kV AC phase line. Electric Power Systems Research, 2016, 130, 103-112.	2.1	10
178	An update on experimental data obtained at the Säntis Tower. , 2015, , .		1
179	A model for the evaluation of the electric field associated with the lightning-triggering rocket wire and its corona. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,964-10,973.	1.2	3
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