

Farhad Rachidi

List of Publications by Year in Descending Order

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Version: 2024-04-09

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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.

345 papers	6,282 citations	39 h-index	66 g-index
404 ext. papers	8,040 ext. citations	2.6 avg, IF	6.03 L-index

#	Paper	IF	Citations
345	Partial discharge localization in power transformers using acoustic time reversal. <i>Electric Power Systems Research</i> , 2022 , 206, 107801	3.5	1
344	On the Use of Benford's Law to Assess the Quality of the Data Provided by Lightning Locating Systems. <i>Atmosphere</i> , 2022 , 13, 552	2.7	0
343	An Inverse-Filter-Based Method to Locate Partial Discharge Sources in Power Transformers. <i>Energies</i> , 2022 , 15, 1988	3.1	2
342	Secondary Fast Breakdown in Narrow Bipolar Events. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
341	A Self-Consistent Return Stroke Model That Includes the Effect of the Ground Conductivity at the Strike Point. <i>Atmosphere</i> , 2022 , 13, 593	2.7	0
340	A Prony-Based Approach for Accelerating the Lightning Electromagnetic Fields Computation: Effect of the Soil Finite Conductivity. <i>Electric Power Systems Research</i> , 2022 , 209, 108013	3.5	1
339	Assessment of the Lightning Performance of overhead distribution lines based on Lightning Location Systems data. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 142, 108230	5.1	
338	On the reconstruction of the attenuation function of a return-stroke current from the Fourier Transform of finite-duration measurements. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 142, 108186	5.1	
337	Single-Sensor EMI Source Localization Using Time Reversal: An Experimental Validation. <i>Electronics (Switzerland)</i> , 2021 , 10, 2448	2.6	1
336	On the Apparent Non-Uniqueness of the Electromagnetic Field Components of Return Strokes Revisited. <i>Atmosphere</i> , 2021 , 12, 1319	2.7	1
335	On the Initiation of Upward Negative Lightning by Nearby Lightning Activity: An Analytical Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034043	4.4	2
334	Electromagnetic Time Reversal Method to Locate Partial Discharges in Power Networks Using 1D TLM Modelling. <i>IEEE Letters on EMC Practice and Applications</i> , 2021 , 3, 24-28	0.5	5
333	Impact of Frequency-Dependent Soil Models on Grounding System Performance for Direct and Indirect Lightning Strikes. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 134-144	2	8
332	An Effective EMTR-Based High-Impedance Fault Location Method for Transmission Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 268-276	2	12
331	Localization of Electromagnetic Interference Sources Using a Time-Reversal Cavity. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 654-662	8.9	10
330	A New Channel-Base Lightning Current Formula With Analytically Adjustable Parameters. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 542-549	2	2
329	Field-to-Transmission Line Coupling Models With Special Attention to the CoorayRubinstein Approximation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 484-493	2	1

328	Revisiting the Calculation of the Early Time HEMP Conducted Environment. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 111-124	2	3
327	A Closed Time-Reversal Cavity for Electromagnetic Waves in Transmission Line Networks. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 1621-1630	4.9	4
326	Analytical Expressions for Lightning Electromagnetic Fields With Arbitrary Channel-Base Current. Part II: Validation and Computational Performance. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 534-541	2	3
325	Analytical Expressions for Lightning Electromagnetic Fields With Arbitrary Channel-Base Current. Part I: Theory. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 525-533	2	3
324	An experimental validation of partial discharge localization using electromagnetic time reversal. <i>Scientific Reports</i> , 2021 , 11, 220	4.9	3
323	Estimation of the Lightning Performance of Overhead Lines Accounting for Different Types of Strokes and Multiple Strike Points. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 1-9	2	1
322	Modified Transmission Line Model with a Current Attenuation Function Derived from the Lightning Radiation Field MTL Model. <i>Atmosphere</i> , 2021 , 12, 249	2.7	3
321	An Efficient Methodology for the Evaluation of the Lightning Performance of Overhead Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 1137-1145	2	3
320	Ionization Waves Enhance the Production of X-rays during Streamer Collisions. <i>Atmosphere</i> , 2021 , 12, 1101	2.7	0
319	Three-Dimensional FDTD-Based Simulation of Induced Surges in Secondary Circuits Owing to Primary-Circuit Surges in Substations. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 1078-1089	2.1089	4
318	Could Macroscopic Dark Matter (Macros) Give Rise to Mini-Lightning Flashes out of a Blue Sky without Clouds?. <i>Atmosphere</i> , 2021 , 12, 1230	2.7	0
317	A Correlation-Based Electromagnetic Time Reversal Technique to Locate Indoor Transient Radiation Sources. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 3945-3957	4.1	2
316	An Extension of the Guided Wave M-Component Model Taking Into Account the Presence of a Tall Strike Object. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035121	4.4	1
315	Evaluation of Site Errors in LLS Magnetic Direction Finding Caused by Large Hills Using the 3D-FDTD Technique. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001914	3.1	1
314	Bidirectional Recoil Leaders in Upward Lightning Flashes Observed at the Săntis Tower. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035238	4.4	
313	The laser lightning rod project. <i>EPJ Applied Physics</i> , 2021 , 93, 10504	1.1	9
312	Polarity Asymmetry in Lightning Return Stroke Speed Caused by the Momentum Associated with Radiation. <i>Atmosphere</i> , 2021 , 12, 1642	2.7	
311	On the Propagation of Lightning-Radiated Electromagnetic Fields Across a Mountain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2137-2147	2	5

310	Impedance and Admittance Formulas for a Multistair Model of Transmission Towers. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2491-2502	2	4
309	Partial Discharge Localization Using Time Reversal: Application to Power Transformers. <i>Sensors</i> , 2020 , 20,	3.8	21
308	Machine Learning-Based Lightning Localization Algorithm Using Lightning-Induced Voltages on Transmission Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2512-2519	2	5
307	Characteristics of different charge transfer modes in upward flashes inferred from simultaneously measured currents and fields. <i>High Voltage</i> , 2020 , 5, 30-37	4.1	0
306	Grounding Resistance of a Hemispheric Electrode Located on the Top of a Finite-Height, Cone-Shaped Mountain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 1889-1892	2	3
305	The Polarity Reversal of Lightning-Generated Sky Wave. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032448	4.4	3
304	Modeling Compact Intracloud Discharge (CID) as a Streamer Burst. <i>Atmosphere</i> , 2020 , 11, 549	2.7	8
303	Latitude and Topographical Dependence of Lightning Return Stroke Peak Current in Natural and Tower-Initiated Negative Ground Flashes. <i>Atmosphere</i> , 2020 , 11, 560	2.7	3
302	Locating Transient Directional Sources in Free Space Based on the Electromagnetic Time Reversal Technique. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2036-2044	2	1
301	On the Efficiency of OpenACC-aided GPU-Based FDTD Approach: Application to Lightning Electromagnetic Fields. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2359	2.6	3
300	Assessing the Efficacy of a GPU-Based MW-FDTD Method for Calculating Lightning Electromagnetic Fields Over Large-Scale Terrains. <i>IEEE Letters on EMC Practice and Applications</i> , 2020 , 2, 106-110	0.5	1
299	A Compressive Sensing Framework for EMI Source Localization Using a Metasens Structure: Localization Beyond the Diffraction Limit. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 1-8	2	
298	An Acoustic Time Reversal Technique to Locate a Partial Discharge Source: Two-Dimensional Numerical Validation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 2203-2205	2.3	5
297	An Efficient FDTD Method to Calculate Lightning Electromagnetic Fields Over Irregular Terrain Adopting the Moving Computational Domain Technique. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 976-980	2	5
296	Electromagnetic Time Reversal Similarity Characteristics and Its Application to Locating Faults in Power Networks. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1735-1748	4.3	8
295	LMA observations of upward lightning flashes at the Sŕtis Tower initiated by nearby lightning activity. <i>Electric Power Systems Research</i> , 2020 , 181, 106067	3.5	5
294	Numerical and Experimental Validation of Electromagnetic Time Reversal for Geolocation of Lightning Strikes. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2156-2163	2	12
293	Localization of Electromagnetic Interference Source Using a Time Reversal Cavity: Application of the Maximum Power Criterion 2020 ,		3

292	THE UPPER BOUND OF THE SPEED OF PROPAGATION OF WAVES ALONG A TRANSMISSION LINE. <i>Progress in Electromagnetics Research M</i> , 2020 , 93, 119-125	0.6	1
291	Measurement and Modeling of Both Distant and Close Electric Fields of an M-Component in Rocket-Triggered Lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032300	4.4	4
290	Partial Discharge Localization Using Electromagnetic Time Reversal: A Performance Analysis. <i>IEEE Access</i> , 2020 , 8, 147507-147515	3.5	15
289	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 108-115	2	6
288	On the influence of the soil stratification and frequency-dependent parameters on lightning electromagnetic fields. <i>Electric Power Systems Research</i> , 2020 , 178, 106047	3.5	2
287	Time reversal applied to fault location in power networks: Pilot test results and analyses. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 114, 105382	5.1	13
286	Analysis of the lightning production of convective cells. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5573-5591	4	3
285	On the Influence of an Elevated Terrain on the Grounding Resistance of a Vertical Rod 2019 ,		1
284	Properties of Direct-Time and Reversed-Time Transfer Functions to Locate Disturbances along Power Transmission Lines 2019 ,		1
283	Polarimetric radar characteristics of lightning initiation and propagating channels. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 2881-2911	4	6
282	Isolated vs. Interconnected Wind Turbine Grounding Systems: Effect on the Harmonic Grounding Impedance, Ground Potential Rise and Step Voltage. <i>Electric Power Systems Research</i> , 2019 , 173, 230-239	3.5	6
281	Electromagnetic Fields Associated With the M-Component Mode of Charge Transfer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 6791	4.4	1
280	EM Fields Generated by a Scale Model Helical Antenna and Its Use in Validating a Code for Lightning-Induced Voltage Calculation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 778-787	2	4
279	A Study of a Large Bipolar Lightning Event Observed at the Săltis Tower. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 796-806	2	3
278	Analysis of a bipolar upward lightning flash based on simultaneous records of currents and 380-km distant electric fields. <i>Electric Power Systems Research</i> , 2019 , 174, 105845	3.5	4
277	On the Modeling of Non-Vertical Risers in the Interaction of Electromagnetic Fields With Overhead Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 631-636	2	2
276	Calculation of High-Frequency Electromagnetic Field Coupling to Overhead Transmission Line Above a Lossy Ground and Terminated With a Nonlinear Load. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 4119-4132	4.9	7
275	Importance of Taking Into Account the Soil Stratification in Reproducing the Late-Time Features of Distant Fields Radiated by Lightning. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 935-944	2.4	5

274	Tower and Path-Dependent Voltage Effects on the Measurement of Grounding Impedance for Lightning Studies. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 409-418	2	9
273	Estimation of the expected annual number of flashovers in power distribution lines due to negative and positive lightning. <i>Electric Power Systems Research</i> , 2019 , 176, 105956	3.5	3
272	On the representation of thin wires inside lossy dielectric materials for FDTD-based LEMP simulations. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2019 , 14, 1314-1322	1	2
271	Generalized Electric Field Equations of a Time-Varying Current Distribution Based on the Electromagnetic Fields of Moving and Accelerating Charges. <i>Atmosphere</i> , 2019 , 10, 367	2.7	5
270	Meteorological Aspects of Self-Initiated Upward Lightning at the Sŕtis Tower (Switzerland). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 14162-14183	4.4	8
269	Nowcasting lightning occurrence from commonly available meteorological parameters using machine learning techniques. <i>Npj Climate and Atmospheric Science</i> , 2019 , 2,	8	21
268	Locating Lightning Using Electromagnetic Time Reversal: Application of the Minimum Entropy Criterion 2019 ,		8
267	LMA Observation of Upward Bipolar Lightning Flash at the Sŕtis Tower 2019 ,		2
266	Single-Sensor Source Localization Using Electromagnetic Time Reversal and Deep Transfer Learning: Application to Lightning. <i>Scientific Reports</i> , 2019 , 9, 17372	4.9	7
265	A New Engineering Model of Lightning M Component That Reproduces Its Electric Field Waveforms at Both Close and Far Distances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 14008-14023	4.4	6
264	The Propagation Effects of Lightning Electromagnetic Fields Over Mountainous Terrain in the Earth-Ionosphere Waveguide. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 14198-14219	4.4	6
263	Calculation of the Grounding Resistance of Structures Located on Elevated Terrain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1891-1895	2	9
262	Nonlinear electrical conductivity through the thickness of multidirectional carbon fiber composites. <i>Journal of Materials Science</i> , 2019 , 54, 3893-3903	4.3	1
261	On the Differential Input Impedance of an Electro-Explosive Device. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 858-864	4.1	3
260	An Analysis of Current and Electric Field Pulses Associated With Upward Negative Lightning Flashes Initiated from the Sŕtis Tower. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4045-4059	4.4	18
259	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 785-794	2	16
258	Frequency Response of Electric and Magnetic Fields of Overhead Conductors With Particular Reference to Axial Electric Field. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 2029-2032	2	4
257	A Full-Scale Experimental Validation of Electromagnetic Time Reversal Applied to Locate Disturbances in Overhead Power Distribution Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1562-1570	2	26

256	A Simple Formula Expressing the Fields on the Aperture of an Impulse Radiating Antenna Fed by TEM Coplanar Plates. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1549-1552	4.9	0
255	A New Solution for the Evaluation of the Horizontal Electric Fields From Lightning in Presence of a Finitely Conducting Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 674-678	2	11
254	Study of the Propagation of Common Mode IEMI Signals Through Concrete Walls. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 385-393	2	4
253	Evaluation of the Mitigation Effect of the Shield Wires on Lightning Induced Overvoltages in MV Distribution Systems Using Statistical Analysis. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1400-1408	2	18
252	An improved time marching simulation of distributed multiport networks loaded with nonlinear devices. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018 , 31, e2315	1	
251	Extension of the Unmatched-Media Time Reversal Method to Locate Soft Faults in Transmission Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1539-1545	2	7
250	An experimental field study of the grounding system response of tall wind turbines to impulse surges. <i>Electric Power Systems Research</i> , 2018 , 160, 219-225	3.5	11
249	Norm Criteria in the Electromagnetic Time Reversal Technique for Fault Location in Transmission Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1240-1248	2	23
248	On Nonuniform Transient Electromagnetic Field Coupling to Overhead Transmission Lines. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 3087-3096	4.9	6
247	Locating lightning strikes and flashovers along overhead power transmission lines using electromagnetic time reversal. <i>Electric Power Systems Research</i> , 2018 , 160, 282-291	3.5	9
246	LMA observation of upward flashes at Sŕtis Tower: Preliminary results 2018 ,		1
245	Corrections to Study of the Propagation of Common Mode IEMI Signals Through Concrete Walls [Apr 18 385-393]. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1610-1610	2	
244	A Semi-Analytical Method to Evaluate Lightning-Induced Overvoltages on Overhead Lines Using the Matrix Pencil Method. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2837-2848	4.3	14
243	Effect of Dispersive Soil on the Electromagnetic Response of Buried Wires in the UHF Range. <i>Radio Science</i> , 2018 , 53, 895-905	1.4	3
242	Modeling of EMP coupling to lossless MTLs in time domain based on analytical Gauss-Seidel iteration technique 2018 ,		2
241	On the Impact of Meteorological Conditions on the Initiation of Upward Lightning Flashes from Tall Structures 2018 ,		2
240	On the Classification of Self-Triggered versus Other Triggered Lightning Flashes 2018 ,		2
239	An Analysis of the Distribution of Inter-Flash Time Intervals in the Area of the Sŕtis Tower 2018 ,		1

238	On the Similarity of Electric Field Signatures of Upward and Downward Negative Leaders 2018 ,		1
237	Electromagnetic Time Reversal Applied to Fault Location: On the Properties of Back-Injected Signals 2018 ,		10
236	Modeling of different charge transfer modes in upward flashes constrained by simultaneously measured currents and fields 2018 ,		7
235	Formulation of the Field-to-Transmission Line Coupling Equations in Terms of Scalar and Vector Potentials. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1586-1591	2	14
234	Mixed-Potential Integral Equation for Full-Wave Modeling of Grounding Systems Buried in a Lossy Multilayer Stratified Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1505-1513	2	22
233	Analysis of lightning-ionosphere interaction using simultaneous records of source current and 380 km distant electric field. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 159, 48-56	2	13
232	Lightning Potential Index performances in multimicrophysical cloud-resolving simulations of a back-building mesoscale convective system: The Genoa 2014 event. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4238-4257	4.4	29
231	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1320-1328	2	8
230	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1601-1612	2	44
229	Single-end FPGA-based fault location system for radial/meshed AC/DC networks based on the electromagnetic time reversal theory 2017 ,		3
228	Assessment of the influence of losses on the performance of the electromagnetic time reversal fault location method 2017 ,		2
227	Lightning performance of distribution lines due to positive and negative indirect lightning flashes 2017 ,		1
226	Location Accuracy Evaluation of ToA-Based Lightning Location Systems Over Mountainous Terrain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,760-11,775	4.4	22
225	A Technique for Calculating Voltages Induced on Twisted-Wire Pairs Using the FDTD Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 301-304	2	15
224	Extrapolation of a Truncated Spectrum With Hilbert Transform for Obtaining Causal Impulse Responses. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 454-460	2	6
223	Stable Simulation of Multiport Passive Distributed Networks Using Time Marching Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 447-453	2	2
222	Evaluation of Power System Lightning Performance Part II: Application to an Overhead Distribution Network. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 146-153	2	26
221	Assessment of the Influence of Losses on the Performance of the Electromagnetic Time Reversal Fault Location Method. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 2303-2312	4.3	33

220	Evaluation of Power System Lightning Performance, Part I: Model and Numerical Solution Using the PSCAD-EMTDC Platform. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 137-145	2	40
219	Using electromagnetic time reversal to locate faults in transmission lines: Definition and application of the Mirrored Minimum Energy Property 2017 ,		15
218	Influence of ground wire on the initiation of upward leader from 110 to 1000 kV AC phase line. <i>Electric Power Systems Research</i> , 2016 , 130, 103-112	3.5	3
217	ON INSTABILITIES IN TIME MARCHING METHODS. <i>Progress in Electromagnetics Research C</i> , 2016 , 68, 1-10.	0.9	1
216	Fast initial continuous current pulses versus return stroke pulses in tower-initiated lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6425-6434	4.4	17
215	A Switched Oscillator Geometry Inspired by a Curvilinear SpacePart II: Electrodynamics Considerations. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2249-2257	1.3	2
214	An automated FPGA real-time simulator for power electronics and power systems electromagnetic transient applications. <i>Electric Power Systems Research</i> , 2016 , 141, 147-156	3.5	16
213	High power electromagnetics applied to humanitarian demining in Colombia 2016 ,		2
212	Electromagnetic field coupling to transmission lines: A model for the risers 2016 ,		1
211	Correlation vs. causality in other-triggered upward lightning in tower flashes 2016 ,		2
210	Experimental Characterization of the Response of an Electrical and Communication Raceway to IEMI. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 494-505	2	9
209	On the Kernel of the CoorayRubinstein Formula in the Time Domain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 927-930	2	8
208	An Improved Approach for the Calculation of the Transient Ground Resistance Matrix of Multiconductor Lines. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 1142-1149	4.3	10
207	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 161-171	2	47
206	On Practical Implementation of Electromagnetic Models of Lightning Return-Strokes. <i>Atmosphere</i> , 2016 , 7, 135	2.7	8
205	A Methodology to Reduce the Computational Effort in the Evaluation of the Lightning Performance of Distribution Networks. <i>Atmosphere</i> , 2016 , 7, 147	2.7	4
204	A Switched Oscillator Geometry Inspired by a Curvilinear SpacePart I: DC Considerations. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2240-2248	1.3	3
203	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 Sītis Tower. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 595-606	4.4	30

202	Analysis of lightning electromagnetic field propagation in mountainous terrain and its effects on ToA-based lightning location systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 895-914	4.4	18
201	Implementation and performance analysis of the lightning potential index as a forecasting tool 2016 ,		1
200	Bipolar lightning flashes observed at the Sfitis Tower: Do we need to modify the traditional classification?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 14,117-14,126	4.4	6
199	Graded-permittivity polymer nanocomposites as superior dielectrics. <i>Composites Science and Technology</i> , 2016 , 129, 1-9	8.6	18
198	On the adequacy of standardized lightning current waveform for composite structures for aircraft and wind turbine blades 2016 ,		3
197	Stable simulation of nonlinearly loaded lossy transmission lines with time marching approach 2016 ,		3
196	An Improved Formula for the Transfer Impedance of Two-Layer Braided Cable Shields. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 607-610	2	8
195	Analysis of Electromagnetic Fields Inside a Reinforced Concrete Building With Layered Reinforcing Bar due to Direct and Indirect Lightning Strikes Using the FDTD Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 405-417	2	23
194	Numerical Simulation of the Overall Transfer Impedance of Shielded Spacecraft Harness Cable Assemblies. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 894-902	2	6
193	A New Formulation of the CoorayRubinstein Expression in Time Domain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 391-396	2	27
192	Propagation effects on lightning magnetic fields over hilly and mountainous terrain 2015 ,		7
191	The Influence of the Slope Angle of the Ocean and Mixed Propagation Path on the Lightning Electromagnetic Fields. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1086-1095	2	8
190	Electromagnetic time reversal applied to fault detection: The issue of losses 2015 ,		8
189	Some Developments of the CoorayRubinstein Formula in the Time Domain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1079-1085	2	16
188	On the Transmission-Line Approach for the Evaluation of LEMP Coupling to Multiconductor Lines. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 861-869	4.3	19
187	A model for the evaluation of the electric field associated with the lightning-triggering rocket wire and its corona. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 10,964-10,973	4.4	2
186	From the Outgoing Editor-in-Chief. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1287-1288		
185	High-Frequency Electromagnetic Coupling to Multiconductor Transmission Lines of Finite Length. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1714-1723	2	20

184	An analysis of the initiation of upward flashes from tall towers with particular reference to Gaisberg and Sītis Towers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 136, 46-51	2	16
183	On the validity limits of the transmission line theory in evaluating differential-mode signals along a two-wire line above a ground plane 2015 ,		3
182	Characteristics of electric fields of upward negative stepped leaders 2015 ,		4
181	2015 ,		3
180	Time-Domain Analysis of Building Shielding Against Lightning Electromagnetic Fields. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 397-404	2	24
179	A Comparison of Frequency-Dependent Soil Models: Application to the Analysis of Grounding Systems. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 177-187	2	97
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