

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3434400/farhad-rachidi-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	Influence of a lossy ground on lightning-induced voltages on overhead lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1996 , 38, 250-264	2	261
344	Lightning return stroke current models with specified channel-base current: A review and comparison. <i>Journal of Geophysical Research</i> , 1990 , 95, 20395		235
343	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1993 , 35, 75-86	2	215
342	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2001 , 43, 356-367	2	214
341	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1993 , 35, 404-407	2	158
340	Overview of Recent Progress in Lightning Research and Lightning Protection. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009 , 51, 428-442	2	135
339	A Review of Field-to-Transmission Line Coupling Models With Special Emphasis to Lightning-Induced Voltages on Overhead Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 898-911	2	130
338	On the Master, Uman, Lin, Standler and the Modified Transmission Line Lightning return stroke current models. <i>Journal of Geophysical Research</i> , 1990 , 95, 20389		130
337	Transient analysis of multiconductor lines above a lossy ground. <i>IEEE Transactions on Power Delivery</i> , 1999 , 14, 294-302	4.3	128
336	An Efficient Method Based on the Electromagnetic Time Reversal to Locate Faults in Power Networks. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 1663-1673	4.3	118
335	Mitigation of lightning-induced overvoltages in medium Voltage distribution lines by means of periodical grounding of shielding wires and of surge arresters: modeling and experimental validation. <i>IEEE Transactions on Power Delivery</i> , 2004 , 19, 423-431	4.3	116
334	A Review of Current Issues in Lightning Protection of New-Generation Wind-Turbine Blades. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 2489-2496	8.9	111
333	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
332	Effect of vertically extended strike object on the distribution of current along the lightning channel. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 16-1-ACL 16-6		89
331	Electromagnetic field coupling to a line of finite length: theory and fast iterative solutions in frequency and time domains. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1995 , 37, 509-518	2	83
330	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005 , 47, 498-508	2	82
329	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009 , 51, 532-547	2	71

328	Lightning-induced voltages on complex distribution systems: models, advanced software tools and experimental validation. <i>Journal of Electrostatics</i> , 2004 , 60, 163-174	1.7	71
327	External impedance and admittance of buried horizontal wires for transient studies using transmission line analysis. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2007 , 14, 751-761	2.3	68
326	Lightning return stroke current radiation in presence of a conducting ground: 2. Validity assessment of simplified approaches. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		66
325	Evaluation of Lightning Electromagnetic Fields and Their Induced Voltages on Overhead Lines Considering the Frequency Dependence of Soil Electrical Parameters. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 1210-1219	2	63
324	. <i>IEEE Transactions on Power Delivery</i> , 1995 , 10, 330-339	4.3	57
323	On the contribution of the electromagnetic field components in field-to-transmission line interaction. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1995 , 37, 505-508	2	56
322	Characterization of vertical electric fields 500 m and 30 m from triggered lightning. <i>Journal of Geophysical Research</i> , 1995 , 100, 8863		54
321	Far-field-current relationship based on the TL model for lightning return strokes to elevated strike objects. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005 , 47, 146-159	2	53
320	Lightning induced disturbances in buried cables - part II: experiment and model validation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005 , 47, 509-520	2	53
319	Response of multiconductor power lines to nearby lightning return stroke electromagnetic fields. <i>IEEE Transactions on Power Delivery</i> , 1997 , 12, 1404-1411	4.3	52
318	On the estimation of lightning peak currents from measured fields using lightning location systems. <i>Journal of Electrostatics</i> , 2004 , 60, 121-129	1.7	51
317	On the influence of elevated strike objects on directly measured and indirectly estimated lightning currents. <i>IEEE Transactions on Power Delivery</i> , 1998 , 13, 1543-1555	4.3	49
316	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 161-171	2	47
315	An Algorithm for the Exact Evaluation of the Underground Lightning Electromagnetic Fields. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2007 , 49, 401-411	2	47
314	A system for the measurements of lightning currents at the Sūtis Tower. <i>Electric Power Systems Research</i> , 2012 , 82, 34-43	3.5	46
313	On the Choice Between Transmission Line Equations and Full-Wave Maxwell's Equations for Transient Analysis of Buried Wires. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2008 , 50, 347-357 ²		46
312	Determination of lightning currents from far electromagnetic fields. <i>Journal of Geophysical Research</i> , 1993 , 98, 18315-18321		46
311	High-frequency electromagnetic field coupling to long terminated lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2001 , 43, 117-129	2	45

310	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1601-1612	2	44
309	On the Location of Lightning Discharges Using Time Reversal of Electromagnetic Fields. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 149-158	2	43
308	Statistical Distributions of Lightning Currents Associated With Upward Negative Flashes Based on the Data Collected at the Sītis (EMC) Tower in 2010 and 2011. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 1804-1812	4.3	41
307	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
306	Validity of Simplified Approaches for the Evaluation of Lightning Electromagnetic Fields Above a Horizontally Stratified Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2010 , 52, 657-663	2	39
305	Interaction of electromagnetic fields generated by lightning with overhead electrical networks	425-478	37
304	Nonuniform transmission tower model for lightning transient studies. <i>IEEE Transactions on Power Delivery</i> , 2004 , 19, 490-496	4.3	35
303	A new expression for the ground transient resistance matrix elements of multiconductor overhead transmission lines. <i>Electric Power Systems Research</i> , 2003 , 65, 41-46	3.5	34
302	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
301	Influence of frequency-dependent soil electrical parameters on the evaluation of lightning electromagnetic fields in air and underground. <i>Journal of Geophysical Research</i> , 2009 , 114,		32
300	. <i>IEEE Transactions on Power Delivery</i> , 2004 , 19, 1238-1244	4.3	31
299	Determination of reflection coefficients at the top and bottom of elevated strike objects struck by lightning. <i>Journal of Geophysical Research</i> , 2003 , 108,		31
298	On the accuracy of approximate techniques for the evaluation of lightning electromagnetic fields along a mixed propagation path. <i>Radio Science</i> , 2011 , 46, n/a-n/a	1.4	30
297	Lightning electromagnetic radiation over a stratified conducting ground: 2. Validity of simplified approaches. <i>Journal of Geophysical Research</i> , 2011 , 116,		30
296	Generalized Form of Telegrapher's Equations for the Electromagnetic Field Coupling to Buried Wires of Finite Length. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009 , 51, 331-337	2	30
295	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
294	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
293	Application of the time reversal of electromagnetic fields to locate lightning discharges. <i>Atmospheric Research</i> , 2012 , 117, 78-85	5.4	29

292	Time-Domain Implementation of CoorayRubinstein Formula via Convolution Integral and Rational Approximation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2011 , 53, 755-763	2	29
291	Lightning Electromagnetic Fields and Their Induced Currents on Buried Cables. Part II: The Effect of a Horizontally Stratified Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1146-1154 ²		28
290	Application of the Matrix Pencil Method to Rational Fitting of Frequency-Domain Responses. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 2399-2408	4.3	28
289	Influence of corona on the voltages induced by nearby lightning on overhead distribution lines. <i>IEEE Transactions on Power Delivery</i> , 2000 , 15, 1265-1273	4.3	28
288	A New Formulation of the CoorayRubinstein Expression in Time Domain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 391-396	2	27
287	Electromagnetic Fields of a Lightning Return Stroke in Presence of a Stratified Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 413-418	2	27
286	On the Current Peak Estimates Provided by Lightning Detection Networks for Lightning Return Strokes to Tall Towers. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009 , 51, 453-458	2	27
285	A finite-difference time-domain approach for the evaluation of electromagnetic fields radiated by lightning strikes to tall structures. <i>Journal of Electrostatics</i> , 2008 , 66, 504-513	1.7	27
284	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
283	Evaluation of Power System Lightning PerformancePart II: Application to an Overhead Distribution Network. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 146-153	2	26
282	Interaction of electromagnetic fields generated by lightning with overhead electrical networks 2014 , 559-609		25
281	Application of the Cascaded Transmission Line Theory of Paul and McKnight to the Evaluation of NEXT and FEXT in Twisted Wire Pair Bundles. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 648-656	2	24
280	Use of the full-wave Finite Element Method for the numerical electromagnetic analysis of LEMP and its coupling to overhead lines. <i>Electric Power Systems Research</i> , 2013 , 94, 24-29	3.5	24
279	Time-Domain Analysis of Building Shielding Against Lightning Electromagnetic Fields. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 397-404	2	24
278	Positive lightning flashes recorded on the Sŕtis tower from May 2010 to January 2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,879-12,892	4.4	24
277	Voltages induced on overhead lines by dart leaders and subsequent return strokes in natural and rocket-triggered lightning. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1997 , 39, 160-166	2	24
276	Generalized Form of Telegrapher's Equations for the Electromagnetic Field Coupling to Finite-Length Lines Above a Lossy Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2007 , 49, 689-697	2	24
275	On the Evaluation of Antenna-Mode Currents Along Transmission Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006 , 48, 693-700	2	24

274	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
273	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
272	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1137-1145	2	23
271	Lightning electromagnetic radiation over a stratified conducting ground: Formulation and numerical evaluation of the electromagnetic fields. <i>Journal of Geophysical Research</i> , 2011 , 116,		23
270	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
269	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
268	Partial Discharge Localization Using Time Reversal: Application to Power Transformers. <i>Sensors</i> , 2020 , 20,	3.8	21
267	Nowcasting lightning occurrence from commonly available meteorological parameters using machine learning techniques. <i>Npj Climate and Atmospheric Science</i> , 2019 , 2,	8	21
266	Fault location in multi-terminal HVDC networks based on Electromagnetic Time Reversal with limited time reversal window 2014 ,		21
265	Lightning Currents Flowing in the Soil and Entering a Test Power Distribution Line Via Its Grounding. <i>IEEE Transactions on Power Delivery</i> , 2009 , 24, 1095-1103	4.3	21
264	On return stroke currents and remote electromagnetic fields associated with lightning strikes to tall structures: 2. Experiment and model validation. <i>Journal of Geophysical Research</i> , 2007 , 112,		21
263	High-Frequency Electromagnetic Coupling to Multiconductor Transmission Lines of Finite Length. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1714-1723	2	20
262	Return stroke current profiles and electromagnetic fields associated with lightning strikes to tall towers: Comparison of engineering models. <i>Journal of Electrostatics</i> , 2007 , 65, 316-321	1.7	20
261	An antenna-theory approach for modeling inclined lightning return stroke channels. <i>Electric Power Systems Research</i> , 2006 , 76, 945-952	3.5	20
260	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
259	On the proportion of upward flashes to lightning research towers. <i>Atmospheric Research</i> , 2013 , 129-130, 110-116	5.4	19
258	Radiated Fields From Lightning Strikes to Tall Structures: Effect of Upward-Connecting Leader and Reflections at the Return Stroke Wavefront. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2011 , 53, 437-445	2	19
257	An Analysis of Current and Electric Field Pulses Associated With Upward Negative Lightning Flashes Initiated from the Săftis Tower. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4045-4059	4.4	18

256	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
255	Electromagnetic field radiated by lightning to tall towers: Treatment of the discontinuity at the return stroke wave front. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		18
254	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	11.4	18
253	Graded-permittivity polymer nanocomposites as superior dielectrics. <i>Composites Science and Technology</i> , 2016 , 129, 1-9	8.6	18
252	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
251	On the use of electromagnetic time reversal to locate faults in series-compensated transmission lines 2013 ,		17
250	Evaluation of Lightning-Induced Currents on Cables Buried in a Lossy Dispersive Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1522-1529	2	17
249	On the Measurement and Calculation of Horizontal Electric Fields From Lightning. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2011 , 53, 792-801	2	17
248	Lightning strikes to elevated structures: influence grounding conditions on currents and electromagnetic fields		17
247	Some Developments of the CoorayRubinstein Formula in the Time Domain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1079-1085	2	16
246	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 785-794	2	16
245	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
244	An analysis of the initiation of upward flashes from tall towers with particular reference to Gaisberg and S��tis Towers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 136, 46-51	2	16
243	A new method to locate faults in power networks based on Electromagnetic Time Reversal 2012 ,		16
242	Lightning electromagnetic fields at very close distances associated with lightning strikes to the Gaisberg tower. <i>Journal of Geophysical Research</i> , 2010 , 115,		16
241	Effect of Nearby Buildings on Electromagnetic Fields from Lightning. <i>Journal of Lightning Research</i> , 2009 , 1, 52-60		16
240	Prony Series Representation for the Lightning Channel Base Current. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 308-315	2	15
239	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

238	Using electromagnetic time reversal to locate faults in transmission lines: Definition and application of the Mirrored Minimum Energy Property 2017 ,		15
237	Lightning electromagnetic fields and their induced voltages on overhead lines: the effect of a non-flat lossy ground 2014 ,		15
236	On the inversion of polarity of the electric field at very close range from a tower struck by lightning. <i>Journal of Geophysical Research</i> , 2007 , 112,		15
235	Determination of lightning currents from far electromagnetic fields: Effect of a strike object. <i>Journal of Electrostatics</i> , 2007 , 65, 289-295	1.7	15
234	Partial Discharge Localization Using Electromagnetic Time Reversal: A Performance Analysis. <i>IEEE Access</i> , 2020 , 8, 147507-147515	3.5	15
233	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
232	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
231	CIGRE technical brochure on lightning parameters for engineering applications 2013 ,		14
230	On the possible variation of the lightning striking distance as assumed in the IEC lightning protection standard as a function of structure height. <i>Electric Power Systems Research</i> , 2014 , 113, 79-87	3.5	14
229	On the Validity of Approximate Formulas for the Evaluation of the Lightning Electromagnetic Fields in the Presence of a Lossy Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 1-9	2	14
228	Application of a partial element equivalent circuit method to lightning surge analyses. <i>Electric Power Systems Research</i> , 2013 , 94, 30-37	3.5	14
227	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
226	On the Mechanism of Current Pulse Propagation Along Conical Structures: Application to Tall Towers Struck by Lightning. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 332-342	2	13
225	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
224	Time-Domain Generalized Telegrapher's Equations for the Electromagnetic Field Coupling to Finite Length Wires Above a Lossy Ground. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 218-224	2.4	12
223	An Effective Approach for High-Frequency Electromagnetic Field-to-Line Coupling Analysis Based on Regularization Techniques. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 1289-1297	2	12
222	On wire-grid representation of solid metallic surfaces. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005 , 47, 192-195	2	12
221	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

220	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
219	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
218	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
217	Compensation of the Instrumental Decay in Measured Lightning Electric Field Waveforms. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 685-688	2	11
216	A general purpose FPGA-based real-time simulator for power systems applications 2013 ,		11
215	Frequency-domain analysis of ground electrodes buried in an ionized soil when subjected to surge currents: A MoM/AOM approach. <i>Electric Power Systems Research</i> , 2011 , 81, 290-296	3.5	11
214	On the mechanisms of differential-mode to common-mode conversion in the broadband over power line (BPL) frequency band 2006 ,		11
213	A parallel implementation of NEC for the analysis of large structures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2003 , 45, 177-188	2	11
212	Energy balance comparison of sorghum and sunflower. <i>Theoretical and Applied Climatology</i> , 1993 , 48, 29-39	3	11
211	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
210	Lightning Return Strokes to Tall Towers: Ability of Engineering and Electromagnetic Models to Reproduce Nearby Electromagnetic Fields. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 889-897	2	10
209	Lightning-induced currents in buried coaxial cables: A frequency-domain approach and its validation using rocket-triggered lightning. <i>Journal of Electrostatics</i> , 2007 , 65, 322-328	1.7	10
208	On the Computation of underground Electromagnetic Fields Generated by Lightning: A Comparison between Different Approaches 2007 ,		10
207	Mitigation of electromagnetic field radiated by PLC systems in indoor environment. <i>International Journal of Communication Systems</i> , 2003 , 16, 417-426	1.7	10
206	Localization of Electromagnetic Interference Sources Using a Time-Reversal Cavity. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 654-662	8.9	10
205	Electromagnetic Time Reversal Applied to Fault Location: On the Properties of Back-Injected Signals 2018 ,		10
204	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
203	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

202	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
201	Time reversal of electromagnetic fields and its application to lightning location 2013 ,		9
200	Singularity expansion method (SEM) for long terminated transmission lines 2013 ,		9
199	Why do some lightning return stroke models not reproduce the far-field zero crossing?. <i>Journal of Geophysical Research</i> , 2009 , 114,		9
198	On the Relationship Between the Signature of Close Electric Field and the Equivalent Corona Current in Lightning Return Stroke Models. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2008 , 50, 921-927	2	9
197	On return stroke currents and remote electromagnetic fields associated with lightning strikes to tall structures: 1. Computational models. <i>Journal of Geophysical Research</i> , 2007 , 112,		9
196	Calculation of the Grounding Resistance of Structures Located on Elevated Terrain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1891-1895	2	9
195	The laser lightning rod project. <i>EPJ Applied Physics</i> , 2021 , 93, 10504	1.1	9
194	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1320-1328	2	8
193	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
192	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
191	Electromagnetic time reversal applied to fault detection: The issue of losses 2015 ,		8
190	Modeling Compact Intracloud Discharge (CID) as a Streamer Burst. <i>Atmosphere</i> , 2020 , 11, 549	2.7	8
189	On the Kernel of the CoorayRubinstein Formula in the Time Domain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 927-930	2	8
188	Meteorological Aspects of Self-Initiated Upward Lightning at the S��tis Tower (Switzerland). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 14162-14183	4.4	8
187	Lightning currents measured on the S��tis Tower: A summary of the results obtained in 2010 and 2011 2013 ,		8
186	Analysis of Transmission Lines With Arrester Termination, Considering the Frequency-Dependence of Grounding Systems. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009 , 51, 986-994	2	8
185	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

184	On Practical Implementation of Electromagnetic Models of Lightning Return-Strokes. <i>Atmosphere</i> , 2016 , 7, 135	2.7	8
183	Locating Lightning Using Electromagnetic Time Reversal: Application of the Minimum Entropy Criterion 2019 ,		8
182	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
181	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
180	Propagation effects on lightning magnetic fields over hilly and mountainous terrain 2015 ,		7
179	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
178	On the relation between lightning flash density and terrain elevation 2013 ,		7
177	On the Electromagnetic Susceptibility of Hot Wire-Based Electroexplosive Devices to RF Sources. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 754-763	2	7
176	A method for the assessment of the optimal parameter of discrete-time switch model. <i>Electric Power Systems Research</i> , 2014 , 115, 80-86	3.5	7
175	Lightning Protection of Large Wind-Turbine Blades. <i>Green Energy and Technology</i> , 2012 , 227-241	0.6	7
174	Preliminary comparison of data from the Sŕtis Tower and the EUCLID lightning location system 2011 ,		7
173	Susceptibility of Electro-explosive Devices to Microwave Interference. <i>Defence Science Journal</i> , 2013 , 63, 386-392	1.4	7
172	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
171	Modeling of different charge transfer modes in upward flashes constrained by simultaneously measured currents and fields 2018 ,		7
170	Polarimetric radar characteristics of lightning initiation and propagating channels. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 2881-2911	4	6
169	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
168	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
167	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

166	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
165	The effect of a horizontally stratified ground on lightning electromagnetic fields 2010 ,		6
164	Analytical Expressions for Zero-Crossing Times in Lightning Return-Stroke Engineering Models. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009 , 51, 963-974	2	6
163	Analysis of lightning detection network data for selected areas in Canada 2012 ,		6
162	On the use of the Time Reversal of Electromagnetic fields to locate lightning discharges 2012 ,		6
161	Measurement of lightning currents using a combination of Rogowski coils and B-dot sensors 2010 ,		6
160	Comparison of current characteristics of lightning strokes measured at the CN Tower and at other elevated objects		6
159	Analysis of power line communication networks using a new approach based on scattering parameters matrix		6
158	Bipolar lightning flashes observed at the Sŕtis 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
157	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
156	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
155	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 108-115	2	6
154	On the Propagation of Lightning-Radiated Electromagnetic Fields Across a Mountain. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2137-2147	2	5
153	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
152	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
151	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
150	Characterization, Modeling, and Statistical Analysis of the Electromagnetic Response of Inert Improvised Explosive Devices. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 393-403	2	5
149	A New Set of Electrodes for Coaxial Quarter Wave Switched Oscillators. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 2545-2550	1.3	5

148	Some characteristics of positive and bipolar lightning flashes recorded on the Sŕtis tower in 2010 and 2011 2012 ,		5
147	Modeling of the propagation along low voltage power networks for IEMI studies 2013 ,		5
146	Interaction between grounding systems and nearby lightning for the calculation of overvoltages in overhead distribution lines 2011 ,		5
145	Locating lightning using time reversal of electromagnetic fields 2010 ,		5
144	Analyse du champ lectromagnŕtique dŕ une dŕcharge de foudre dans les domaines temporel et frŕquentiel. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 1988 , 43, 625-637	2	5
143	Derivation of telegrapherŕ equations and field-to-transmission line interaction. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , 2008 , 3-22		5
142	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
141	Propagation effects on electromagnetic fields generated by lightning return strokes: Review of simplified formulas and their validity assessment485-513		5
140	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
139	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
138	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
137	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
136	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
135	Impedance and Admittance Formulas for a Multistair Model of Transmission Towers. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2491-2502	2	4
134	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
133	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
132	Characteristics of electric fields of upward negative stepped leaders 2015 ,		4
131	Analysis of lightning events preceding upward flashes from Gaisberg and Sŕtis Towers 2014 ,		4

130	An update on the characteristics of positive flashes recorded on the Săit's Tower 2014 ,		4
129	A full-wave analysis of lightning-induced voltages on distribution lines considering the conductive coupling between the lightning channel and the grounding system 2012 ,		4
128	Relativistic Doppler effect in an extending transmission line: Application to lightning. <i>Journal of Geophysical Research</i> , 2011 , 116,		4
127	Wideband experimental characterization of differential antennas 2012 ,		4
126	Benford's Law and Its Application to Lightning Data. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2010 , 52, 956-961	2	4
125	Lightning-Related Faults in Power Distribution Networks 2007 ,		4
124	A physical interpretation of the equal area rule. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006 , 48, 258-263	2	4
123	Measurement of lightning-induced currents in an experimental coaxial buried cable		4
122	Indoor radiated emission associated with power line communication systems		4
121	On the enhancement of radiated electric and magnetic fields associated with lightning return strokes to tall structures		4
120	High-frequency electromagnetic coupling to transmission lines: electrodynamics correction to the TL approximation. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , 2008 , 123-158		4
119	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
118	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
117	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
116	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 ² 1089		4
115	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
114	Analysis of the lightning production of convective cells. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5573-5591	4	3
113	A Study of a Large Bipolar Lightning Event Observed at the Săit's Tower. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 796-806	2	3

112	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
111	The Polarity Reversal of Lightning-Generated Sky Wave. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032448	4.4	3
110	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
109	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
108	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
107	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
106	Electric field within lightning protection volume in presence of a descending leader. <i>Electric Power Systems Research</i> , 2012 , 85, 82-89	3.5	3
105	Design, Realization, and Experimental Test of a Coaxial Exponential Transmission Line Adaptor for a Half-Impulse Radiating Antenna. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 173-181	1.3	3
104	Single-end FPGA-based fault location system for radial/meshed AC/DC networks based on the electromagnetic time reversal theory 2017 ,		3
103	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
102	2015 ,		3
101	A comparator-based technique for identification of intentional electromagnetic interference attacks 2014 ,		3
100	High-frequency electromagnetic field coupling to a long finite line with vertical risers 2014 ,		3
99	Correction to Relativistic Doppler effect in an extending transmission line: Application to lightning <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		3
98	Current waveforms associated with positive flashes recorded on the sñtis tower in summer 2010 2011 ,		3
97	Modeling of the electromagnetic coupling to electro-explosive devices 2011 ,		3
96	Analysis of wavelet based denoising methods applied to measured lightning electric fields 2010 ,		3
95	Lightning horizontal electric fields above a two-layer ground 2010 ,		3

94	Distortion of Electric and Magnetic Fields from Lightning Due to Close-By Metallic Structures 2007 ,		3
93	Analysis of power line communication networks using a new approach based on an efficient measurement technique		3
92	Evaluation of indoor PLC radiation resulting from conducted emission limits 2003 ,		3
91	Localization of Electromagnetic Interference Source Using a Time Reversal Cavity: Application of the Maximum Power Criterion 2020 ,		3
90	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
89	On the adequacy of standardized lightning current waveform for composite structures for aircraft and wind turbine blades 2016 ,		3
88	Stable simulation of nonlinearly loaded lossy transmission lines with time marching approach 2016 ,		3
87	Revisiting the Calculation of the Early Time HEMP Conducted Environment. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 111-124	2	3
86	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
85	Analytical Expressions for Lightning Electromagnetic Fields With Arbitrary Channel-Base CurrentPart I: Theory. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 525-533	2	3
84	An experimental validation of partial discharge localization using electromagnetic time reversal. <i>Scientific Reports</i> , 2021 , 11, 220	4.9	3
83	Modified Transmission Line Model with a Current Attenuation Function Derived from the Lightning Radiation FieldMTLD Model. <i>Atmosphere</i> , 2021 , 12, 249	2.7	3
82	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
81	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
80	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
79	A Switched Oscillator Geometry Inspired by a Curvilinear SpacePart II: Electrodynamic Considerations. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2249-2257	1.3	2
78	High power electromagnetics applied to humanitarian demining in Colombia 2016 ,		2
77	Correlation vs. causality in other-triggered upward lightning in tower flashes 2016 ,		2

76	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
75	Assessment of the influence of losses on the performance of the electromagnetic time reversal fault location method 2017 ,		2
74	Stable Simulation of Multiport Passive Distributed Networks Using Time Marching Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 447-453	2	2
73	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
72	MTL modeling of spacecraft harness cable assemblies 2014 ,		2
71	Modeling lightning current distribution in conductive elements of a wind turbine blade 2014 ,		2
70	On the evaluation of the effective height of towers: The case of the Gaisberg tower 2012 ,		2
69	From the Incoming Editor-in-Chief. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 2-2	2	2
68	Critical equipment input impedance measurement for IEMI calculations 2013 ,		2
67	A two-station lightning location method based on a combination of difference of time of arrival and amplitude attenuation 2010 ,		2
66	On the proportion of upward flashes to lightning research towers 2011 ,		2
65	A statistical analysis on the risetime of lightning current pulses in negative upward flashes measured at Sŕitis tower 2012 ,		2
64	Electric and magnetic fields at very close range from a lightning strike to a tall object 2008 ,		2
63	On the use of the equal area rule for the wire-grid representation of metallic surfaces 2006 ,		2
62	Discussion on the assessment and mitigation of radiation from PLC networks 2005 ,		2
61	Design of a new air-cored current transformer: analytical modeling and experimental validation		2
60	From Electromagnetic Time-Reversal Theoretical Accuracy to Practical Robustness for EMC Applications	91-144	2
59	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

58	LMA Observation of Upward Bipolar Lightning Flash at the Sŕtis Tower 2019 ,		2
57	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
56	A New Channel-Base Lightning Current Formula With Analytically Adjustable Parameters. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 542-549	2	2
55	Modeling of EMP coupling to lossless MTLs in time domain based on analytical Gauss-Seidel iteration technique 2018 ,		2
54	On the Impact of Meteorological Conditions on the Initiation of Upward Lightning Flashes from Tall Structures 2018 ,		2
53	On the Classification of Self-Triggered versus Other Triggered Lightning Flashes 2018 ,		2
52	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
51	An Inverse-Filter-Based Method to Locate Partial Discharge Sources in Power Transformers. <i>Energies</i> , 2022 , 15, 1988	3.1	2
50	On the Influence of an Elevated Terrain on the Grounding Resistance of a Vertical Rod 2019 ,		1
49	Properties of Direct-Time and Reversed-Time Transfer Functions to Locate Disturbances along Power Transmission Lines 2019 ,		1
48	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
47	ON INSTABILITIES IN TIME MARCHING METHODS. <i>Progress in Electromagnetics Research C</i> , 2016 , 68, 1-10.9		1
46	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
45	Electromagnetic field coupling to transmission lines: A model for the risers 2016 ,		1
44	LMA observation of upward flashes at Sŕtis Tower: Preliminary results 2018 ,		1
43	Design of a switched oscillator for IEMI susceptibility testing 2013 ,		1
42	Lightning performance of distribution lines due to positive and negative indirect lightning flashes 2017 ,		1
41	On the Concept of Grounding Impedance of Multipoint Grounding Systems. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 1540-1544	2	1

40	On the propagation of current pulses along tall structures struck by lightning 2010 ,		1
39	Corona Charged Subnanosecond Impulse Generator 2009 ,		1
38	On the zero crossing of distant electromagnetic fields radiated by lightning 2009 ,		1
37	Benford's law and lightning data 2010 ,		1
36	On the efficiency of notching technique to reduce EM radiations from PLC networks 2008 ,		1
35	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
34	Partial discharge localization in power transformers using acoustic time reversal. <i>Electric Power Systems Research</i> , 2022 , 206, 107801	3.5	1
33	Single-Sensor EMI Source Localization Using Time Reversal: An Experimental Validation. <i>Electronics (Switzerland)</i> , 2021 , 10, 2448	2.6	1
32	On the Apparent Non-Uniqueness of the Electromagnetic Field Components of Return Strokes Revisited. <i>Atmosphere</i> , 2021 , 12, 1319	2.7	1
31	High-frequency electromagnetic field coupling to long loaded non-uniform lines: an asymptotic approach. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , 2008 , 159-186		1
30	Electromagnetic Environment in the Vicinity of a Tall Tower Struck by Lightning – A Review – <i>IEEE Transactions on Power and Energy</i> , 2012 , 132, 573-578	0.2	1
29	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
28	Implementation and performance analysis of the lightning potential index as a forecasting tool 2016 ,		1
27	Nonlinear electrical conductivity through the thickness of multidirectional carbon fiber composites. <i>Journal of Materials Science</i> , 2019 , 54, 3893-3903	4.3	1
26	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
25	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
24	An Analysis of the Distribution of Inter-Flash Time Intervals in the Area of the Sŕtis Tower 2018 ,		1
23	On the Similarity of Electric Field Signatures of Upward and Downward Negative Leaders 2018 ,		1

22	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
21	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
20	Secondary Fast Breakdown in Narrow Bipolar Events. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
19	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
18	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
17	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
16	Ionization Waves Enhance the Production of X-rays during Streamer Collisions. <i>Atmosphere</i> , 2021 , 12, 1101	2.7	0
15	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
14	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
13	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
12	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	
11	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	
10	Editorial [50th anniversary of the IEEE Transactions on Electromagnetic Compatibility]. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 2-2	2	
9	From the Outgoing Editor-in-Chief. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1287-1288		
8	Guest Editorial Special Issue on Lightning. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009 , 51, 426-427	2	
7	Corrections To "Influence Of A Lossy Ground On Lightning-induced Voltages On Overhead Lines". <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1997 , 39, 187-187	2	
6	Near-field coupling of wireless devices and long communications cables. <i>IET Science, Measurement and Technology</i> , 2008 , 2, 18-24	1.5	
5	A Compressive Sensing Framework for EMI Source Localization Using a Metamaterial Structure: Localization Beyond the Diffraction Limit. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 1-8	2	

- | | | |
|---|--|-----|
| 4 | Bidirectional Recoil Leaders in Upward Lightning Flashes Observed at the Săltis Tower. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035238 | 4.4 |
| 3 | Polarity Asymmetry in Lightning Return Stroke Speed Caused by the Momentum Associated with Radiation. <i>Atmosphere</i> , 2021 , 12, 1642 | 2.7 |
| 2 | 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 |
| 1 | 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 |