

Yoshihiro Baba

List of Publications by Year in descending order

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190
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times ranked

3779
citing authors

#	ARTICLE	IF	CITATIONS
1	On Possible Influence of Corona Discharge on the Propagation Speed of Lightning Surges Along a Tall Grounded Object. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 172-180.	2.2	3
2	Improvement of the Constrained Interpolation Profile Method for LEMP Simulations. IEEE Transactions on Electromagnetic Compatibility, 2021, , 1-8.	2.2	0
3	FDTD Simulation of Lightning-induced Surges. IEJ Transactions on Power and Energy, 2021, 141, 217-228.	0.2	0
4	Lightning Surge Response of a Transmission Tower with Overhead Lines Analyzed by TEM-delay Model. IEJ Transactions on Power and Energy, 2021, 141, 145-153.	0.2	4
5	Electromagnetic and Thermal Analysis of a ZnO Element of Transmission Line Arrester for a Lightning Surge Current. IEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 810-812.	1.4	3
6	Simplified Thermal Computation of a Metal Oxide Varistor Element under a Lightning Impulse Current Injection. IEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 879-881.	1.4	1
7	Circuit Model of an Overhead Transmission Line Considering the TEM Mode Formation Delay. IEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 888-895.	1.4	3
8	FDTD Electromagnetic and Thermal Simulation of a Metal Oxide Varistor Element Considering the Temperature Dependence of Its Resistivity. Electricity, 2021, 2, 158-167.	2.8	2
9	Equivalent Circuit Model of a Transmission Tower Considering a Lightning Struck Point and Cross-arms. Electric Power Systems Research, 2021, 196, 107253.	3.6	0
10	Effective Length of Counterpoises Connected to Wind Turbine Foundation. IEEE Transactions on Power Delivery, 2021, 36, 3956-3963.	4.3	6
11	Lightning Surge Analysis of HV Transmission Line: Bias AC-Voltage Effect on Multiphase Back-Flashover. IEEE Transactions on Power Delivery, 2021, 36, 3570-3579.	4.3	6
12	Lightning Surge Analysis of HV Transmission Line: Bias AC-Voltage Effect on Multiphase Back-flashover. , 2021, , .		1
13	3D-FDTD Calculation of Lightning-Induced Voltages on an Overhead Wire in Presence of a Tower and a Mountain. , 2021, , .		0
14	Electromagnetic and thermal analysis of a multilayer CFRP panel struck by lightning with the FDTD method. IEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 157-158.	1.4	2
15	Finite-Difference Time-Domain Simulation of a Lightning-Impulse-Applied ZnO Element. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1780-1786.	2.2	5
16	Protection Against Lightning-Induced Voltages: Transient Model for Points of Discontinuity on Multiconductor Overhead Line. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1209-1218.	2.2	3
17	PEEC simulation of lightning over-voltage surge with corona discharges on the over head wires. Electric Power Systems Research, 2020, 180, 106118.	3.6	7
18	Simulation of the propagation of lightning electromagnetic pulses in the Earth-ionosphere waveguide using the ftd method in the 2D spherical coordinate system. IEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 335-339.	1.4	3

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19	Circuit Model of Vertical Double-Circuit Transmission Tower and Line for Lightning Surge Analysis Considering TEM-mode Formation. , 2020, , .		0
20	An Approximate Mathematical Expression for Nonlinear Resistive Properties of Metal Oxide Varistor Elements for FDTD Simulations. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2638-2642.	2.2	12
21	Impedance and Admittance Formulas for a Multistair Model of Transmission Towers. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2491-2502.	2.2	10
22	Approximate Mathematical Expressions for Nonlinear Resistive Properties of Zinc Oxide Elements. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2338-2340.	2.2	3
23	Circuit Model of Vertical Double-Circuit Transmission Tower and Line for Lightning Surge Analysis Considering TEM-mode Formation. IEEE Transactions on Power Delivery, 2020, 35, 2471-2480.	4.3	16
24	Soil ionization effects on surge characteristics of grounding electrodes. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1609-1616.	1.4	2
25	3-D FDTD Computation of Electromagnetic Fields Associated With Lightning Strikes to a Tower Climbed on a Trapezoidal Mountain. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 606-616.	2.2	14
26	3D-FDTD Computation of Lightning Electromagnetic Fields in the Presence of a Mountain and a River. , 2019, , .		0
27	Transient Responses of Overhead Cables Due to Mode Transition in High Frequencies. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 785-794.	2.2	25
28	FDTD simulation of back-flashover at the transmission-line tower struck by lightning considering ground-wire corona and operating voltages. Electric Power Systems Research, 2018, 159, 17-23.	3.6	10
29	Protective Effect of Shield Wires Against Direct Lightning Flashes to Buried Cables. IEEE Transactions on Power Delivery, 2018, 33, 1628-1635.	4.3	6
30	Modeling of LEMP propagation in the lossy atmosphere. , 2018, , .		2
31	Application of a Simplified Corona Discharge Model to a Lightning Surge Simulation with the PEEC Method. , 2018, , .		0
32	Surge Withstand Capability of Parallel-connected Metal Oxide Varistors. , 2018, , .		1
33	3D Finite Difference Time Domain Simulation of Lightning Strikes to the 634m Tokyo Skytree. Geophysical Research Letters, 2018, 45, 9267-9274.	4.0	10
34	FDTD Analysis of Lightning Current and Electric Field in a Real-scale CFRP Panel with Triangular Prism Cells. IEEJ Transactions on Power and Energy, 2018, 138, 622-627.	0.2	0
35	A Study on Basic Characteristics of the Proximity Effect on Conductors. IEEE Transactions on Power Delivery, 2017, 32, 1790-1799.	4.3	25
36	Effective length of vertical grounding wires connected to wind turbine foundation. Journal of International Council on Electrical Engineering, 2017, 7, 89-95.	0.4	7

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37	FDTD Modeling of LEMP Propagation in the Earth's Ionosphere Waveguide With Emphasis on Realistic Representation of Lightning Source. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,918.	3.3	11
38	Computation of Lightning Electromagnetic Pulses Using a Hybrid Constrained Interpolation Profile and Transmission Line Modeling Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 1958-1966.	2.2	6
39	An FDTD Study of Errors in Magnetic Direction Finding of Lightning Due to the Presence of Conducting Structure Near the Field Measuring Station. <i>Atmosphere</i> , 2016, 7, 92.	2.3	4
40	FDTD Analysis of Lightning Impulse Current Distribution Inside of ZnO Varistor Element. <i>IEEJ Transactions on Power and Energy</i> , 2016, 136, 839-845.	0.2	1
41	Finite-difference time-domain simulation of partial discharges in a gas insulated switchgear. <i>High Voltage</i> , 2016, 1, 52-56.	4.7	26
42	A study of transient responses on nonuniform conductors by FDTD simulations. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2016, 11, 435-441.	1.4	4
43	FDTD simulation of back-flashover at the transmission-line tower struck by lightning considering ground-wire corona. , 2016, , .		1
44	High-frequency wave-propagation along overhead conductors by transmission line approach and numerical electromagnetic analysis. <i>Electric Power Systems Research</i> , 2016, 136, 12-20.	3.6	5
45	2D FDTD simulation of LEMP propagation considering the presence of conducting atmosphere. , 2016, , .		1
46	FDTD surge simulation of a vertical grounding rod considering soil ionization. , 2016, , .		1
47	Application of a subgridding technique to a 3D CIP-based electromagnetic field analysis using the Hermite interpolation. , 2016, , .		0
48	FDTD Simulation of Lightning Current in a CFRP Panel: Comparison of the Use of Conductivity Matrix Approach With That of Triangular Prism Cells. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016, 58, 1674-1677.	2.2	10
49	Lightning Electromagnetic Field Calculation Using the Constrained Interpolation Profile Method With a Subgridding Technique. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016, 58, 1682-1685.	2.2	5
50	FDTD Simulation of Lightning Current in a Multilayer CFRP Panel With Triangular Prism Cells. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016, 58, 327-330.	2.2	8
51	FDTD Analysis of the Electric Field of a Substation Arrester Under a Lightning Overvoltage. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016, 58, 615-618.	2.2	11
52	Effect of Shield Wires on the Lightning-Induced Currents on Buried Cables. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016, 58, 738-746.	2.2	20
53	Review of Lightning Electromagnetic Field and Surge Computations using the Constrained Interpolation Profile Method. <i>IEEJ Transactions on Power and Energy</i> , 2016, 136, 211-219.	0.2	0
54	FDTD simulation of LEMP propagation over lossy ground: Influence of distance, ground conductivity, and source parameters. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8043-8051.	3.3	14

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55	FDTD simulation of direct lightning strike to a phase conductor: Influence of corona on transient voltages at the tower. <i>Electric Power Systems Research</i> , 2015, 123, 128-136.	3.6	10
56	Representation of a Straight Thin Wire in a Lossy Medium and an Oblique Thin Wire in Air for FDTD Simulations. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 1164-1167.	2.2	5
57	FDTD Computation of Lightning-Induced Voltages on Multiconductor Lines With Surge Arresters and Pole Transformers. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 442-447.	2.2	23
58	Numerical Electromagnetic Field Analysis of High-Frequency Wave Propagation on an Overhead Conductor. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 587-590.	2.2	4
59	A TLM-Based Surge Analysis of Grounding Electrodes. <i>Electrical Engineering in Japan (English)</i> Tj ETQq1 1 0.784314,rgBT /Oyerlock 10 0.4	0.4	0
60	FDTD simulation considering an AC operating voltage for air-insulation substation in terms of lightning protective level. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 806-814.	2.9	15
61	An Improved Thin Wire Representation for FDTD Transient Simulations. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 484-487.	2.2	9
62	Role of Calcium Signaling in B Cell Activation and Biology. <i>Current Topics in Microbiology and Immunology</i> , 2015, 393, 143-174.	1.1	44
63	FDTD computations of lightning-induced voltages in the presence of nearby buildings. , 2015, , .		1
64	Lightning-Induced Voltages in the Presence of Nearby Buildings: FDTD Simulation Versus Small-Scale Experiment. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 1601-1607.	2.2	11
65	A Circuit Model for Lightning Surge of Wind Turbine Tower with an Internal Conductor. <i>IEEJ Transactions on Power and Energy</i> , 2015, 135, 200-206.	0.2	7
66	A Study of Absorbing Boundary Condition for Surge Simulations with the FDTD Method. <i>IEEJ Transactions on Power and Energy</i> , 2015, 135, 408-416.	0.2	1
67	Recent Trends of Lightning Surge Simulation Techniques. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2015, 135, 203-205.	0.0	0
68	Review of FDTD Electromagnetic Field and Surge Simulations. <i>IEEJ Transactions on Power and Energy</i> , 2015, 135, 125-136.	0.2	1
69	Applications of the FDTD method to lightning electromagnetic pulse and surge simulations. , 2014, , .		7
70	STIM1 calcium sensor is required for activation of the phagocyte oxidase during inflammation and host defense. <i>Blood</i> , 2014, 123, 2238-2249.	1.4	76
71	FDTD analysis of lightning electromagnetic pulses considering topography and presence of grounded strike object. , 2014, , .		0
72	Wave Propagation on an Overhead Multiconductor in a High-Frequency Region. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014, 56, 1638-1648.	2.2	41

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73	Interleukin-10-Producing Plasmablasts Exert Regulatory Function in Autoimmune Inflammation. <i>Immunity</i> , 2014, 41, 1040-1051.	14.3	450
74	Corona effect on insulator voltages for a direct lightning strike to a phase conductor. , 2014, , .		1
75	Computation of Lightning Electromagnetic Pulses With the Constrained Interpolation Profile Method in the 2-D Cylindrical Coordinate System. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014, 56, 1497-1505.	2.2	12
76	FDTD Simulations of Corona Effect on Lightning-Induced Voltages. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014, 56, 168-176.	2.2	20
77	Intrinsic Disorder Mediates Cooperative Signal Transduction in STIM1. <i>Journal of Molecular Biology</i> , 2014, 426, 2082-2097.	4.2	24
78	Lightning surge response of a double-circuit transmission tower with incoming lines to a substation through FDTD simulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 96-104.	2.9	7
79	Computation of Lightning Electromagnetic Pulses With the TLM Method in the 2-D Cylindrical Coordinate System. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014, 56, 949-955.	2.2	9
80	Applications of the FDTD Method to Lightning Electromagnetic Pulse and Surge Simulations. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014, 56, 1506-1521.	2.2	63
81	Computation of lightning electromagnetic pulses using the constrained interpolation profile method. <i>Electric Power Systems Research</i> , 2014, 115, 94-101.	3.6	7
82	FDTD surge analysis of grounding electrodes considering soil ionization. <i>Electric Power Systems Research</i> , 2014, 113, 171-179.	3.6	20
83	A circuit model of vertical conductor using Semlyen's line model based on transient response calculated by FDTD. <i>Electric Power Systems Research</i> , 2014, 113, 151-156.	3.6	4
84	Lightning surge into a substation at a back-flashover and review of lightning protective level through the FDTD simulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 1044-1052.	2.9	12
85	Simulation of lightning electromagnetic pulses with the TLM method in the 2D cylindrical coordinate system. , 2014, , .		0
86	A Surge Analysis in a System Connected with Dispersed Power Sources. <i>IEEJ Transactions on Power and Energy</i> , 2014, 134, 230-235.	0.2	0
87	CIP-based Computation of Lightning Electromagnetic Pulses. <i>IEEJ Transactions on Power and Energy</i> , 2014, 134, 210-217.	0.2	2
88	FDTD Simulation of LEMPs Considering Ground Geometry and Grounded Structure. <i>IEEJ Transactions on Power and Energy</i> , 2014, 134, 267-272.	0.2	2
89	Lightning surge response of a double-circuit transmission tower with incoming lines to a substation through FDTD simulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 96-104.	2.9	11
90	Lightning surge characteristics on inclined incoming line to substation based on reduced-scale model experiment. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 739-746.	2.9	25

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91	FDTD Simulation of Insulator Voltages at a Lightning-Struck Tower Considering Ground-Wire Corona. IEEE Transactions on Power Delivery, 2013, 28, 1635-1642.	4.3	26
92	Application of the TLM Method to Transient Simulations of a Conductor System With a Lossy Ground: Grounding Electrodes and an Overhead Wire. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 175-182.	2.2	17
93	Parametric Study on Unit Step Responses of Impulse Voltage Measuring Systems Based on FDTD Simulations. IEEE Transactions on Power Delivery, 2013, 28, 376-382.	4.3	7
94	Application of a partial element equivalent circuit method to lightning surge analyses. Electric Power Systems Research, 2013, 94, 30-37.	3.6	24
95	Application of the Type-C Constrained Interpolation Profile Method to Lightning Electromagnetic Field Analyses. IEJ Transactions on Power and Energy, 2013, 133, 106-113.	0.2	5
96	Wave Propagation Characteristics on a Pipe-Type Cable in Particular Reference to the Proximity Effect. IEJ Transactions on Power and Energy, 2013, 133, 954-960.	0.2	3
97	Influence of a Measuring Wire on Transient Measurements in a Scaled-down Vertical Conductor Experiment. IEJ Transactions on Power and Energy, 2013, 133, 555-561.	0.2	2
98	A frequency dependent circuit model of a wind turbine tower using transient response calculated by FDTD. , 2012, , .		3
99	3-D FDTD Computation of Lightning-Induced Voltages on an Overhead Two-Wire Distribution Line. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 1161-1168.	2.2	32
100	An investigation of incoming lightning surges from a communication line. , 2012, , .		0
101	Surf4 modulates STIM1-dependent calcium entry. Biochemical and Biophysical Research Communications, 2012, 422, 615-620.	2.1	37
102	FDTD Simulation of Lightning Surges on Overhead Wires in the Presence of Corona Discharge. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 1234-1243.	2.2	30
103	FDTD simulation of grounding electrodes considering soil ionization. , 2012, , .		2
104	On the Mechanism of Current Pulse Propagation Along Conical Structures: Application to Tall Towers Struck by Lightning. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 332-342.	2.2	19
105	A Simplified Model of Corona Discharge on Overhead Wire for FDTD Computations. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 585-593.	2.2	44
106	Step Response Analysis of an Impulse Voltage Measuring System using the FDTD Method. IEJ Transactions on Power and Energy, 2012, 132, 507-514.	0.2	0
107	Novel Development of Power Transformation Technology Supporting Electric Power and Energy. IEJ Transactions on Power and Energy, 2012, 132, 388-391.	0.2	0
108	Application of a Frequency-Domain Partial Element Equivalent Circuit Method to Tower Surge Response Calculations. Journal of International Council on Electrical Engineering, 2011, 1, 474-481.	0.4	1

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109	Application of a partial element equivalent circuit method to lightning surge analyses. , 2011, , .		5
110	Simulation of corona at lightning-triggering wire: Current, charge transfer, and the field-reduction effect. Journal of Geophysical Research, 2011, 116, .	3.3	13
111	Application of the Partial Element Equivalent Circuit Method to Analysis of Transient Potential Rises in Grounding Systems. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 726-736.	2.2	77
112	Application of the partial element equivalent circuit method to tower surge response calculations. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 324-330.	1.4	4
113	The Calcium Sensors STIM1 and STIM2 Control B Cell Regulatory Function through Interleukin-10 Production. Immunity, 2011, 34, 703-714.	14.3	235
114	FDTD computation of lightning surges on overhead wires in the presence of corona discharge. , 2011, , .		4
115	An equivalent circuit of a transmission-line tower struck by lightning. , 2010, , .		5
116	On the Equivalence of a Conducting Plate in a Laboratory Experiment to a Real Earth. IEEE Transactions on Electromagnetic Compatibility, 2010, 52, 691-698.	2.2	2
117	Propagation Characteristics of Power Line Communication Signals Along a Power Cable Having Semiconducting Layers. IEEE Transactions on Electromagnetic Compatibility, 2010, 52, 756-769.	2.2	18
118	Ca ²⁺ signaling and STIM1. Progress in Biophysics and Molecular Biology, 2010, 103, 51-58.	2.9	30
119	Influence of a Voltage Reference Wire and a Current Lead Wire to a Transient Voltage on a Vertical Conductor. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 1-7.	1.4	6
120	Influence of a Measuring System to a Transient Voltage on a Vertical Conductor. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 221-228.	1.4	8
121	A TLM-based Surge Analysis Considering Lumped-Circuit Elements. IEEJ Transactions on Power and Energy, 2010, 130, 559-565.	0.2	2
122	Review of Recent Researches Related to Lightning to Tall Structures. IEEJ Transactions on Power and Energy, 2010, 130, 769-779.	0.2	5
123	Present Understanding of the Lightning Return Stroke. , 2009, , 1-21.		6
124	Electric and Magnetic Fields Predicted by Different Electromagnetic Models of the Lightning Return Stroke Versus Measured Fields. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 479-487.	2.2	37
125	Lightning-Induced Voltage Over Lossy Ground by a Hybrid Electromagnetic Circuit Model Method With Cooray's Rubinstein Formula. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 975-985.	2.2	26
126	Physiological function and molecular basis of STIM1-mediated calcium entry in immune cells. Immunological Reviews, 2009, 231, 174-188.	6.0	47

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127	Experimental and Analytical Studies on Lightning Surge Response of 500-kV Transmission Tower. IEEE Transactions on Power Delivery, 2009, 24, 2232-2239.	4.3	35
128	An Investigation of Earth-Return Impedance Between Overhead and Underground Conductors and Its Approximation. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 860-867.	2.2	35
129	FDTD Electromagnetic Analysis of a Wind Turbine Generator Tower Struck by Lightning. IEEE Transactions on Power and Energy, 2009, 129, 1181-1186.	0.2	8
130	Application of the 3D TLM Method to Analyzing Lightning Electromagnetic Fields and Surges. IEEE Transactions on Power and Energy, 2009, 129, 948-956.	0.2	3
131	An Improvement of a Thin Wire Representation for FDTD Electromagnetic and Surge Calculations. IEEE Transactions on Power and Energy, 2009, 129, 198-204.	0.2	3
132	Essential function for the calcium sensor STIM1 in mast cell activation and anaphylactic responses. Nature Immunology, 2008, 9, 81-88.	14.5	312
133	Representation of an Arbitrary-Radius Wire for FDTD Calculations in the 2-D Cylindrical Coordinate System. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 1014-1018.	2.2	21
134	On the Choice Between Transmission Line Equations and Full-Wave Maxwell's Equations for Transient Analysis of Buried Wires. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 347-357.	2.2	63
135	Modification on a Thin-Wire Representation for FDTD Calculations in Nonsquare Grids. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 427-431.	2.2	14
136	Applications of Electromagnetic Models of the Lightning Return Stroke. IEEE Transactions on Power Delivery, 2008, 23, 800-811.	4.3	55
137	Influence of strike object grounding on close lightning electric fields. Journal of Geophysical Research, 2008, 113, .	3.3	38
138	Electromagnetic models of lightning. , 2008, , .		2
139	An Improved Thin Wire Representation for FDTD Computations. IEEE Transactions on Antennas and Propagation, 2008, 56, 3248-3252.	5.1	59
140	FDTD Analysis of the Current Distribution within the Grounding System for a Wind Turbine Generation Tower Struck by Lightning. IEEE Transactions on Power and Energy, 2008, 128, 1393-1400.	0.2	11
141	IEEE Transactions on Power and Energy, 2008, 128, 785-794.		
142	Numerical Simulations of Lightning Surge Responses in a Seismic Isolated Building by FDTD and EMTP. IEEE Transactions on Power and Energy, 2008, 128, 473-478.	0.2	9
143	Electric fields at the top of tall building associated with nearby lightning return strokes. , 2007, , .		1
144	Electromagnetic models of the lightning return stroke. Journal of Geophysical Research, 2007, 112, .	3.3	82

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145	Lightning strikes to tall objects: Currents inferred from far electromagnetic fields versus directly measured currents. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	41
146	Electromagnetic Fields at the Top of a Tall Building Associated With Nearby Lightning Return Strokes. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2007, 49, 632-643.	2.2	63
147	Influences of the Presence of a Tall Grounded Strike Object and an Upward Connecting Leader on Lightning Currents and Electromagnetic Fields. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2007, 49, 886-892.	2.2	17
148	Measurement of Frequency-Dependent Conductivity and Relative Permittivity of a Soil Using Two Parallel Electrodes. <i>IEEJ Transactions on Power and Energy</i> , 2006, 126, 954-955.	0.2	0
149	Measurement of Transient Horizontal Electric Fields Using Two Vertical Conducting Probes. <i>IEEJ Transactions on Power and Energy</i> , 2006, 126, 1171-1177.	0.2	1
150	FDTD Simulation of a Horizontal Grounding Electrode and Modeling of its Equivalent Circuit. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006, 48, 817-825.	2.2	82
151	Voltages Induced on an Overhead Wire by Lightning Strikes to a Nearby Tall Grounded Object. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006, 48, 212-224.	2.2	125
152	Transmission line model of lightning return strokes generalized to include a tall grounded strike object and an upward connecting leader. , 2006, , .		4
153	Coupling of STIM1 to store-operated Ca ²⁺ entry through its constitutive and inducible movement in the endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16704-16709.	7.1	291
154	Modeling of Thin Wires in a Lossy Medium for FDTD Simulations. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005, 47, 54-60.	2.2	145
155	On the Mechanism of Attenuation of Current Waves Propagating Along a Vertical Perfectly Conducting Wire Above Ground: Application to Lightning. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005, 47, 521-532.	2.2	86
156	On the Interpretation of Ground Reflections Observed in Small-Scale Experiments Simulating Lightning Strikes to Towers. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005, 47, 533-542.	2.2	54
157	Reproduction of Features of Electromagnetic Field Waveforms Associated with Lightning Return Stroke. <i>IEEJ Transactions on Power and Energy</i> , 2005, 125, 544-550.	0.2	2
158	On the use of lumped sources in lightning return stroke models. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	102
159	Lightning electromagnetic environment in the presence of a tall grounded strike object. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	81
160	Evaluation of Parameters of Lossy Medium for Surge Analysis of Grounding Electrodes. <i>IEEJ Transactions on Power and Energy</i> , 2005, 125, 626-627.	0.2	1
161	Numerical Electromagnetic Field Analysis of Unit Step Response Characteristics of Impulse Voltage Measuring Systems. <i>IEEE Transactions on Power Delivery</i> , 2004, 19, 21-27.	4.3	7
162	Reproduction of Lightning Electromagnetic Field Waveforms by Engineering Model of Return Stroke. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2004, 46, 130-133.	2.2	24

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163	Transient Analysis of a Cable With Low-Conducting Layers by a Finite-Difference Time-Domain Method. IEEE Transactions on Electromagnetic Compatibility, 2004, 46, 488-493.	2.2	12
164	Numerical electromagnetic analysis of transient induced voltages associated with lightning to tall structure. Journal of Electrostatics, 2004, 60, 141-147.	1.9	13
165	Numerical electromagnetic analysis of lightning-induced voltage over ground of finite conductivity. IEEE Transactions on Electromagnetic Compatibility, 2003, 45, 651-656.	2.2	57
166	Derivation of a semiconducting layer impedance and its effect on wave propagation characteristics on a cable. IET Generation, Transmission and Distribution, 2003, 150, 434.	1.1	20
167	Characteristics of electromagnetic return-stroke models. IEEE Transactions on Electromagnetic Compatibility, 2003, 45, 129-135.	2.2	53
168	On the transmission line model for lightning return stroke representation. Geophysical Research Letters, 2003, 30, .	4.0	104
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