

Behzad Kordi

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

486
citations

759233

12
h-index

794594

19
g-index

62
all docs

62
docs citations

62
times ranked

382
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of the antenna theory model to a tall tower struck by lightning. Journal of Geophysical Research, 2003, 108, .	3.3	68
2	Towards automated statistical partial discharge source classification using pattern recognition techniques. High Voltage, 2018, 3, 162-169.	4.7	31
3	Classification of simultaneous multiple partial discharge sources based on probabilistic interpretation using a two-step logistic regression algorithm. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 54-65.	2.9	29
4	Electromagnetic transient modeling of grounding electrodes buried in frequency dependent soil with variable water content. Electric Power Systems Research, 2020, 189, 106595.	3.6	23
5	New experimental study on the DC flashover voltage of polymer insulators: combined effect of surface charges and air humidity. High Voltage, 2019, 4, 316-323.	4.7	22
6	Very Fast Transient Analysis of Transformer Winding Using Axial Multiconductor Transmission Line Theory and Finite Element Method. IEEE Transactions on Power Delivery, 2019, 34, 1948-1956.	4.3	20
7	Investigation of Corona Partial Discharge Characteristics Under Variable Frequency and Air Pressure. , 2018, , .		19
8	High frequency response of grounding electrodes: effect of soil dielectric constant. IET Generation, Transmission and Distribution, 2020, 14, 2915-2921.	2.5	19
9	An Electromagnetic Model for the Calculation of Tower Surge Impedance Based on Thin Wire Approximation. IEEE Transactions on Power Delivery, 2021, 36, 1173-1182.	4.3	19
10	Surface charging and its effects on DC flashover strengt of insulating materials. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2452-2460.	2.9	17
11	Calculation of Multiconductor Underground Cables High-Frequency Per-Unit-Length Parameters Using Electromagnetic Modal Analysis. IEEE Transactions on Power Delivery, 2013, 28, 276-284.	4.3	16
12	Deep Learning in High Voltage Engineering: A Literature Review. Energies, 2022, 15, 5005.	3.1	16
13	Passive Wireless Sensor for Measuring AC Electric Field in the Vicinity of High-Voltage Apparatus. IEEE Transactions on Industrial Electronics, 2016, 63, 4432-4441.	7.9	14
14	A Convolutional Neural Network-Based Model for Multi-Source and Single-Source Partial Discharge Pattern Classification Using Only Single-Source Training Set. Energies, 2021, 14, 1355.	3.1	11
15	Time-Domain Distortion Analysis of Wideband Electromagnetic-Field Sensors Using Hermiteâ€œGauss Orthogonal Functions. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 511-521.	2.2	10
16	Computation of ground potential rise and grounding impedance of simple arrangement of electrodes buried in frequency-dependent stratified soil. Electric Power Systems Research, 2021, 198, 107364.	3.6	10
17	Assessment of Power Transformer Paper Ageing Using Wavelet Texture Analysis of Microscopy Images. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1898-1905.	2.9	10
18	Classification of degradation in oil-impregnated cellulose insulation using texture analysis of optical microscopy images. Electric Power Systems Research, 2016, 133, 104-112.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Impulse Generator Optimum Setup for Transient Testing of Transformers Using Frequency-Response Analysis and Genetic Algorithm. IEEE Transactions on Power Delivery, 2015, 30, 1949-1957.	4.3	8
20	Remote assessment of high voltage insulators using wideband electromagnetic radiation signature. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1467-1474.	2.9	8
21	Partial discharge detection and identification at low air pressure in noisy environment. High Voltage, 2021, 6, 850-860.	4.7	8
22	Full-wave black-box transmission line tower model for the assessment of lightning backflashover. Electric Power Systems Research, 2021, 199, 107399.	3.6	7
23	An interpretable CNN model for classification of partial discharge waveforms in 3D-printed dielectric samples with different void sizes. Neural Computing and Applications, 2022, 34, 11739-11750.	5.6	7
24	Parametric Study of Transient Electromagnetic Fields Due to Overhead Transmission Lines and Buried Cables in the Vicinity of Lossy Ground. IEEE Transactions on Power Delivery, 2011, 26, 2287-2298.	4.3	6
25	Sensitivity analysis of a parallel-plate method for measuring the dielectric permittivity of high-voltage insulating materials. High Voltage, 2017, 2, 200-204.	4.7	6
26	Time-Domain Modeling of Transmission Line Crossing Using Electromagnetic Scattering Theory. IEEE Transactions on Power Delivery, 2020, 35, 1020-1027.	4.3	6
27	Lightning overvoltage studies of Siahbishe 400 kV Gas Insulated Substation. , 2014, , .		5
28	Optimization of tower-footing grounding impedance for guyed-V transmission towers. Electric Power Systems Research, 2019, 177, 105947.	3.6	5
29	Time-Domain Coupling Model for Nonparallel Frequency-Dependent Overhead Multiconductor Transmission Lines Above Lossy Ground. IEEE Transactions on Power Delivery, 2022, 37, 2997-3005.	4.3	5
30	Contactless Air-Filled Substrate-Integrated Waveguide (CLAF-SIW) Resonator for Wireless Passive Temperature Sensing. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3724-3731.	4.6	5
31	Full-wave-based transmission-line model for lossy-substrate multiconductor interconnects. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2008, 21, 103-115.	1.9	4
32	A Finite Element Analysis Model for Internal Partial Discharges in an Air-Filled, Cylindrical Cavity inside Solid Dielectric. , 2021, , .		4
33	Buried cable parameter extraction using a full-space unbounded conformal mapping technique. , 2009, , .		3
34	Transient Electromagnetic Fields associated with a power transmission line above a lossy ground. , 2009, , .		3
35	Application of time-domain antenna techniques in electromagnetic field sensors characterization. , 2010, , .		3
36	Generalized Image Reconstruction in Optical Coherence Tomography Using Redundant and Non-Uniformly-Spaced Samples. Sensors, 2021, 21, 7057.	3.8	3

#	ARTICLE	IF	CITATIONS
37	Quasi-Analytical Calculation of Frequency-Dependent Resistance of Rectangular Conductors Considering the Edge Effect. <i>Energies</i> , 2022, 15, 503.	3.1	3
38	Electric field radiation from an overhead transmission line located above a lossy ground. , 2008, , .		2
39	Overvoltage analysis of transmission towers considering the influence of tower-footing impedance. , 2017, , .		2
40	Resonator Substrate-Integrated Waveguide (SIW) Sensor for Measurement of AC Electric Fields. , 2018, , .		2
41	Accelerated frequency-dependent method of characteristics for the simulation of multiconductor transmission lines in the time domain. <i>Electric Power Systems Research</i> , 2019, 168, 55-66.	3.6	2
42	Study of Skin and Proximity Effects of Conductors for MTL-Based Modeling of Power Transformers Using FEM. , 2020, , .		2
43	High-Q Contactless Air-Filled Substrate-Integrated Waveguide (CLAF-SIW) Resonator for Wireless Sensing Applications. , 2021, , .		2
44	Transient Analysis of Grounding Electrodes in Multilayer Soils Using Method of Moments. <i>IEEE Latin America Transactions</i> , 2022, 20, 269-275.	1.6	2
45	Radiated electromagnetic field signature of faulty and polluted porcelain insulators. , 2010, , .		1
46	Wireless pulse echo interrogation of an AC electric potential resonator sensor. , 2015, , .		1
47	Correlation of microscopic textural features and degree of polymerization for thermally deteriorated cellulose insulation. , 2016, , .		1
48	Lightning-Induced Surge in Transmission Towers Calculated Using Full-Wave Electromagnetic Analysis and the Method of Moments. , 2018, , .		1
49	UHF Measurement of Partial Discharge on Stator Bars Using Patch Antennas. , 2019, , .		1
50	Temperature Sensing Using Wireless Passive Contactless Air-Filled Substrate-Integrated Waveguide (CLAF-SIW). , 2021, , .		1
51	Evaluation of Erosion Discharge Characteristics in Inclined Plane Tracking and Erosion Tests on Silicone Rubber under AC and DC Voltages. <i>Energies</i> , 2021, 14, 6051.	3.1	1
52	Modelling Transient Response of Nonuniform Transmission Lines Due to Nearby Lightning Strikes. , 2021, , .		1
53	A Study on AC Resistance Calculation of Single Rectangular Conductors. , 2021, , .		1
54	GPU and CPU-Based Parallel FDTD Methods for Frequency-Dependent Transmission Line Models. <i>IEEE Letters on EMC Practice and Applications</i> , 2022, 4, 66-70.	1.1	1

#	ARTICLE	IF	CITATIONS
55	Integration of an FDTD analysis of lossy multiconductor transmission lines within a general-purpose circuit simulator. , 2004, , .		0
56	A comparison of Electric Field sensors distortion characteristics in the Hermite-Gauss signal subspaces. , 2011, , .		0
57	A macromodel-based algorithm for the calculation of lightning radiated electromagnetic fields and induced voltages in transmission lines. , 2011, , .		0
58	Optimization-enabled EMT modeling for transformer impulse test. , 2016, , .		0
59	Quantification of changes in surface texture of thermally-aged kraft paper using orthogonal wavelets. , 2017, , .		0
60	Time-Domain Modeling of Transmission Line Crossing Using Electromagnetic Scattering Theory. , 2020, , .		0
61	Computation of Surge Voltage in Transmission Tower Located Above Frequency-Dependent Soil. , 2021, , .		0
62	Paper Insulation Ageing Estimation Using Swept-Source Optical Coherence Tomography. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, , 1-1.	2.9	0