

Behzad Kordi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Quasi-Analytical Calculation of Frequency-Dependent Resistance of Rectangular Conductors Considering the Edge Effect. Energies, 2022, 15, 503.	3.1	3
3	Transient Analysis of Grounding Electrodes in Multilayer Soils Using Method of Moments. IEEE Latin America Transactions, 2022, 20, 269-275.	1.6	2
4	Paper Insulation Ageing Estimation Using Swept-Source Optical Coherence Tomography. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, , 1-1.	2.9	0
5	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
6	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
7	GPU and CPU-Based Parallel FDTD Methods for Frequency-Dependent Transmission Line Models. IEEE Letters on EMC Practice and Applications, 2022, 4, 66-70.	1.1	1
8	Deep Learning in High Voltage Engineering: A Literature Review. Energies, 2022, 15, 5005.	3.1	16
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	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
11	Partial discharge detection and identification at low air pressure in noisy environment. High Voltage, 2021, 6, 850-860.	4.7	8
12	Temperature Sensing Using Wireless Passive Contactless Air-Filled Substrate-Integrated Waveguide (CLAF-SIW). , 2021, , .		1
13	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
14	Evaluation of Erosion Discharge Characteristics in Inclined Plane Tracking and Erosion Tests on Silicone Rubber under AC and DC Voltages. Energies, 2021, 14, 6051.	3.1	1
15	Full-wave black-box transmission line tower model for the assessment of lightning backflashover. Electric Power Systems Research, 2021, 199, 107399.	3.6	7
16	Generalized Image Reconstruction in Optical Coherence Tomography Using Redundant and Non-Uniformly-Spaced Samples. Sensors, 2021, 21, 7057.	3.8	3
17	High-Q Contactless Air-Filled Substrate-Integrated Waveguide (CLAF-SIW) Resonator for Wireless Sensing Applications. , 2021, , .		2
18	A Finite Element Analysis Model for Internal Partial Discharges in an Air-Filled, Cylindrical Cavity inside Solid Dielectric. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
19	Modelling Transient Response of Nonuniform Transmission Lines Due to Nearby Lightning Strikes. , 2021, , .		1
20	Computation of Surge Voltage in Transmission Tower Located Above Frequency-Dependent Soil. , 2021, , .		0
21	A Study on AC Resistance Calculation of Single Rectangular Conductors. , 2021, , .		1
22	Time-Domain Modeling of Transmission Line Crossing Using Electromagnetic Scattering Theory. IEEE Transactions on Power Delivery, 2020, 35, 1020-1027.	4.3	6
23	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
24	High frequency response of grounding electrodes: effect of soil dielectric constant. IET Generation, Transmission and Distribution, 2020, 14, 2915-2921.	2.5	19
25	Study of Skin and Proximity Effects of Conductors for MTL-Based Modeling of Power Transformers Using FEM. , 2020, , .		2
26	Time-Domain Modeling of Transmission Line Crossing Using Electromagnetic Scattering Theory. , 2020, , .		0
27	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
28	Optimization of tower-footing grounding impedance for guyed-V transmission towers. Electric Power Systems Research, 2019, 177, 105947.	3.6	5
29	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
30	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
31	UHF Measurement of Partial Discharge on Stator Bars Using Patch Antennas. , 2019, , .		1
32	Accelerated frequency-dependent method of characteristics for the simulation of multiconductor transmission lines in the time domain. Electric Power Systems Research, 2019, 168, 55-66.	3.6	2
33	Lightning-Induced Surge in Transmission Towers Calculated Using Full-Wave Electromagnetic Analysis and the Method of Moments. , 2018, , .		1
34	Investigation of Corona Partial Discharge Characteristics Under Variable Frequency and Air Pressure. , 2018, , .		19
35	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
36	Resonator Substrate-Integrated Waveguide (SIW) Sensor for Measurement of AC Electric Fields. , 2018, , .		2

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37	Towards automated statistical partial discharge source classification using pattern recognition techniques. High Voltage, 2018, 3, 162-169.	4.7	31
38	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
39	Quantification of changes in surface texture of thermally-aged kraft paper using orthogonal wavelets. , 2017, , .		0
40	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
41	Overvoltage analysis of transmission towers considering the influence of tower-footing impedance. , 2017, , .		2
42	Optimization-enabled EMT modeling for transformer impulse test. , 2016, , .		0
43	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
44	Correlation of microscopic textural features and degree of polymerization for thermally deteriorated cellulose insulation. , 2016, , .		1
45	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
46	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
47	Wireless pulse echo interrogation of an AC electric potential resonator sensor. , 2015, , .		1
48	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
49	Lightning overvoltage studies of Siahbishe 400 kV Gas Insulated Substation. , 2014, , .		5
50	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
51	Time-Domain Distortion Analysis of Wideband Electromagnetic-Field Sensors Using Hermite-Gauss Orthogonal Functions. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 511-521.	2.2	10
52	A comparison of Electric Field sensors distortion characteristics in the Hermite-Gauss signal subspaces. , 2011, , .		0
53	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
54	A macromodel-based algorithm for the calculation of lightning radiated electromagnetic fields and induced voltages in transmission lines. , 2011, , .		0

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55	Radiated electromagnetic field signature of faulty and polluted porcelain insulators. , 2010, , .		1
56	Application of time-domain antenna techniques in electromagnetic field sensors characterization. , 2010, , .		3
57	Buried cable parameter extraction using a full-space unbounded conformal mapping technique. , 2009, , .		3
58	Transient Electromagnetic Fields associated with a power transmission line above a lossy ground. , 2009, , .		3
59	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
60	Electric field radiation from an overhead transmission line located above a lossy ground. , 2008, , .		2
61	Integration of an FDTD analysis of lossy multiconductor transmission lines within a general-purpose circuit simulator. , 2004, , .		0
62	Application of the antenna theory model to a tall tower struck by lightning. Journal of Geophysical Research, 2003, 108, .	3.3	68