

Jun Zou

List of Publications by Year in descending order

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61
papers

789
citations

567281

15
h-index

526287

27
g-index

61
all docs

61
docs citations

61
times ranked

448
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective Length of Counterpoise Wire Under Lightning Current. IEEE Transactions on Power Delivery, 2005, 20, 1585-1591.	4.3	94
2	Laboratory investigation of impulse characteristics of transmission tower grounding devices. IEEE Transactions on Power Delivery, 2003, 18, 994-1001.	4.3	63
3	Numerical analysis of transient performance of grounding systems considering soil ionization by coupling moment method with circuit theory. IEEE Transactions on Magnetics, 2005, 41, 1440-1443.	2.1	50
4	Evaluation of the Effective Protection Distance of Low-Voltage SPD to Equipment. IEEE Transactions on Power Delivery, 2005, 20, 123-130.	4.3	49
5	Seasonal influences on safety of substation grounding system. IEEE Transactions on Power Delivery, 2003, 18, 788-795.	4.3	47
6	Analysis of Electric Field, Ion Flow Density, and Corona Loss of Same-Tower Double-Circuit HVDC Lines Using Improved FEM. IEEE Transactions on Power Delivery, 2009, 24, 482-483.	4.3	42
7	Optimal Design of Grounding System Considering the Influence of Seasonal Frozen Soil Layer. IEEE Transactions on Power Delivery, 2005, 20, 107-115.	4.3	36
8	Electric field calculation for HV insulators on the head of transmission tower by coupling CSM with BEM. IEEE Transactions on Magnetics, 2006, 42, 543-546.	2.1	32
9	Decreasing Grounding Resistance of Substation by Deep-Ground-Well Method. IEEE Transactions on Power Delivery, 2005, 20, 738-744.	4.3	30
10	Grounding Resistance Measurement Analysis of Grounding System in Vertical-Layered Soil. IEEE Transactions on Power Delivery, 2004, 19, 1553-1559.	4.3	24
11	Calculation of the ionised field and the corona losses of high-voltage direct current transmission lines using a finite-difference-based flux tracing method. IET Generation, Transmission and Distribution, 2015, 9, 348-357.	2.5	23
12	Design of novel structure current transformer with shielding coils for overcoming the saturation of core. IEEE Transactions on Magnetics, 2006, 42, 1431-1434.	2.1	22
13	Fast Calculation of the Electromagnetic Field by a Vertical Electric Dipole Over a Lossy Ground and Its Application in Evaluating the Lightning Radiation Field in the Frequency Domain. IEEE Transactions on Electromagnetic Compatibility, 2010, 52, 147-154.	2.2	21
14	Transient Simulation Model for a Lightning Protection System Using the Approach of a Coupled Transmission Line Network. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 614-622.	2.2	17
15	Method of local characteristics for calculating electric field and ion current of HVDC transmission lines with transverse wind. IET Generation, Transmission and Distribution, 2017, 11, 1055-1062.	2.5	16
16	Influence of Overhead Transmission Line on Grounding Impedance Measurement of Substation. IEEE Transactions on Power Delivery, 2005, 20, 1219-1225.	4.3	15
17	Lightning transient performance analysis of substation based on complete transmission line model of power network and grounding systems. IEEE Transactions on Magnetics, 2006, 42, 875-878.	2.1	15
18	Iterative Solution of MTL Based on the Spatial Decomposition and the Second-Order FDTD. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	15

#	ARTICLE	IF	CITATIONS
19	Point-Focusing Shear-Horizontal Guided Wave EMAT Optimization Method Using Orthogonal Test Theory. IEEE Sensors Journal, 2020, 20, 6295-6304.	4.7	14
20	An Efficient Algorithm for Calculating the Earth Return Mutual Impedance of Conductors With Asymptotic Extraction Technology. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 416-419.	2.2	13
21	Characteristics of T(0, 1) Guided-Wave Point-Focusing Electromagnetic Acoustic Transducer for Pipe Inspection. IEEE Sensors Journal, 2020, 20, 2895-2903.	4.7	13
22	Parameter Estimation of a Horizontally Multilayered Soil With a Fast Evaluation of the Apparent Resistivity and its Derivatives. IEEE Access, 2020, 8, 52652-52662.	4.2	11
23	An Iterative Flux Tracing Method Without Deutsch Assumption for Ion-Flow Field of AC/DC Hybrid Transmission Lines. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	10
24	Ion-flow field calculation of HVDC overhead lines using a high-order stabilisation technique based on Petrov-Galerkin method. IET Generation, Transmission and Distribution, 2018, 12, 1183-1189.	2.5	10
25	Cognition on the Current-Limiting Effect of Saturated-Core Superconducting Fault Current Limiter. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	9
26	Fast and Highly Accurate Algorithm for Calculating the Earth-Return Impedance of Underground Conductors. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 237-240.	2.2	8
27	Fast Calculation of the Green Function of a Point Current Source in a Horizontal Layered Soil With a New Complex Path and Its Application in Grounding System. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
28	Space-Time Pattern of Ion Flow Under AC/DC Hybrid Overhead Lines and Its Application. IEEE Transactions on Power Delivery, 2018, 33, 2226-2235.	4.3	8
29	Fast Evaluating the Electromagnetic Fields Generated by a Vertical Electric Dipole Over the Lossy Ground Using Sommerfeld Integral Without Truncation. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 977-986.	2.2	7
30	A Hermite Interpolation Model to Accelerate the Calculation of the Horizontal Electric Field of a Lightning Channel Along a Transmission Line. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 124-131.	2.2	7
31	Semianalytical Approach to the Inverse Fourier Transform and Its Application in Evaluating Lightning Horizontal Electric Field. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 477-486.	2.2	6
32	Lightning electromagnetic environments of substation considering soil ionization around grounding systems. , 0, , .		5
33	Efficient Evaluation of the [Z] Matrix With Method of Moment in Grounding Analysis by Using Adaptive Spatial Sampling Approach. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 33-41.	2.2	5
34	Fast calculation and characteristic analysis of array lateral-logging responses. International Journal of Applied Electromagnetics and Mechanics, 2010, 33, 145-151.	0.6	5
35	Calculation of the Impedance of a Rail Track With Earth Return for the High-Speed Railway Signal Circuit Using Finite-Element Method. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
36	Data acquisition in distribution system with the GSM network. , 0, , .		4

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37	A general method for numerical Green's function in arbitrarily layered soils *. Progress in Natural Science: Materials International, 2003, 13, 637-640.	4.4	4
38	Modeling of Scalar Dependencies of Soft Magnetic Material Magnetization for Electrical Machine Finite-Element Simulation. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	4
39	A Novel and General Approach for Solving the Ion-Flow Field Problem by a Regularization Technique. IEEE Transactions on Power Delivery, 2021, 36, 3774-3783.	4.3	4
40	Analysis on method of calculating transformer residual flux by using the integration of port-voltage waveform and its implementation. , 2017, , .		3
41	Adaptive Refinement Method for Solving Ion-Flow Field of HVDC Transmission Line. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	3
42	Electromagnetic interference in control cables of substation caused by short circuit fault. , 0, , .		2
43	Evaluation of the EMP shielding effectiveness for the thin metallic shells. , 2003, , .		2
44	Efficient Evaluation of Earth Return Impedances of Arbitrary Conductor Arrangements With a Horizontally Multilayered Soil. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 266-274.	2.2	2
45	Research on Assisting Clinicians to Operate rTMS Precisely Based on the Coil Magnetic Field Spatial Distribution With Magnetic Resonance Imaging Navigation. Frontiers in Neuroscience, 2019, 13, 858.	2.8	2
46	Novel method in decreasing grounding resistances of urban substations by utilizing peripheral geographical conditions. , 0, , .		1
47	Fast algorithm for inverting structure parameters of the horizontal multi-layer soil*. Progress in Natural Science: Materials International, 2003, 13, 553-556.	4.4	1
48	A two-stage algorithm of adaptive model-based parameter estimation and its application in the fast calculation of Green's function in multi-layer soils *. Progress in Natural Science: Materials International, 2004, 14, 927-933.	4.4	1
49	A Stable and Efficient Hybrid Method by Imposing Kapzov Assumption Explicitly for the Space Charge Problem of the HVDC Transmission Lines. IEEE Transactions on Power Delivery, 2021, 36, 1255-1263.	4.3	1
50	Electromagnetic environment analysis of a software park near transmission lines. , 0, , .		0
51	Time-domain analysis method of lightning transient characteristics of grounding electrode. , 2003, , .		0
52	Shielding Factor Calculation of Mixed Power-lines with The Over-head Transmission Line, Transformer & Cable. , 2006, , .		0
53	Mesh Generation for the Simulation of PPF in PCBs and ICs Analysis. , 0, , .		0
54	An accurate adaptive method for drawing 2-D electric lines of force. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
55	Combined source simulation method - fictitious medium method for solving anisotropic EEG problems. , 2008, , .		0
56	Calculation of Transmission Parameter of the Rectangle Defected Ground Structure Using the Parallel FDTD with the Region Segmentation Scheme. , 2012, , .		0
57	Substation switching electromagnetic transient analysis using the time domain integral equation with a high order implicit scheme. , 2012, , .		0
58	An Efficient and Generalized Algorithm for Calculating the Earth Return Impedance With Pollaczek Integral Using the Moment Technique. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 1342-1345.	2.2	0
59	A simplified approach for calculating the capacitance of single conductor by solving the electrostatic field. , 2016, , .		0
60	Method of improving the measurement accuracy of magnetic material characteristic for open circuit test specimen. , 2017, , .		0
61	Extrapolation of the High Frequency and Late Time Response With Local Linear Basis Functions and Its Application in Evaluating Lightning Electric Field. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2101-2110.	2.2	0