

Jasmin Smajic

List of Publications by Year in descending order

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69
papers

838
citations

567281

15
h-index

552781

26
g-index

70
all docs

70
docs citations

70
times ranked

620
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and optimization of an achromatic photonic crystal bend. Optics Express, 2003, 11, 1378.	3.4	80
2	Comparison of Numerical Methods for the Analysis of Plasmonic Structures. Journal of Computational and Theoretical Nanoscience, 2009, 6, 763-774.	0.4	62
3	Simulation and Measurement of Lightning-Impulse Voltage Distributions Over Transformer Windings. IEEE Transactions on Magnetics, 2014, 50, 553-556.	2.1	55
4	On the design of photonic crystal multiplexers. Optics Express, 2003, 11, 566.	3.4	54
5	Numerical Computation of Ohmic and Eddy-Current Winding Losses of Converter Transformers Including Higher Harmonics of Load Current. IEEE Transactions on Magnetics, 2012, 48, 827-830.	2.1	49
6	Transformer Windingsâ€™ Parameters Calculation and Lightning Impulse Voltage Distribution Simulation. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	41
7	Optimization of photonic crystal structures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 2223.	1.5	40
8	3D Full-Maxwell Simulations of Very Fast Transients in GIS. IEEE Transactions on Magnetics, 2011, 47, 1514-1517.	2.1	40
9	Fast BEM-solution of Laplace problems with H-matrices and ACA. IEEE Transactions on Magnetics, 2006, 42, 627-630.	2.1	31
10	Modeling and Simulations of Ferroresonance by Using BDF/NDF Numerical Methods. IEEE Transactions on Power Delivery, 2015, 30, 342-350.	4.3	25
11	UHF PD signal transmission in GIS: Effects of 90° bends and an L-shaped CIGRE step 1 test section. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1293-1300.	2.9	20
12	Signal delay effects of solid dielectrics on time-of-flight measurements in GIS. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1275-1284.	2.9	18
13	Fast BEM for Eddy-Current Problems Using H-Matrices and Adaptive Cross Approximation. IEEE Transactions on Magnetics, 2007, 43, 1269-1272.	2.1	17
14	Efficient procedures for the optimization of defects in photonic crystal structures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1177.	1.5	15
15	RF PD signal propagation in GIS: Comparing S-parameter measurements with an RF transmission model for a short section of GIS. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1331-1337.	2.9	15
16	Numerical simulation and measurement of common-mode and circulating bearing currents. , 2016, , .		14
17	Niching Evolution Strategies for Simultaneously Finding Global and Pareto Optimal Solutions. IEEE Transactions on Magnetics, 2010, 46, 2743-2746.	2.1	13
18	Coupled Electromagneticâ€™Thermal Effects of Stray Flux: Software Solution for Industrial Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 14-21.	7.9	13

#	ARTICLE	IF	CITATIONS
19	Simulation-Based Design of HF Resonators for Damping Very Fast Transients in GIS. IEEE Transactions on Power Delivery, 2014, 29, 2528-2533.	4.3	13
20	An Improved Model for Circulating Bearing Currents in Inverter-Fed AC Machines. , 2019, , .		13
21	Analysis of Near and Far Stray Magnetic Fields of Dry-Type Transformers: 3-D Simulations Versus Measurements. IEEE Transactions on Magnetics, 2011, 47, 1374-1377.	2.1	12
22	Transient Full Maxwell Computation of Slow Processes. Mathematics in Industry, 2012, , 87-95.	0.3	12
23	Parameter Estimation of Single-Phase Rectifier-Based Loads: Analytical Approach. IEEE Transactions on Power Delivery, 2016, 31, 532-540.	4.3	12
24	Optimization of Shielding Devices for Eddy-Currents Using Multiobjective Optimization Methods. IEEE Transactions on Magnetics, 2009, 45, 1550-1553.	2.1	10
25	Comparison Between BEM and Classical FEM for a 3D Low-Frequency Eddy-Current Analysis. IEEE Transactions on Magnetics, 2010, 46, 2919-2922.	2.1	10
26	Coupled Electromagnetic-Mechanical Dynamic Analysis of Generator Circuit Breakers. IEEE Transactions on Magnetics, 2014, 50, 237-240.	2.1	9
27	Numerical Optimization of Photonic Crystal Structures. Journal of Computational and Theoretical Nanoscience, 2007, 4, 675-685.	0.4	8
28	Software Integrated Solution for Design Optimization of Industrial Devices. IEEE Transactions on Magnetics, 2008, 44, 1122-1125.	2.1	8
29	Eigenvalue analysis of lossy dispersive waveguides. Journal of Modern Optics, 2011, 58, 467-479.	1.3	8
30	Coupled FEM-MMP for Computational Electromagnetics. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
31	BEM-Based Simulations in Engineering Design. , 2007, , 281-352.		8
32	Numerical analysis of a SNOM tip based on a partially cladded optical fiber. Optics Express, 2011, 19, 23140.	3.4	7
33	Requirements for communication infrastructure in smart grids. , 2014, , .		7
34	Numerical Study of the Core Saturation Influence on the Winding Losses of Traction Transformers. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	7
35	Dynamic Short-Circuit Analysis of Synchronous Machines. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	7
36	Computational and Experimental Investigation of Distribution Transformers Under Differential and Common Mode Transient Conditions. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	6

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37	Numerical Analysis of Channel Plasmon Polaritons Enhanced Optical Antennas. Journal of Computational and Theoretical Nanoscience, 2008, 5, 725-734.	0.4	5
38	DG-FEM for Time Domain H- Φ Eddy Current Analysis. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
39	Coupling finite elements and auxiliary sources for Maxwell's equations. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2534.	1.9	5
40	Coupled Electromagnetic and Hydrodynamic Modeling for Semiconductors Using DGTD. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	5
41	Dynamic short-circuit analysis of synchronous machines. , 2016, , .		4
42	H- Φ Field Formulation With Lumped Sources and Unbounded Domains. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	4
43	Coupling finite elements and auxiliary sources for electromagnetic wave propagation. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2752.	1.9	4
44	Stability Analysis of Time Domain Discontinuous Galerkin Φ Method for Eddy Current Simulations. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	4
45	Stationary voltage and current excited complex system of multimaterial conductors with BEM. IEEE Transactions on Magnetics, 2006, 42, 707-710.	2.1	3
46	Coupled electromagnetic-thermal effects of stray flux: Ad-hoc software solution for an industrial environment. , 2008, , .		3
47	Modeling of Frequency Dependent Parameters in Time Domain High Frequency Transformer Simulations. Procedia Engineering, 2017, 202, 251-263.	1.2	3
48	Kelvin probe for surface potential measurements on epoxy insulators for HVDC applications. , 2018, , .		3
49	Treatment of Multiply Connected Domains in Time-Domain Discontinuous Galerkin Φ Eddy Current Analysis. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	3
50	Frequency-Dependent Resistances and Inductances in Time-Domain Transient Simulations of Power Transformers. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	3
51	Improved performance of numerical simulation algorithms for nanoscale electromagnetics. Proceedings of SPIE, 2008, , .	0.8	2
52	Niching evolution strategy finding global and Pareto optimal solutions. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 1514-1523.	0.9	2
53	Field Simulation Approach for Computing the Commutation Angle Error of EC Motors. IEEE Transactions on Industry Applications, 2017, 53, 1942-1947.	4.9	2
54	Multi-objective optimization of shielding devices for eddy-currents using niching evolution strategies. International Journal of Applied Electromagnetics and Mechanics, 2009, 30, 135-149.	0.6	1

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55	Sparse Matrix Operations on Multi-core Architectures. Lecture Notes in Computer Science, 2009, , 41-48.	1.3	1
56	Plasmonic V-Groove Waveguides: Building Blocks for Optical Transistor. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1616-1622.	0.4	1
57	Sparse matrix operations on several multi-core architectures. Journal of Supercomputing, 2011, 57, 132-140.	3.6	1
58	Analytical and Numerical Calculations of Synchronous Motors for Industrial Drives. , 2014, , .		1
59	Field simulation approach for computing the commutation angle error of EC-Motors. , 2016, , .		1
60	Influence of the surface conductivity of a single glass barrier on the breakdown voltage in an air insulated rod plane arrangement. , 2016, , .		1
61	Simulation based design of GIS sensors for PD measurements. , 2016, , .		1
62	Computational and experimental investigation of distribution transformers under differential and common mode transient conditions. , 2016, , .		1
63	EFFICIENT AND ACCURATE BOUNDARY METHODS FOR COMPUTATIONAL OPTICS. Lecture Notes Series, Institute for Mathematical Sciences, 2005, , 57-128.	0.2	1
64	Magneto-Mechanical Optimization of Cross-Sections for $\cos(\theta)$ Accelerator Magnets. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	1
65	Efficient algorithms for the optimization of shielding devices for eddy currents. International Journal of Applied Electromagnetics and Mechanics, 2010, 34, 141-154.	0.6	0
66	Modeling and Simulation Aspects of Transient Electromagnetic-Mechanical Analysis for Industrial Applications. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	0
67	Complex Eigenvalue Analysis of Plasmonic Waveguides. , 2010, , .		0
68	Cache Efficiency and Scalability on Multi-core Architectures. Lecture Notes in Computer Science, 2011, , 88-97.	1.3	0
69	Charge Accumulation on Slightly Conductive Barrier Systems and Its Effect on Breakdown Voltage in an Air Insulated Rod Plane Arrangement. Lecture Notes in Electrical Engineering, 2020, , 1155-1165.	0.4	0