

# 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	Magneto-Mechanical Optimization of Cross-Sections for $\cos(\theta)$ Accelerator Magnets. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	1
2	Coupled Electromagnetic and Hydrodynamic Modeling for Semiconductors Using DGTD. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	5
3	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
4	H- $\Phi$ Field Formulation With Lumped Sources and Unbounded Domains. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	4
5	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
6	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
7	Treatment of Multiply Connected Domains in Time-Domain Discontinuous Galerkin $\Phi$ Eddy Current Analysis. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	3
8	UHF PD signal transmission in GIS: Effects of $90^\circ$ bends and an L-shaped CIGRE step 1 test section. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1293-1300.	2.9	20
9	An Improved Model for Circulating Bearing Currents in Inverter-Fed AC Machines. , 2019, , .		13
10	Frequency-Dependent Resistances and Inductances in Time-Domain Transient Simulations of Power Transformers. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	3
11	Kelvin probe for surface potential measurements on epoxy insulators for HVDC applications. , 2018, , .		3
12	Stability Analysis of Time Domain Discontinuous Galerkin $\Phi$ Method for Eddy Current Simulations. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	4
13	Dynamic Short-Circuit Analysis of Synchronous Machines. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	7
14	DG-FEM for Time Domain H- $\Phi$ Eddy Current Analysis. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
15	Field Simulation Approach for Computing the Commutation Angle Error of EC Motors. IEEE Transactions on Industry Applications, 2017, 53, 1942-1947.	4.9	2
16	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
17	Modeling of Frequency Dependent Parameters in Time Domain High Frequency Transformer Simulations. Procedia Engineering, 2017, 202, 251-263.	1.2	3
18	Field simulation approach for computing the commutation angle error of EC-Motors. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Influence of the surface conductivity of a single glass barrier on the breakdown voltage in an air insulated rod plane arrangement. , 2016, , .		1
20	Simulation based design of GIS sensors for PD measurements. , 2016, , .		1
21	Dynamic short-circuit analysis of synchronous machines. , 2016, , .		4
22	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
23	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
24	Numerical simulation and measurement of common-mode and circulating bearing currents. , 2016, , .		14
25	Computational and experimental investigation of distribution transformers under differential and common mode transient conditions. , 2016, , .		1
26	Modeling and Simulation Aspects of Transient Electromagnetic-Mechanical Analysis for Industrial Applications. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	0
27	Coupled FEM-MMP for Computational Electromagnetics. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
28	Parameter Estimation of Single-Phase Rectifier-Based Loads: Analytical Approach. IEEE Transactions on Power Delivery, 2016, 31, 532-540.	4.3	12
29	Transformer Windingsâ€™ Parameters Calculation and Lightning Impulse Voltage Distribution Simulation. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	41
30	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
31	Modeling and Simulations of Ferroresonance by Using BDF/NDF Numerical Methods. IEEE Transactions on Power Delivery, 2015, 30, 342-350.	4.3	25
32	Analytical and Numerical Calculations of Synchronous Motors for Industrial Drives. , 2014, , .		1
33	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
34	Simulation and Measurement of Lightning-Impulse Voltage Distributions Over Transformer Windings. IEEE Transactions on Magnetics, 2014, 50, 553-556.	2.1	55
35	Coupled Electromagnetic-Mechanical Dynamic Analysis of Generator Circuit Breakers. IEEE Transactions on Magnetics, 2014, 50, 237-240.	2.1	9
36	Requirements for communication infrastructure in smart grids. , 2014, , .		7

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37	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
38	Transient Full Maxwell Computation of Slow Processes. Mathematics in Industry, 2012, , 87-95.	0.3	12
39	Eigenvalue analysis of lossy dispersive waveguides. Journal of Modern Optics, 2011, 58, 467-479.	1.3	8
40	Numerical analysis of a SNOM tip based on a partially cladded optical fiber. Optics Express, 2011, 19, 23140.	3.4	7
41	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
42	3D Full-Maxwell Simulations of Very Fast Transients in GIS. IEEE Transactions on Magnetics, 2011, 47, 1514-1517.	2.1	40
43	Sparse matrix operations on several multi-core architectures. Journal of Supercomputing, 2011, 57, 132-140.	3.6	1
44	Cache Efficiency and Scalability on Multi-core Architectures. Lecture Notes in Computer Science, 2011, , 88-97.	1.3	0
45	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
46	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
47	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
48	Niching Evolution Strategies for Simultaneously Finding Global and Pareto Optimal Solutions. IEEE Transactions on Magnetics, 2010, 46, 2743-2746.	2.1	13
49	Plasmonic V-Groove Waveguides: Building Blocks for Optical Transistor. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1616-1622.	0.4	1
50	Coupled Electromagneticâ€”Thermal Effects of Stray Flux: Software Solution for Industrial Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 14-21.	7.9	13
51	Complex Eigenvalue Analysis of Plasmonic Waveguides. , 2010, , .		0
52	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
53	Optimization of Shielding Devices for Eddy-Currents Using Multiobjective Optimization Methods. IEEE Transactions on Magnetics, 2009, 45, 1550-1553.	2.1	10
54	Comparison of Numerical Methods for the Analysis of Plasmonic Structures. Journal of Computational and Theoretical Nanoscience, 2009, 6, 763-774.	0.4	62

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55	Sparse Matrix Operations on Multi-core Architectures. Lecture Notes in Computer Science, 2009, , 41-48.	1.3	1
56	Software Integrated Solution for Design Optimization of Industrial Devices. IEEE Transactions on Magnetics, 2008, 44, 1122-1125.	2.1	8
57	Coupled electromagnetic-thermal effects of stray flux: Ad-hoc software solution for an industrial environment. , 2008, , .		3
58	Improved performance of numerical simulation algorithms for nanoscale electromagnetics. Proceedings of SPIE, 2008, , .	0.8	2
59	Numerical Analysis of Channel Plasmon Polaritons Enhanced Optical Antennas. Journal of Computational and Theoretical Nanoscience, 2008, 5, 725-734.	0.4	5
60	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
61	Fast BEM for Eddy-Current Problems Using H-Matrices and Adaptive Cross Approximation. IEEE Transactions on Magnetics, 2007, 43, 1269-1272.	2.1	17
62	Numerical Optimization of Photonic Crystal Structures. Journal of Computational and Theoretical Nanoscience, 2007, 4, 675-685.	0.4	8
63	BEM-Based Simulations in Engineering Design. , 2007, , 281-352.		8
64	Stationary voltage and current excited complex system of multimaterial conductors with BEM. IEEE Transactions on Magnetics, 2006, 42, 707-710.	2.1	3
65	Fast BEM-solution of Laplace problems with H-matrices and ACA. IEEE Transactions on Magnetics, 2006, 42, 627-630.	2.1	31
66	EFFICIENT AND ACCURATE BOUNDARY METHODS FOR COMPUTATIONAL OPTICS. Lecture Notes Series, Institute for Mathematical Sciences, 2005, , 57-128.	0.2	1
67	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
68	On the design of photonic crystal multiplexers. Optics Express, 2003, 11, 566.	3.4	54
69	Design and optimization of an achromatic photonic crystal bend. Optics Express, 2003, 11, 1378.	3.4	80