

Gabriela Ciuprina

List of Publications by Year in descending order

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53
papers

476
citations

1163117

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752698

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58
all docs

58
docs citations

58
times ranked

275
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric circuit element boundary conditions in the finite element method for full-wave passive electromagnetic devices. <i>Journal of Mathematics in Industry</i> , 2022, 12, .	1.2	3
2	Effective Modeling of Interconnects with Domain Partitioning and Model Order Reduction. , 2021, , .		0
3	Efficient Model Reduction of Myelinated Compartments as Port-Hamiltonian Systems. <i>Mathematics in Industry</i> , 2021, , 3-12.	0.3	0
4	Electric Circuit Element Boundary Conditions in the Finite Element Method for Full-Wave Frequency Domain Passive Devices. <i>Mathematics in Industry</i> , 2021, , 95-106.	0.3	1
5	Physics-aware macromodels for MEMS switches. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2020, 39, 497-509.	0.9	0
6	5 Complexity reduction of electromagnetic systems. , 2020, , 145-200.		1
7	Multi-Objective QPSO Algorithms to Solve an Electromagnetic Benchmark Problem. , 2020, , .		0
8	Reduced order models of myelinated axonal compartments. <i>Journal of Computational Neuroscience</i> , 2019, 47, 141-166.	1.0	2
9	Simplification by pruning as a model order reduction approach for RF-MEMS switches. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2019, 39, 511-523.	0.9	2
10	QPSO with avoidance behaviour to solve electromagnetic optimization problems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 59, 63-69.	0.6	3
11	Parametric macromodels for the RF behaviour of capacitive switches. , 2018, , .		1
12	Simple hierarchical models of the Transcranial Magnetic Stimulation. , 2017, , .		2
13	Parametric reduced order models in static multiphysics analysis of MEMS switches. , 2017, , .		1
14	PSO algorithms and GPGPU technique for electromagnetic problems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2017, 53, S249-S259.	0.6	5
15	SPSO Parallelization Strategies for Electromagnetic Applications. <i>Studies in Computational Intelligence</i> , 2017, , 75-95.	0.9	1
16	Coupled multiphysics-RF reduced models for MEMS. , 2016, , .		1
17	Extraction of lumped structural parameters from multiphysics field simulations for MEMS switches. , 2016, , .		0
18	Neighborhood Strategies for QPSO Algorithms to Solve Benchmark Electromagnetic Problems. , 2016, , .		9

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19	Mixed Domain Macromodels for RF MEMS Capacitive Switches. Mathematics in Industry, 2016, , 31-39.	0.3	1
20	MEEC Models for RFIC Design Based on Coupled Electric and Magnetic Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 395-408.	2.7	6
21	Extraction of TL-lumped RF macromodels for MEMS switches. , 2015, , .		5
22	Compact TL-RLC-TL model extraction from FW field solution for RF MEMS capacitive switch. , 2015, , .		0
23	An object oriented data structure designed for multiphysics simulations on parallel computers. , 2015, , .		0
24	Parameterized Model Order Reduction. Mathematics in Industry, 2015, , 267-359.	0.3	5
25	Incorporating the Avoidance Behavior to the Standard Particle Swarm Optimization 2011. Advances in Electrical and Computer Engineering, 2015, 15, 51-58.	0.9	6
26	Extraction of effective elastic coefficients from a coupled structural electrostatic simulation of a MEMS switch. , 2014, , .		3
27	Intelligent Particle Swarm Optimization of Superconducting Magnetic Energy Storage devices. , 2014, , .		1
28	Particle Swarm Optimization with social exclusion and its application in electromagnetics. , 2014, , .		2
29	Parametric multiphysics static models for a bridge type MEMS capacitive switch. , 2014, , .		0
30	Impact of problem dimension on the execution time of parallel particle swarm optimization implementation. , 2013, , .		1
31	A multiobjective optimization approach via systematical modification of the desirability function shapes. , 2013, , .		2
32	Effective modeling of HF integrated components with domain partitioning and order reduction. , 2013, , .		0
33	Use of Kaczmarz's method in intelligent-particle swarm optimization. , 2013, , .		1
34	Effective extraction of accurate reduced order models for HF-ICs using multi-CPU architectures. Inverse Problems in Science and Engineering, 2012, 20, 15-27.	1.2	4
35	Electromagnetic models of integrated circuits with coupled magnetic circuits. , 2012, , .		1
36	Vector Fitting Based Adaptive Frequency Sampling for Compact Model Extraction on HPC Systems. IEEE Transactions on Magnetics, 2012, 48, 431-434.	2.1	10

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37	Substrate Modeling Based on Hierarchical Sparse Circuits. Mathematics in Industry, 2012, , 143-152.	0.3	0
38	Domain Partitioning Based Parametric Models for Passive On-Chip Components. Mathematics in Industry, 2010, , 37-44.	0.3	5
39	On the efficient reduction of complete EM based parametric models. , 2009, , .		2
40	Effective Domain Partitioning With Electric and Magnetic Hooks. IEEE Transactions on Magnetics, 2009, 45, 1328-1331.	2.1	7
41	Parametric Models Based on the Adjoint Field Technique for RF Passive Integrated Components. IEEE Transactions on Magnetics, 2008, 44, 1658-1661.	2.1	6
42	Models for Variability of Transmission Line Structures. , 2008, , .		1
43	Models for integrated components coupled with their EM environment. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 820-829.	0.9	19
44	Reduced order models for HF interconnect over lossy semiconductor substrate. , 2007, , .		6
45	Absorbing boundary conditions for compact modeling of on-chip passive structures. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 652-659.	0.9	10
46	Compact modeling and fast simulation of on-chip interconnect lines. IEEE Transactions on Magnetics, 2006, 42, 547-550.	2.1	23
47	High-frequency simulations and compact models compared with measurements for passive on-chip components. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2005, 18, 189-201.	1.9	0
48	Fast Extraction of Static Electric Parameters with Accuracy Control. Mathematics in Industry, 2004, , 248-256.	0.3	10
49	Use of intelligent-particle swarm optimization in electromagnetics. IEEE Transactions on Magnetics, 2002, 38, 1037-1040.	2.1	259
50	Hybrid and concurrent algorithms for nonlinear magnetic field problems. IEEE Transactions on Magnetics, 2000, 36, 1553-1556.	2.1	2
51	Embedded stochastic-deterministic optimization method with accuracy control. IEEE Transactions on Magnetics, 1999, 35, 1702-1705.	2.1	6
52	Adjoint field technique applied in optimal design of a nonlinear inductor. IEEE Transactions on Magnetics, 1998, 34, 2849-2852.	2.1	9
53	Use of stochastic algorithms for distributed architectures in the optimization of electromagnetic devices. IEEE Transactions on Magnetics, 1998, 34, 3000-3003.	2.1	4