Bernard Kapidani

List of Publications by Year
in descending order

19 papers	99 citations	2258059 3 h-index	1372567 10 g-index
19 all docs	19 docs citations	19 times ranked	114 citing authors

#	Article	IF	Citations
1	Tunnel FETs for Ultralow Voltage Digital VLSI Circuits: Part Iâ€"Deviceâ€"Circuit Interaction and Evaluation at Device Level. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 2488-2498.	3.1	58
2	Novel FDTD Technique Over Tetrahedral Grids for Conductive Media. IEEE Transactions on Antennas and Propagation, 2018, 66, 5387-5396.	5.1	8
3	GPU Accelerated Time-Domain Discrete Geometric Approach Method for Maxwellâ€™s Equations on Tetrahedral Grids. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	6
4	The Time-Domain Cell Method Is a Coupling of Two Explicit Discontinuous Galerkin Schemes With Continuous Fluxes. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	4
5	Computation of Relative 1-Cohomology Generators From a 1-Homology Basis for Eddy Currents Boundary Integral Formulations. IEEE Transactions on Magnetics, 2016, 52, 1-6.	2.1	3
6	An Arbitrary-Order Discontinuous Skeletal Method for Solving Electrostatics on General Polyhedral Meshes. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
7	Optimization of RFX-mod2 gap configuration by estimating the magnetic error fields due to the passive structure currents. Fusion Engineering and Design, 2019, 146, 680-683.	1.9	3
8	An arbitrary-order Cell Method with block-diagonal mass-matrices for the time-dependent 2D Maxwell equations. Journal of Computational Physics, 2021, 433, 110184.	3.8	3
9	Treeâ€"cotree decomposition of isogeometric mortared spaces in H(curl) on multi-patch domains. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 114949.	6.6	3
10	Fast Computation of Cuts With Reduced Support by Solving Maximum Circulation Problems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
11	Topoprocessor: An Efficient Computational Topology Toolbox for <italic>h</italic>-Oriented Eddy Current Formulations. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
12	Lean Cohomology Computation for Electromagnetic Modeling. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	2
13	Exploiting Cyclic Symmetry in Stream Function-Based Boundary Integral Formulations. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	2
14	An arbitrary-order discontinuous skeletal method for solving electrostatics on general polyhedral meshes. , 2016, , .		0
15	T-Î© formulation with higher order hierarchical basis functions for non simply connected conductors. , 2016, , .		0
16	Topoprocessor: An efficient computational topology toolbox for h-oriented eddy current formulations. , 2016, , .		0
17	A comparative performance analysis of time-domain formulations for wave propagation problems. , 2016, , .		0
18	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi>T</mml:mi></mml:mrow></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M2"><mml:mrow><mml:mi>Î©</mml:mi></mml:mrow></mml:math> Formulation with Higher-Order Hierarchical Basis Functions for Nonsimply Connected Conductors. Mathematical Problems in Engineering, 2018, 2018, 1-8.	1.1	0

#	Article	IF	Citations
19	Fake Conductivity or Cohomology: Which to Use When Solving Eddy Current Problems With h-Formulations?. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	0