

Nunzio Salerno

List of Publications by Year in descending order

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641
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687363

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82
all docs

82
docs citations

82
times ranked

293
citing authors

#	ARTICLE	IF	CITATIONS
1	A self-adaptive niching genetic algorithm for multimodal optimization of electromagnetic devices. IEEE Transactions on Magnetics, 2006, 42, 1203-1206.	2.1	70
2	Finite element iterative solution of skin effect problems in open boundaries. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1996, 9, 125-143.	1.9	47
3	Iteratively-improved Robin boundary conditions for the finite element solution of scattering problems in unbounded domains. International Journal for Numerical Methods in Engineering, 1998, 42, 601-629.	2.8	45
4	Finite element iterative solution of skin effect problems in open boundaries. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1996, 9, 125-143.	1.9	29
5	FEM analysis of unbounded electromagnetic scattering by the Robin iteration procedure. Electronics Letters, 1996, 32, 1768.	1.0	24
6	An improved solution scheme for open-boundary skin effect problems. IEEE Transactions on Magnetics, 2001, 37, 3474-3477.	2.1	22
7	A theoretical study of charge iteration. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1996, 15, 22-46.	0.9	19
8	Simulated annealing with restarts for the optimization of electromagnetic devices. IEEE Transactions on Magnetics, 2006, 42, 1115-1118.	2.1	17
9	Comparing FEM-BEM and FEM-DBCI for open-boundary electrostatic field problems. EPJ Applied Physics, 2007, 39, 143-148.	0.7	17
10	An Iterative Solution to FEM-BEM Algebraic Systems for Open-Boundary Electrostatic Problems. IEEE Transactions on Magnetics, 2007, 43, 1249-1252.	2.1	17
11	Efficient Solution of Skin-Effect Problems by Means of the GMRES-Accelerated FEM-BEM Method. IEEE Transactions on Magnetics, 2008, 44, 1274-1277.	2.1	16
12	A Parallel Version of the Self-Adaptive Low-High Evaluation Evolutionary-Algorithm for Electromagnetic Device Optimization. IEEE Transactions on Magnetics, 2014, 50, 633-636.	2.1	15
13	A proposal for a universal parameter configuration for genetic algorithm optimization of electromagnetic devices. IEEE Transactions on Magnetics, 2001, 37, 3208-3211.	2.1	14
14	A Non-Standard Family of Boundary Elements for the Hybrid FEM-BEM Method. IEEE Transactions on Magnetics, 2009, 45, 1312-1315.	2.1	14
15	Modeling the Hysteresis Power Losses of the Output Parasitic Capacitance in Super Junction MOSFETs. , 2018, , .		14
16	Improving the accuracy of the integral equation in the hybrid FEM-DBCI method for open boundary electrostatic problems. IEEE Transactions on Magnetics, 2006, 42, 579-582.	2.1	13
17	A GMRES iterative solution of FEM-BEM global systems in skin effect problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 1286-1295.	0.9	13
18	An iterative solution to scattering from cavity-backed apertures in a perfectly conducting wedge. IEEE Transactions on Magnetics, 1998, 34, 2704-2707.	2.1	12

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19	A fast solving strategy for two-dimensional skin effect problems. IEEE Transactions on Magnetics, 2003, 39, 1119-1122.	2.1	12
20	Improved Selection of the Integration Surface in the Hybrid FEM-DBCI Method. IEEE Transactions on Magnetics, 2010, 46, 3357-3360.	2.1	12
21	Axisymmetric unbounded electrical field computation by charge iteration. IEEE Transactions on Magnetics, 1993, 29, 2043-2046.	2.1	10
22	Weakly Pareto Compliant Quality Indicator. Mathematical and Computational Applications, 2017, 22, 25.	1.3	10
23	SALHE-EA: A New Evolutionary Algorithm for Multi-Objective Optimization of Electromagnetic Devices. Studies in Computational Intelligence, 2008, , 37-45.	0.9	10
24	Transient Thermal Analysis of an Eddy-Current Heated Conductor Applying FEM-DBCI. IEEE Transactions on Magnetics, 2013, 49, 1861-1864.	2.1	9
25	A comparison between hybrid methods: FEM-BEM versus FEM-DBCI. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1901-1911.	0.9	9
26	Finite element analysis of unbounded non-linear transient magnetic fields. IEEE Transactions on Magnetics, 1997, 33, 1318-1321.	2.1	8
27	Overrelaxing the charge iteration procedure. IEEE Transactions on Magnetics, 1996, 32, 694-697.	2.1	7
28	Accelerating the Robin iteration procedure by means of GMRES. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1998, 17, 49-54.	0.9	7
29	Effects of parasitic phenomena in half bridge with Super Junction MOSFETs suitable for UAV. , 2019, , .		7
30	Circuit Models of Power MOSFETs Leading the Way of GaN HEMT Modelling – A Review. Energies, 2022, 15, 3415.	3.1	7
31	Convergence analysis of the charge iteration procedure for unbounded electrical fields. IEEE Transactions on Magnetics, 1994, 30, 2873-2876.	2.1	6
32	Treatment of unbounded skin-effect problems in the presence of material inhomogeneities. IEEE Transactions on Magnetics, 1995, 31, 1504-1507.	2.1	6
33	Some considerations about the perfectly matched layer for static fields. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1999, 18, 337-347.	0.9	6
34	A Modified FEM-DBCI Method for Static and Quasi-Static Electromagnetic Field Problems. IEEE Transactions on Magnetics, 2010, 46, 2803-2806.	2.1	6
35	Applying FEM-RBCI to the analysis of plasmons in metallic nanoparticles. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 13-20.	0.6	5
36	GMRES Solution of FEM-BEM Global Systems for Electrostatic Problems Without Voltaged Conductors. IEEE Transactions on Magnetics, 2013, 49, 1701-1704.	2.1	5

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37	Efficient Analysis of Grounding Systems by Means of the Hybrid FEM-DBCI Method. IEEE Transactions on Industry Applications, 2015, 51, 5159-5166.	4.9	5
38	State of the art and emerging solid-state power devices in the perspective of more electric aircraft. , 2018, , .		5
39	The effect of a metal <scp>PGS</scp> on the <i>Q</i> â€‘factor of spiral inductors for <scp>RF</scp> and mmâ€‘wave applications in a 28â€‘nm <scp>CMOS</scp> technology. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22368.	1.2	5
40	Stochastic optimization of an electromagnetic actuator by means of Dirichlet boundary condition iteration. IEEE Transactions on Magnetics, 2000, 36, 1110-1114.	2.1	4
41	Optimization of Hybrid Solar Wind Power Systems. International Journal of Applied Electromagnetics and Mechanics, 2007, 26, 225-231.	0.6	4
42	Solution of skin-effect problems by means of the hybrid SDBCI method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 1935-1949.	0.9	4
43	Eddy Current Computation by the FEM-SDBCI Method. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
44	FEM-DBCI Solution of Open-Boundary Electrostatic Problems in the Presence of Floating Potential Conductors. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
45	Optimization of the shape of an induction heating device in the presence of skin effect in the coils. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 39, 525-531.	0.9	4
46	Placement of the fictitious boundary in the charge iteration procedure for unbounded electrical field problems. IEEE Transactions on Magnetics, 1995, 31, 1392-1395.	2.1	3
47	Shape optimization of the magnetic channel of a superconducting cyclotron. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1998, 17, 123-127.	0.9	3
48	Stochastic Optimization of Magnetic Shields in Induction Heating Applications by Means of the FEM-DBCI Method and the SALHE Evolutionary Algorithm. IEEE Transactions on Magnetics, 2009, 45, 1752-1755.	2.1	3
49	Electromagnetic Scattering Computation by Means of the Hybrid FEM-SRBCI Method. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	3
50	Multi-Objective Optimization of Thin-Film Silicon Solar Cells with Metallic and Dielectric Nanoparticles. Energies, 2017, 10, 53.	3.1	3
51	Modeling of the Power Losses due to Coss in SJ MOSFETs Submitted to ZVS: Identification of the Passive Parameters by a Genetic Algorithm. , 2018, , .		3
52	Development of a SPICE modelling strategy for power devices in GaN technology. , 2021, , .		3
53	A generalization of the charge iteration procedure. IEEE Transactions on Magnetics, 1997, 33, 1204-1207.	2.1	2
54	Computing spatially-periodic electrical fields by charge iteration. IEEE Transactions on Magnetics, 1998, 34, 2501-2504.	2.1	2

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55	Numerical implementations of the FEM-DBCI integral equation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 879-886.	0.9	2
56	Optimization of Plasmon-Enhanced Thin-Film Heterojunction Solar Cells. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
57	The FEM-BCI methods in EMC applications. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2462.	1.9	2
58	Thin Conductor Modelling Combined with a Hybrid Numerical Method to Evaluate the Transferred Potential from Isolated Grounding System. Energies, 2019, 12, 1210.	3.1	2
59	An Optimized Generator of Finite Element Meshes Based on a Neural Network. IEEE Transactions on Magnetics, 2008, 44, 1278-1281.	2.1	1
60	FEM analysis of a naval PLC system. , 2010, , .		1
61	Unbounded electromagnetic field problem solution by means of virtual GMRES. , 2010, , .		1
62	Improving the integral equation in the hybrid FEM-RBCI method for scalar electromagnetic scattering problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1318-1327.	0.9	1
63	Solution of Open-Boundary Problems by Means of the Hybrid FEM-GDBCI Method. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	1
64	Computation of Transferred Potentials from Grounding Grids by Means of Hybrid Methods. , 2018, , .		1
65	Optimization of Frequency Selective Surfaces for the Design of Electromagnetic Mantle Cloaks. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	1
66	Non-Standard Nodal Boundary Elements for FEM-BEM. Studies in Computational Intelligence, 2008, , 47-54.	0.9	1
67	Understanding the Kelvin pin mitigation of the MOSFET turn-on losses by fast-switching and neutralization of the clamp diode. , 2021, , .		1
68	Combining non-linearity and current iterations for the solution of boundless skin-effect problems. IEEE Transactions on Magnetics, 1997, 33, 1291-1294.	2.1	0
69	A predictor-corrector scheme for open boundary problems. IEEE Transactions on Magnetics, 1998, 34, 2573-2576.	2.1	0
70	Thermal analysis of an eddy-current heated piece by means of the FEM-DBCI method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 427-435.	0.9	0
71	Improving the integral equation of the hybrid FEM-RBCI method. , 2011, , .		0
72	Plasmon analysis of systems of metallic nanorings by means of FEM-RBCI. , 2012, , .		0

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73	Solution of unbounded skin effect problems by means of the singular FEM-DBCI method. , 2012, , .		0
74	Solution of open-boundary problems by means of the hybrid FEM-GDBCI method. , 2016, , .		0
75	Optimization of the magnetic shield of a levitation melting device. , 2017, , .		0
76	Reducing Electromagnetic Interferences on Power Planes of High-Speed Circuits by means of a High-Impedance Electromagnetic Surface. , 2019, , .		0
77	The Hybrid FEM-DBCI for the Solution of Open-Boundary Low-Frequency Problems. Mathematics, 2021, 9, 1968.	2.2	0
78	Application of Screening Analysis to the Optimization of an Electromagnetic Induction Heating Device. , 2003, , 213-221.		0
79	Treatment of Non-Homogeneous Regions in Charge Iteration. , 1995, , 209-212.		0
80	Distribution network topology identification based on synchrophasor. AIMS Energy, 2018, 6, 245-260.	1.9	0
81	Development of a Finite Element Code for Non-Destructive Evaluation of Concrete Structures by Means of Ultrasonic Waves. Lecture Notes in Computer Science, 2008, , 555-565.	1.3	0