Brahim Ramdane

List of Publications by Year
in descending order

29 papers	175 citations	1307594 7 h-index	1125743 13 g-index
30 all docs	30 docs citations	30 times ranked	211 citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction Between Electromagnetic Field and CFRP Materials: A New Multiscale Homogenization Approach. IEEE Transactions on Magnetics, 2010, 46, 3277-3280.	2.1	46
2	3-D Modeling of Thermo Inductive Non Destructive Testing Method Applied to Multilayer Composite. IEEE Transactions on Magnetics, 2013, 49, 1949-1952.	2.1	22
3	3-D Numerical Modeling of AC Losses in Multifilamentary MgB$_2$Wires. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	18
4	Modeling of 'quench' or the occurrence and propagation of dissipative zones in REBCO high temperature superconducting coils. Superconductor Science and Technology, 2019, 32, 094001.	3.5	15
5	Computational Performances of Natural Element and Finite Element Methods. IEEE Transactions on Magnetics, 2014, 50, 405-408.	2.1	13
6	Non Linear Homogenization for Calculation of Electromagnetic Properties of Soft Magnetic Composite Materials. IEEE Transactions on Magnetics, 2009, 45, 4317-4320.	2.1	12
7	3-D Numerical Modeling of the Thermo-Inductive Technique Using Shell Elements. IEEE Transactions on Magnetics, 2010, 46, 3037-3040.	2.1	10
8	Natural Element Method Applied to Electromagnetic Problems. IEEE Transactions on Magnetics, 2013, 49, 1713-1716.	2.1	7
9	Numerical Impact of Using Different E –J Relationships for 3-D Simulations of AC Losses in MgB2Superconducting Wires. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	7
10	Computations of Source for Non-Meshed Coils With A–${V}$ Formulation Using Edge Elements. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
11	Periodic Boundary Conditions in the Natural Element Method. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
12	Vector Interpolation on Natural Element Method. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
13	Hybrid Natural Element Method-Boundary Element Method for Unbounded Problems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	3
14	Thermo inductive nondestructive testing method applied to CFRP. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 33, 167-180.	0.9	2
15	Electromagnetic Scattering Analysis of Arbitrary Structures by the Natural Element Method Coupled With Absorbing Boundary Condition. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
16	2D and 3D homogenization of laminated cores in the frequency domain. EPJ Applied Physics, 2013, 64, 24517.	0.7	1
17	Direct computation of current density to solve 3D electric conduction problems using facet elements with FEM. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 400-417.	1.9	1
18	The natural element method applied to solve an electrical machine problem. , 2016, , .		1

#	Article	IF	Citations
19	The electrical machine problem solved by a mixed finite and natural element method. , 2017, , .		1
20	A Highly Efficient Post-Processing Method for Computing Magnetic Flux in Coils Considering Magnetic and Conductive Regions. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
21	Higher Order NEM and FEM Accuracy Comparison. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0
22	Vector interpolation on natural element method: Mesh sensitivity analysis. , 2016, , .		0
23	Numerical integration on natural element method: Comparative analyses of different approaches. , 2016, , .		0
24	3D modeling of the movement of machine using mortar method for edge finite elements of magnetic vector potential formulation. , 2016, , .		0
25	Hybrid natural element â€" Boundary element method applied to solve electromagnetic scattering problem. , 2016, , .		0
26	Numerical model for quench calculations in a 10 kA MgB_2 superconducting cable. , 2016, , .		0
27	Application of Mixed Finite Element and Natural Element Method in anti-periodic electromagnetic devices1. International Journal of Applied Electromagnetics and Mechanics, 2018, 57, 115-124.	0.6	0
28	Capacitance Computation of Multi-Turn Windings via Elementary Neighbor-Conductor Models. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2021, 6, 125-131.	2.2	0
29	Thermal and Electromagnetic Coupling. , 0, , 1-38.		0