

Laurent Bernard

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

27
papers

334
citations

9
h-index

18
g-index

30
ext. papers

427
ext. citations

2.1
avg, IF

3.34
L-index

#	Paper	IF	Citations
27	Thermal Model With Winding Homogenization and FIT Discretization for Stator Slot. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4822-4826	2	64
26	Evaluation of Electromagnetic Fields in Human Body Exposed to Wireless Inductive Charging System. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1037-1040	2	44
25	Effect of Stress on Magnetic Hysteresis Losses in a Switched Reluctance Motor: Application to Stator and Rotor Shrink Fitting. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-13	2	37
24	Advanced Modeling of a 2-kW Series Series Resonating Inductive Charger for Real Electric Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 421-430	6.8	29
23	Effect of Stress on Switched Reluctance Motors: A Magneto-Elastic Finite-Element Approach Based on Multiscale Constitutive Laws. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2171-2178	2	27
22	Inductive Charger for Electric Vehicle: Advanced Modeling and Interoperability Analysis. <i>IEEE Transactions on Power Electronics</i> , 2016 , 1-1	7.2	24
21	3D modeling of forces between magnet and HTS in a levitation system using new approach of the control volume method based on an unstructured grid. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 475, 32-37	1.3	16
20	Numerical study of the relation between the thermal effect and the stability of the levitation system excited by an external source. <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 487, 1-10	1.3	15
19	Efficient Implementation of the UPML in the Generalized Finite-Difference Time-Domain Method. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3492-3495	2	10
18	Reduction of Power Transformer Core Noise Generation Due to Magnetostriction-Induced Deformations Using Fully Coupled Finite-Element Modeling Optimization Procedures. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-11	2	9
17	Multiscale approaches for magneto-elasticity in device simulation. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 487, 165241	2.8	9
16	Homogenized Magnetoelastic Behavior Model for the Computation of Strain Due to Magnetostriction in Transformers. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-12	2	8
15	Magnetic Hysteresis Under Compressive Stress: A Multiscale-Jiles-Atherton Approach. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	7
14	Three-Dimensional Generalized Finite-Difference Modeling of Electromagnetic Time Reversal: Impact of the Density of Dipoles for the Localization of a Dielectric Obstacle in Free Space. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 359-362	2	6
13	Wideband Electromagnetic Time Reversal With Finite Integration Technique: Localization in Heterogeneous Media and Experimental Validation. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 137-140	2	5
12	Electromagnetic model of EV wireless charging systems in view of energy transfer and radiated field control. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014 , 46, 355-360	0.4	5
11	Generalized finite difference scheme using mainly orthogonal and locally barycentric dual mesh for electromagnetic problems. <i>EPJ Applied Physics</i> , 2010 , 52, 23307	1.1	4

10	Electromagnetic fields in body by wireless inductive system. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2015 , 34, 590-595	0.7	3
9	3-D Modeling of Thin Sheets in the Discontinuous Galerkin Method for Transient Scattering Analysis. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 493-496	2	3
8	Analysis of the Magneto-Mechanical Anisotropy of Steel Sheets in Electrical Applications. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	3
7	Modified-SST for Uniaxial Characterization of Electrical Steel Sheets Under Controlled Induced Voltage and Constant Stress. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 9756-9765	5.2	2
6	Modeling of Magnetic-Induced Deformation Using Computer Code Chaining and Source-Tensor Projection. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	1
5	EMC analysis of MRI environment in view of optimized performance and cost of image-guided interventions. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2016 , 51, S67-S74	0.4	1
4	Multiscale Modeling of Magnetic Materials 2020 ,		1
3	Modeling of Magnetic Field Perturbations on the Balance Spring of a Mechanical Watch. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	
2	Localization of metal targets by time reversal of electromagnetic waves. <i>EPJ Applied Physics</i> , 2013 , 64, 24512	1.1	
1	Optimization of a probe for the spectroscopic electrical characterization of biological tissues. <i>EPJ Applied Physics</i> , 2007 , 39, 171-174	1.1	