

Laurent Bernard

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

495
citations

759055

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30
all docs

30
docs citations

30
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Model With Winding Homogenization and FIT Discretization for Stator Slot. IEEE Transactions on Magnetics, 2011, 47, 4822-4826.	1.2	96
2	Evaluation of Electromagnetic Fields in Human Body Exposed to Wireless Inductive Charging System. IEEE Transactions on Magnetics, 2014, 50, 1037-1040.	1.2	66
3	Effect of Stress on Magnetic Hysteresis Losses in a Switched Reluctance Motor: Application to Stator and Rotor Shrink Fitting. IEEE Transactions on Magnetics, 2015, 51, 1-13.	1.2	52
4	Advanced Modeling of a 2-kW Series-Resonating Inductive Charger for Real Electric Vehicle. IEEE Transactions on Vehicular Technology, 2015, 64, 421-430.	3.9	50
5	Effect of Stress on Switched Reluctance Motors: A Magneto-Elastic Finite-Element Approach Based on Multiscale Constitutive Laws. IEEE Transactions on Magnetics, 2011, 47, 2171-2178.	1.2	33
6	Inductive Charger for Electric Vehicle: Advanced Modeling and Interoperability Analysis. IEEE Transactions on Power Electronics, 2016, , 1-1.	5.4	33
7	Numerical study of the relation between the thermal effect and the stability of the levitation system excited by an external source. Physica C: Superconductivity and Its Applications, 2013, 487, 1-10.	0.6	22
8	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. Physica C: Superconductivity and Its Applications, 2012, 475, 32-37.	0.6	20
9	Multiscale approaches for magneto-elasticity in device simulation. Journal of Magnetism and Magnetic Materials, 2019, 487, 165241.	1.0	15
10	Efficient Implementation of the UPML in the Generalized Finite-Difference Time-Domain Method. IEEE Transactions on Magnetics, 2010, 46, 3492-3495.	1.2	14
11	Homogenized Magnetoelastic Behavior Model for the Computation of Strain Due to Magnetostriction in Transformers. IEEE Transactions on Magnetics, 2016, 52, 1-12.	1.2	14
12	Reduction of Power Transformer Core Noise Generation Due to Magnetostriction-Induced Deformations Using Fully Coupled Finite-Element Modeling Optimization Procedures. IEEE Transactions on Magnetics, 2017, 53, 1-11.	1.2	13
13	Magnetic Hysteresis Under Compressive Stress: A Multiscale-Jiles-Atherton Approach. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	11
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. IEEE Transactions on Magnetics, 2012, 48, 359-362.	1.2	8
15	EMC analysis of MRI environment in view of optimized performance and cost of image-guided interventions. International Journal of Applied Electromagnetics and Mechanics, 2016, 51, S67-S74.	0.3	7
16	Modified-SST for Uniaxial Characterization of Electrical Steel Sheets Under Controlled Induced Voltage and Constant Stress. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9756-9765.	2.4	7
17	Wideband Electromagnetic Time Reversal With Finite Integration Technique: Localization in Heterogeneous Media and Experimental Validation. IEEE Transactions on Magnetics, 2014, 50, 137-140.	1.2	6
18	Electromagnetic model of EV wireless charging systems in view of energy transfer and radiated field control. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 355-360.	0.3	6

#	ARTICLE	IF	CITATIONS
19	Analysis of the Magneto-Mechanical Anisotropy of Steel Sheets in Electrical Applications. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	5
20	Generalized finite difference scheme using mainly orthogonal and locally barycentric dual mesh for electromagnetic problems. EPJ Applied Physics, 2010, 52, 23307.	0.3	4
21	3-D Modeling of Thin Sheets in the Discontinuous Galerkin Method for Transient Scattering Analysis. IEEE Transactions on Magnetics, 2014, 50, 493-496.	1.2	4
22	Electromagnetic fields in body by wireless inductive system. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 590-595.	0.5	3
23	Magneto-mechanical analysis of an axially laminated synchronous reluctance machine. , 2016, , .		2
24	Modeling of Magnetic-Induced Deformation Using Computer Code Chaining and Source-Tensor Projection. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	2
25	Localization of metal targets by time reversal of electromagnetic waves. EPJ Applied Physics, 2013, 64, 24512.	0.3	1
26	Multiscale Modeling of Magnetic Materials. , 2020, , .		1
27	Numerical Formulations to Compute Induced Electromagnetic in the Human Body. , 0, , .		0
28	Optimization of a probe for the spectroscopic electrical characterization of biological tissues. EPJ Applied Physics, 2007, 39, 171-174.	0.3	0
29	Modeling of magnetic induced deformation using computer code chaining and source tensor projection. , 2016, , .		0
30	Modeling of Magnetic Field Perturbations on the Balance Spring of a Mechanical Watch. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	0