

# Laurent Bernard

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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	Modified-SST for Uniaxial Characterization of Electrical Steel Sheets Under Controlled Induced Voltage and Constant Stress. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 9756-9765	5.2	2
26	Magnetic Hysteresis Under Compressive Stress: A Multiscale-Jiles-Atherton Approach. <i>IEEE Transactions on Magnetics</i> , <b>2020</b> , 56, 1-4	2	7
25	Analysis of the Magneto-Mechanical Anisotropy of Steel Sheets in Electrical Applications. <i>IEEE Transactions on Magnetics</i> , <b>2020</b> , 56, 1-4	2	3
24	Multiscale Modeling of Magnetic Materials <b>2020</b> ,		1
23	Multiscale approaches for magneto-elasticity in device simulation. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 487, 165241	2.8	9
22	Modeling of Magnetic-Induced Deformation Using Computer Code Chaining and Source-Tensor Projection. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	1
21	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> , <b>2017</b> , 53, 1-11	2	9
20	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> , <b>2016</b> , 51, S67-S74	0.4	1
19	Inductive Charger for Electric Vehicle: Advanced Modeling and Interoperability Analysis. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 1-1	7.2	24
18	Homogenized Magnetoelastic Behavior Model for the Computation of Strain Due to Magnetostriction in Transformers. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-12	2	8
17	Modeling of Magnetic Field Perturbations on the Balance Spring of a Mechanical Watch. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	
16	Electromagnetic fields in body by wireless inductive system. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2015</b> , 34, 590-595	0.7	3
15	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> , <b>2015</b> , 51, 1-13	2	37
14	Advanced Modeling of a 2-kW Series-Resonating Inductive Charger for Real Electric Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 421-430	6.8	29
13	Wideband Electromagnetic Time Reversal With Finite Integration Technique: Localization in Heterogeneous Media and Experimental Validation. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 137-140	2	5
12	3-D Modeling of Thin Sheets in the Discontinuous Galerkin Method for Transient Scattering Analysis. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 493-496	2	3
11	Evaluation of Electromagnetic Fields in Human Body Exposed to Wireless Inductive Charging System. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1037-1040	2	44

10	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> , <b>2014</b> , 46, 355-360	0.4	5
9	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> , <b>2013</b> , 487, 1-10	1.3	15
8	Localization of metal targets by time reversal of electromagnetic waves. <i>EPJ Applied Physics</i> , <b>2013</b> , 64, 24512	1.1	
7	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> , <b>2012</b> , 475, 32-37	1.3	16
6	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> , <b>2012</b> , 48, 359-362	2	6
5	Effect of Stress on Switched Reluctance Motors: A Magneto-Elastic Finite-Element Approach Based on Multiscale Constitutive Laws. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 2171-2178	2	27
4	Thermal Model With Winding Homogenization and FIT Discretization for Stator Slot. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 4822-4826	2	64
3	Generalized finite difference scheme using mainly orthogonal and locally barycentric dual mesh for electromagnetic problems. <i>EPJ Applied Physics</i> , <b>2010</b> , 52, 23307	1.1	4
2	Efficient Implementation of the UPML in the Generalized Finite-Difference Time-Domain Method. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 3492-3495	2	10
1	Optimization of a probe for the spectroscopic electrical characterization of biological tissues. <i>EPJ Applied Physics</i> , <b>2007</b> , 39, 171-174	1.1	