Xavier Mininger

List of Publications by Year
in descending order

30 papers	**462** citations	**13** h-index	**21** g-index
30 all docs	**30** docs citations	**30** times ranked	**404** citing authors

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#	Article	IF	Citations
1	Thermal Model With Winding Homogenization and FIT Discretization for Stator Slot. IEEE Transactions on Magnetics, 2011, 47, 4822-4826.	2.1	96
2	Finite Element Modeling of Magnetoelectric Sensors. IEEE Transactions on Magnetics, 2008, 44, 834-837.	2.1	36
3	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.	2.1	33
4	Piezoelectric Actuator Design and Placement for Switched Reluctance Motors Active Damping. IEEE Transactions on Energy Conversion, 2009, 24, 305-313.	5.2	28
5	Semiactive and Active Piezoelectric Vibration Controls for Switched Reluctance Machine. IEEE Transactions on Energy Conversion, 2008, 23, 78-85.	5.2	25
6	Influence of thermomagnetic convection and ferrofluid thermophysical properties on heat transfers in a cylindrical container heated by a solenoid. Journal of Magnetism and Magnetic Materials, 2019, 469, 52-63.	2.3	25
7	Vibration Reduction Control of Switched Reluctance Machine. IEEE Transactions on Energy Conversion, 2019, 34, 1380-1390.	5.2	21
8	Evaluation of axial SRM for electric vehicle application. Electric Power Systems Research, 2017, 148, 155-161.	3.6	18
9	Modeling of Magnetoelastic and Piezoelectric Coupling: Application to SRM Noise Damping. IEEE Transactions on Magnetics, 2009, 45, 1218-1221.	2.1	17
10	Impact of command parameters on efficiency, torque ripple and vibrations for Switched Reluctance motor. , 2012, , .		15
11	Geometrical optimization of SRM on operating mode for automotive application. Electrical Engineering, 2018, 100, 303-310.	2.0	15
12	Influence of Mechanical Boundary Conditions on Magnetoelectric Sensors. IEEE Transactions on Magnetics, 2013, 49, 2009-2012.	2.1	14
13	Homogenized Magnetoelastic Behavior Model for the Computation of Strain Due to Magnetostriction in Transformers. IEEE Transactions on Magnetics, 2016, 52, 1-12.	2.1	14
14	Compromise between magnetic shielding and mechanical strength of thin Al/Steel/Al sandwiches produced by cold roll bonding: Experimental and numerical approaches. Journal of Alloys and Compounds, 2019, 798, 67-81.	5.5	14
15	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.	2.1	13
16	Finite Element Harmonic Modeling of Magnetoelectric Effect. IEEE Transactions on Magnetics, 2011, 47, 1142-1145.	2.1	12
17	Vibration Reduction Controller for a Switched Reluctance Machine Based on HW/SW Partitioning. IEEE Transactions on Industrial Informatics, 2021, 17, 3879-3889.	11.3	11
18	A New Control Method for Vibration and Noise Suppression in Switched Reluctance Machines. Energies, 2019, 12, 1554.	3.1	9

#	Article	IF	Citations
19	Impact of Magnets on Ferrofluid Cooling Process: Experimental and Numerical Approaches. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	8
20	Improvement of the variable turn-off angle control for SRM regarding vibration reduction. , 2017, , .		7
21	Study of Magnetoconvection Impact on a Coil Cooling by Ferrofluid with a Spectral/Finite-Element Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	7
22	Numerical Study of Cooling by Ferrofluids in an Electrical Transformer Using an Axisymmetric Model. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	6
23	A new vibration reduction control strategy of switched reluctance machine. , 2017, , .		5
24	Magnetic shielding of a thin Al/steel/Al composite. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 595-609.	0.9	5
25	Experimental evidence that a high electric field acts as an efficient external parameter during crystalline growth of bulk oxide. Journal of Crystal Growth, 2015, 409, 23-26.	1.5	3
26	Design of a Lightweight Multilayered Composite for DC to 20 GHz Electromagnetic Shielding. Electronics (Switzerland), 2021, 10, 3144.	3.1	3
27	Modeling of Magnetic-Induced Deformation Using Computer Code Chaining and Source-Tensor Projection. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
28	The Role of the Out of Plane Component of E and H in 2D Computation of Extrinsic Magneto-Electric Problem Using E-H Formulation. IEEE Transactions on Magnetics, 2012, 48, 555-558.	2.1	0
29	Modeling of Magnetic Field Perturbations on the Balance Spring of a Mechanical Watch. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	0
30	Modeling of magneto-electric sensor using finite element method. European Journal of Electrical Engineering, 2012, 15, 273-287.	0.3	0