Yvan Lefevre

List of Publications by Year in descending order

49 papers	518 citations	840776 11 h-index	713466 21 g-index
51 all docs	51 docs citations	51 times ranked	278 citing authors

#	Article	IF	Citations
1	3-D Hybrid Model of the Axial-Flux Motor Accounting Magnet Shape. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	2
2	Multidisciplinary Design Optimization of the Actuation System of a Hybrid Electric Aircraft Powertrain. Electronics (Switzerland), 2021, 10, 1297.	3.1	7
3	Model of an Ironless Axial Flux Permanent Magnet Motor Based on the Field Produced by a Single Magnet. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	2
4	Performance assessment tool based on loadability concepts. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 687-694.	0.6	5
5	3D Magnetic Field Model of a Permanent Magnet Ironless Axial Flux Motor with Additively Manufactured Non-Active Parts. , 2019, , .		4
6	Magnetic Field Continuity Conditions in Finite-Element Analysis. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	11
7	Joint Design of Halbach Segmented Array and Distributed Stator Winding. , 2018, , .		2
8	Hybrid Modeling Method of Magnetic Field of Axial Flux Permanent Magnet Machine. , 2018, , .		7
9	Measurement of magnetic hysteresis swelling-up with frequency: Impact on iron losses in electric machine sheets. , 2017, , .		1
10	Experimental Study of Iron Losses Generated by a Uniform Rotating Field. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	1
11	Modeling quasi-static magnetic hysteresis: A new implementation of the play model based on experimental asymmetrical B(H) loops. , 2016, , .		5
12	Transformation by rewinding a stator of a three phase induction machine with squirrel cage to a five-phase induction machine. , 2016, , .		0
13	Synchronous motor winding segmentation for parallel interleaved inverters. , 2016, , .		1
14	Electric Vector Potential Formulation to Model a Magnetohydrodynamic Inertial Actuator. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	1
15	A tool to help to design windings of permanent magnet synchronous machines. , 2014, , .		1
16	Analytical calculation of equivalent circuit parameters accounting for deep bar effect in multiple-cage squirrel cage rotor. , 2014, , .		3
17	Optimization of the Settings of Multiphase Induction Heating System. IEEE Transactions on Industry Applications, 2013, 49, 2444-2450.	4.9	26
18	First Approach for the Modelling of the Electric Field Surrounding a Piezoelectric Transformer in View of Plasma Generation. IEEE Transactions on Magnetics, 2012, 48, 423-426.	2.1	8

#	Article	IF	Citations
19	Analytical modeling of electrical potential repartition on piezoelectric transformer. , 2010, , .		4
20	Theoretical considerations in numerical analysis in view of modeling a pulsatile magnetoactive pump for medical circulatory support. , 2010, , .		0
21	Some Co-Axial Magnetic Couplings Designed Using an Analytical Model and an Exact Global Optimization Code. IEEE Transactions on Magnetics, 2009, 45, 1458-1461.	2.1	23
22	Strong formulation using FDS, weak formulation using FEM and experimental data. , 2008, , .		1
23	Educational bench: self-controlled synchronous machine. , 2008, , .		0
24	Design of Electrical Rotating Machines by Associating Deterministic Global Optimization Algorithm With Combinatorial Analytical and Numerical Models. IEEE Transactions on Magnetics, 2007, 43, 3411-3419.	2.1	11
25	Building a CAD system for educational purpose based only on a mesh tool and a finite elements solver. IEEE Transactions on Magnetics, 2006, 42, 1483-1486.	2.1	6
26	3D electromagnetic simulation of a claw-pole generator. , 2006, , .		2
27	Analysis of the effect of inter-bar currents on the performance of polyphase cage-induction motors. IEEE Transactions on Industry Applications, 2003, 39, 1674-1680.	4.9	19
28	The effect of the stator-slot opening on the interbar currents of skewed cage induction motor. IEEE Transactions on Magnetics, 2002, 38, 1285-1288.	2.1	23
29	Integration of control loops in coupled field circuit model to study magnetic devices supplied by power electronic converter and their control. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2002, 21, 563-572.	0.9	2
30	Modeling and experimental characterization of saturation effect of an induction machine. EPJ Applied Physics, 2000, 10, 123-130.	0.7	1
31	Modeling the movement of electrostatic motors in a 3D finite element code. IEEE Transactions on Magnetics, 2000, 36, 722-727.	2.1	9
32	An original and natural method of coupling electromagnetic field equations with circuit equations put in a state form. IEEE Transactions on Magnetics, 1998, 34, 2489-2492.	2.1	4
33	Establishment of a two-phase non-linear simulation model of the dynamic operation of the induction machine. EPJ Applied Physics, 1998, 1, 57-66.	0.7	4
34	Une méthode générale pour modéliser les convertisseurs statiques associés à des dispositifs magnétiques. Journal De Physique III, 1997, 7, 2225-2237.	0.3	4
35	Finite elements coupled to electrical circuit equations in the simulation of switched reluctance drives: attention to mechanical behaviour. IEEE Transactions on Magnetics, 1996, 32, 1086-1089.	2.1	27
36	A 2D finite element formulation for the study of the high frequency behaviour of wound components. IEEE Transactions on Magnetics, 1996, 32, 1098-1101.	2.1	10

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37	FIRST STEPS TOWARDS A FULL INTEGRATED CAD SYSTEM FOR ELECTRICAL MACHINES. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1995, 14, 151-155.	0.9	2
38	Synthesis and modelling of an electrostatic induction motor. IEEE Transactions on Magnetics, 1995, 31, 1404-1407.	2.1	7
39	Theoretical and experimental studies of the effects of the feeding currents on the vibrations of magnetic origin of permanent magnet machines. IEEE Transactions on Magnetics, 1995, 31, 1837-1842.	2.1	5
40	Electro-magneto-mechanical characterizations of the vibration of magnetic origin of electrical machines. IEEE Transactions on Magnetics, 1995, 31, 1892-1895.	2.1	21
41	First steps towards design, simulation, modelling and fabrication of electrostatic micromotors. Sensors and Actuators A: Physical, 1995, 47, 645-648.	4.1	10
42	MÃ©thode de mesure des frÃ©quences propres et des coefficients d'amortissement d'une machine synchrone a aimants permanents. Journal De Physique III, 1994, 4, 1431-1447.	0.3	2
43	Finite element simulation of electrical motors fed by current inverters. IEEE Transactions on Magnetics, 1993, 29, 1683-1688.	2.1	32
44	Compensation of permanent magnet motors torque ripple by means of current supply waveshapes control determined by finite element method. IEEE Transactions on Magnetics, 1993, 29, 2019-2023.	2.1	41
45	CALCULATION OF TRANSIENT ELECTROMAGNETIC FORCES IN AN AXISYMMETRICAL ELECTROMAGNET WITH CONDUCTIVE SOLID PARTS. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1992, 11, 173-176.	0.9	4
46	Finite element torque calculation in electrical machines while considering the movement. IEEE Transactions on Magnetics, 1992, 28, 1410-1413.	2.1	121
47	Sur le calcul des forces magnÃ©tiques. Journal De Physique III, 1992, 2, 859-870.	0.3	14
48	Determination of synchronous motor vibrations due to electromagnetic force harmonics. IEEE Transactions on Magnetics, 1989, 25, 2974-2976.	2.1	22
49	Analysis of the effect of inter-bar currents on the performance of polyphase cage-induction motors. , 0, , .		0