

Dubas Frédéric

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical Solution of the Magnetic Field in Permanent-Magnet Motors Taking Into Account Slotting Effect: No-Load Vector Potential and Flux Density Calculation. IEEE Transactions on Magnetics, 2009, 45, 2097-2109.	2.1	179
2	Two-Dimensional Analytical Permanent-Magnet Eddy-Current Loss Calculations in Slotless PMSM Equipped With Surface-Inset Magnets. IEEE Transactions on Magnetics, 2014, 50, 54-73.	2.1	82
3	Nonlinear Analytical Prediction of Magnetic Field and Electromagnetic Performances in Switched Reluctance Machines. IEEE Transactions on Magnetics, 2017, 53, 1-11.	2.1	69
4	New Subdomain Technique for Electromagnetic Performances Calculation in Radial-Flux Electrical Machines Considering Finite Soft-Magnetic Material Permeability. IEEE Transactions on Magnetics, 2018, 54, 1-15.	2.1	55
5	New Scientific Contribution on the 2-D Subdomain Technique in Cartesian Coordinates: Taking into Account of Iron Parts. Mathematical and Computational Applications, 2017, 22, 17.	1.3	40
6	Compound heterozygous mutations of the TNXB gene cause primary myopathy. Neuromuscular Disorders, 2013, 23, 664-669.	0.6	32
7	2-D Analytical Prediction of Eddy Currents, Circuit Model Parameters, and Steady-State Performances in Solid Rotor Induction Motors. IEEE Transactions on Magnetics, 2014, 50, 1-14.	2.1	32
8	New Scientific Contribution on the 2-D Subdomain Technique in Polar Coordinates: Taking into Account of Iron Parts. Mathematical and Computational Applications, 2017, 22, 42.	1.3	32
9	Semi-Analytical Magnetic Field Predicting in Many Structures of Permanent-Magnet Synchronous Machines Considering the Iron Permeability. IEEE Transactions on Magnetics, 2018, 54, 1-21.	2.1	29
10	3-D Numerical Hybrid Method for PM Eddy-Current Losses Calculation: Application to Axial-Flux PMSMs. IEEE Transactions on Magnetics, 2015, 51, 1-10.	2.1	27
11	An Investigation Into the Coupling of Magnetic and Thermal Analysis for a Wound-Rotor Synchronous Machine. IEEE Transactions on Industrial Electronics, 2018, 65, 3406-3416.	7.9	25
12	Permanent-Magnet Eddy-Current Losses: A Global Revision of Calculation and Analysis. Mathematical and Computational Applications, 2019, 24, 67.	1.3	20
13	Analytical Prediction of Iron-Core Losses in Flux-Modulated Permanent-Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2019, 55, 1-12.	2.1	19
14	Elementary subdomain technique for magnetic field calculation in rotating electrical machines with local saturation effect. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 38, 24-45.	0.9	19
15	2-D Exact Analytical Method for Steady-State Heat Transfer Prediction in Rotating Electrical Machines. IEEE Transactions on Magnetics, 2018, 54, 1-19.	2.1	14
16	SEMI-ANALYTICAL MODELING OF SPOKE-TYPE PERMANENT-MAGNET MACHINES CONSIDERING THE IRON CORE RELATIVE PERMEABILITY: SUBDOMAIN TECHNIQUE AND TAYLOR POLYNOMIAL. Progress in Electromagnetics Research B, 2017, 77, 85-101.	1.0	13
17	Complementarity between Solar and Wind Energy Potentials in Benin Republic. Advanced Engineering Forum, 0, 28, 128-138.	0.3	13
18	Nonlinear Semianalytical Model for Axial Flux Permanent-Magnet Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 9804-9816.	7.9	13

#	ARTICLE	IF	CITATIONS
19	Modeling of a coaxial magnetic gear equipped with surface mounted PMs using nonlinear adaptive magnetic equivalent circuits. , 2016, , .		12
20	AUTOMATIC WINDING GENERATION USING MATRIX REPRESENTATION - ANFRACTUS TOOL 1.0. Acta Polytechnica, 2018, 58, 37.	0.6	11
21	Design of a high-speed permanent-magnet machine for electrically-assisted turbocharger applications with reduced noise emissions. , 2017, , .		9
22	NonLinear analytical calculation of magnetic field and torque of switched reluctance machines. , 2016, , .		8
23	Two-Dimensional Exact Subdomain Technique of Switched Reluctance Machines with Sinusoidal Current Excitation. Mathematical and Computational Applications, 2018, 23, 59.	1.3	8
24	ANALYTICAL CALCULATIONS OF ELECTROMAGNETIC QUANTITIES FOR SLOTTED BRUSHLESS MACHINES WITH SURFACE-INSET MAGNETS. Progress in Electromagnetics Research B, 2017, 72, 49-65.	1.0	7
25	Nonlinear Adaptive Magnetic Equivalent Circuit of a Radial-Flux Interior Permanent-Magnet Machine Using Air-Gap Sliding-Line Technic. , 2017, , .		6
26	Combining the Magnetic Equivalent Circuit and Maxwell's Fourier Method for Eddy-Current Loss Calculation. Mathematical and Computational Applications, 2019, 24, 60.	1.3	6
27	2-D Semi-Analytical Magnetic Field Calculation for Flat Permanent-Magnet Linear Machines Using Exact Subdomain Technique. IEEE Transactions on Magnetics, 2021, 57, 1-11.	2.1	6
28	Sizing and experimental characterization of ultra-capacitors for small urban hybrid electric vehicle. , 2010, , .		5
29	In-wheel motor for a small hybrid electric vehicle: design, realization and experimental characterization. , 2012, , .		5
30	Coupled circuit and magnetic fast model for high-speed permanent-magnet drive design. IET Electrical Systems in Transportation, 2018, 8, 27-34.	2.4	5
31	Electrical motor design for hybrid heavy-duty electrical powertrain. , 2009, , .		4
32	Investigation of Volumic Permanent-Magnet Eddy-Current Losses in Multi-Phase Synchronous Machines from Hybrid Multi-Layer Model. Mathematical and Computational Applications, 2020, 25, 14.	1.3	4
33	A Comprehensive Analysis and Review on Electrical Machines in Wind Energy Conversion Systems. Advanced Engineering Forum, 2020, 35, 77-93.	0.3	4
34	Semi-Analytical Magnetic Field Calculation for Dual-Rotor Permanent-Magnet Synchronous Machines by Using Hybrid Model. IEEE Transactions on Magnetics, 2022, 58, 1-10.	2.1	4
35	Design of an axial flux PM motor using magnetic and thermal equivalent network. EPJ Applied Physics, 2013, 63, 30901.	0.7	3
36	An improved model for performances calculation in spoke-type permanent-magnet machines considering magnetization orientation and finite soft-magnetic material permeability. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 1299-1314.	0.9	3

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37	Review of Multi-Physics Modeling on the Active Magnetic Regenerative Refrigeration. Mathematical and Computational Applications, 2021, 26, 47.	1.3	3
38	Analytical magnetic field calculation for flat permanent-magnet linear machines with dual-rotor by using improved two-dimensional hybrid analytical method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, 40, 602-623.	0.9	3
39	Regenerative braking in a small low cost plug-in hybrid electric vehicle for urban use. , 2013, , .		2
40	Coupled Electronic and Magnetic Fast Simulation for High-Speed Permanent-Magnet Drive Design. , 2016, , .		2
41	Investigation on offshore wind energy potential in Benin Republic. Wind Engineering, 2021, 45, 63-73.	1.9	2
42	Wind Energy Potential Assessment and Wind Turbine Performance Investigation in the Cotonou Coast (Benin Republic). International Journal of Engineering Research in Africa, 2019, 45, 89-98.	0.7	2
43	Two-dimensional hybrid model for magnetic field calculation in electrical machines: exact subdomain technique and magnetic equivalent circuit. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, 40, 535-560.	0.9	2
44	PHEBUS Vehicle: A small urban PHEV. , 2012, , .		1
45	A simple analytical approach to model saturation in surface mounted permanent magnet synchronous motors. , 2015, , .		1
46	A 2-D Exact Subdomain Technique in Switched Reluctance Machines Taking Into Account of Finite Soft-Magnetic Material Permeability. , 2018, , .		1
47	GENERAL CALCULATION OF WINDING FACTOR FOR MULTI-PHASE/LAYER ELECTRICAL MACHINES IRRESPECTIVE OF POLES NUMBER. Acta Polytechnica, 2019, 59, 153-161.	0.6	1
48	PM synchronous motors for automotive applications: Virtual prototype and experimental testing. , 2012, , .		0
49	Analytical Modeling of Electromagnetic Noise in Spoke-Type Permanent-Magnet Machines. , 2018, , .		0
50	Estimation of Electromechanical Equipment Cost for Hydropower Plants Taking into Account of Continental Factors. International Journal of Engineering Research in Africa, 2019, 44, 182-199.	0.7	0
51	Mathematical Models for the Design of Electrical Machines. Mathematical and Computational Applications, 2020, 25, 77.	1.3	0
52	2-D Analytical Model of Conventional Switched Reluctance Machines. Lecture Notes in Electrical Engineering, 2020, , 155-164.	0.4	0
53	Two-dimensional steady-state thermal analytical model of permanent-magnet synchronous machines operating in generator mode. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, ahead-of-print, .	0.9	0
54	Electrical Conductivity Influence on Eddy-Current Losses: Analytical Study and Experimental Validation. , 2021, , .		0