

Andrzej Ad Demenko

List of Publications by Year in descending order

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44
papers

361
citations

759233

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47
docs citations

47
times ranked

228
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, application and investigation of the system for generation of fast changing, rotating magnetic field causing hyperthermic effect in magnetic liquids. Measurement: Journal of the International Measurement Confederation, 2022, 194, 111020.	5.0	4
2	Finite Element and Experimental Analysis of an Axisymmetric Electromechanical Converter with a Magnetostrictive Rod. Energies, 2020, 13, 1230.	3.1	7
3	Methodology for Cage Shape Optimization of a Permanent Magnet Synchronous Motor Under Line Start Conditions. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	36
4	Influence of the shape of squirrel-cage bars on the dimensions of permanent magnets in an optimized line-start permanent magnet synchronous motor. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 298-308.	0.9	15
5	Modelling of magnetic and electric circuits. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 578-579.	0.9	0
6	Analogies Between Finite-Difference and Finite-Element Methods for Scalar and Vector Potential Formulations in Magnetic Field Calculations. IEEE Transactions on Magnetics, 2016, 52, 1-6.	2.1	17
7	Influence of squirrel cage geometry on the synchronisation of the line start permanent magnet synchronous motor. IET Science, Measurement and Technology, 2015, 9, 197-203.	1.6	23
8	Strategies for two-dimensional and three-dimensional field computation in the design of permanent magnet motors. IET Science, Measurement and Technology, 2015, 9, 224-233.	1.6	7
9	Optimization of the synchronous motor with hybrid permanent magnet excitation system. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 448-455.	0.9	18
10	Modelling and computation of nonlinear magnetic and electric circuits. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, .	0.9	1
11	Network models of electromagnetic actuators. , 2014, , .		0
12	Finite element analysis of the asynchronous torque in LSPMSM with non-symmetrical squirrel cage winding. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 367-373.	0.6	15
13	The influence of squirrel cage geometry on synchronization of line start permanent magnet synchronous motor. , 2014, , .		3
14	Strategies for 2D and 3D field computation in the design of permanent magnet motors. , 2014, , .		1
15	2-D Versus 3-D Electromagnetic Field Modeling in Electromechanical Energy Converters. IEEE Transactions on Magnetics, 2014, 50, 897-900.	2.1	16
16	On the equivalence of finite difference and edge element formulations in magnetic field analysis using vector potential. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 33, 47-55.	0.9	2
17	Geometric formulation of edge and nodal finite element equations in electromagnetics. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1347-1357.	0.9	9
18	Comparative analysis of A \hat{v} and A \hat{t} TO calculations of induced currents in multiply connected regions. IET Science, Measurement and Technology, 2012, 6, 312.	1.6	6

#	ARTICLE	IF	CITATIONS
19	Equivalent Formulas for Global Magnetic Force Calculation From Finite Element Solution. IEEE Transactions on Magnetics, 2012, 48, 195-198.	2.1	17
20	Finite element analysis of transient electromagnetic-thermal phenomena in a squirrel cage motor. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 832-840.	0.9	9
21	Inducted currents analysis in multiply connected conductors using reluctance-resistance networks. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 908-918.	0.9	4
22	On the Equivalence of Finite Element and Finite Integration Formulations. IEEE Transactions on Magnetics, 2010, 46, 3169-3172.	2.1	23
23	Interactive Postprocessing in 3D Electromagnetics. IEEE Transactions on Magnetics, 2010, 46, 3437-3440.	2.1	7
24	Methods for Computation and Visualization of Magnetic Flux Lines in 3-D. IEEE Transactions on Magnetics, 2010, 46, 3349-3352.	2.1	10
25	Field and field-circuit models of electrical machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 8-22.	0.9	2
26	Loop analysis of multi-branch, multi-node non-linear circuits using singular formulation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 691-699.	0.9	3
27	Network Representation of Conducting Regions in 3-D Finite-Element Description of Electrical Machines. IEEE Transactions on Magnetics, 2008, 44, 714-717.	2.1	16
28	Electromagnetic torque calculation using magnetic network methods. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 17-26.	0.9	13
29	Field and field-circuit description of electrical machines. , 2008, , .		2
30	Description of electrical machine windings in the finite element space. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 711-719.	0.9	8
31	3D Edge Element Calculations of Electrical Motor with Double Cylindrical Rotor. Studies in Computational Intelligence, 2008, , 147-153.	0.9	1
32	Eddy Current Computation in 3-Dimensional Models for Electrical Machine Applications. , 2006, , .		0
33	Finite element analysis of saturation effects in a tubular linear permanent magnet machine. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 43-54.	0.9	6
34	Trigonometric interpolation at sliding surfaces and in moving bands of electrical machine models. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 31-42.	0.9	9
35	Magneto-electric network models in electromagnetism. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 581-588.	0.9	8
36	Comparison of 3D and 2D field-circuit models of power transformer transients. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 1100-1109.	0.9	4

#	ARTICLE	IF	CITATIONS
37	Calculation of magnetization characteristic of a squirrel cage machine using edge element method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 1110-1118.	0.9	10
38	Orthogonal transformation of moving grid model into fixed grid model in the finite element analysis of induction machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 1015-1022.	0.9	3
39	3D edge element analysis of saturation effects in a permanent magnet machine. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2002, 21, 126-137.	0.9	6
40	Finite element analysis of electromagnetic torque saturation harmonics in a squirrel cage machine. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1999, 18, 619-628.	0.9	5
41	3D coupled field-circuit simulation of electromechanical converter dynamics. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1998, 17, 439-447.	0.9	1
42	Finite element analysis of saturation effects in a squirrel cage electrical machine. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1996, 15, 88-95.	0.9	13
43	TIME-STEPPING FINITE ELEMENT METHOD IN DESIGNING OF PERMANENT MAGNET SYNCHRONOUS MOTORS. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1995, 14, 107-111.	0.9	0
44	Hybrid Simulation of Electromagnetic Field in Squirrel-Cage Winding. , 1988, , 199-204.		0