José Roberto Cardoso

List of Publications by Year
in descending order

83 papers	691 citations	623734 14 h-index	713466 21 g-index
84 all docs	84 docs citations	84 times ranked	499 citing authors

#	Article	IF	Citations
1	Crowbar System in Doubly Fed Induction Wind Generators. Energies, 2010, 3, 738-753.	3.1	55
2	Identification of the Jilesâ€"Atherton model parameters using random and deterministic searches. Physica B: Condensed Matter, 2000, 275, 212-215.	2.7	36
3	An analytical-FDTD method for near LEMP calculation. IEEE Transactions on Magnetics, 2000, 36, 1631-1634.	2.1	31
4	ICCG method applied to solve DC traction load flow including earthing models. IET Electric Power Applications, 2007, 1, 193.	1.8	29
5	The element-free Galerkin method applied to the study of fully developed magnetohydrodynamic duct flows. IEEE Transactions on Magnetics, 2002, 38, 941-944.	2.1	28
6	A solution of two-dimensional magnetohydrodynamic flow using the finite element method. IEEE Transactions on Magnetics, 1998, 34, 3134-3137.	2.1	26
7	DC traction load flow including AC distribution network. IET Electric Power Applications, 2009, 3, 289.	1.8	24
8	Coupling electric circuit and 2D-FEM model with Dommel's approach for transient analysis [of EM devices]. IEEE Transactions on Magnetics, 1998, 34, 3487-3490.	2.1	21
9	Analysis of a Three-Phase LSPMM by Numerical Method. IEEE Transactions on Magnetics, 2009, 45, 1792-1795.	2.1	20
10	Design Considerations for Achieving High Radial Stiffness in an Attraction-Type Magnetic Bearing With Control in a Single Direction. IEEE Transactions on Magnetics, 2011, 47, 4112-4115.	2.1	20
11	FEM modelling of grounded systems with unbounded approach. IEEE Transactions on Magnetics, 1994, 30, 2893-2896.	2.1	19
12	Modified nodal analysis applied to electric circuits coupled with FEM in the simulation of a universal motor. IEEE Transactions on Magnetics, 2000, 36, 1431-1434.	2.1	19
13	Three-dimensional finite element analysis of MHD duct flow by the penalty function formulation. IEEE Transactions on Magnetics, 2001, 37, 3384-3387.	2.1	18
14	Transient induced voltage computation in a high building struck by lightning. IEEE Transactions on Magnetics, 1998, 34, 2815-2818.	2.1	17
15	Optimization of grounding grids by response surfaces and genetic algorithms. IEEE Transactions on Magnetics, 2003, 39, 1301-1304.	2.1	15
16	Finite element analysis of anisotropic optical waveguide with arbitrary index profile. IEEE Transactions on Magnetics, 1999, 35, 1546-1549.	2.1	14
17	A combined wavelet-element free galerkin method for numerical calculations of electromagnetic fields. IEEE Transactions on Magnetics, 2003, 39, 1413-1416.	2.1	14
18	Second-order model for remote and close-up short-circuit faults currents on DC traction supply. IET Power Electronics, 2008, 1, 348.	2.1	14

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19	Optimisation of a switched reluctance motor using experimental design method and diffuse elements response surface. IET Science, Measurement and Technology, 2004, 151, 411-413.	0.7	13
20	Power Factor Calculation by the Finite Element Method. IEEE Transactions on Magnetics, 2010, 46, 3002-3005.	2.1	13
21	Specification of Supervisory Control Systems for Ventricular Assist Devices. Artificial Organs, 2011, 35, 465-470.	1.9	13
22	Modal analysis of anisotropic diffused-channel waveguide by a scalar finite element method. IEEE Transactions on Magnetics, 1998, 34, 2783-2786.	2.1	12
23	A virtual lab for electric motors and drives. IEEE Transactions on Magnetics, 1999, 35, 1674-1677.	2.1	11
24	Determination of Frequency-Dependent Characteristics of Substation Grounding Systems by Vector Finite-Element Analysis. IEEE Transactions on Magnetics, 2007, 43, 1825-1828.	2.1	11
25	Evaluation of the Reactive Power Support Capability and Associated Technical Costs of Photovoltaic Farms' Operation. Energies, 2018, 11, 1567.	3.1	11
26	LMAG-2D: a software package to teach FEA concepts. IEEE Transactions on Magnetics, 1997, 33, 1986-1989.	2.1	9
27	An Improved Tabu-Based Vector Optimal Algorithm for Design Optimizations of Electromagnetic Devices. IEEE Transactions on Magnetics, 2004, 40, 1140-1143.	2.1	9
28	A Fourth Order Differential-Integral Formulation Applied to the Simulation of the Subway Grounding Systems. Electric Power Components and Systems, 2002, 30, 331-343.	1.8	8
29	A multi-objective analysis of a special switched reluctance motor. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 931-941.	0.9	8
30	Numerical Evaluation of Noncanonical Reverberation Chamber Configurations. IEEE Transactions on Magnetics, 2008, 44, 1458-1461.	2.1	8
31	New Concept for Lifting in Onshore Oil Wells. IEEE Transactions on Industry Applications, 2008, 44, 951-961.	4.9	8
32	Electromagnetic Analysis of Submarine Umbilical Cables With Complex Configurations. IEEE Transactions on Magnetics, 2010, 46, 3317-3320.	2.1	8
33	Dynamic modeling of transverse flux permanent magnet generator for wind turbines. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2011, 10, 95-105.	0.7	8
34	Efficient Modeling of Thin Wires in a Lossy Medium by Finite Elements Applied to Grounding Systems. IEEE Transactions on Magnetics, 2011, 47, 966-969.	2.1	8
35	Behavior of three-phase transformers supplying non linear loads using time domain representation and finite element analysis. IEEE Transactions on Magnetics, 1998, 34, 3174-3177.	2.1	7
36	A new design technique based on a suitable choice of rotor geometrical parameters to maximize torque and power factor in synchronous reluctance motors. I. Theory. IEEE Transactions on Energy Conversion, 1999, 14, 599-604.	5.2	7

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37	3-D Finite-Element Analysis of Conductive Coupling Problems in Transmission Line Rights of Way. IEEE Transactions on Magnetics, 2014, 50, 969-972.	2.1	7
38	A Maxwell's Second Equation Approach to the Finite Element Method Applied to Magnetic Field Determination. International Journal of Electrical Engineering and Education, 1987, 24, 259-272.	0.8	6
39	A Wavelet-Based Algebraic Multigrid Preconditioning for Iterative Solvers in Finite-Element Analysis. IEEE Transactions on Magnetics, 2007, 43, 1553-1556.	2.1	6
40	Design aspects of 4:2 pole-2 phase switched reluctance motors. , 0, , .		5
41	Approach to teaching the finite element method applied to electromagnetic problems with axial symmetry to electrical engineering students. Computer Applications in Engineering Education, 1999, 7, 133-145.	3.4	5
42	The influence of the applied rotor voltage on ride-through capability of doubly fed induction generator. , 2011, , .		5
43	Finite element analysis of impedance of an electron beam current monitor. IEEE Transactions on Magnetics, 1999, 35, 1833-1836.	2.1	4
44	Single Axis Controlled Hybrid Magnetic Bearing for Left Ventricular Assist Device: Hybrid Core and Closed Magnetic Circuit. Artificial Organs, 2011, 35, 448-453.	1.9	4
45	Modeling study of an Implantable Centrifugal Blood Pump actuator with redundant sensorless control. , 2012, , .		4
46	Apical aortic blood pump preclinical assessment for long-term use: Durability test and stator topology to reduce wear in the bearing system. Artificial Organs, 2020, 44, 779-784.	1.9	4
47	Finite element method with BiCG solver applied to moving linear induction motors. IEEE Transactions on Magnetics, 1995, 31, 1888-1891.	2.1	3
48	Constrained decision planning applied to field profile optimization in LPS of structures directly struck by lightning. IEEE Transactions on Magnetics, 2002, 38, 757-760.	2.1	3
49	Upgrading urban high voltage transmission line: impact on electric and magnetic fields in the environment. , 0, , .		3
50	A 2-D Delaunay Refinement Algorithm Using an Initial Prerefinement From the Boundary Mesh. IEEE Transactions on Magnetics, 2008, 44, 1418-1421.	2.1	3
51	Maximum Working Volume Evaluation in a Non-Canonical Reverberation Chamber. IEEE Transactions on Magnetics, 2009, 45, 1646-1649.	2.1	3
52	Evaluation of analytic formulations for surge impedance calculation of tall transmission towers. International Journal of Electrical Power and Energy Systems, 2020, 114, 105407.	5.5	3
53	A new design technique based on a suitable choice of rotor geometrical parameters to maximize torque and power factor in synchronous reluctance motors. II. Finite-element analysis and measurements. IEEE Transactions on Energy Conversion, 1999, 14, 605-609.	5.2	2
54	FEA of electromagnetics: a geometrical approach for problems with plane symmetry. IEEE Transactions on Magnetics, 2002, 38, 1313-1316.	2.1	2

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55	Evaluation of electromagnetic interference from railway electric power system harmonics. , 2003, , .		2
56	Application of Haar's wavelets in the method of moments to solve electrostatic problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 606-612.	0.9	2
57	Application of Spice simulator in the evaluation of crosstalk computational models. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 668-676.	0.9	2
58	A Geometrical Approach of 3-D FEA for Educational Purposes Applied to Electrostatic Fields. IEEE Transactions on Magnetics, 2008, 44, 1674-1677.	2.1	2
59	Avaliação do desempenho dos métodos de proteção contra a perda de excitação em geradores sÃncronos. Controle and Automacao, 2009, 20, 526-545.	0.2	2
60	The use of the Hilbert-Huang transform in the analysis of machining vibrations in machine tools. , 2014, , .		2
61	Design, Manufacturing and Tests of an Implantable Centrifugal Blood Pump. International Federation for Information Processing, 2011, , 410-417.	0.4	2
62	Design and construction of a periodic magnetic structure of SmCo/sub 5/ magnets. IEEE Transactions on Magnetics, 1997, 33, 2183-2186.	2.1	1
63	Double-cage induction motor modelling using finite elements. , 0, , .		1
64	Experimental characterization of permanent magnets used in periodic structures. IEEE Transactions on Magnetics, 2001, 37, 1106-1109.	2.1	1
65	Wavelet's application in electrostatic and their computing aspects. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 923-931.	0.9	1
66	Statistical evaluation of non-canonical reverberation chambers. , 2007, , .		1
67	Simulação digital do sistema de tração elétrica metroferroviÃ¡ria: modelagem e métodos. Exacta, 2008, 6, 229-236.	0.5	1
68	A new design technique based on a suitable choice of rotor geometrical parameters to maximize torque and power factor in synchronous reluctance motors. II. Finite-element analysis and measurements. , 0, , .		0
69	A new design technique based on a suitable choice of rotor geometrical parameters to maximize torque and power factor in synchronous reluctance motors. I. Theory. , 0, , .		0
70	Finite element analysis of a synchronous permanent magnet micromotor through axisymmetric and transverse planar simulations. IEEE Transactions on Magnetics, 1998, 34, 3604-3607.	2.1	0
71	Effects of the axial magnetic field component on the electron trajectory in the wiggler section. IEEE Transactions on Magnetics, 1998, 34, 3467-3470.	2.1	0
72	Conductor Position Optimization of a Transmission Line Excitation Chamber. IEEE Transactions on Magnetics, 2010, 46, 3261-3264.	2.1	0

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73	Induction motor parameter determination using the harmony search algorithm to power, torque and speed estimation. , 2012, , .		0
74	Bioimpedance Calculation Considering Spherical Anomalies. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 600-611.	0.7	0
75	Simulação do Desempenho de Motores e Geradores de Relutância Chaveados. Eletrônica De Potência, 2024, 8, 69-77.	0.1	0
76	Contribuição a aplicação das wavelets na eletrostática. Controle and Automacao, 2005, 16, 34-43.	0.2	0
77	Simulação de composição ferroviária acionada por motores de indução e inversores de tensão. Controle and Automacao, 2005, 16, 1-12.	0.2	0
78	Uma estrutura de dados dinâmica para geração de malhas de Delaunay bidimensionais e tridimensionais DOI: 10.5585/exacta.v5i2.1178. Exacta, 2007, 5, 291-300.	0.5	0
79	Análise de estabilidade de geradores de indução utilizados em turbinas eólicas de velocidade fixa DOI: 10.5585/exacta.v6i2.986. Exacta, 2008, 6, 217-228.	0.5	0
80	An automated tetrahedral mesh generator for computer simulation in Odontology based on the Delaunay's algorithm DOI: 10.5585/exacta.v6i2.1204. Exacta, 2008, 6, 237-244.	0.5	0
81	Análise da resposta em regime transitório e permanente de algoritmos para filtragem digital utilizados em relés numéricos: velocidade de convergência, overshoot e sensibilidade em relação a constante de tempo. Controle and Automacao, 2011, 22, 65-78.	0.2	0
82	A load effect evaluation of a transmission line exciting chamber. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2011, 10, 42-54.	0.7	0
83	Safety Control Architecture for Ventricular Assist Devices. Machines, 2022, 10, 5.	2.2	0