

JÃ³zsef PÃ¡vÃ¡

List of Publications by Year in descending order

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76
papers

574
citations

687363

13
h-index

713466

21
g-index

76
all docs

76
docs citations

76
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	Parallel Realization of the Element-by-Element FEM Technique by CUDA. IEEE Transactions on Magnetics, 2012, 48, 507-510.	2.1	54
2	Reconstruction of crack shape by optimization using eddy current field measurement. IEEE Transactions on Magnetics, 1994, 30, 3407-3410.	2.1	53
3	Transient Eddy Current Analysis of Pulsed Eddy Current Testing by Finite Element Method. IEEE Transactions on Magnetics, 2004, 40, 1330-1333.	2.1	41
4	Fast flaw reconstruction from 3D eddy current data. IEEE Transactions on Magnetics, 1998, 34, 2823-2828.	2.1	28
5	Solution of Inverse Problems in Nondestructive Testing by a Kriging-Based Surrogate Model. IEEE Transactions on Magnetics, 2012, 48, 495-498.	2.1	26
6	Calculation of eddy current testing probe signal with global approximation. IEEE Transactions on Magnetics, 2006, 42, 1419-1422.	2.1	23
7	Numerical calculation method for pulsed eddy-current testing. IEEE Transactions on Magnetics, 2002, 38, 1169-1172.	2.1	22
8	Calculation of Losses in Laminated Ferromagnetic Materials. IEEE Transactions on Magnetics, 2004, 40, 924-927.	2.1	19
9	Adaptive inversion database for electromagnetic nondestructive evaluation. NDT and E International, 2007, 40, 192-202.	3.7	19
10	Characterization of small cracks in eddy current testing. EPJ Applied Physics, 2008, 43, 231-237.	0.7	19
11	Modeling of Resonant Wireless Power Transfer With Integral Formulations in Heterogeneous Media. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	15
12	Finite-Element-Integral Equation Full-Wave Multisolver for Efficient Modeling of Resonant Wireless Power Transfer. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	14
13	Full Wave Potential Formulation With Low-Frequency Stability Including Ohmic Losses. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	13
14	Efficient Perturbation Method for Computing Two-Port Parameter Changes Due to Foreign Objects for WPT Systems. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	13
15	Loss Computation Method for Litz Cables With Emphasis on Bundle-Level Skin Effect. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	12
16	Optimal design of eddy current testing probe using fluxset magnetic field sensors. IEEE Transactions on Magnetics, 1996, 32, 1597-1600.	2.1	11
17	Characterization of a 3D defect using the expected improvement algorithm. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 851-864.	0.9	11
18	Kriging for Eddy-Current Testing Problems. IEEE Transactions on Magnetics, 2010, 46, 3165-3168.	2.1	11

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19	Minor hysteresis loops measurements for characterization of cast iron. Physica B: Condensed Matter, 2006, 372, 156-159.	2.7	10
20	Study and experimental validation of the calculation of the ECT signal induced by a minute crack using a FEMâ€“BIM combination. NDT and E International, 2006, 39, 476-486.	3.7	10
21	The Radar Cross Section of small propellers on Unmanned Aerial Vehicles. , 2016, , .		9
22	Subdomain Perturbation Finite-Element Method for Quasi-static Darwin Approximation. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	9
23	Numerical calibration of fluxset probe for quantitative eddy current testing. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1999, 18, 436-444.	0.9	8
24	Electromagnetic Simulation of Rotating Propeller Blades for Radar Detection Purposes. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	8
25	Modeling of Dense Windings for Resonant Wireless Power Transfer by an Integral Equation Formulation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	7
26	Conceptual evaluation of inversion models used for layered structures. IEEE Transactions on Magnetics, 2006, 42, 1091-1094.	2.1	6
27	High locality and increased intra-node parallelism for solving finite element models on GPUs by novel element-by-element implementation. , 2012, , .		6
28	Forward solution speed-up for 3D eddy current inversion. IEEE Transactions on Magnetics, 2000, 36, 1124-1127.	2.1	5
29	Adaptive sampling technique based on moving meshes for building data-equidistant inversion databases for NDT. International Journal of Applied Electromagnetics and Mechanics, 2009, 30, 309-319.	0.6	5
30	Modeling of Frequency Selective Surfaces Using Impedance Type Boundary Condition. IEEE Transactions on Magnetics, 2014, 50, 165-168.	2.1	5
31	Partial least square regression: an analysis tool for quantitative non-destructive testing. EPJ Applied Physics, 2014, 67, 30901.	0.7	5
32	Numerically Efficient Modeling of Frequency Selective Surfaces in Broad Frequency Range. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
33	Integral Equation Formulations for Modeling Wireless Power Transfer Systems in Close Proximity to Foreign Objects. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	5
34	Forward solution method for the reconstruction of the shape of thin metal deposit on plate specimen. International Journal of Applied Electromagnetics and Mechanics, 2002, 14, 483-488.	0.6	4
35	Approximate prediction of losses in transformer plates. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2003, 22, 689-702.	0.9	4
36	Calibration of Fluxset sensors for the measurement of spatially strongly inhomogeneous magnetic fields. Sensors and Actuators A: Physical, 2004, 110, 105-111.	4.1	4

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37	Computational environment for the fast calculation of ECT probe signal by field decomposition. IEEE Transactions on Magnetics, 2006, 42, 1411-1414.	2.1	4
38	Generation and use of optimised databases in microwave characterisation. IET Science, Measurement and Technology, 2008, 2, 467-473.	1.6	4
39	Uncertainty quantification of wireless power transfer systems. , 2016, , .		4
40	Validation of Numerical Models of Portable Wireless Devices for Near-Field Simulation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	4
41	Approximate Methods for the Calculation of the ECT Signal of a Crack in a Plate Coated by Conducting Deposit. IEEE Transactions on Magnetics, 2004, 40, 659-662.	2.1	3
42	Qualification of the inverse problem of defect reconstruction using optimized mesh database. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 436-445.	0.9	3
43	Acceleration of moment method using CUDA. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1751-1762.	0.9	3
44	Magnetic flux simulation for the inspection of local thinning of ferromagnetic plates. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 1377-1384.	0.6	3
45	Numerical simulation and design of a fluxset sensor by finite element method. IEEE Transactions on Magnetics, 1998, 34, 3475-3478.	2.1	2
46	Calculation of the field map from the measurement data of the fluxset sensor. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 404-416.	0.9	2
47	Calculation of the ECT signal of a minute crack by a FEM-BIM hybrid method. EPJ Applied Physics, 2004, 28, 355-360.	0.7	2
48	A Coupled Analyticalâ€“Finite Element Technique for the Calculation of Radiation From Tilted Rectangular Waveguide Slot Antennas. IEEE Transactions on Magnetics, 2008, 44, 1666-1669.	2.1	2
49	Hybridization of volumetric and surface models for the computation of the T/R EC probe response due to a thin opening flaw. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 298-306.	0.9	2
50	Probe for detecting weakly interacting magnetic nanoparticles. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 29-34.	0.6	2
51	Nonlocal impedance boundary conditions in modeling WPT coils for all frequencies. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 9-18.	0.6	2
52	Bistatic RCS calculation for propellers at near-resonant frequencies. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 19-26.	0.6	2
53	Calculation of the coupling coefficient of two optical waveguide ends separated by layered medium. IEEE Transactions on Magnetics, 1992, 28, 1513-1516.	2.1	1
54	Modeling of nonlinear material with linear inhomogeneous medium for loss prediction of transformer cores. International Journal of Applied Electromagnetics and Mechanics, 2004, 19, 427-431.	0.6	1

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55	Optimized database for training neural networks used in non-destructive testing. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 717-721.	0.6	1
56	Practical Criteria for the Separability of Eddy-Current Testing Signals on Multiple Defects. IEEE Transactions on Magnetics, 2008, 44, 1634-1637.	2.1	1
57	COMPUMAG 2013 Chairman's Foreword. IEEE Transactions on Magnetics, 2014, 50, 19-20.	2.1	1
58	Detection of low density magnetic nanoparticles by Fluxset type magnetic probe. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 453-460.	0.6	1
59	Computational model validation of wireless devices for Specific Absorption Rate evaluation. , 2016, , .		1
60	An integral equation formulation with global series expansion for resonant wireless power transfer. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 1474-1487.	0.9	1
61	A Full-Wave Integral Equation Method Including Accurate Wide-Frequency-Band Wire Models for WPT Coils. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
62	Near-field reconstruction for portable wireless devices by deconvolution from input impedance changes. IET Science, Measurement and Technology, 2018, 12, 645-650.	1.6	1
63	Characterization of small cracks in eddy current testing. , 2007, , .		1
64	Flexible micro magnetic sensor array for nondestructive evaluation. , 0, , .		0
65	Deposit characterization by eddy current nondestructive evaluation. International Journal of Applied Electromagnetics and Mechanics, 2004, 19, 537-540.	0.6	0
66	ECT Characterization of the Extent of Minute Cracks using a Database Based Inversion Procedure. , 0, , .		0
67	Error estimation of calculated ECT signal due to thin crack in a plate using a global approximation of the dipole density. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 347-356.	0.6	0
68	Eddy-current testing with the Expected Improvement optimization algorithm. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1750-1755.	0.4	0
69	Partial least square regression for quantitative evaluation of small anomalies in non-destructive testing. , 2010, , .		0
70	Inspection of the Delamination of Magnetic and Non-Magnetic Conducting Layers Using NDT. IEEE Transactions on Magnetics, 2012, 48, 499-502.	2.1	0
71	Calculation of eddy-current probe signal for a 3D defect using global series expansion. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1512-1524.	0.9	0
72	Simulation of the absorbing clamp method for optimizing the shielding of power cables. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1567-1580.	0.9	0

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73	Validation of numerical models of portable wireless devices for near-field simulation. , 2016, , .		0
74	Modeling of dense windings for resonant wireless power transfer by an integral equation formulation. , 2016, , .		0
75	Homogenized 3-D FEM Model for Simulation of HTS Coils. , 2019, , .		0
76	Electromagnetic modeling of coils made of twisted litz wire by combining finite element simulation and circuit laws. International Journal of Applied Electromagnetics and Mechanics, 2022, , 1-11.	0.6	0