

Tetsuji Matsuo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

773
citations

14
h-index

23
g-index

108
ext. papers

900
ext. citations

1.7
avg, IF

4.42
L-index

#	Paper	IF	Citations
93	Reduced Order Modeling Based on Multiport Cauer Ladder Network for Space Harmonics of Air-gap Flux Density in Cage Induction Motor. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	0
92	Numerical Stability Analysis of Space-Time Finite Integration Method Based on the Dependent Domain Concept. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
91	Nonlinear Model Order Reduction of Induction Motors Using Parameterized Cauer Ladder Network Method. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	1
90	Eddy-Current Field Analysis in Laminated Iron Cores Using Multi-Scale Model Order Reduction. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	1
89	Multiport Model Order Reduction With Multiple Expansion Points. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	
88	Comparison Study of First-Order Approximations of Nonlinear Eddy-Current Field Using Cauer Ladder Network Method. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	2
87	Nonlinear Multi-Scale Model Order Reduction of Eddy-Current Problems. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
86	Physical Cauer circuits in nonlinear eddy-current modeling. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 508, 166850	2.8	3
85	Model Order Reduction of an Induction Motor Using a Cauer Ladder Network. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	5
84	Modal Decomposition of 3-D Quasi-Static Maxwell Equations by Cauer Ladder Network Representation. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	5
83	Cauer Ladder Network Representation of a Nonlinear Eddy-Current Field Using a First-Order Approximation. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	7
82	Multi-Port Model Order Reduction Using a Matrix Cauer Ladder Network. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-5	2	7
81	Pinning field representation using play hysterons for stress-dependent domain-structure model. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 499, 166303	2.8	4
80	Equivalent Circuit in Cauer Form for Eddy Current Field Including a Translational Mover. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-7	2	2
79	Acceleration of Transient Non-Linear Electromagnetic Field Analyses Using an Automated Subspace Correction Method. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	
78	Dynamic hysteresis modeling of silicon steel sheet considering excess eddy-current loss. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019 , 59, 217-226	0.4	3
77	Cauer Ladder Network With Multiple Expansion Points for Efficient Model Order Reduction of Eddy-Current Field. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	7

76	Finite Element Magnetic Field Analysis of Permanent Magnet Synchronous Motor Taking Account of Hysteretic Property. <i>IEEJ Transactions on Industry Applications</i> , 2019 , 139, 513-522	0.2	
75	Pinning Field Modeling Using Stop Hysterons for Multi-domain Particle Model 2019 ,		2
74	Cauer Ladder Network Representation of Eddy-Current Fields for Model Order Reduction Using Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	29
73	Finite-Element Analysis of Unbounded Eddy-Current Problems Using Cauer Ladder Network Method. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	4
72	Input and Output Power in Finite-Element Analysis of Electric Machines Taking Account of Hysteretic Property. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	3
71	Matrix Formulation of the Cauer Ladder Network Method for Efficient Eddy-Current Analysis. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	9
70	Simulation of the stress dependence of hysteresis loss using an energy-based domain model. <i>AIP Advances</i> , 2018 , 8, 047501	1.5	5
69	Ladder Circuit Modeling of Dynamic Hysteretic Property Representing Excess Eddy-Current Loss. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	5
68	Dynamical Model of an Electromagnet using Cauer Ladder Network Representation of Eddy-current Fields. <i>IEEJ Journal of Industry Applications</i> , 2018 , 7, 305-313	0.7	6
67	Efficient multiscale magnetic-domain analysis of iron-core material under mechanical stress. <i>AIP Advances</i> , 2018 , 8, 056617	1.5	2
66	Hysteresis Loss Analysis of Laminated Iron Core by Using Homogenization Method Taking Account of Hysteretic Property. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	4
65	Steady-State Analysis of Hysteretic Magnetic Field Problems Using a Parallel Time-Periodic Explicit-Error Correction Method. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	2
64	Postcorrection of Current/Voltage and Electromagnetic Force for Efficient Hysteretic Magnetic Field Analysis. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	2
63	Partially Implicit Method for Fast Magnetization Analysis Using Assembled Domain Structure Model. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	1
62	A Basic Theory of Induction Heating for a Wind-Powered Thermal Energy System. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	4
61	Optimal Subgrid Connection for Space-Time Finite Integration Technique. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	2
60	Efficient circuit representation of eddy-current fields. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2017 , 36, 1457-1473	0.7	3
59	Automatic mapping operator construction for subspace correction method to solve a series of linear systems. <i>JSIAM Letters</i> , 2017 , 9, 25-28	0.2	1

58	Dynamical model of an electromagnet by cauer ladder network representation of eddy-current fields 2017 ,		1
57	High Frequency Nonlinear Modeling of Magnetic Sheets using Polynomial Expansions for Eddy-current Field. <i>IEEJ Transactions on Power and Energy</i> , 2017 , 137, 162-172	0.2	10
56	Improvement of Representation of Rotational Hysteresis Loss by Isotropic Vector Play Model. <i>IEEJ Transactions on Power and Energy</i> , 2017 , 137, 216-222	0.2	
55	Optimal subgrid connection for space-time finite integration technique 2016 ,		1
54	Preliminary Study of Space-Time Finite-Element Eddy-Current Analysis. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	1
53	Anisotropic Vector Play Model Incorporating Decomposed Shape Functions. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	5
52	Space-Time PML and Subgrid Connections for Finite Integration Method. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	2
51	Improvement of alternating magnetic characteristics represented by play model. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2016 , 52, 1425-1432	0.4	1
50	Magnetization analysis of stepped giant magneto impedance sensor using assembled domain structure model. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2016 , 52, 541-546	0.4	4
49	The domain structure model including pinning effect based on the statistical distribution function 2016 ,		2
48	Cauer Circuit Representation of the Homogenized Eddy-Current Field Based on the Legendre Expansion for a Magnetic Sheet. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	26
47	Macroscopic magnetization modeling of silicon steel sheets using an assembly of six-domain particles. <i>Journal of Applied Physics</i> , 2015 , 117, 17D126	2.5	14
46	A Simple Sub-Grid Scheme Using Space-Time Finite Integration Method. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	6
45	Iron Loss Estimation Method for Rotating Machines Taking Account of Hysteretic Property. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	29
44	Reduction of Unphysical Wave Reflection Arising From Space-Time Finite Integration Method. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 177-180	2	2
43	Loss Calculation Method Considering Hysteretic Property With Play Model in Finite Element Magnetic Field Analysis. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 381-384	2	11
42	Experimental and Simulation Modeling Studies of Magnetic Properties of Ni-Zn Ferrite Cores under DC Bias. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2014 , 61, S238-S241	0.2	7
41	DC Bias Effect on the Magnetic Properties in NiZn Ferrite. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2014 , 61, S245-S247	0.2	2

40	Finite element analysis of a ferrite-core inductor with direct current bias current using an equivalent-circuit model of dynamic hysteretic properties. <i>Journal of Applied Physics</i> , 2014 , 115, 17A330	2.5	1
39	A Vector Play Model for Finite-Element Eddy-Current Analysis Using the Newton-Raphson Method. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1689-1692	2	10
38	A Simplified Domain Structure Model Exhibiting the Pinning Field. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1829-1832	2	6
37	Geometrical Formulation of 3-D Space-Time Finite Integration Method. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1693-1696	2	5
36	Equivalent Circuit Modeling of DC and AC Ferrite Magnetic Properties Using H-Input and B-Input Play Models. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1985-1988	2	4
35	Dynamic and Anisotropic Vector Hysteresis Model Based on Isotropic Vector Play Model for Nonoriented Silicon Steel Sheet. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 215-218	2	27
34	3D and 4D space-time grids for electromagnetic wave computation using finite integration method 2012 ,		1
33	Magnetic Field Analysis of Ring Core Taking Account of Hysteretic Property Using Play Model. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3375-3378	2	11
32	Demagnetizing Field in Micromagnetic Simulation Under Periodic Boundary Conditions. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 902-905	2	3
31	Space-Time Finite Integration Method for Electromagnetic Field Computation. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1530-1533	2	12
30	Anisotropic Vector Hysteresis Model Using an Isotropic Vector Play Model. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3041-3044	2	40
29	CFL Conditions for Finite Integration Methods Using Parallelogram and Parallelepiped Grids. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3014-3017	2	
28	Optimization of Inductors Using Evolutionary Algorithms and Its Experimental Validation. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3393-3396	2	48
27	Electromagnetic Field Computation Using Space-Time Grid and Finite Integration Method. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3241-3244	2	8
26	Comparison of Rotational Hysteretic Properties of Isotropic Vector Stop Models. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 1194-1197	2	9
25	CFL Conditions for Finite Integration Methods on Triangular Meshes. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 1348-1351	2	1
24	Several Modeling Methods for Representation of AC Magnetic Properties of Electrical Steel Sheets Taking Account of Skin Effect. <i>IEEJ Transactions on Power and Energy</i> , 2009 , 129, 421-427	0.2	
23	Two Types of Isotropic Vector Play Models and Their Rotational Hysteresis Losses. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 898-901	2	23

22	Generalization of the Classical Method for Calculating Dynamic Hysteresis Loops in Grain-Oriented Electrical Steels. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2113-2126	2	63
21	Rotational Saturation Properties of Isotropic Vector Hysteresis Models Using Vectorized Stop and Play Hysteron. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3185-3188	2	13
20	Efficient Linear Solvers for Mortar Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1469-1472	2	6
19	Generalization of an Isotropic Vector Hysteresis Model Represented by the Superposition of Stop Models Identification and Rotational Hysteresis Loss. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1389-1392	2	7
18	Identification of a Generalized 3-D Vector Hysteresis Model Through the Superposition of Stop- and Play-Based Scalar Models. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2965-2967	2	4
17	Simple modeling of the AC hysteretic property of a grain-oriented silicon steel sheet. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 919-922	2	10
16	A Method for Optimal Identification of a Stop Model With Input-Dependent Shape Function. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3818-3824	2	5
15	Representation Theorems for stop and play models with input-dependent shape functions. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1548-1551	2	18
14	Representation of AC hysteretic Characteristics of silicon steel sheet using simple excess eddy-current loss approximation. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1544-1547	2	8
13	An identification method of play model with input-dependent shape function. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3112-3114	2	46
12	Stop model with input-dependent shape function and its identification methods. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1776-1783	2	18
11	A Study of Representation of Hysteretic Characteristics by Stop and Play Models. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2003 , 123, 1958-1963	0.1	8
10	3-D magnetohydrodynamic field computation of supersonic duct flow of weakly ionized plasma. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 1444-1447	2	4
9	Application of stop and play models to the representation of magnetic characteristics of silicon steel sheet. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 1361-1364	2	24
8	Time-periodic finite-element method for hysteretic eddy-current analysis. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 549-552	2	7
7	Isotropic vector hysteresis represented by superposition of stop hysteron models. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 3357-3361	2	22
6	Eddy-current analysis using vector hysteresis models with play and stop hystérons. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 1172-1177	2	27
5	Parallel computation for high speed duct flow of weakly ionized plasma 2000 ,		1

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| 4 | Stability analysis of periodic solutions in nonautonomous systems with hysteretic elements. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1993 , 76, 1-13 | |
| 3 | Numerical analysis of bifurcations in Duffing's equation with hysteretic functions. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1992 , 75, 61-72 | 3 |
| 2 | A method for numerical analysis of bifurcation of periodic solutions in nonautonomous systems with hysteretic elements. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1991 , 74, 33-42 | 1 |
| 1 | Three dimensional ray tracing of whistler mode waves in a non-dipolar magnetosphere.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1985 , 37, 945-956 | 10 |