Oszkar Biro

List of Publications by Year in descending order

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227	4,311	147801	133252
papers	citations	31 h-index	59 g-index

230	230	230	1880
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the use of the magnetic vector potential in the finite-element analysis of three-dimensional eddy currents. IEEE Transactions on Magnetics, 1989, 25, 3145-3159.	2.1	689
2	Edge element formulations of eddy current problems. Computer Methods in Applied Mechanics and Engineering, 1999, 169, 391-405.	6.6	299
3	On the use of the magnetic vector potential in the nodal and edge finite element analysis of 3D magnetostatic problems. IEEE Transactions on Magnetics, 1996, 32, 651-654.	2.1	183
4	Finiteâ€element analysis of controlledâ€source electromagnetic induction using Coulombâ€gauged potentials. Geophysics, 2001, 66, 786-799.	2.6	168
5	Numerical analysis of 3D magnetostatic fields. IEEE Transactions on Magnetics, 1991, 27, 3798-3803.	2.1	140
6	Finite element analysis of 3-D eddy currents. IEEE Transactions on Magnetics, 1990, 26, 418-423.	2.1	117
7	Detection of brain oedema using magnetic induction tomography: a feasibility study of the likely sensitivity and detectability. Physiological Measurement, 2004, 25, 347-354.	2.1	92
8	Parameters of lossy cavity resonators calculated by the finite element method. IEEE Transactions on Magnetics, 1996, 32, 894-897.	2.1	83
9	Complex representation in nonlinear time harmonic eddy current problems. IEEE Transactions on Magnetics, 1998, 34, 2625-2628.	2.1	83
10	Different finite element formulations of 3D magnetostatic fields. IEEE Transactions on Magnetics, 1992, 28, 1056-1059.	2.1	76
11	A joint vector and scalar potential formulation for driven high frequency problems using hybrid edge and nodal finite elements. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 15-23.	4.6	75
12	Various FEM formulations for the calculation of transient 3D eddy currents in nonlinear media. IEEE Transactions on Magnetics, 1995, 31, 1307-1312.	2.1	74
13	Computation of 3-D magnetostatic fields using a reduced scalar potential. IEEE Transactions on Magnetics, 1993, 29, 1329-1332.	2.1	64
14	FEM and evolution strategies in the optimal design of electromagnetic devices. IEEE Transactions on Magnetics, 1990, 26, 2181-2183.	2.1	59
15	Performance of different vector potential formulations in solving multiply connected 3-D eddy current problems. IEEE Transactions on Magnetics, 1990, 26, 438-441.	2.1	59
16	Thermal-electromagnetic coupling in the finite-element simulation of power transformers. IEEE Transactions on Magnetics, 2006, 42, 999-1002.	2.1	58
17	Global optimization methods for computational electromagnetics. IEEE Transactions on Magnetics, 1992, 28, 1537-1540.	2.1	57
18	An efficient time domain method for nonlinear periodic eddy current problems. IEEE Transactions on Magnetics, 2006, 42, 695-698.	2.1	54

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19	An Efficient Harmonic Balance Method for Nonlinear Eddy-Current Problems. IEEE Transactions on Magnetics, 2007, 43, 1229-1232.	2.1	51
20	Measurements and Simulations of the Convective Heat Transfer Coefficients on the End Windings of an Electrical Machine. IEEE Transactions on Industrial Electronics, 2012, 59, 2299-2308.	7.9	50
21	Computation of 3-D current driven skin effect problems using a current vector potential. IEEE Transactions on Magnetics, 1993, 29, 1325-1328.	2.1	46
22	An edge finite element eddy current formulation using a reduced magnetic and a current vector potential. IEEE Transactions on Magnetics, 2000, 36, 3128-3130.	2.1	46
23	An efficient finite-element formulation without spurious modes for anisotropic waveguides. IEEE Transactions on Microwave Theory and Techniques, 1991, 39, 1133-1139.	4.6	42
24	FEM analysis of eddy current losses in nonlinear laminated iron cores. IEEE Transactions on Magnetics, 2005, 41, 1412-1415.	2.1	41
25	Voltage-driven coils in finite-element formulations using a current vector and a magnetic scalar potential. IEEE Transactions on Magnetics, 2004, 40, 1286-1289.	2.1	39
26	CAD in Electromagnetism. Advances in Electronics and Electron Physics, 1991, , 1-96.	0.6	38
27	Finite element scheme for 3D cavities without spurious modes. IEEE Transactions on Magnetics, 1991, 27, 4036-4039.	2.1	37
28	Three-Dimensional Eddy-Current Analysis in Steel Laminations of Electrical Machines as a Contribution for Improved Iron Loss Modeling. IEEE Transactions on Industry Applications, 2013, 49, 2044-2052.	4.9	37
29	Comparison of different optimization strategies in the design of electromagnetic devices. IEEE Transactions on Magnetics, 1991, 27, 4154-4157.	2.1	36
30	Multi-Objective Optimization of Yagiâ€“Uda Antenna Applying Enhanced Firefly Algorithm With Adaptive Cost Function. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	36
31	Validation of a Comprehensive Analytic Noise Computation Method for Induction Machines. IEEE Transactions on Industrial Electronics, 2012, 59, 2248-2257.	7.9	33
32	Finite Element Analysis of Three-Phase Three-Limb Power Transformers Under DC Bias. IEEE Transactions on Magnetics, 2014, 50, 565-568.	2.1	33
33	Optimal Convergence of the Fixed-Point Method for Nonlinear Eddy Current Problems. IEEE Transactions on Magnetics, 2009, 45, 948-951.	2.1	29
34	Prediction of magnetising current waveform in a single-phase power transformer under DC bias. IET Science, Measurement and Technology, 2007, 1, 2-5.	1.6	28
35	Prediction of Magnetizing Current Wave-Forms in a Three-Phase Power Transformer Under DC Bias. IEEE Transactions on Magnetics, 2008, 44, 1554-1557.	2.1	28
36	Edge finite element analysis of transient skin effect problems. IEEE Transactions on Magnetics, 2000, 36, 835-839.	2.1	27

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37	A FEM formulation to treat 3D eddy currents in laminations. IEEE Transactions on Magnetics, 2000, 36, 1289-1292.	2.1	26
38	The Coulomb gauged vector potential formulation for the eddy-current problem in general geometry: Well-posedness and numerical approximation. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1890-1904.	6.6	26
39	Computation of Rotating Force Waves in Skewed Induction Machines Using Multi-Slice Models. IEEE Transactions on Magnetics, 2011, 47, 1046-1049.	2.1	26
40	Finite element solution of nonlinear eddy current problems with periodic excitation and its industrial applications. Applied Numerical Mathematics, 2014, 79, 3-17.	2.1	25
41	Planar gradiometer for magnetic induction tomography (MIT): theoretical and experimental sensitivity maps for a low-contrast phantom. Physiological Measurement, 2004, 25, 325-333.	2.1	24
42	Weak Coupling Between Electromagnetic and Structural Models for Electrical Machines. IEEE Transactions on Magnetics, 2010, 46, 2807-2810.	2.1	24
43	Numerical Simulation and Experimental Validation of Coupled Flow, Heat Transfer and Electromagnetic Problems in Electrical Transformers. Archives of Computational Methods in Engineering, 2009, 16, 319-355.	10.2	23
44	A finite element formulation for eddy current carrying ferromagnetic thin sheets. IEEE Transactions on Magnetics, 1997, 33, 1173-1178.	2.1	22
45	Gauged current vector potential and reentrant corners in the FEM analysis of 3D eddy currents. IEEE Transactions on Magnetics, 2000, 36, 840-843.	2.1	22
46	A Strategy to Improve the Convergence of the Fixed-Point Method for Nonlinear Eddy Current Problems. IEEE Transactions on Magnetics, 2008, 44, 1282-1285.	2.1	22
47	Anisotropic Generalization of Vector Preisach Hysteresis Models for Nonoriented Steels. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	21
48	Nodal and edge element analysis of inhomogeneously loaded 3D cavities. IEEE Transactions on Magnetics, 1992, 28, 1142-1145.	2.1	20
49	Application of FEM to coupled electric, thermal and mechanical problems. IEEE Transactions on Magnetics, 1994, 30, 3316-3319.	2.1	20
50	On the Convergence of Transient Eddy-Current Problems. IEEE Transactions on Magnetics, 2004, 40, 957-960.	2.1	20
51	A FEM method for eddy current analysis in laminated media. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 241-248.	0.9	20
52	FEM calculation of eddy current losses and forces in thin conducting sheets of test facilities for fusion reactor components. IEEE Transactions on Magnetics, 1992, 28, 1509-1512.	2.1	19
53	Calculation of Losses in Laminated Ferromagnetic Materials. IEEE Transactions on Magnetics, 2004, 40, 924-927.	2.1	19
54	Analysis of Temperature Distribution in the Stator of Large Synchronous Machines Considering Heat Conduction and Heat Convection. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	19

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55	An electromagnetic field analysis tool in education. IEEE Transactions on Magnetics, 2002, 38, 1317-1320.	2.1	18
56	Simulation of Crosstalk on Printed Circuit Boards by FDTD, FEM, and a Circuit Model. IEEE Transactions on Magnetics, 2008, 44, 1486-1489.	2.1	18
57	Perfectly matched layers in static fields. IEEE Transactions on Magnetics, 1998, 34, 2433-2436.	2.1	17
58	Discontinuous Galerkin Finite Elements in Time Domain Eddy-Current Problems. IEEE Transactions on Magnetics, 2009, 45, 1300-1303.	2.1	17
59	A Model Order Reduction Method for Efficient Band Structure Calculations of Photonic Crystals. IEEE Transactions on Magnetics, 2011, 47, 1534-1537.	2.1	17
60	Numerical and experimental investigation of the structural characteristics of stator core stacks. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1643-1664.	0.9	17
61	FEM simulation of thermistors including dielectric effects. IEEE Transactions on Magnetics, 2003, 39, 1733-1736.	2.1	16
62	Fast Time-Domain Finite Element Analysis of 3-D Nonlinear Time-Periodic Eddy Current Problems With ${m T},Phi-Phi$ Formulation. IEEE Transactions on Magnetics, 2011, 47, 1170-1173.	2.1	16
63	3-D Finite Element Analysis of Additional Eddy Current Losses in Induction Motors. IEEE Transactions on Magnetics, 2012, 48, 959-962.	2.1	16
64	Use of a two-component vector potential for 3-D eddy current calculations. IEEE Transactions on Magnetics, 1988, 24, 102-105.	2.1	14
65	Nodal and edge element analysis of inhomogeneously loaded waveguides. IEEE Transactions on Magnetics, 1993, 29, 1466-1469.	2.1	13
66	Calculation of load-dependent equivalent circuit parameters of squirrel cage induction motors using time-harmonic FEM. , 2008, , .		13
67	Identifying the heat transfer coefficients on the end-windings of an electrical machine by measurements and simulations. , 2010, , .		13
68	Influence of the Non-Linear UHF-RFID IC Impedance on the Backscatter Abilities of a T-Match Tag Antenna Design. IEEE Transactions on Magnetics, 2012, 48, 755-758.	2.1	13
69	A Finite Element-Based Circuit Model Approach for Skewed Electrical Machines. IEEE Transactions on Magnetics, 2014, 50, 837-840.	2.1	13
70	Numerical analysis of steady-state operation of three-phase induction machines by an approximate frequency domain technique1. Elektrotechnik Und Informationstechnik, 2011, 128, 81-85.	1.1	12
71	An improved physical phase variable model for permanent magnet machines. , 2012, , .		12
72	A modified elliptic model of anisotropy in nonlinear magnetic materials. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 1482-1492.	0.9	11

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73	Frequency Domain Evaluation of Transient Finite Element Simulations of Induction Machines. IEEE Transactions on Magnetics, 2012, 48, 851-854.	2.1	11
74	Evaluation of interlaminar eddy currents in induction machines. , 2013, , .		11
75	Multi-Objective Synthesis of NFC-Transponder Systems Based on PEEC Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	11
76	Electrode positioning to investigate the changes of the thoracic bioimpedance caused by aortic dissection â€“ a simulation study. Journal of Electrical Bioimpedance, 2020, 11, 38-48.	0.9	11
77	Estimation of 3â€D eddy currents in conducting laminations by an anisotropic conductivity and a 1â€D analytical model. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1999, 18, 494-503.	0.9	10
78	Time-domain analysis of quasistatic electric fields in media with frequency-dependent permittivity. IEEE Transactions on Magnetics, 2004, 40, 1302-1305.	2.1	10
79	Improvement of the Finite-Element Analysis of 3-D, Nonlinear, Periodic Eddy Current Problems Involving Voltage-Driven Coils Under DC Bias. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	10
80	Derivation of a complex permeability from the Preisach model. IEEE Transactions on Magnetics, 2002, 38, 905-908.	2.1	9
81	Electromagnetic field computation of simple structures on printed circuit boards by the finite-element method. IEEE Transactions on Magnetics, 2006, 42, 815-818.	2.1	9
82	Fixedâ€point method for solving non linear periodic eddy current problems with T, Î¦â€Î¦ formulation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 1444-1452.	0.9	9
83	Parameter identification of a finite element based model of wound rotor induction machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1665-1678.	0.9	9
84	Finite Element Simulation of Impedance Measurement Effects of NFC Antennas. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	9
85	Transient Behavior of Large Transformer Windings Taking Capacitances and Eddy Currents Into Account. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	9
86	Improved finite element formulation for dielectric loaded waveguides. IEEE Transactions on Magnetics, 1990, 26, 450-453.	2.1	8
87	Parameter estimation for PMLs used with 3D finite element codes. IEEE Transactions on Magnetics, 1998, 34, 2755-2758.	2.1	8
88	A proof of the perfect matching property of PMLs in static fields. IEEE Transactions on Magnetics, 1999, 35, 1139-1142.	2.1	8
89	Smoothing operators for edge element multigrid [magnetostatics]. IEEE Transactions on Magnetics, 2002, 38, 397-400.	2.1	8
90	Eddy Current Losses in Large Air Coils With Layered Stranded Conductors. IEEE Transactions on Magnetics, 2008, 44, 1318-1321.	2.1	8

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91	Characterizing the heat transfer on the end-windings of an electrical machine for transient simulations. , 2010, , .		8
92	3-D FE Method Analysis of Static Fields for Non-Conforming Meshes With Second-Order Node-Based Elements. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
93	Numerical Simulation of Conductivity Changes in the Human Thorax Caused by Aortic Dissection. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	8
94	Finite element analysis of multiport filters using perfectly matched layers. IEEE Transactions on Magnetics, 1997, 33, 1480-1483.	2.1	7
95	Vector potential expanded by edge basis functions associated with loops on finite-element facets. IEEE Transactions on Magnetics, 2002, 38, 437-440.	2.1	7
96	Multigrid for time-harmonic 3-D eddy-current analysis with edge elements. IEEE Transactions on Magnetics, 2005, 41, 1712-1715.	2.1	7
97	Optimal fixedâ€point method for solving 3D nonlinear periodic eddy current problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 1059-1067.	0.9	7
98	3-D eddy current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling. , 2012, , .		7
99	Finite element analysis of 3D multiply connected eddy current problems. IEEE Transactions on Magnetics, 1989, 25, 4009-4011.	2.1	6
100	A deterministic approach to the analysis of three-dimensional waveguide configurations by finite elements and mode matching. IEEE Transactions on Magnetics, 1992, 28, 1235-1238.	2.1	6
101	Multigrid for transient 3D eddy current analysis. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2003, 22, 779-788.	0.9	6
102	Numerical analysis of permanent-magnet motor performance considering rotor movement. IEEE Transactions on Magnetics, 2005, 41, 2004-2007.	2.1	6
103	Use of an optimization algorithm in designing medium-voltage switchgear insulation elements. IEEE Transactions on Magnetics, 2006, 42, 1347-1350.	2.1	6
104	Determination of the starting and operational characteristics of a large squirrel cage induction motor using harmonic and transient FEM. , 2008, , .		6
105	Application of the Hybrid Multiobjective Optimization Methods on the Capacitive Voltage Divider. IEEE Transactions on Magnetics, 2009, 45, 1594-1597.	2.1	6
106	Computation of the noise radiation of an induction machine using 3D FEM/BEM. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1737-1750.	0.9	6
107	Frequency Domain Decomposition of 3-D Eddy Current Problems in Steel Laminations of Induction Machines. IEEE Transactions on Magnetics, 2014, 50, 901-904.	2.1	6
108	Comparison of CFD analyzing strategies for hydro generators. , 2014, , .		6

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109	Characteristics of the Convective Heat Transfer Coefficient at the End Winding of a Hydro Generator. Journal of Thermal Science and Engineering Applications, 2015, 7, .	1.5	6
110	PEEC-Based Multi-Objective Synthesis of Non-Uniformly Spaced Linear Antenna Arrays. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	6
111	Transient 3D eddy current calculations in fusion reactors. IEEE Transactions on Magnetics, 1990, 26, 2364-2366.	2.1	5
112	On the treatment of sharp corners in the FEM analysis of high frequency problems. IEEE Transactions on Magnetics, 1994, 30, 3108-3111.	2.1	5
113	Nonlinear periodic eddy currents in single and multiconductor systems. IEEE Transactions on Magnetics, 1996, 32, 780-783.	2.1	5
114	A virtual electromagnetic laboratory for the classroom and the WWW. IEEE Transactions on Magnetics, 1997, 33, 1990-1993.	2.1	5
115	Time harmonic eddy currents in nonâ€linear media. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1998, 17, 567-575.	0.9	5
116	A/sub r/ formulation using edge elements, for the calculation of 3-D fields in superconducting magnets. IEEE Transactions on Magnetics, 1999, 35, 1391-1393.	2.1	5
117	Edge element multigrid solution of nonâ€linear magnetostatic problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 357-364.	0.9	5
118	Frequency and time domain analysis of nonlinear periodic electromagnetic problems. , 2007, , .		5
119	Generating Source Field Functions With Limited Support for Edge Finite-Element Eddy Current Analysis. IEEE Transactions on Magnetics, 2007, 43, 1165-1168.	2.1	5
120	Potential Control Inside Switch Device Using FEM and Stochastic Optimization Algorithm. IEEE Transactions on Magnetics, 2007, 43, 1757-1760.	2.1	5
121	Investigation of UHF Circular Loop Antennas for RFID. IEEE Transactions on Magnetics, 2010, 46, 3309-3312.	2.1	5
122	Analysis of synchronous generator end-winding deformations using 3-D time-harmonic FEM. , 2010, , .		5
123	Electromagnetic forces in synchronous turbogenerator rotor slot wedges. , 2011, , .		5
124	Validation of measurements with conjugate heat transfer models. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1707-1720.	0.9	5
125	An extended finite element based model approach for permanent magnet synchronous machines including rotor eccentricity. , 2013, , .		5
126	Validation of Numerical Approaches for Simulating the Heat Transfer in Stator Ducts With Measurements. IEEE Transactions on Magnetics, 2014, 50, 261-264.	2.1	5

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127	Investigation of SPICE Models for Overvoltage Protection Devices With Respect to Fast Transients. IEEE Letters on EMC Practice and Applications, 2019, 1, 20-25.	1.1	5
128	Distributed processing of FEM in a local area network (magnetostatics). IEEE Transactions on Magnetics, 1990, 26, 827-830.	2.1	4
129	Computer animation of electromagnetic phenomena. IEEE Transactions on Magnetics, 1995, 31, 1714-1717.	2.1	4
130	Calculation of antenna near field reactions on low conducting materials using the finite element method. IEEE Transactions on Magnetics, 1996, 32, 862-865.	2.1	4
131	Partial discharges in insulation of medium voltage systems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 473-481.	0.9	4
132	Computation of the flux linkage of windings from magnetic scalar potential finite element solutions. IET Science, Measurement and Technology, 2002, 149, 182-185.	0.7	4
133	Computation of temperature rise in transformer bushing adapters. , 0, , .		4
134	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
135	Effect of stray capacitances on bio-impedances in quasi-static electric field. IEEE Transactions on Magnetics, 2005, 41, 1940-1943.	2.1	4
136	Transfinite Element Method Using the ${f A}$, v-Potential Formulation With Edge Elements in the Frequency Domain. IEEE Transactions on Magnetics, 2007, 43, 1349-1352.	2.1	4
137	Direct steady-state computation of mechanical vibrations in electrical machines. , 2008, , .		4
138	Characterizing the convective wall heat transfer on convoluted shapes in the end-region of an induction machine. , 2012, , .		4
139	Consideration of rotor eccentricity effects in a multi body dynamics simulation using a finite element based circuit model approach. , 2014, , .		4
140	Finite Element Implementation of the Iterative Scalar Potential Method for the Computation of Eddy Currents. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	4
141	Calculation of the eddy current distribution in the disk of single-phase kilowatt-hour meter by variational method. IEEE Transactions on Magnetics, 1986, 22, 113-117.	2.1	3
142	Investigation of the resonance behavior of a MR-birdcage applying a 3-D-FEM code. IEEE Transactions on Magnetics, 2001, 37, 3688-3692.	2.1	3
143	Edge finite elements coupled with a circuit for wave problems. , 2007, , .		3
144	Discontinuous Galerkin formulation for eddyâ€current problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 1081-1090.	0.9	3

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145	Calculation of loadâ€dependent equivalent circuit parameters of squirrel cage induction motors using timeâ€harmonic FEM. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 1331-1344.	0.9	3
146	Numerical simulation of the end-winding deformations in the synchronous machine under symmetrical short-circuit conditions using FEM*. Elektrotechnik Und Informationstechnik, 2011, 128, 161-166.	1.1	3
147	Numerical simulation of electromagnetic and mechanical phenomena in the end-winding region of three-phase induction machines*. Elektrotechnik Und Informationstechnik, 2011, 128, 167-173.	1.1	3
148	Numerical investigation of the 3D vibrational behaviour of skewed induction machines due to rotating force waves. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1503-1512.	0.9	3
149	Geometric Multigrid With Plane Smoothing for Thin Elements in 3-D Magnetic Fields Calculation. IEEE Transactions on Magnetics, 2012, 48, 443-446.	2.1	3
150	Limitations of the pattern multiplication technique for uniformly spaced linear antenna arrays. , 2016, , .		3
151	A nonlinear magnetic circuit model for periodic eddy current problems using T,Ï•-Ï• formulation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 649-664.	0.9	3
152	Synthesis of NFC antenna structure under multi-card condition. , 2018, , .		3
153	Finite element analysis of cable shields to investigate the behavior of the transfer impedance with respect to fast transients. , 2019, , .		3
154	Improved Coupling Strategy to Cover Curved FE-Facets in the Non-Conforming Mesh Method. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	3
155	Proper Generalized Decomposition With Cauer Ladder Network Applied to Eddy Current Problems. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	3
156	An implementation of multigrid for 2D edge elements. Pollack Periodica, 2009, 4, 37-44.	0.4	3
157	Calculation of the torque-RPM characteristics of power-meters. IEEE Transactions on Magnetics, 1988, 24, 541-543.	2.1	2
158	FEM computation of the forces on the arc of a DC-furnace. IEEE Transactions on Magnetics, 1994, 30, 3507-3510.	2.1	2
159	Numerical simulation and design of a fluxset sensor by finite element method. IEEE Transactions on Magnetics, 1998, 34, 3475-3478.	2.1	2
160	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
161	Virtual Design of Insulation Elements Based on FEM and Automated Optimization Process. , 0, , .		2
162	A multigrid solver for time harmonic three-dimensional electromagnetic wave problems. IEEE Transactions on Magnetics, 2006, 42, 639-642.	2.1	2

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163	Numerische und Experimentelle Modalanalyse eines Statorblechpaketes. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 245-246.	0.2	2
164	Transient electromagnetic field, losses and forces in a synchronous turbogenerator rotor. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 794-808.	0.9	2
165	Development of a new simulation tool for computation of the synchronous generator end-winding deformations. , 2013, , .		2
166	Characterizing the convective heat transfer on stator ventilation ducts for large hydro generators with a neural network. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1522-1536.	0.9	2
167	A Transient Current Vector Potential to Consider the Rotor Excitation of Synchronous Machines Under Short Circuit Condition. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
168	Computation and Analysis of DC-Biased Eddy Current Problems by an Efficient Fixed-Point Technique in the Harmonic Domain. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
169	Effects of inverter supply on the iron loss characteristics of doubly fed induction machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1460-1474.	0.9	2
170	Comparison of two formulations taking account of 3D motion induced eddy currents. , 2016, , .		2
171	FEM-Based Computation of Circuit Parameters for Testing Fast Transients for EMC Problems. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
172	Comparison of 2 methods for the finite element steadyâ€state analysis of nonlinear 3D periodic eddyâ€current problems using the A,Vâ^' formulation. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2279.	1.9	2
173	Computation of 3-D Magnetostatic fields using a reduced scalar potential. , 0, , .		1
174	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
175	Comparison of tetrahedral edge finite-elements using different potential formulations. IEEE Transactions on Magnetics, 2005, 41, 1676-1679.	2.1	1
176	An Efficient Harmonic Balance Method for Nonlinear Eddy Current Problems. , 0, , .		1
177	A Multigrid Algorithm for the Transfinite-Element Time-Domain Method Using the ${f A}, V$-Formulation. IEEE Transactions on Magnetics, 2007, 43, 1353-1356.	2.1	1
178	Validation of a comprehensive analytic approach to determine the noise behaviour of induction machines. , 2010, , .		1
179	Fast time-domain finite element analysis of 3D nonlinear time-periodic eddy current problems with T,Đ-Đ formulation. , 2010, , .		1
180	Measurements and simulations of the heat transfer on end windings of an induction machine. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1727-1736.	0.9	1

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181	Three-dimensional time-harmonic eddy current problems solved by the geometric multigrid preconditioned conjugate gradient method. IET Science, Measurement and Technology, 2012, 6, 319.	1.6	1
182	Experimental investigation of the 3D vibrational behaviour of an induction machine. , 2012, , .		1
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