Hajime Igarashi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fast 3-D Optimization of Magnetic Cores for Loss and Volume Reduction. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	943
2	Multimaterial Topology Optimization of Electric Machines Based on Normalized Gaussian Network. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	101
3	Topology Optimization Accelerated by Deep Learning. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	99
4	Multi-Objective Topology Optimization of Rotating Machines Using Deep Learning. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	71
5	Semi-Analytical Approach for Finite-Element Analysis of Multi-Turn Coil Considering Skin and Proximity Effects. IEEE Transactions on Magnetics, 2017, 53, 1-7.	1.2	68
6	Optimization of Inductors Using Evolutionary Algorithms and Its Experimental Validation. IEEE Transactions on Magnetics, 2010, 46, 3393-3396.	1.2	64
7	Estimation of effective permeability of magnetic composite materials. IEEE Transactions on Magnetics, 2005, 41, 1520-1523.	1.2	52
8	On the property of the curl-curl matrix in finite element analysis with edge elements. IEEE Transactions on Magnetics, 2001, 37, 3129-3132.	1.2	51
9	On convergence of ICCG applied to finite-element equation for quasi-static fields. IEEE Transactions on Magnetics, 2002, 38, 565-568.	1.2	50
10	Model Reduction of Three-Dimensional Eddy Current Problems Based on the Method of Snapshots. IEEE Transactions on Magnetics, 2013, 49, 1697-1700.	1.2	48
11	Topology Optimization of Synchronous Reluctance Motor Using Normalized Gaussian Network. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	48
12	Topology Optimization Method Based on On–Off Method and Level Set Approach. IEEE Transactions on Magnetics, 2014, 50, 617-620.	1.2	47
13	Transfer Learning Through Deep Learning: Application to Topology Optimization of Electric Motor. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	44
14	Optimization of Cost Functions Using Evolutionary Algorithms With Local Learning and Local Search. IEEE Transactions on Magnetics, 2007, 43, 1641-1644.	1.2	37
15	Novel Hybridization of Parameter and Topology Optimizations: Application to Permanent Magnet Motor. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	36
16	Coupled Analysis of Electromagnetic Vibration Energy Harvester With Nonlinear Oscillation. IEEE Transactions on Magnetics, 2014, 50, 313-316.	1.2	34
17	An Effective Robust Optimization Based on Genetic Algorithm. IEEE Transactions on Magnetics, 2008, 44, 990-993.	1.2	33
18	A 3-D Topology Optimization of Magnetic Cores for Wireless Power Transfer Device. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	32

#	Article	IF	CITATIONS
19	Eddy Current Analysis of Litz Wire Using Homogenization-Based FEM in Conjunction With Integral Equation. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	31
20	Analysis of magnetic shielding effect of layered shields based on homogenization. IEEE Transactions on Magnetics, 2006, 42, 847-850.	1.2	30
21	Generation of Equivalent Circuit From Finite-Element Model Using Model Order Reduction. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	28
22	Fast Finite-Element Analysis of Motors Using Block Model Order Reduction. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	25
23	Thermal and Electromagnetic Simulation of Multistacked No-Insulation REBCO Pancake Coils on Normal-State Transition by PEEC Method. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	25
24	Fast 3-D Analysis of Eddy Current in Litz Wire Using Integral Equation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	23
25	Synthesis of Cauer-Equivalent Circuit Based on Model Order Reduction Considering Nonlinear Magnetic Property. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	23
26	Design of mixed H2/Hâ^ž control systems using algorithms inspired by the immune system. Information Sciences, 2007, 177, 4368-4386.	4.0	22
27	Effect of Magnetic Contact on Macroscopic Permeability of Soft Magnetic Composite. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	22
28	Explainable Deep Neural Network for Design of Electric Motors. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	22
29	A boundary element method for potential fields with corner singularities. Applied Mathematical Modelling, 1996, 20, 847-852.	2.2	21
30	Fast Shape Optimization of Antennas Using Model Order Reduction. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	21
31	Topology Optimization Using Basis Functions for Improvement of Rotating Machine Performances. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	20
32	Analysis of Magnetic Properties of Soft Magnetic Composite Using Discrete Element Method. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	20
33	Computation of Macroscopic Electromagnetic Properties of Soft Magnetic Composite. IEEE Transactions on Magnetics, 2013, 49, 1953-1956.	1.2	19
34	Loss Computation of Soft Magnetic Composite Inductors Based on Interpolated Scalar Magnetic Property. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	19
35	A chaotic vibration energy harvester using magnetic material. Smart Materials and Structures, 2015, 24, 025033.	1.8	19
36	Topology optimization of IPM motor with aid of deep learning. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 87-96.	0.3	18

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37	Inverse inference of magnetization distribution in cylindrical permanent magnets. IEEE Transactions on Magnetics, 2000, 36, 1168-1171.	1.2	17
38	An Optimal Configuration Design Method for HTS-SMES Coils Taking Account of Thermal and Electromagnetic Characteristics. IEEE Transactions on Applied Superconductivity, 2008, 18, 762-765.	1.1	17
39	Complex Adjoint Variable Method for Finite-Element Analysis of Eddy Current Problems. IEEE Transactions on Magnetics, 2010, 46, 2739-2742.	1.2	17
40	Equivalent-Circuit Generation From Finite-Element Solution Using Proper Orthogonal Decomposition. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	17
41	Numerical Investigation of Metal Insulation Technique on Turn-to-Turn Contact Resistance of REBCO Pancake Coils. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	17
42	Optimization of Meander Line Antenna Considering Coupling Between Nonlinear Circuit and Electromagnetic Waves for UHF-Band RFID. IEEE Transactions on Magnetics, 2011, 47, 1506-1509.	1.2	16
43	Meander Line Antenna Design Using an Adaptive Genetic Algorithm. IEEE Transactions on Magnetics, 2013, 49, 1889-1892.	1.2	15
44	Investigation of Current Flow Between Turns of NI REBCO Pancake Coil by 2-D Finite-Element Method. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	15
45	Shape Optimization of Wideband Antennas for Microwave Energy Harvesters Using FDTD. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	14
46	Shape Optimization of Rotor in Interior Permanent Magnet Motor Based on Topology OptimizationMethod Using Normalized Gaussian Network. IEEJ Transactions on Industry Applications, 2015, 135, 291-298.	0.1	13
47	Prediction of IPM Machine Torque Characteristics Using Deep Learning Based on Magnetic Field Distribution. IEEE Access, 2022, 10, 60814-60822.	2.6	13
48	Fundamental solutions of the axisymmetric Helmholtz-type equations. Applied Mathematical Modelling, 1990, 14, 605-611.	2.2	12
49	Evolutional Design of Small Antennas for Passive UHF-Band RFID. IEEE Transactions on Magnetics, 2011, 47, 1510-1513.	1.2	12
50	Numerical simulation of screening current distribution in HTS tape of high field magnet. Physica C: Superconductivity and Its Applications, 2013, 484, 300-304.	0.6	12
51	A modified immune algorithm with spatial filtering for multiobjective topology optimisation of electromagnetic devices. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 821-833.	0.5	12
52	Topology Optimization of Synchronous Reluctance Motors Considering Localized Magnetic Degradation Caused by Punching. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	12
53	Time-Domain Analysis of Soft Magnetic Composite Using Equivalent Circuit Obtained via Homogenization. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	12
54	Accelerated FDTD Analysis of Antennas Loaded by Electric Circuits. IEEE Transactions on Antennas and Propagation, 2012, 60, 958-963.	3.1	11

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55	Voxel Based Finite Element Method Using Homogenization. IEEE Transactions on Magnetics, 2012, 48, 543-546.	1.2	11
56	Direct synthesis of equivalent circuits from reduced FE models using proper orthogonal decomposition. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 2035-2044.	0.5	11
57	Adaptive Subdomain Model Order Reduction With Discrete Empirical Interpolation Method for Nonlinear Magneto-Quasi-Static Problems. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	11
58	Topology Optimization Using Gabor Filter: Application to Synchronous Reluctance Motor. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	11
59	Analysis of Litz Wire Losses Using Homogenization-Based FEM. IEEE Transactions on Magnetics, 2021, 57, 1-9.	1.2	11
60	Prediction of Current-Dependent Motor Torque Characteristics Using Deep Learning for Topology Optimization. IEEE Transactions on Magnetics, 2022, 58, 1-4.	1.2	11
61	Effect of Preconditioning in Edge-Based Finite-Element Method. IEEE Transactions on Magnetics, 2008, 44, 942-945.	1.2	10
62	Deflation Techniques for Computational Electromagnetism: Theoretical Considerations. IEEE Transactions on Magnetics, 2011, 47, 1438-1441.	1.2	10
63	Synthesis of Equivalent Circuit of Wireless Power Transfer Device Using Homogenization-Based FEM. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	10
64	Strategies for the Accurate Computation of Potential Derivatives in Boundary Element Method: Application to Two-Dimensional Problems. Journal of Computational Physics, 1995, 119, 244-251.	1.9	9
65	Generating Parametric Design Models Using Information From Topology Optimization. IEEE Transactions on Magnetics, 2008, 44, 986-989.	1.2	9
66	Multiobjective Optimization Using Compromise Programming and an Immune Algorithm. IEEE Transactions on Magnetics, 2008, 44, 982-985.	1.2	9
67	Screening Current Simulation Inside YBCO Tape in Charging YBCO Magnet. IEEE Transactions on Applied Superconductivity, 2013, 23, 4600905-4600905.	1.1	9
68	Robust Optimization Considering Probabilistic Magnetic Degradation. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	9
69	Optimization of Planar Magnet Array Using Digital Annealer. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	9
70	Fast Analysis of Rotating Machine Using Simplified Model-Order Reduction Based on POD. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	9
71	Model Order Reduction for Linear Time-Invariant System With Symmetric Positive-Definite Matrices: Synthesis of Cauer-Equivalent Circuit. IEEE Transactions on Magnetics, 2020, 56, 1-8.	1.2	9
72	Deep learning-based surrogate model for fast multi-material topology optimization of IPM motor. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2022, 41, 900-914.	0.5	9

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73	Influence of Magnetic Property of Ferromagnetic Shield on High Field Magnet Analysis. IEEE Transactions on Applied Superconductivity, 2011, 21, 2088-2091.	1.1	8
74	Analysis of nonlinear magnetic properties of soft magnetic composite using 2D and 3D discrete element methods. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 483-492.	0.3	8
75	Fast Multi-Objective Optimization of Electromagnetic Devices Using Adaptive Neural Network Surrogate Model. IEEE Transactions on Magnetics, 2022, 58, 1-9.	1.2	8
76	Automatic Design of PM Motor Using Monte Carlo Tree Search in Conjunction With Topology Optimization. IEEE Transactions on Magnetics, 2022, 58, 1-4.	1.2	8
77	3D topology optimization using an immune algorithm. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 677-688.	0.5	7
78	Evolutional Design of Waveguide Slot Antenna With Dielectric Lenses. IEEE Transactions on Magnetics, 2012, 48, 779-782.	1.2	7
79	A New Wideband Electromagnetic Vibration Energy Harvester with Chaotic Oscillation. Journal of Physics: Conference Series, 2013, 476, 012129.	0.3	7
80	3-D Analysis of Soft Magnetic Composite Using Discrete Element Method in Frequency Domain. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	7
81	Overturning Force Simulation on Chain of Quenches of Toroidal HTS-SMES. IEEE Transactions on Applied Superconductivity, 2012, 22, 4701904-4701904.	1.1	6
82	Characteristic Analysis of Directly Coupled HTS dc-SQUID Magnetometer With Superconducting Film Magnetic-Shield Considering Josephson-Junction Resistance. IEEE Transactions on Magnetics, 2012, 48, 571-574.	1.2	6
83	Current Behavior Simulation in Stacked NI REBCO Pancake Coils During Local Normal-State Transition. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	6
84	Identification of Magnetization Characteristics of Material From Measured Inductance Data. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	6
85	Development of Small Dielectric Lens for Slot Antenna Using Topology Optimization with Normalized Gaussian Network. IEICE Transactions on Electronics, 2018, E101.C, 784-790.	0.3	6
86	Multi-objective topology optimization of magnetic couplers for wireless power transfer. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 325-333.	0.3	6
87	2.5-D Multi-Phase Topology Optimization of Permanent Magnet Motor Using Gaussian Basis Function. IEEE Transactions on Magnetics, 2022, 58, 1-4.	1.2	6
88	Neural Network for Both Metal Object Detection and Coil Misalignment Prediction in Wireless Power Transfer. IEEE Transactions on Magnetics, 2022, 58, 1-4.	1.2	6
89	A study on automatic parking for automobiles using Rational Policy Making Method. , 2008, ,		5
90	Hybrid Estimation of Distribution Algorithm Using Local Function Approximations. IEEE Transactions on Magnetics, 2009, 45, 1558-1561.	1.2	5

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91	Semi-Three-Dimensional Visualization of Electromagnetic Field Analysis Result With Volumetric Display. IEEE Transactions on Magnetics, 2011, 47, 1330-1333.	1.2	5
92	Simulation of Chain of Quenches on Toroidal HTS-SMES Taking Account of \$B-J-heta\$ Characteristics. IEEE Transactions on Applied Superconductivity, 2012, 22, 4701604-4701604.	1.1	5
93	Why Error Correction Methods Realize Fast Computations. IEEE Transactions on Magnetics, 2012, 48, 415-418.	1.2	5
94	Model order reduction for moving objects: fast simulation of vibration energy harvesters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1623-1636.	0.5	5
95	Numerical Simulation of DC SQUID Taking Into Account Quantum Characteristic of Josephson Junction. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	5
96	Homogenization Method Based on Model Order Reduction for FE Analysis of Multi-Turn Coils. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	5
97	Properties of chaotic vibration energy harvester: comparison of numerical results with experiments. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2205.	1.2	5
98	Three-Dimensional Shape Optimization of Claw-Pole-Motors. Journal of Advanced Simulation in Science and Engineering, 2018, 4, 64-77.	0.1	5
99	3-D Topology Optimization of Claw-Pole Alternator Using Gaussian-Basis Function With Global and Local Searches. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	5
100	Cauer-Equivalent Circuit for Inductors Considering Hysteresis Magnetic Properties for SPICE Simulation. IEEE Transactions on Power Electronics, 2020, 35, 9661-9668.	5.4	5
101	Optimization of Router Deployment for Sensor Networks Using Genetic Algorithm. Lecture Notes in Computer Science, 2014, , 468-479.	1.0	5
102	Topology Optimization of Permanent Magnet Synchronous Motor Considering the Control System. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	5
103	Topology Optimization of Electromagnetic Devices Using Digital Annealer. IEEE Transactions on Magnetics, 2022, 58, 1-4.	1.2	5
104	Operating Property Analysis of Parallelized Resistive Fault Current Limiter Using YBCO Thin Films. IEEE Transactions on Applied Superconductivity, 2007, 17, 1835-1838.	1.1	4
105	Robustness of Nested Multigrid Method for Edge-Based Finite Element Analysis. IEEE Transactions on Magnetics, 2009, 45, 1088-1091.	1.2	4
106	A robust optimization based on adjoint variable method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 1524-1532.	0.5	4
107	An Improvement of Convergence in Finite Element Analysis With Infinite Element Using Deflation. IEEE Transactions on Magnetics, 2012, 48, 667-670.	1.2	4
108	A New Acceleration Factor Decision Method for ICCG Method Based on Condition Number. IEEE Transactions on Magnetics, 2012, 48, 519-522.	1.2	4

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109	Performance of 3-D Infinite Elements for High-Frequency Electromagnetic Fields. IEEE Transactions on Magnetics, 2013, 49, 1673-1676.	1.2	4
110	Numerical Simulation of SQUID Magnetometer Considering Equivalent Electrical Circuit of Josephson Junction. Physics Procedia, 2014, 58, 200-203.	1.2	4
111	Topology Optimization of Magnetic Couplers for Wireless Power Transfer Considering Electromagnetic Shields. , 2019, , .		4
112	Synthesis of a Cauer Equivalent Circuit for Electric Devices From Computed and Measured Data. IEEE Transactions on Power Electronics, 2021, 36, 4513-4521.	5.4	4
113	Optimization of Sensor Network Topology in Deployed in Inhomogeneous Lossy Media. Telkomnika (Telecommunication Computing Electronics and Control), 2015, 13, 469.	0.6	4
114	Direct Inverse Modeling for Electromagnetic Components Using Gaussian Kernel Regression. IEEE Transactions on Magnetics, 2022, 58, 1-8.	1.2	4
115	Asymmetrical Normal Zone Propagation Analysis Considering Hall Effect for Large Aluminum Stabilized Superconductor. IEEE Transactions on Applied Superconductivity, 2007, 17, 2490-2493.	1.1	3
116	An image recognition based on neural oscillator network. , 2010, , .		3
117	Magnetic Shielding Simulation of Superconducting Film Magnetic Shield Covering Directly Coupled HTS dc-SQUID Magnetometer. Physics Procedia, 2012, 36, 138-143.	1.2	3
118	The Parallelized Automatic Mesh Generation Using Dynamic Bubble System With GPGPU. IEEE Transactions on Magnetics, 2013, 49, 1677-1680.	1.2	3
119	Normal Transition Simulation on Toroidal HTS-SMES Considering Electromagnetic and Thermal Characteristics. IEEE Transactions on Applied Superconductivity, 2013, 23, 4700505-4700505.	1.1	3
120	Classification and Size Estimation of Wafer Defects by Using Scattered Light Distribution. Electronics and Communications in Japan, 2015, 98, 36-43.	0.3	3
121	Numerical Electromagnetic Simulation of Effective Partial-insulation NbTi Superconducting Coil. Physics Procedia, 2015, 65, 233-236.	1.2	3
122	3-D topology optimization of magnetic cores for wireless power transfer with double-sided winding coils. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, S115-S123.	0.3	3
123	Reduction of Eddy Current Loss in Rectangular Coils Using Magnetic Shield: Analysis With Homogenization Method. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	3
124	Homogenization Method Based on Cauer Circuit via Unit Cell Approach. IEEE Transactions on Magnetics, 2020, 56, 1-5.	1.2	3
125	Equivalent Circuit Allowing Loss Separation Synthesized From Field Computations: Application to Induction Heating. IEEE Transactions on Magnetics, 2020, 56, 1-5.	1.2	3
126	Topology Optimization of Rotation Machine using On-Off Method with Variable Design Region. IEEJ Transactions on Power and Energy, 2017, 137, 208-215.	0.1	3

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127	An Automatic Hexahedral Mesh Generation to Control Shape of Elements. IEEE Transactions on Magnetics, 2007, 43, 1505-1508.	1.2	2
128	Multigrid Method With Adaptive IDR-Based Jacobi Smoother. IEEE Transactions on Magnetics, 2011, 47, 1210-1213.	1.2	2
129	Double antennas for passive long range UHF-band RFID. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 671-676.	0.3	2
130	Pareto optimization of antennas for passive UHF-band RFID. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 747-752.	0.3	2
131	Robust optimization of patch antennas considering non-linear circuit for UHF-band passive RFID. International Journal of Applied Electromagnetics and Mechanics, 2013, 43, 77-94.	0.3	2
132	Acceleration of Dynamic Bubble Mesh Generation for Large-Scale Model. IEEE Transactions on Magnetics, 2014, 50, 453-456.	1.2	2
133	A Bistable Vibration Energy Harvester with Closed Magnetic Circuit. Journal of Physics: Conference Series, 2014, 557, 012081.	0.3	2
134	A New Adaptive Mesh Refinement Method in FEA Based on Magnetic Field Conservation at Elements Interfaces and Non-Conforming Mesh Refinement Technique. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	2
135	Finite-Element Analysis of Magnetically Shielded Wire Coils Using Homogenization Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	2
136	Finite element analysis of multiâ€ŧurn magnetoplated coils using homogenization method. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2018, 205, 23-31.	0.2	2
137	Topology Optimization of Metamaterial Using Gaussian-Basis Functions. Journal of Advanced Simulation in Science and Engineering, 2019, 6, 149-156.	0.1	2
138	Implementation of Simplified Model Order Reduction Based on POD for Dynamic Simulation of Electric Motors. , 2019, , .		2
139	Multi-material Topology Optimization of Permanent Magnet Motor with Arbitrary Adjacency Relationship of Materials. , 2020, , .		2
140	A Magnetostatic Reconstruction of Permeability Distribution in Material. , 2003, , 383-388.		1
141	On robustness of edgeâ€based FE analysis using algebraic multigrid method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 408-417.	0.5	1
142	An Analysis of Shielding against DC Magnetic Fields Generated by Electric Railways-Evaluation of Effective Permeability of Fine Structures IEEJ Transactions on Fundamentals and Materials, 2005, 125, 309-316.	0.2	1
143	Optimization in electromagnetics using the Real-coded Clonal Selection Algorithm. , 2008, , .		1

144 Multigrid method with adaptive IDR-based Jacobi Smoother. , 2010, , .

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145	Adaptive Profit Sharing Reinforcement Learning Method for Dynamic Environment. , 2011, , .		1
146	A New Mesh Smoothing Method to Improve the Condition Number of Submatrices of Coefficient Matrix in Edge Finite Element Method. IEEE Transactions on Magnetics, 2013, 49, 1705-1708.	1.2	1
147	Accuracy evaluation of three-dimensional FE analysis based on nonconforming voxel element. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 33, 181-190.	0.5	1
148	Stochastic topology optimization based on level-set method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 1904-1919.	0.5	1
149	Synthesis of Cauer-equivalent circuit based on model order reduction considering nonlinear magnetic property. , 2016, , .		1
150	Performance improvement of planar array antenna by small spherical dielectric lenses. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 623-630.	0.3	1
151	Fast three-dimensional analysis of eddy currents in Litz wire using integral equation. , 2016, , .		1
152	Shape optimization of chipless RFID tags comprising fractal structures. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 609-616.	0.3	1
153	Topology optimization of rotating machine rotors considering localized magnetic degradation caused in manufacturing process. , 2016, , .		1
154	Regularized topology optimization of IPM motors and post-processing for interpretation of optimal solutions. , 2016, , .		1
155	Three-dimensional shape optimization of claw-pole motors. , 2016, , .		1
156	Equivalent circuit of antennas generated by model order reduction. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 649-657.	0.3	1
157	Topology optimization of wideband array antenna for microwave energy harvester. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 631-639.	0.3	1
158	Fast Computation Method of Magnetic Field Homogeneity for NMR/MRI REBCO Pancake Coils. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	1
159	Fast computation of copper and iron losses using model order reduction. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, S79-S86.	0.3	1
160	Magnetic circuit modeling of chaotic vibration energy harvester. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 567-575.	0.3	1
161	Time-Domain Analysis of Homogenized Finite-Element Method for Eddy Current Analysis With Reduced Unknown Variables. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	1
162	Electromagnetic Vibration Energy Harvester: Wideband Generation via Nonlinear Oscillation. Nihon AEM Gakkaishi, 2014, 22, 374-379.	0.0	1

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163	Monitoring System of Railway Using Passive RFID in UHF Band. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 691-696.	0.1	1
164	Analytical Calculation of Magnetic Flux Line from Hexahedral Edge Finite Element Analysis and its Allocation using the Bubble System for Visualization. IEEJ Transactions on Power and Energy, 2007, 127, 1205-1212.	0.1	1
165	A Rationally Oriented Forgettable Profit Sharing. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 448-454.	0.1	1
166	Present Situation and Future Issues in Analysis Techniques for Static Apparatus. IEEJ Transactions on Power and Energy, 2015, 135, 689-692.	0.1	1
167	Topology Optimization of IPM Motors using Fourier Series. IEEJ Transactions on Power and Energy, 2017, 137, 245-253.	0.1	1
168	Finite Element Analysis of Multi-turn Magnetoplated Coils using Homogenization Method. IEEJ Transactions on Power and Energy, 2017, 137, 223-229.	0.1	1
169	Synthesis of Equivalent Circuit from Homogenized FE Equation using Model Order Reduction. IEEJ Transactions on Power and Energy, 2020, 140, 134-139.	0.1	1
170	Design Optimization of Coils and Magnets in Vibration Energy Harvester Using Digital Annealer. , 2020, , .		1
171	Machine Learning Based Metal Object Detection for Wireless Power Transfer Using Differential Coils. Journal of Advanced Simulation in Science and Engineering, 2022, 9, 20-29.	0.1	1
172	Fast Time-Domain Analysis of Darwin Model of Maxwell's Equations Using Arnoldi-Based Model Order Reduction. IEEE Transactions on Magnetics, 2022, 58, 1-4.	1.2	1
173	A boundary element analysis of ion extraction systems. Engineering Analysis With Boundary Elements, 1990, 7, 90-94.	2.0	0
174	A boundary element analysis of helically symmetric potential fields. Engineering Analysis With Boundary Elements, 1992, 10, 131-136.	2.0	0
175	Robustness of the multigrid method for edge-based finite element analysis. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2004, 148, 75-81.	0.2	0
176	An efficient parallel PCG method for eddy current analysis. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 888-898.	0.5	0
177	Convergence of geometric multigrid method for electromagnetic field analysis. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 755-758.	0.3	0
178	An Adaptive Mesh Generation With Parameterized Learning. IEEJ Transactions on Industry Applications, 2007, 127, 293-299.	0.1	0
179	An analysis of shielding against DC magnetic fields generated by electric railways. Evaluation of effective permeability of fine structure. Electrical Engineering in Japan (English Translation of Denki) Tj ETQq1 1	. 0.7 8 4314	rg&T /Overlo
180	Classification of semiconductor defects using a small number of training data and qualitative knowledge. Electronics and Communications in Japan, 2008, 91, 46-54.	0.3	0

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181	Investigation of the characteristics of conformal microstrip antennas. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 110-121.	0.5	Ο
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