

Shinji Wakao

List of Publications by Year in descending order

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873
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Versatile Clustering Method for Electricity Consumption Pattern Analysis in Households. IEEE Transactions on Smart Grid, 2013, 4, 1048-1057. | 9.0 | 56 |
| 2 | Starting Procedure of Rotational Sensorless PMSM in the Rotating Condition. IEEE Transactions on Industry Applications, 2009, 45, 194-202. | 4.9 | 54 |
| 3 | Improvement of Torque Characteristics For a Synchronous Reluctance Motor Using MMA-based Topology Optimization Method. IEEE Transactions on Magnetics, 2018, 54, 1-4. | 2.1 | 49 |
| 4 | Distributed Energy Management for Comprehensive Utilization of Residential Photovoltaic Outputs. IEEE Transactions on Smart Grid, 2018, 9, 1216-1227. | 9.0 | 44 |
| 5 | Topology Optimization of Rotor Core Combined With Identification of Current Phase Angle in IPM Motor Using Multistep Genetic Algorithm. IEEE Transactions on Magnetics, 2014, 50, 725-728. | 2.1 | 39 |
| 6 | Convergence Acceleration of Time-Periodic Electromagnetic Field Analysis by the Singularity Decomposition-Explicit Error Correction Method. IEEE Transactions on Magnetics, 2010, 46, 2947-2950. | 2.1 | 36 |
| 7 | Parallel Time-Periodic Finite-Element Method for Steady-State Analysis of Rotating Machines. IEEE Transactions on Magnetics, 2012, 48, 1019-1022. | 2.1 | 34 |
| 8 | An Optimal Design of Interior Permanent Magnet Synchronous Motor for the Next Generation Commuter Train. IEEE Transactions on Applied Superconductivity, 2004, 14, 1902-1905. | 1.7 | 32 |
| 9 | Large-Scale and Fast Nonlinear Magnetostatic Field Analysis by the Magnetic Moment Method With the Adaptive Cross Approximation. IEEE Transactions on Magnetics, 2007, 43, 1277-1280. | 2.1 | 32 |
| 10 | Electromagnetic field computations by the hybrid FE-BE method using edge elements. IEEE Transactions on Magnetics, 1993, 29, 1487-1490. | 2.1 | 30 |
| 11 | Multiobjective Design Optimization of Brushless Permanent Magnet Motor Using 3D Equivalent Magnetic Circuit Network Method. IEEE Transactions on Applied Superconductivity, 2004, 14, 1910-1913. | 1.7 | 29 |
| 12 | Sensorless control for permanent magnet synchronous motor with reduced order observer. , 0, , . | | 28 |
| 13 | Binary-Based Topology Optimization of Magnetostatic Shielding by a Hybrid Evolutionary Algorithm Combining Genetic Algorithm and Extended Compact Genetic Algorithm. IEEE Transactions on Magnetics, 2013, 49, 2093-2096. | 2.1 | 28 |
| 14 | Forecast Method of Solar Irradiance with Just-In-Time Modeling. IEEE Transactions on Power and Energy, 2011, 31, 912-919. | 0.2 | 27 |
| 15 | Large-scale analysis of eddy-current problems by the hybrid finite element-boundary element method combined with the fast multipole method. IEEE Transactions on Magnetics, 2006, 42, 671-674. | 2.1 | 26 |
| 16 | Optimization of switched reluctance motors using deterministic methods with static and dynamic finite element simulations. IEEE Transactions on Magnetics, 1998, 34, 2853-2856. | 2.1 | 22 |
| 17 | Overhang effect analysis of brushless DC motor by 3-D equivalent magnetic circuit network method. IEEE Transactions on Magnetics, 2003, 39, 1610-1613. | 2.1 | 22 |
| 18 | Large-scale and highly accurate magnetic field analysis of magnetic shield. Journal of Applied Physics, 2006, 99, 08H904. | 2.5 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Novel boundary element formulation in hybrid FE-BE method for electromagnetic field computations. IEEE Transactions on Magnetics, 1992, 28, 1162-1165. | 2.1 | 21 |
| 20 | Time-Domain Parallel Finite-Element Method for Fast Magnetic Field Analysis of Induction Motors. IEEE Transactions on Magnetics, 2013, 49, 2413-2416. | 2.1 | 20 |
| 21 | Topology Optimization Based on Regularized Level-Set Function for Solving 3-D Nonlinear Magnetic Field System With Spatial Symmetric Condition. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 20 |
| 22 | Finite-Element Analysis of Magnetic Field Problem With Open Boundary Using Infinite Edge Element. IEEE Transactions on Magnetics, 2011, 47, 1194-1197. | 2.1 | 19 |
| 23 | Convergence Acceleration of Topology Optimization Based on Constrained Level Set Function Using Method of Moving Asymptotes in 3-D Nonlinear Magnetic Field System. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 19 |
| 24 | New approaches with sensorless drives. IEEE Industry Applications Magazine, 2000, 6, 44-50. | 0.4 | 18 |
| 25 | Large-Scale Magnetic Field Analysis of Laminated Core by Using the Hybrid Finite Element and Boundary Element Method Combined with the Fast Multipole Method. IEEE Transactions on Magnetics, 2007, 43, 2971-2973. | 2.1 | 18 |
| 26 | Convergence Acceleration in Steady State Analysis of Synchronous Machines Using Time-Periodic Explicit Error Correction Method. IEEE Transactions on Magnetics, 2011, 47, 1422-1425. | 2.1 | 18 |
| 27 | Design optimization of a permanent magnet synchronous motor by the response surface methodology. Journal of Applied Physics, 2002, 91, 8305. | 2.5 | 16 |
| 28 | Active Coordinated Operation of Distribution Network System for Many Connections of Distributed Generators. IEEE Transactions on Power and Energy, 2007, 127, 41-51. | 0.2 | 16 |
| 29 | Application of Stepwise Multiple Regression to Design Optimization of Electric Machine. IEEE Transactions on Magnetics, 2007, 43, 1609-1612. | 2.1 | 16 |
| 30 | Forecasting of solar irradiance with just-in-time modeling. Electrical Engineering in Japan (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 0.4 | 15 |
| 31 | Systematic evaluation for magnetic field and potential due to massive current coil. IEEE Transactions on Magnetics, 1995, 31, 1476-1479. | 2.1 | 14 |
| 32 | Energy consumption analysis of FC-EDLC hybrid railway vehicle by dynamic programming. , 2007, , . | | 14 |
| 33 | Orthogonalized Infinite Edge Element Method—Convergence Improvement by Orthogonalization of Hilbert Matrix in Infinite Edge Element Method. IEEE Transactions on Magnetics, 2012, 48, 363-366. | 2.1 | 14 |
| 34 | Physical meaning of gauge conditions in eddy current analysis. IEEE Transactions on Magnetics, 1993, 29, 2452-2454. | 2.1 | 13 |
| 35 | Hybrid finite and boundary element method applied to nonlinear magnetic field analysis. IEEE Transactions on Magnetics, 1994, 30, 2908-2911. | 2.1 | 13 |
| 36 | A design technique for magnetostrictive actuators with laminated active material. IEEE Transactions on Magnetics, 1998, 34, 2141-2143. | 2.1 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Rotor Design of Permanent Magnet Synchronous Motor for Railway Vehicle. IEEJ Transactions on Industry Applications, 2004, 124, 124-130. | 0.2 | 13 |
| 38 | Magnetic Field Evaluation at Vertex by Boundary Integral Equation Derived From Scalar Potential of Double Layer Charge. IEEE Transactions on Magnetics, 2012, 48, 459-462. | 2.1 | 13 |
| 39 | Position sensorless control of permanent magnet synchronous motor at low speed range using harmonic voltage injection. , 2007, , . | | 12 |
| 40 | Design Optimization of Magnetic Sensor for Train Detection. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 12 |
| 41 | Novel boundary element analysis for 3-D eddy current problems. IEEE Transactions on Magnetics, 1993, 29, 1520-1523. | 2.1 | 11 |
| 42 | Eddy current computations in moving conductors by the hybrid FE-BE method. IEEE Transactions on Magnetics, 1995, 31, 1436-1439. | 2.1 | 11 |
| 43 | Renovating a house to aim for net-zero energy, thermal comfort, energy self-consumption and behavioural adaptation: A method proposed for ENEMANE HOUSE 2017. Energy and Buildings, 2019, 201, 183-193. | 6.7 | 11 |
| 44 | Stability analysis of sensorless permanent magnet synchronous motor drive with a reduced order observer. , 0, , . | | 10 |
| 45 | Starting procedure of rotation sensorless PMSM at coasting condition for railway vehicle traction. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2009, 169, 56-63. | 0.4 | 10 |
| 46 | Estimation Prediction Interval of Solar Irradiance Based on Just-in-Time Modeling for Photovoltaic Output Prediction. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2016, 195, 1-10. | 0.4 | 10 |
| 47 | Influence of Release Parameters on Pitch Location in Skilled Baseball Pitching. Frontiers in Sports and Active Living, 2020, 2, 36. | 1.8 | 10 |
| 48 | Improvement in the calculation of electromagnetic force by the FEM. IEEE Transactions on Magnetics, 1994, 30, 1863-1866. | 2.1 | 9 |
| 49 | Operation design of PV system with storage battery by using next-day residential load forecast. , 2011, , . | | 9 |
| 50 | Comparison Between Fast Steady-State Analysis Methods for Time-Periodic Nonlinear Magnetic Field Problems. IEEE Transactions on Magnetics, 2012, 48, 235-238. | 2.1 | 9 |
| 51 | Improvement of Unified Boundary Integral Equation Method in Magnetostatic Shielding Analysis. IEEE Transactions on Magnetics, 2014, 50, 105-108. | 2.1 | 9 |
| 52 | Reduction of Fuel Consumption in PV / Diesel Hybrid Power Generation System by Dynamic Programming Combined With Genetic Algorithm. , 2006, , . | | 8 |
| 53 | Robust Design Optimization Approach by Combination of Sensitivity Analysis and Sigma Level Estimation. IEEE Transactions on Magnetics, 2008, 44, 998-1001. | 2.1 | 8 |
| 54 | Improvements in Material-Density-Based Topology Optimization for 3-D Magnetic Circuit Design by FEM and Sequential Linear Programming Method. IEEE Transactions on Magnetics, 2014, 50, 689-692. | 2.1 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Material-Density-Based Topology Optimization With Magnetic Nonlinearity by Means of Stabilized Sequential Linear Programming: SLPSTAB. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 8 |
| 56 | Estimation Method of Prediction Interval of Solar Irradiance Based on Just-In-Time Modeling for Photovoltaic Output Prediction. IEEJ Transactions on Power and Energy, 2015, 135, 160-167. | 0.2 | 8 |
| 57 | 3D eddy current analysis by the hybrid FE-BE method using magnetic field intensity H. IEEE Transactions on Magnetics, 1992, 28, 2259-2261. | 2.1 | 7 |
| 58 | A new method of motor speed estimation using fuzzy logic algorithm. , 0, , . | | 7 |
| 59 | Design Estimation of the Hybrid Power Source Railway Vehicle based on the Multiobjective Optimization by the Dynamic Programming. IEEJ Transactions on Electrical and Electronic Engineering, 2008, 3, 48-55. | 1.4 | 7 |
| 60 | Large-Scale Eddy-Current Analysis of Conductive Frame of Large-Capacity Inverter by Hybrid Finite Element-Boundary Element Method. IEEE Transactions on Magnetics, 2009, 45, 972-975. | 2.1 | 7 |
| 61 | Voltage Control Method Utilizing Solar Radiation Data in High Spatial Resolution for Service Restoration in Distribution Networks with PV. Journal of Energy Engineering - ASCE, 2017, 143, . | 1.9 | 7 |
| 62 | Comparison between Effects of Retroactivity and Resource Competition upon Change in Downstream Reporter Genes of Synthetic Genetic Circuits. Life, 2019, 9, 30. | 2.4 | 7 |
| 63 | A Multiobjective Optimal Design of a Hybrid Power Source System for a Railway Vehicle. IEEJ Transactions on Industry Applications, 2006, 126, 1690-1698. | 0.2 | 7 |
| 64 | Control Method for Harmonic Voltage Injection to Achieve Noise Reduction in Position-Sensorless Control of Permanent-Magnet Synchronous Motors at Low Speeds. IEEJ Transactions on Industry Applications, 2009, 129, 382-388. | 0.2 | 7 |
| 65 | Magnetic force characteristics according to the variation of asymmetric overhang ratio in brushless direct current motor. Journal of Applied Physics, 2003, 93, 8775-8777. | 2.5 | 6 |
| 66 | Large-scale analysis of surface charge in eddy-current problems by the fast multipole method. IEEE Transactions on Magnetics, 2005, 41, 1700-1703. | 2.1 | 6 |
| 67 | Micromagnetic simulation by using the fast multipole method specialized for uniform brick elements. Journal of Applied Physics, 2009, 105, 07D514. | 2.5 | 6 |
| 68 | Large-scale analysis of magnetic particle dynamics taking into account contact force and magnetic interaction with the fast multipole method. Journal of Applied Physics, 2011, 109, 07D331. | 2.5 | 6 |
| 69 | Fast Multi-Objective Optimization of Magnetic Shield Shape by Combining Auto-Encoder and Level-Set Method. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 6 |
| 70 | Development of Distribution Network Equipment to Support the Solution of Problem of Connecting Distributed Generators (ANSWER) and Verification Experiment of Active Coordinated Operation of Distributed Generator and Distribution Network. IEEJ Transactions on Power and Energy, 2010, 130, 473-483. | 0.2 | 6 |
| 71 | A novel design approach for grasping broad characteristics of magnetic shield problem. IEEE Transactions on Magnetics, 1998, 34, 2144-2146. | 2.1 | 5 |
| 72 | Comparison between three-dimensional (3D) equivalent magnetic circuit network method and 3D finite element method for magnetic-field computation. Journal of Applied Physics, 2005, 97, 10E105. | 2.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | A Theoretical Analysis of Sideband Harmonics on the Inverter DC-link Current for an Electric Railcar. IEEJ Transactions on Industry Applications, 2006, 126, 1049-1057. | 0.2 | 5 |
| 74 | A study of mesh deformation methods for magnetic field analysis. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 497-502. | 1.4 | 5 |
| 75 | Eddy-Current Analysis of Large-Scale Constructions in Railway System by Infinite Edge Elements. IEEE Transactions on Magnetics, 2014, 50, 561-564. | 2.1 | 5 |
| 76 | Improvement of Convergence Characteristic in Nonlinear Transient Eddy-Current Analyses using the Error Correction of Time Integration based on the Time-Periodic FEM and the EEC Method. IEEJ Transactions on Power and Energy, 2009, 129, 791-798. | 0.2 | 5 |
| 77 | Finite element modeling of creep damage effects on a magnetic detector signal for a seam weld/HAZ-region in a steel pipe. IEEE Transactions on Magnetics, 1998, 34, 2156-2158. | 2.1 | 4 |
| 78 | Magnetic field analysis of laminated core by using homogenization method. Journal of Applied Physics, 2006, 99, 08H907. | 2.5 | 4 |
| 79 | Investigation of the Storage Battery Station for Effective Utilization of Electric Power Generated by PV Clusters. , 2006, , . | | 4 |
| 80 | Theoretical analysis of cancellation of DC-link current harmonics in the inverter-controlled DC electric railcar. , 2007, , . | | 4 |
| 81 | Active coordinated operation of a distribution network system for many connections of distributed generators. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2009, 167, 46-57. | 0.4 | 4 |
| 82 | Design of Railway Wheel Detector Insusceptible to Electromagnetic Noise. IEEE Transactions on Magnetics, 2010, 46, 2731-2734. | 2.1 | 4 |
| 83 | Control Method for Harmonic Voltage Injection to Achieve Noise Reduction in Position-Sensorless Control of Permanent-Magnet Synchronous Motors at Low Speeds. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2012, 179, 49-56. | 0.4 | 4 |
| 84 | Some Treatments of Fictitious Volume Charges in Nonlinear Magnetostatic Analysis by BIE. IEEE Transactions on Magnetics, 2012, 48, 463-466. | 2.1 | 4 |
| 85 | Nonlinear Magnetostatic Analysis by Unified BIE Utilizing Potential Gap Due to Loop Currents. IEEE Transactions on Magnetics, 2013, 49, 1573-1576. | 2.1 | 4 |
| 86 | Improvement of prediction interval estimation algorithm with just-in-time modeling for PV system operation. , 2015, , . | | 4 |
| 87 | Topology optimization of induction heating model using sequential linear programming based on move limit with adaptive relaxation. Open Physics, 2017, 15, 845-850. | 1.7 | 4 |
| 88 | PWM Carrier Distribution Technique for Reducing Motor Electromagnetic Noise. IEEJ Transactions on Industry Applications, 2015, 135, 1144-1152. | 0.2 | 4 |
| 89 | Data Mining Method for Battery Operation Optimization in Photovoltaics. IEEJ Transactions on Power and Energy, 2010, 130, 313-319. | 0.2 | 4 |
| 90 | Battery charging-discharging control method for PV system capacity reduction. , 0, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Acceleration of convergence characteristics of time-stepping FE analysis for rotating machines. IEEE Transactions on Magnetics, 2001, 37, 3558-3561. | 2.1 | 3 |
| 92 | Large-scale magnetic field analysis by the hybrid finite element-boundary element method combined with the fast multipole method. Electrical Engineering in Japan (English Translation of Denki Gakkai) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.4 | 3 |
| 93 | Loss analysis of permanent-magnet synchronous motor using three-dimensional finite-element method with homogenization method. Journal of Applied Physics, 2008, 103, 07F126. | 2.5 | 3 |
| 94 | Convergence acceleration in transient analysis of rotating machines using time-periodic explicit error correction method. , 2010, , . | | 3 |
| 95 | Optimization of installation and operation for retail store with photovoltaic, storage battery and EV quick charger. , 2011, , . | | 3 |
| 96 | Performance Evaluation of a Parallel Fast Multipole Accelerated Boundary Integral Equation Method in Electrostatic Field Analysis. IEEE Transactions on Magnetics, 2011, 47, 1174-1177. | 2.1 | 3 |
| 97 | Micromagnetic Simulations of Perpendicular Recording Head Using the Parallel Fast Multipole Method Specialized for Uniform Brick Elements. IEEE Transactions on Magnetics, 2011, 47, 3805-3808. | 2.1 | 3 |
| 98 | Effect of PV Output and Load Power Forecast Error on Operation Design of PV System with Storage Battery. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2015, 190, 28-36. | 0.4 | 3 |
| 99 | Prediction interval estimation of 10 second fluctuation of PV output with just-in-time modeling. , 2016, , . | | 3 |
| 100 | Magnetostatic Shield Analysis by Double-Layer Charge Formulation Using Difference Field Concept. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 3 |
| 101 | Error Effect of PV Output and Load Power Forecast on Operation Design of PV System with Storage Battery. IEEJ Transactions on Power and Energy, 2013, 133, 903-909. | 0.2 | 3 |
| 102 | Stability Analysis of Permanent Magnet Synchronous Motor Traction Main Circuit with Regenerative Braking on Insufficient Load's Power Consuming. IEEJ Transactions on Industry Applications, 2001, 121, 651-657. | 0.2 | 3 |
| 103 | Advancement of Analysis Method for Electromagnetic Screening Effect of Mountain Tunnel. IEEJ Transactions on Industry Applications, 2007, 127, 391-399. | 0.2 | 3 |
| 104 | Advancement of Analysis Method for Electromagnetic Screening Effect of Viaducts for Railway. IEEJ Transactions on Industry Applications, 2008, 128, 310-320. | 0.2 | 3 |
| 105 | The Study of a Magnetic-Polarity Detection Method for Permanent-Magnet Reluctance Motors. IEEJ Transactions on Industry Applications, 2015, 135, 641-647. | 0.2 | 3 |
| 106 | Investigation of Supplied Currents in Tubular Linear Induction Motor.. IEEJ Transactions on Industry Applications, 1992, 112, 1179-1186. | 0.2 | 2 |
| 107 | Optimization of coils for detecting initial rotor position in permanent magnet synchronous motor. Journal of Applied Physics, 1998, 83, 6365-6367. | 2.5 | 2 |
| 108 | Surface charge analysis in eddy current problems. Electrical Engineering in Japan (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.4 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Computational Analysis of Photovoltaic Power Generation System for Optical Network Unit.. IEEJ Transactions on Power and Energy, 2003, 123, 412-419. | 0.2 | 2 |
| 110 | CPU-time Reduction for Electric Machine Design by the Response Surface Methodology. IEEJ Transactions on Industry Applications, 2003, 123, 371-378. | 0.2 | 2 |
| 111 | Theoretical analysis of return current harmonics in the inverter-controlled DC electric railcar. , 0, , . | | 2 |
| 112 | Application of Stepwise Multiple Regression to Design Optimization of Electric Machine. , 0, , . | | 2 |
| 113 | Large-scale and Fast Nonlinear Magnetostatic Field Analysis by the Magnetic Moment Method with the Adaptive Cross Approximation. , 0, , . | | 2 |
| 114 | A stability analysis of the mechanical simulator for induction motor speed sensor-less control in ultra lower speed range. , 2008, , . | | 2 |
| 115 | Investigation of Algebraic Multigrid Method for Magnetic Field Analysis of an Electric Machine With a Laminated Core. IEEE Transactions on Magnetics, 2009, 45, 992-995. | 2.1 | 2 |
| 116 | Distribution automation system for service restoration involving simultaneous disconnection and reconnection of distributed generators. , 2015, , . | | 2 |
| 117 | Computational analysis of battery operation in photovoltaic systems with varying charging and discharging rates. , 2016, , . | | 2 |
| 118 | Topology optimization of IH-equipment using heaviside function in 2-D axisymmetric electromagnetic field. , 2017, , . | | 2 |
| 119 | Design Optimization of Primary Core in Induction Heating Roll by the Combination of 2D Level-set Method and 3D Coupled Magnetic-Thermal FEM. IEEJ Journal of Industry Applications, 2018, 7, 64-72. | 1.1 | 2 |
| 120 | Average-torque-maximization and cogging-torque-minimization of permanent-magnet-assisted synchronous reluctance motor using topology optimization. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, S173-S181. | 0.6 | 2 |
| 121 | Optimization of Rotor Structure for Synchronous Reluctance Motor Using Coupled Topology Optimization Based on Electromagnetic Field Analysis and Structural Mechanics. , 2019, , . | | 2 |
| 122 | Shape optimization of synchronous reluctance motor using sensitivity information for multiple objective functions. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2022, ahead-of-print, . | 0.9 | 2 |
| 123 | Topology optimization in magnetic shield design by using density method in combination with CNN. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2022, 41, 2109. | 0.9 | 2 |
| 124 | A novel approach to design optimization of ventilation holes in induction motors. , 0, , . | | 1 |
| 125 | Finite element analysis of magnetic field problem with open boundary using infinite element technique. , 2010, , . | | 1 |
| 126 | Performance evaluation of parallel fast multipole accelerated boundary integral equation method in electrostatic field analysis. , 2010, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Automatic extraction of basic electricity consumption patterns in household. , 2012, , . | | 1 |
| 128 | Magnetostatic analysis by BEM with magnetic double layer as unknown utilizing volume magnetic charge. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 711-717. | 0.6 | 1 |
| 129 | Magnetic Field Analysis in Far-Field Region by Infinite Edge Element With Boundary Surface Integration. IEEE Transactions on Magnetics, 2013, 49, 1681-1684. | 2.1 | 1 |
| 130 | Topology optimization of magnetostatic shielding using multistep evolutionary algorithms with additional searches in a restricted design space. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 894-913. | 0.9 | 1 |
| 131 | The study of magnetic polarity detection method for permanent magnet reluctance motor. , 2015, , . | | 1 |
| 132 | A study on the maximum use of PV power in a residential community -the case of utilizing of demand response program-. , 2015, , . | | 1 |
| 133 | Multi-objective optimization of magnetic sensor with conductor plate for rail wheel detection. , 2016, , . | | 1 |
| 134 | Multi-objective design optimization of primary core in induction heating roll by level-set method. , 2016, , . | | 1 |
| 135 | Prediction Interval Estimation of Demand Curve in Electric Power Distribution System. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2018, 202, 12-23. | 0.4 | 1 |
| 136 | Multistage topology optimization of induction heating apparatus in time domain electromagnetic field with magnetic nonlinearity. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 38, 1009-1022. | 0.9 | 1 |
| 137 | Application of Conditional Variational Auto-Encoder to Magnetic Circuit Design with Magnetic Field Computation. , 2019, , . | | 1 |
| 138 | Development of Encoder-Decoder Predicting Search Process of Level-set Method in Magnetic Circuit Design. , 2019, , . | | 1 |
| 139 | Factor Analysis of Torque Ripple Reduction in Synchronous Reluctance Motors Derived from Topology Optimization. IEEJ Journal of Industry Applications, 2019, 8, 1007-1014. | 1.1 | 1 |
| 140 | PROPOSAL OF RENOVATION TO ZERO ENERGY HOUSE (ZEH) FROM AN EXISTING INDUSTRIALIZED HOUSE. AIJ Journal of Technology and Design, 2019, 25, 239-242. | 0.3 | 1 |
| 141 | Prediction Interval Estimation of 10 Second PV Output Fluctuation in the Next Day. IEEJ Transactions on Power and Energy, 2018, 138, 5-13. | 0.2 | 1 |
| 142 | A Study on Multiply Connected Domain Processing Methods in Magnetostatic Field Analysis by Boundary Integral Equations. IEEJ Transactions on Power and Energy, 2017, 137, 132-137. | 0.2 | 1 |
| 143 | Design optimization of electric machines based on the estimation of permeability distribution. Journal of Applied Physics, 2002, 91, 8302. | 2.5 | 0 |
| 144 | Boundary structure for improving performances of single-sided linear induction motors. Journal of Applied Physics, 2002, 91, 6988. | 2.5 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Surface Charge Analysis in Eddy Current Problems. IEEJ Transactions on Industry Applications, 2002, 122, 633-639. | 0.2 | 0 |
| 146 | Proposal for a benchmark model of a laminated iron core and a large-scale and highly accurate magnetic analysis. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2010, 170, 26-35. | 0.4 | 0 |
| 147 | Multiobjective design optimization of electric machine by using genetic algorithm with aggressive species diversity. , 2010, , . | | 0 |
| 148 | Operetion design of hybrid PV and fuel cell system with storage battery. , 2011, , . | | 0 |
| 149 | A Measure of Credibility of Solar Power Prediction. , 2011, , . | | 0 |
| 150 | Extraction of Basic Patterns of Household Energy Consumption. , 2011, , . | | 0 |
| 151 | A fundamental study of spectrum center estimation of solar spectral irradiation by statistical pattern recognition. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2013, 184, 10-18. | 0.4 | 0 |
| 152 | Topology design method of flux barrier in IPM motor by means of genetic algorithm implemented by multistep procedure. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 381-387. | 0.6 | 0 |
| 153 | Improvement in Computational Accuracy and Convergence Characteristics by Combined Application of Various Infinite Edge Element Configurations. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 0 |
| 154 | Computational Accuracy Enhancement in Magnetic Field Analysis by Using Orthogonalized Infinite Edge Element Method. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2015, 191, 20-28. | 0.4 | 0 |
| 155 | Level-set-function-based topology optimization supported by the method of moving asymptotes in a magnetic field problem. , 2016, , . | | 0 |
| 156 | Development of local expansion edge element for magnetic field analysis. , 2016, , . | | 0 |
| 157 | Method for determining voltage control parameters of low-voltage regulator using forecast interval of photovoltaic output. , 2017, , . | | 0 |
| 158 | Technical Tend on Evaluation and Application of Metal-oxide Surge Arresters. IEEJ Transactions on Power and Energy, 2018, 138, 1-4. | 0.2 | 0 |
| 159 | Topology optimization of magnetic shielding using level-set function combined with element-based topological derivatives. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2018, 37, 718-729. | 0.9 | 0 |
| 160 | Proposal and Evaluation of an Equipment Operating Method Using Solar Radiation Prediction in a Zero Energy House. E3S Web of Conferences, 2019, 111, 05003. | 0.5 | 0 |
| 161 | Design Optimization of Magnetic Material Distribution by Using Encoder-Decoder with Additive Mixing for Design Conditions. , 2019, , . | | 0 |
| 162 | Confidence Interval Estimation of Apparent Residential Load with PV System Based on Just-In-Time Modeling. , 2019, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Prediction of PV Output Transition by Means of Estimated Confidence Interval. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 802-808. | 1.4 | 0 |
| 164 | Development of Photovoltaic System for Optical Network Unit. IEEJ Transactions on Industry Applications, 2000, 120, 718-724. | 0.2 | 0 |
| 165 | The Shape Optimization of Ventilation Holes in An Induction Motor by The Hybrid Design Approach of Numerical Analysis and Analytical Design Methodology. IEEJ Transactions on Industry Applications, 2001, 121, 159-164. | 0.2 | 0 |
| 166 | CPU-time Reduction for Steady-state Solution in Time-stepping FE Analysis of Rotating Machinery. IEEJ Transactions on Industry Applications, 2002, 122, 390-395. | 0.2 | 0 |
| 167 | Proposal and Performance Evaluation of the Short Primary LIM with the Secondary Sections Connected by the Conductive Wire. IEEJ Transactions on Industry Applications, 2002, 122, 1129-1134. | 0.2 | 0 |
| 168 | Proposal for Benchmark Model of Laminated Iron Core and the Large-scale and Highly Accurate Magnetic Field Analysis. IEEJ Transactions on Power and Energy, 2007, 127, 894-901. | 0.2 | 0 |
| 169 | A Fundamental Study on Spectrum Center Estimation of Solar Spectral Irradiation by the Statistical Pattern Recognition. IEEJ Transactions on Power and Energy, 2012, 132, 189-196. | 0.2 | 0 |
| 170 | Computational Accuracy Enhancement in Magnetic Field Analysis by using Orthogonalized Infinite Edge Element Method. IEEJ Transactions on Power and Energy, 2013, 133, 465-472. | 0.2 | 0 |
| 171 | Two-step Topology Optimization Using Topology Constraint for Improving the Diversity of Solution. IEEJ Transactions on Power and Energy, 2014, 134, 716-723. | 0.2 | 0 |
| 172 | Improvement of the Smoothing Method in the Finite Element Analysis.. IEEJ Transactions on Industry Applications, 1994, 114, 1108-1114. | 0.2 | 0 |
| 173 | Prediction Interval Estimation of Demand Curve in Electric Power Distribution System. IEEJ Transactions on Power and Energy, 2016, 136, 848-857. | 0.2 | 0 |
| 174 | Factor Analysis of Torque Ripple Reduction in Synchronous Reluctance Motors Derived from Topology Optimization. IEEJ Transactions on Industry Applications, 2019, 139, 380-387. | 0.2 | 0 |
| 175 | Fast Magnetic Field Analysis by Using Nonconforming Infinite Edge Element Method with Reference Line. , 2020, , . | | 0 |
| 176 | Steady-State Analysis of Electric Machines Using the TP-EEC Method Based on Time-Periodic Conditions in a Rotational Reference Frame. IEEJ Journal of Industry Applications, 2022, , . | 1.1 | 0 |