# Kenji Nakamura

List of Publications by Year
in descending order



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|---|---|---|---|
| 116 papers | 1,032 citations | 516710 16 h-index | 552781 26 g-index |
| 116 all docs | 116 docs citations | 116 times ranked | 455 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dynamic Hysteresis Modeling Taking Skin Effect Into Account for Magnetic Circuit Analysis and Validation for Various Core Materials. IEEE Transactions on Magnetics, 2022, 58, 1-12. | 2.1 | 3 |
| 2 | Cogging Torque Reduction of Integer Gear Ratio Axial-Flux Magnetic Gear for Wind-Power Generation Application by Using Two New Types of Pole Pieces. IEEE Transactions on Magnetics, 2022, 58, 1-5. | 2.1 | 8 |
| 3 | Investigation of Magnetic Interaction of IPM-Type Magnetic-Geared Motor. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 11 |
| 4 | Proposal and Verification of Torque Equation of IPM-Type Magnetic-Geared Motor. IEEJ Journal of Industry Applications, 2021, 10, 612-617. | 1.1 | 6 |
| 5 | Comparison of Two Different Interior Permanent Magnet Type Low-speed Rotor Structures of Axial-Flux Magnetic Gear. IEEJ Journal of Industry Applications, 2021, 10, 632-637. | 1.1 | 7 |
| 6 | A Novel Control Method for In-wheel SR Motor to Implement Torque Vectoring Control for Compact EV. IEEJ Journal of Industry Applications, 2021, 10, 708-717. | 1.1 | 5 |
| 7 | Reluctance Network Model of Switched Reluctance Motor Considering Magnetic Hysteresis Behavior. , 2021, , . | | 0 |
| 8 | Development of in-wheel magnetic-geared motor for walking support machines. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 157-163. | 0.6 | 1 |
| 9 | Dynamic Hysteresis Modeling for Magnetic Circuit Analysis by Incorporating Play Model and Cauerâ€™s Equivalent Circuit Theory. IEEE Transactions on Magnetics, 2020, 56, 1-6. | 2.1 | 10 |
| 10 | Development of spoke-type IPM magnetic gear. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 771-778. | 0.6 | 1 |
| 11 | Loss reduction of outer-rotor type high-speed interior permanent magnet motors. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 861-868. | 0.6 | 1 |
| 12 | A Novel Control Method for In-wheel SR Motor to Implement Torque Vectoring Control for Compact EV. , 2020, , . | | 2 |
| 13 | Proposed and Verification of Torque Equation of IPM-type Magnetic-Geared. , 2020, , . | | 1 |
| 14 | Reluctance Network Model of Three-Phase-Laminated-Core Variable Inductor Considering Magnetic Hysteresis Behavior. IEEE Transactions on Magnetics, 2019, 55, 1-6. | 2.1 | 8 |
| 15 | Efficiency Improvement of In-Wheel Magnetic Geared Motor and Feasibility Study for Walking Support Machines. , 2019, , . | | 5 |
| 16 | 500kVA Medium-Frequency Core-Type Amorphous Transformers with Alternately Wound Sheet Winding for Offshore DC Grid. IEEJ Journal of Industry Applications, 2019, 8, 756-766. | 1.1 | 0 |
| 17 | Efficiency Improvement of Magnetic-Geared Motor by Open-Slot and Interior Permanent Magnet Structure.. , 2018, , . | | 0 |
| 18 | Hysteresis Modeling of Magnetic Devices based on Reluctance Network Analysis. , 2018, , . | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Reluctance Network Model of Permanent Magnet Synchronous Motor Considering Magnetic Hysteresis Behavior. , 2018, , . | | 4 |
| 20 | Recent Topics of Applied Magnetic Technologies in Power Generation System. IEEJ Transactions on Fundamentals and Materials, 2018, 138, 599-604. | 0.2 | 0 |
| 21 | Recent Topics of Loss Analysis of Power Magnetics Devices based on Equivalent Circuit Method. IEEJ Transactions on Fundamentals and Materials, 2018, 138, 585-591. | 0.2 | 0 |
| 22 | A Novel 3-D Concentric-Winding-Type Three-Phase Variable Inductor for Reactive Power Compensation in Electric Power Systems. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 4 |
| 23 | Unified Calculation Method for Motor Torque in Reluctance Network Analysis. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2017, 198, 25-33. | 0.4 | 0 |
| 24 | Development of High-Speed Switched Reluctance Motor for Electric Power Tools. Journal of Physics: Conference Series, 2017, 903, 012040. | 0.4 | 1 |
| 25 | Magnetic Circuit Model combined with Play Model Obtained from Landau-Lifshitz-Gilbert Equation. Journal of Physics: Conference Series, 2017, 903, 012047. | 0.4 | 8 |
| 26 | Accuracy Improvement of Magnetic Hysteresis Calculated by LLG Equation. Journal of Physics: Conference Series, 2017, 903, 012048. | 0.4 | 9 |
| 27 | A novel three-dimensional concentric-winding type three-phase variable inductor for reactive power compensation in electric power systems. , 2017, , . | | 0 |
| 28 | VII.High-Efficiency Magnetic Gear and Developing Magnetic-Geared Motor. , 2016, , . | | 0 |
| 29 | Iron Loss Calculation for Concentric-Winding Type Three-Phase Variable Inductor based on Reluctance Network Analysis. Journal of the Magnetics Society of Japan, 2016, 40, 67-70. | 0.9 | 1 |
| 30 | Basic Characteristics of In-Wheel Magnetic-Geared Motors. Journal of the Magnetics Society of Japan, 2015, 39, 29-32. | 0.9 | 5 |
| 31 | Development of concentric-winding type three-phase variable inductor. , 2015, , . | | 0 |
| 32 | Basic consideration of winding arrangement of amorphous transformers for MW-class DC-DC converters. , 2015, , . | | 0 |
| 33 | Magnetic Circuit Model Considering Magnetic Hysteresis. Electrical Engineering in Japan (English) Tj ETQq1 1 0.784314 rgBT /Overloc | 0.4 | 1 |
| 34 | Design for size and weight reduction of lap-winding type three-phase variable inductor. Journal of Applied Physics, 2015, 117, 17D523. | 2.5 | 2 |
| 35 | Development of Concentric-Winding Type Three-Phase Variable Inductor. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 11 |
| 36 | Unified Calculation Method for Motor Torque in Reluctance Network Analysis. IEEJ Transactions on Industry Applications, 2015, 135, 1063-1069. | 0.2 | 1 |

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|---|---|---|---|
| 37 | Operation Principle and Basic Characteristics of VR Magnetic Gear. IEEJ Transactions on Industry Applications, 2015, 135, 1100-1106. | 0.2 | 0 |
| 38 | Development of 72/96-Pole Rare-Earth Free Permanent Magnet Reluctance Generator for Small-Scale Renewable Power Generation. IEEJ Journal of Industry Applications, 2014, 3, 41-46. | 1.1 | 7 |
| 39 | A Consideration of High-Speed SR Motor for Electric Power Tools. Journal of the Magnetics Society of Japan, 2014, 38, 194-198. | 0.9 | 4 |
| 40 | A Novel Flux-Modulated Type Dual-Axis Motor for Hybrid Electric Vehicles. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 11 |
| 41 | Performance improvement of magnetic gear and efficiency comparison with conventional mechanical gear. Journal of Applied Physics, 2014, 115, 17A314. | 2.5 | 23 |
| 42 | Experimental Evaluation of Characteristics of SR Motor Made of Permendur. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2014, 187, 51-57. | 0.4 | 1 |
| 43 | Magnetic Circuit Model Considering Magnetic Hysteresis. IEEJ Transactions on Fundamentals and Materials, 2014, 134, 243-249. | 0.2 | 4 |
| 44 | Efficiency Optimization of SPM Motor Considering Carrier Harmonics Based on Electric and Magnetic Networks. IEEJ Journal of Industry Applications, 2014, 3, 422-427. | 1.1 | 7 |
| 45 | Experimental Tests and Efficiency Improvement of Surface Permanent Magnet Magnetic Gear. IEEJ Journal of Industry Applications, 2014, 3, 62-67. | 1.1 | 12 |
| 46 | Basic Characteristics of Lap-Winding type Three-Phase Laminated-Core Variable Inductor. Journal of the Magnetics Society of Japan, 2014, 38, 174-177. | 0.9 | 14 |
| 47 | Improvements to Efficiency and Reduced Torque Ripple in Axial-Gap PM Motors. Journal of the Magnetics Society of Japan, 2014, 38, 15-19. | 0.9 | 3 |
| 48 | Evaluation of Influence of Carrier Harmonics of SPM Motor Based on Reluctance Network Analysis. IEEJ Journal of Industry Applications, 2014, 3, 304-309. | 1.1 | 3 |
| 49 | Influence of Pole-Pieces on Characteristics in Planetary Type Magnetic Gear. IEEJ Transactions on Fundamentals and Materials, 2014, 134, 416-421. | 0.2 | 1 |
| 50 | Calculation of eddy current loss in permanent magnet motor caused by carrier harmonics based on reluctance network analysis. , 2013, , . | | 8 |
| 51 | Magnetic-Circuit-Based Iron Loss Estimation Under Square Wave Excitation With Various Duty Ratios. IEEE Transactions on Magnetics, 2013, 49, 3997-4000. | 2.1 | 7 |
| 52 | Loss analysis and performance improvement of trial SPM type magnetic gear. , 2013, , . | | 4 |
| 53 | Development of high torque density axial-gap switched reluctance motor for in-wheel direct-drive EV. , 2013, , . | | 13 |
| 54 | Iron loss calculation by incorporating LLG equation into magnetic circuit model. , 2013, , . | | 0 |

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|---|---|---|---|
| 55 | RNA-Based Optimum Design method for SPM type Magnetic Gears. Journal of the Magnetics Society of Japan, 2013, 37, 264-267. | 0.9 | 3 |
| 56 | Consideration of Eddy Current Loss Estimation in SPM Motor Based on Electric and Magnetic Networks. IEEE Transactions on Magnetics, 2012, 48, 3108-3111. | 2.1 | 18 |
| 57 | Basic examination of magnetic circuit model incorporating micromagnetic simulation. , 2012, , . | | 0 |
| 58 | A method for optimizing the design of SPM type magnetic gear based on reluctance network analysis. , 2012, , . | | 18 |
| 59 | Basic consideration of switched reluctance motor with auxiliary windings and permanent magnets. , 2012, , . | | 10 |
| 60 | Super-multipolar permanent magnet reluctance generator designed for small-scale renewable energy generation. , 2012, , . | | 1 |
| 61 | Super-Multipolar Permanent Magnet Reluctance Generator Designed for Small-Scale Wind-Turbine Generation. IEEE Transactions on Magnetics, 2012, 48, 3311-3314. | 2.1 | 28 |
| 62 | A design of axial-gap switched reluctance motor for in-wheel direct-drive EV. , 2012, , . | | 22 |
| 63 | Basic examination of eddy current loss estimation in SPM motor based on electric and magnetic networks. , 2012, , . | | 3 |
| 64 | A Novel Switched Reluctance Motor With the Auxiliary Windings and Permanent Magnets. IEEE Transactions on Magnetics, 2012, 48, 3855-3858. | 2.1 | 39 |
| 65 | Characteristics of novel flux barrier type outer rotor IPM motor with rare-earth and ferrite magnets. , 2012, , . | | 13 |
| 66 | Basic Characteristics of 18-leg Three-Phase Laminated-Core Variable Inductor. Journal of the Magnetics Society of Japan, 2012, 36, 253-257. | 0.9 | 0 |
| 67 | Experimental Evaluation of Characteristics of SR Motor Made of Permendur. IEEJ Transactions on Industry Applications, 2012, 132, 458-463. | 0.2 | 1 |
| 68 | Development of a Switched Reluctance Motor made of Permendur. Journal of Physics: Conference Series, 2011, 266, 012067. | 0.4 | 5 |
| 69 | A Method for Calculating Eddy Current Loss Distribution Based on Reluctance Network Analysis. IEEE Transactions on Magnetics, 2011, 47, 4155-4158. | 2.1 | 15 |
| 70 | Dynamic Analysis of Planetary-Type Magnetic Gear Based on Reluctance Network Analysis. IEEE Transactions on Magnetics, 2011, 47, 2414-2417. | 2.1 | 45 |
| 71 | Development of a new two-dimensional position-sensitive detection based on resistive charge division and using CdTe detectors for a high-resolution semiconductor-based PET scanning. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 631, 138-143. | 1.6 | 6 |
| 72 | Optimization of a Switched Reluctance Motor Made of Permendur. IEEE Transactions on Magnetics, 2010, 46, 1311-1314. | 2.1 | 31 |

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|---|---|---|---|
| 73 | Stator-Permanent-Magnet Reluctance Generator using Ferrite Magnet for Small-Scale Renewable Energy Generation. EPE Journal (European Power Electronics and Drives Journal), 2010, 20, 31-36. | 0.7 | 7 |
| 74 | Outer-rotor type permanent magnet reluctance generator with high power and low toque ripple. , 2010, , . | | 0 |
| 75 | Experimental verification of performance of a switched reluctance motor made of permendur. , 2010, , . | | 1 |
| 76 | Iron Loss Calculation in a Three-Phase-Laminated-Core Variable Inductor Based on Reluctance Network Analysis. IEEE Transactions on Magnetics, 2009, 45, 4781-4784. | 2.1 | 14 |
| 77 | ï¼“æ¬¡å…ƒãƒªãƒ©ã‚¯ã‚¿ãƒ³ã‚¹ãƒãƒƒãƒˆãƒ¯ãƒ¼ã‚¯è§£æžã«ã‚ˆã‚‹ä¸‰ç›¸ç©å±¤é‰„å¿ƒå¯å¤‰ã‚¤ãƒ³ãƒ€ã‚¯ã‚¿ã®é‰„æ²•æ失計算. | | |
| 78 | Dynamic simulation of PM motor drive system based on reluctance network analysis. , 2008, , . | | 12 |
| 79 | Fundamental study of two-dimensional position sensitive CdTe detector for PET camera. , 2008, , . | | 0 |
| 80 | Simulation of IPM motor with current vector control drive and DTC drive by nonlinear magnetic circuit model. , 2008, , . | | 2 |
| 81 | Development of a Novel Three-Phase Laminated-Core Variable Inductor for Var Compensation. IEEE Transactions on Magnetics, 2008, 44, 4107-4110. | 2.1 | 13 |
| 82 | Three-dimensional Reluctance Network Analysis of an EIE-Core Variable Inductor and Application to Reactive Power Compensation in a Distribution System. IEEJ Transactions on Fundamentals and Materials, 2008, 128, 511-516. | 0.2 | 7 |
| 83 | Reluctance Network Based Dynamic Analysis in Power Magnetics. IEEJ Transactions on Fundamentals and Materials, 2008, 128, 506-510. | 0.2 | 12 |
| 84 | Characteristics of a novel switched reluctance motor having permanent magnets between the stator pole-tips. , 2007, , . | | 14 |
| 85 | A Method for Calculating Iron Loss of a Switched Reluctance Motor Based on Reluctance Network Analysis. , 2006, , . | | 1 |
| 86 | Calculation of Characteristics of an SR Motor with Divided Stator Cores Considering the Influence of Micro Air Gaps. , 2006, , . | | 0 |
| 87 | A Method for Calculating Iron Loss of an SR Motor Based on Reluctance Network Analysis and Comparison of Symmetric and Asymmetric Excitation. IEEE Transactions on Magnetics, 2006, 42, 3440-3442. | 2.1 | 23 |
| 88 | Operation Analysis for Electrical Machinery Based on Reluctance Network. IEEJ Transactions on Fundamentals and Materials, 2006, 126, 150-156. | 0.2 | 17 |
| 89 | Characteristics of 8/6 Switched Reluctance Generator Excited by Suppression Resistor Converter. IEEE Transactions on Magnetics, 2006, 42, 3458-3460. | 2.1 | 39 |
| 90 | Characteristics of 8/6 Switched Reluctance Generator Excited by Suppresion Resister Converter. , 2006, , . | | 1 |

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|---|---|---|---|
| 91 | Characteristics of 8/6 SR Generator with a Suppression Resistor Converter. , 2006, , . | | 0 |
| 92 | Electromechanical coupling factors of single-domain 0.67Pb(Mg1â^•3Nb2â^•3)O3â€“0.33PbTiO3 single-crystal thin films. Applied Physics Letters, 2006, 88, 122903. | 3.3 | 38 |
| 93 | A Method for Calculating Iron Loss of an SR Motor Based on Reluctance Network Analysis and Comparison of Symmetric and Asymmetric Excitation. , 2006, , . | | 8 |
| 94 | Design of outer-rotor-type multipolar switched reluctance motor for electric vehicle. Journal of Applied Physics, 2006, 99, 08R324. | 2.5 | 13 |
| 95 | Three-Phase Reluctance Generator with Permanent Magnets Buried in Stator Core. , 2006, , . | | 5 |
| 96 | Three-Phase Reluctance Generator with Permanent Magnets Buried in Stator Core. , 2006, , . | | 9 |
| 97 | Characteristics of 8/6 SR Generator with a Suppression Resistor Converter. , 2006, , . | | 0 |
| 98 | A Method for Calculating Iron Loss of a Switched Reluctance Motor Based on Reluctance Network Analysis. , 2006, , . | | 1 |
| 99 | A new nonlinear magnetic circuit model for dynamic analysis of interior permanent magnet synchronous motor. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1313-1317. | 2.3 | 16 |
| 100 | A novel switched reluctance motor with wound-cores put on stator and rotor poles. IEEE Transactions on Magnetics, 2005, 41, 3919-3921. | 2.1 | 16 |
| 101 | Three-dimensional reluctance network analysis considering an iron loss characteristic for an EIE-core variable inductor. IEEE Transactions on Magnetics, 2005, 41, 4033-4035. | 2.1 | 13 |
| 102 | Electromagnetic and motion-coupled analysis for switched reluctance motor based on reluctance network analysis. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1309-1312. | 2.3 | 35 |
| 103 | Design of outer-rotor type multipolar SR motor for electric vehicle. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1334-1337. | 2.3 | 18 |
| 104 | A multipolar SR motor and its application in EV. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1338-1342. | 2.3 | 25 |
| 105 | Electromagnetic and Thermal Coupled Analysis of Ferrite Orthogonal-Core Based on Three-Dimensional Reluctance and Thermal-Resistance Network Model. IEEE Transactions on Magnetics, 2004, 40, 2050-2052. | 2.1 | 17 |
| 106 | SPICE simulation of SRM considering nonlinear magnetization characteristics. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2003, 142, 50-56. | 0.4 | 9 |
| 107 | Dynamic simulation model of switched reluctance generator. IEEE Transactions on Magnetics, 2003, 39, 3253-3255. | 2.1 | 47 |
| 108 | Dynamic analysis of interior permanent magnet motor based on a magnetic circuit model. IEEE Transactions on Magnetics, 2003, 39, 3250-3252. | 2.1 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Analysis of Operating Characteristics of Ferrite Orthogonal-Core Type Variable Inductor Based on Three-Dimensional Nonlinear Magnetic Circuit Considering the Iron Loss. IEEJ Transactions on Industry Applications, 2003, 123, 386-391. | 0.2 | 0 |
| 110 | SPICE Simulation of a SRM Considering the Nonlinear Magnetization Characteristics. IEEJ Transactions on Industry Applications, 2002, 122, 16-21. | 0.2 | 1 |
| 111 | Application of orthogonal-core transformer to series compensation for power system. IEEE Transactions on Magnetics, 2001, 37, 2858-2861. | 2.1 | 6 |
| 112 | Analysis of orthogonal-core type linear variable inductor and application to VAr compensator. IEEE Transactions on Magnetics, 2000, 36, 3565-3567. | 2.1 | 36 |
| 113 | Dynamic simulation model of switched reluctance generator. , 0, , . | | 0 |
| 114 | Electric and magnetic simultaneous transient analysis method of switched reluctance motor for use on SPICE. , 0, , . | | 4 |
| 115 | Dynamic analysis of interior permanent magnet motor based on a magnetic circuit model. , 0, , . | | 1 |
| 116 | Analysis of Dynamic Characteristics of Full-Pitch-Winding Switched Reluctance Motor Based on Reluctance Network Analysis. , 0, , . | | 0 |