

Peter Sergeant

List of Publications by Year in descending order

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2156
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dynamic Modeling and Analysis of Electric Motor With Integrated Magnetic Spring Driving Weaving Loom Application. IEEE Transactions on Industrial Electronics, 2023, 70, 2329-2338. | 7.9 | 6 |
| 2 | Design of an Integrated DC-Link Structure for Reconfigurable Integrated Modular Motor Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 2312-2321. | 7.9 | 3 |
| 3 | Design and Analysis of Hybrid Excitation Generators for Aircraft Applications Under Limiting Open-Circuit Voltage. IEEE Transactions on Transportation Electrification, 2022, 8, 3390-3400. | 7.8 | 4 |
| 4 | Performance Analysis of a Rewound Multiphase Synchronous Reluctance Machine. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 297-309. | 5.4 | 14 |
| 5 | Construction of Synchronous Reluctance Machines With Combined Star-Pentagon Configuration Using Standard Three-Phase Stator Frames. IEEE Transactions on Industrial Electronics, 2022, 69, 7582-7595. | 7.9 | 12 |
| 6 | Hysteresis Loss in NdFeB Permanent Magnets in a Permanent Magnet Synchronous Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 121-129. | 7.9 | 15 |
| 7 | Circulating-Current-Excited Switched Reluctance Generator System With Diode Rectifier. IEEE Transactions on Industrial Electronics, 2022, 69, 7859-7868. | 7.9 | 3 |
| 8 | Reconfigurable Modular Fault-Tolerant Converter Topology for Switched Reluctance Motors. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2890-2902. | 5.4 | 8 |
| 9 | Polygon-Retrofitted Integrated Modular Motor Drive for Switched Reluctance Machines. IEEE Transactions on Industrial Electronics, 2022, 69, 12469-12479. | 7.9 | 1 |
| 10 | Power Density Boosting Techniques for Reconfigurable Integrated Modular Motor Drives. IEEE Transactions on Energy Conversion, 2022, , 1-1. | 5.2 | 1 |
| 11 | An Enhanced Fault-Tolerant Control of a Five-Phase Synchronous Reluctance Motor Fed From a Three-to-Five-Phase Matrix Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4182-4194. | 5.4 | 15 |
| 12 | Multi-Agent Position Estimation in Modular Motor Drives Using Low-Resolution Sensors. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 105-115. | 6.8 | 3 |
| 13 | Approach to couple MATLAB Simscape and Simulink blocks for dynamic analysis of multiphase drive systems. AIP Conference Proceedings, 2022, , . | 0.4 | 0 |
| 14 | Metal Additive Manufacturing for Electrical Machines: Technology Review and Latest Advancements. Energies, 2022, 15, 1076. | 3.1 | 42 |
| 15 | Multi-Agent control in modular motor drives by means of gossip consensus. IET Electric Power Applications, 2022, 16, 483-497. | 1.8 | 3 |
| 16 | A Simple Commutation Method and a Cost-Effective Clamping Circuit for Three-to-Five-Phase Indirect-Matrix Converters. Electronics (Switzerland), 2022, 11, 808. | 3.1 | 3 |
| 17 | Additively Manufactured Ultralight Shaped-Profile Windings for HF Electrical Machines and Weight-Sensitive Applications. IEEE Transactions on Transportation Electrification, 2022, 8, 4313-4324. | 7.8 | 21 |
| 18 | Mitigation of High-Frequency Eddy Current Losses in Hairpin Winding Machines. Machines, 2022, 10, 328. | 2.2 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Mitigation of Torsional Vibrations in a Modular Drivetrain with Interleaving Control. <i>Machines</i> , 2022, 10, 429. | 2.2 | 3 |
| 20 | Electrical Machines Winding Technology: Latest Advancements for Transportation Electrification. <i>Machines</i> , 2022, 10, 563. | 2.2 | 29 |
| 21 | Perovskite Solar Cells and Thermoelectric Generator Hybrid Array Feeding a Synchronous Reluctance Motor for an Efficient Water Pumping System. <i>Mathematics</i> , 2022, 10, 2417. | 2.2 | 3 |
| 22 | Simultaneous DC-Link and Stator Current Ripple Reduction With Interleaved Carriers in Multiphase Controlled Integrated Modular Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 5616-5625. | 7.9 | 18 |
| 23 | Design, implementation and performance analysis of shunt active filter based on a matrix converter. <i>International Journal of Electronics</i> , 2021, 108, 395-410. | 1.4 | 1 |
| 24 | Refurbishing three-phase synchronous reluctance machines to multiphase machines. <i>Electrical Engineering</i> , 2021, 103, 139-152. | 2.0 | 14 |
| 25 | An Integrated Modular Motor Drive With Shared Cooling for Axial Flux Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 10467-10476. | 7.9 | 22 |
| 26 | Efficiency Measurement Strategy for a Planetary Gearbox with 2 Degrees of Freedom. <i>Springer Proceedings in Energy</i> , 2021, , 257-270. | 0.3 | 0 |
| 27 | Mathematical Modelling, Analysis and Control of a Three to Five-Phase Matrix Converter for Minimal Switching Losses. <i>Mathematics</i> , 2021, 9, 96. | 2.2 | 12 |
| 28 | Optimal Rotor Design of Synchronous Reluctance Machines Considering the Effect of Current Angle. <i>Mathematics</i> , 2021, 9, 344. | 2.2 | 10 |
| 29 | Performance Analysis of a Five-phase Synchronous Reluctance Motor Connected to Matrix Converter. , 2021, , . | | 6 |
| 30 | An Integrated Motor Drive with Enhanced Power Density Using Modular Converter Structure. , 2021, , . | | 4 |
| 31 | Effect of Using Different Types of Magnet Wires on the AC Losses of Electrical Machine Windings. , 2021, , . | | 7 |
| 32 | Drivetrain Torque Ripple Reduction With a Modular Motor Architecture. , 2021, , . | | 4 |
| 33 | Performance Improvement of Synchronous Reluctance Machines—A Review Research. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-11. | 2.1 | 29 |
| 34 | Electrothermal Design of a Discrete GaN-Based Converter for Integrated Modular Motor Drives. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 5390-5406. | 5.4 | 10 |
| 35 | Design Methodology for a PM Electrical Variable Transmission Used in HEV. <i>Springer Proceedings in Energy</i> , 2021, , 187-202. | 0.3 | 0 |
| 36 | Comparative Study of Switched Reluctance Generators with Separate Field Current and Circulating Current Excitations. <i>IEEE Transactions on Energy Conversion</i> , 2021, , 1-1. | 5.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Comparative Analysis of Refurbishing Methods of Three-Phase Synchronous Reluctance Machines to Five-Phase With Minimum Cost. IEEE Transactions on Industry Applications, 2021, 57, 6007-6022. | 4.9 | 10 |
| 38 | An Improved Fault-Tolerant Control of a Five-Phase Synchronous Reluctance Motor Connected to Matrix Converter. , 2021, , . | | 3 |
| 39 | Synchronous Reluctance Motor Drive System Fed From Three-Phase Matrix Converter. , 2021, , . | | 1 |
| 40 | Sizing Methodology Based on Scaling Laws for a Permanent Magnet Electrical Variable Transmission. IEEE Transactions on Industrial Electronics, 2020, 67, 1739-1749. | 7.9 | 12 |
| 41 | Effects of stator core welding on an induction machine " Measurements and modeling. Journal of Magnetism and Magnetic Materials, 2020, 499, 166280. | 2.3 | 7 |
| 42 | Extended End-Winding Cooling Insert for High Power Density Electric Machines With Concentrated Windings. IEEE Transactions on Energy Conversion, 2020, 35, 948-955. | 5.2 | 33 |
| 43 | Modeling Interlocking Effects on Core Losses in Electrical Steel. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 1836-1843. | 1.4 | 4 |
| 44 | Performance Comparison Between SiC and Si Inverter Modules in an Electrical Variable Transmission Application. , 2020, , . | | 1 |
| 45 | Magnetic Properties of Silicon Steel after Plastic Deformation. Materials, 2020, 13, 4361. | 2.9 | 21 |
| 46 | Distributed Control Strategies for Modular Permanent Magnet Synchronous Machines Taking Into Account Mutual Inductances. , 2020, , . | | 1 |
| 47 | Performance Improvement of Existing Three Phase Synchronous Reluctance Machine: Stator Upgrading to 5-Phase With Combined Star-Pentagon Winding. IEEE Access, 2020, 8, 143569-143583. | 4.2 | 22 |
| 48 | Comparison of an optimized electrical variable transmission with the Toyota Hybrid System. Applied Energy, 2020, 278, 115616. | 10.1 | 11 |
| 49 | Modelling and Design Methodology of an Improved Performance Photovoltaic Pumping System Employing Ferrite Magnet Synchronous Reluctance Motors. Mathematics, 2020, 8, 1429. | 2.2 | 11 |
| 50 | A Generic DC link Capacitor Sizing Methodology for Multi-phase Wide Bandgap Based Integrated Modular Motor Drives. , 2020, , . | | 2 |
| 51 | Energy efficiency improvement of water pumping system using synchronous reluctance motor fed by perovskite solar cells. International Journal of Energy Research, 2020, 44, 11629-11642. | 4.5 | 19 |
| 52 | Synchronous reluctance machines: performance evaluation with and without ferrite magnets. IOP Conference Series: Materials Science and Engineering, 2020, 966, 012107. | 0.6 | 2 |
| 53 | Active Demagnetization Fault Compensation for Axial Flux Permanent-Magnet Synchronous Machines Using an Analytical Inverse Model. IEEE Transactions on Energy Conversion, 2020, 35, 591-599. | 5.2 | 15 |
| 54 | Experimental Implementation of Power-Split Control Strategies in a Versatile Hardware-in-the-Loop Laboratory Test Bench for Hybrid Electric Vehicles Equipped with Electrical Variable Transmission. Applied Sciences (Switzerland), 2020, 10, 4253. | 2.5 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | A Novel Driving Method for Switched Reluctance Motor With Standard Full Bridge Inverter. IEEE Transactions on Energy Conversion, 2020, 35, 994-1003. | 5.2 | 7 |
| 56 | Energy Management Strategy Optimization for Application of an Electrical Variable Transmission System in a Hybrid Electric City Bus. , 2020, , . | | 2 |
| 57 | Quality Assessment of a 2D FE Based Lumped Parameter Electric Motor Thermal Model Using 3D FE Models. , 2020, , . | | 5 |
| 58 | Replacing Stator of Existing Three-phase Synchronous Reluctance Machines towards Improved Multiphase Machines Performance. , 2020, , . | | 6 |
| 59 | Comparison Between Two Fault Tolerant Deadbeat Controllers under Partial Demagnetization Faults in Permanent Magnet Synchronous Machines. , 2020, , . | | 1 |
| 60 | Directly Cooled Windings in Switched Reluctance Machines. , 2020, , . | | 2 |
| 61 | Design of a circumscribing polygon wide bandgap based integrated modular motor drive topology with thermally decoupled windings and power converters. , 2020, , . | | 5 |
| 62 | Wide Bandgap Based Modular Driving Techniques for Switched Reluctance Motor Drives. , 2020, , . | | 2 |
| 63 | An Inverse Thermal Modeling Approach for Thermal Parameter and Loss Identification in an Axial Flux Permanent Magnet Machine. IEEE Transactions on Industrial Electronics, 2019, 66, 1727-1735. | 7.9 | 39 |
| 64 | Multiphysics Analysis of a Stator Construction Method in Yokeless and Segmented Armature Axial Flux PM Machines. IEEE Transactions on Energy Conversion, 2019, 34, 139-146. | 5.2 | 44 |
| 65 | Experimental Investigation of Direct Contact Baseplate Cooling for Electric Vehicle Power Electronics. , 2019, , . | | 3 |
| 66 | A novel design and electromagnetic analysis for a linear switched reluctance motor. Electrical Engineering, 2019, 101, 609-618. | 2.0 | 4 |
| 67 | Two-Dimensional Fourier-Based Modeling of Electric Machines—An Overview. IEEE Transactions on Magnetics, 2019, 55, 1-17. | 2.1 | 29 |
| 68 | Implementation of Matrix Converter in Wind Energy Conversion System with Modified Control Techniques. Electric Power Components and Systems, 2019, 47, 1316-1331. | 1.8 | 11 |
| 69 | Hybrid Photovoltaic-Thermoelectric Generator Powered Synchronous Reluctance Motor for Pumping Applications. IEEE Access, 2019, 7, 146979-146988. | 4.2 | 29 |
| 70 | A holistic DC link architecture design method for multiphase integrated modular motor drives. , 2019, , . | | 7 |
| 71 | Module Connection Topologies and Interleaving Strategies for Integrated Modular Motor Drives. , 2019, , . | | 3 |
| 72 | Evaluation of the Rotor Eddy-Current Losses in High-Speed PMSMs With a Shielding Cylinder for Different Stator Sources. IEEE Transactions on Magnetics, 2019, 55, 1-10. | 2.1 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Assessment of Different Cooling Techniques for Reduced Mechanical Stress in the Windings of Electrical Machines. <i>Energies</i> , 2019, 12, 1967. | 3.1 | 10 |
| 74 | Solar Array Fed Synchronous Reluctance Motor Driven Water Pump: An Improved Performance Under Partial Shading Conditions. <i>IEEE Access</i> , 2019, 7, 77100-77115. | 4.2 | 49 |
| 75 | Performance Degradation of Surface PMSMs with Demagnetization Defect under Predictive Current Control. <i>Energies</i> , 2019, 12, 782. | 3.1 | 4 |
| 76 | Effect of Different Cutting Techniques on Magnetic Properties of Grain Oriented Steel Sheets and Axial Flux Machines. , 2019, , . | | 11 |
| 77 | An ECMS-based Approach for Energy Management of a HEV Equipped with an Electrical Variable Transmission. , 2019, , . | | 7 |
| 78 | Open-Phase Fault-Tolerant Current Reconstruction Control of Three-Phase Permanent Magnet Assisted Synchronous Reluctance Motors. , 2019, , . | | 5 |
| 79 | Prediction of Eddy Current Losses in Cooling Tubes of Direct Cooled Windings in Electric Machines. <i>Mathematics</i> , 2019, 7, 1096. | 2.2 | 8 |
| 80 | A Simple and Efficient Quasi-3D Magnetic Equivalent Circuit for Surface Axial Flux Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 8318-8333. | 7.9 | 49 |
| 81 | An Improved Torque Density Synchronous Reluctance Machine With a Combined Star-Δ Winding Layout. <i>IEEE Transactions on Energy Conversion</i> , 2018, 33, 1015-1024. | 5.2 | 38 |
| 82 | Influence of the temperature on energy management in battery-ultracapacitor electric vehicles. <i>Journal of Cleaner Production</i> , 2018, 176, 716-725. | 9.3 | 28 |
| 83 | Analysis and selection of harmonics sensitive to demagnetisation faults intended for condition monitoring of double rotor axial flux permanent magnet synchronous machines. <i>IET Electric Power Applications</i> , 2018, 12, 486-493. | 1.8 | 14 |
| 84 | A comparison of the full and half toroidal continuously variable transmissions in terms of dynamics of ratio variation and efficiency. <i>Mechanism and Machine Theory</i> , 2018, 121, 299-316. | 4.5 | 14 |
| 85 | Computational-Time Reduction of Fourier-Based Analytical Models. <i>IEEE Transactions on Energy Conversion</i> , 2018, 33, 281-289. | 5.2 | 11 |
| 86 | Parametric Studies for Combined Convective and Conductive Heat Transfer for YASA Axial Flux Permanent Magnet Synchronous Machines. <i>Energies</i> , 2018, 11, 2983. | 3.1 | 9 |
| 87 | Energy Management Strategy for Oscillating Drivetrains Equipped with an Electric Variable Transmission. , 2018, , . | | 0 |
| 88 | Predictive Current Control vs. PI Control for Surface Mounted Permanent Magnet Machines. , 2018, , . | | 7 |
| 89 | Technical Assessment of Utilizing an Electrical Variable Transmission System in Hybrid Electric Vehicles. , 2018, , . | | 5 |
| 90 | Magnetic Equivalent Circuit Model of a Permanent Magnet Electrical Variable Transmission. , 2018, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Adaptive PI Controller for Slip controlled Belt Continuously Variable Transmission. IFAC-PapersOnLine, 2018, 51, 101-106. | 0.9 | 2 |
| 92 | Permanent Magnet-Assisted Synchronous Reluctance Motor Employing a Hybrid Star-Delta Winding for High Speed Applications. , 2018, , . | | 3 |
| 93 | A Control Method with Ring Structure for Switched Reluctance Motor. , 2018, , . | | 3 |
| 94 | Controlling a Switched Reluctance Motor with a Conventional Three-Phase Bridge Instead of Asymmetric H-Bridges. Energies, 2018, 11, 3242. | 3.1 | 3 |
| 95 | Evaluation of the Rotor Eddy-Currents in High-Speed PMSMs with a Shielding Cylinder. , 2018, , . | | 1 |
| 96 | Evaluation of the Torque in High-Speed PMSMs With a Shielding Cylinder and BLDC Control. IEEE Transactions on Magnetics, 2018, 54, 1-8. | 2.1 | 4 |
| 97 | Model-Based Comparison of Thermo-Hydraulic Performance of Various Cooling Methods for Power Electronics of Electric Vehicles. , 2018, , . | | 6 |
| 98 | A 3D Dynamic Lumped Parameter Thermal Network of Air-Cooled YASA Axial Flux Permanent Magnet Synchronous Machine. Energies, 2018, 11, 774. | 3.1 | 15 |
| 99 | Efficiency of a CVT-Operated EVT Experimentally Evaluated Against Half-Toroidal and Push-Belt CVTs. IEEE Transactions on Industrial Electronics, 2018, 65, 3095-3103. | 7.9 | 10 |
| 100 | Thermally Induced Mechanical Stress in the Stator Windings of Electrical Machines. Energies, 2018, 11, 2113. | 3.1 | 13 |
| 101 | ADVANCED LUMPED PARAMETER MODEL FOR SWITCHED RELUCTANCE MOTORS WITH HIGH PERFORMANCE COOLING. , 2018, , . | | 6 |
| 102 | Optimal Control for a Hybrid Excited Dual Mechanical Port Electric Machine. IEEE Transactions on Energy Conversion, 2017, 32, 599-607. | 5.2 | 23 |
| 103 | Demagnetization Fault Detection in Axial Flux PM Machines by Using Sensing Coils and an Analytical Model. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 24 |
| 104 | Analytical modeling of axial flux PM machines with eccentricities. International Journal of Applied Electromagnetics and Mechanics, 2017, 53, 757-777. | 0.6 | 5 |
| 105 | Loss Identification in a Double Rotor Electrical Variable Transmission. IEEE Transactions on Industrial Electronics, 2017, 64, 7731-7740. | 7.9 | 14 |
| 106 | Analytical Model for Combined Study of Magnet Demagnetization and Eccentricity Defects in Axial Flux Permanent Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2017, 53, 1-12. | 2.1 | 35 |
| 107 | Benchmarking the permanent magnet electrical variable transmission against the half toroidal continuously variable transmission. Mechanism and Machine Theory, 2017, 113, 141-157. | 4.5 | 10 |
| 108 | Modeling and validation of losses due to unbalanced loading of stand-alone generators. , 2017, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Design of low cost and efficient photovoltaic pumping system utilizing synchronous reluctance motor. , 2017, , . | | 5 |
| 110 | Dual rotor electrical variable transmission for hybrid vehicles: Performance analysis with focus on losses over a driving cycle. , 2017, , . | | 1 |
| 111 | Two-dimensional fourier-based modeling of electric machines. , 2017, , . | | 3 |
| 112 | Study of the Effect of a Shielding Cylinder on the Torque in a Permanent-Magnet Synchronous Machine Considering Two Torque-Producing Mechanisms. IEEE Transactions on Magnetics, 2017, 53, 1-8. | 2.1 | 9 |
| 113 | Applicability of Fractional Slot Axial Flux Permanent Magnet Synchronous Machines in the Field Weakening Region. IEEE Transactions on Energy Conversion, 2017, 32, 111-121. | 5.2 | 27 |
| 114 | Half toroidal continuously variable transmission: Trade-off between dynamics of ratio variation and efficiency. Mechanism and Machine Theory, 2017, 107, 183-196. | 4.5 | 12 |
| 115 | Relevance of Including Saturation and Position Dependence in the Inductances for Accurate Dynamic Modeling and Control of SynRMs. IEEE Transactions on Industry Applications, 2017, 53, 151-160. | 4.9 | 45 |
| 116 | Fully predictive heat transfer coefficient modeling of an axial flux permanent magnet synchronous machine with geometrical parameters of the magnets. Applied Thermal Engineering, 2017, 110, 1343-1357. | 6.0 | 21 |
| 117 | Torque Analysis on a Double Rotor Electrical Variable Transmission With Hybrid Excitation. IEEE Transactions on Industrial Electronics, 2017, 64, 60-68. | 7.9 | 37 |
| 118 | Stator heat extraction system for axial flux yokeless and segmented armature machines. , 2017, , . | | 18 |
| 119 | Comparison between two combined star-delta configurations on synchronous reluctance motors performance. , 2017, , . | | 5 |
| 120 | Thermal parameter identification of an electrical machine using inverse modelling and non-collocated thermal sensors. , 2017, , . | | 1 |
| 121 | Performance Comparison of Conventional Synchronous Reluctance Machines and PM-Assisted Types with Combined Star-Delta Winding. Energies, 2017, 10, 1500. | 3.1 | 22 |
| 122 | Optimal design and implementation of a drivetrain for an ultra-light electric vehicle. International Journal of Vehicle Design, 2016, 72, 262. | 0.3 | 2 |
| 123 | Comparison of Three Analytical Methods for the Precise Calculation of Cogging Torque and Torque Ripple in Axial Flux PM Machines. Mathematical Problems in Engineering, 2016, 2016, 1-14. | 1.1 | 16 |
| 124 | Analytical Modeling of Static Eccentricities in Axial Flux Permanent-Magnet Machines with Concentrated Windings. Energies, 2016, 9, 892. | 3.1 | 22 |
| 125 | Simple Design Approach for Low Torque Ripple and High Output Torque Synchronous Reluctance Motors. Energies, 2016, 9, 942. | 3.1 | 31 |
| 126 | Development of Correlations for Windage Power Losses Modeling in an Axial Flux Permanent Magnet Synchronous Machine with Geometrical Features of the Magnets. Energies, 2016, 9, 1009. | 3.1 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Reducing Losses Due to Fringing Flux in an Axial-Flux Permanent-Magnet Synchronous Machine. IEEE Transactions on Magnetics, 2016, 52, 1-8. | 2.1 | 6 |
| 128 | Time- and Spatial-Harmonic Content in Synchronous Electrical Machines. IEEE Transactions on Magnetics, 2016, , 1-1. | 2.1 | 24 |
| 129 | Power flow in an induction machine based electrical variable transmission. , 2016, , . | | 7 |
| 130 | Effects of cutting and annealing of amorphous materials for high speed permanent magnet machines. , 2016, , . | | 9 |
| 131 | Demagnetization fault detection in axial flux PM machines by using sensing coils and an analytical model. , 2016, , . | | 0 |
| 132 | Time- and spatial-harmonic content in electrical machines and its application in Fourier-based models. , 2016, , . | | 1 |
| 133 | Combined Star-Delta Windings to Improve Synchronous Reluctance Motor Performance. IEEE Transactions on Energy Conversion, 2016, 31, 1479-1487. | 5.2 | 48 |
| 134 | Influence of stator slot openings on losses and torque in axial flux permanent magnet machines. Mathematics and Computers in Simulation, 2016, 130, 22-31. | 4.4 | 7 |
| 135 | Field-Oriented Control for an Induction-Machine-Based Electrical Variable Transmission. IEEE Transactions on Vehicular Technology, 2016, 65, 4230-4240. | 6.3 | 21 |
| 136 | Torque and torque components in high-speed permanent-magnet synchronous machines with a shielding cylinder. Mathematics and Computers in Simulation, 2016, 130, 70-80. | 4.4 | 9 |
| 137 | STATOR HEAT TRANSFER PREDICTION OF DISK-TYPE ELECTRICAL MACHINES. , 2016, , . | | 0 |
| 138 | Optimal design and implementation of a drivetrain for an ultra-light electric vehicle. International Journal of Vehicle Design, 2016, 72, 262. | 0.3 | 0 |
| 139 | Transient analysis and stability limits for synchronous reluctance motors considering saturation effects. , 2015, , . | | 9 |
| 140 | Voltage Sources in 2D Fourier-Based Analytical Models of Electric Machines. Mathematical Problems in Engineering, 2015, 2015, 1-8. | 1.1 | 4 |
| 141 | Coupled Electromagnetic and Thermal Analysis of an Axial Flux PM Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 25 |
| 142 | Evaluation of the additional loss due to supply voltage distortion in relation to induction motor efficiency rating. , 2015, , . | | 4 |
| 143 | Concept study of a double rotor induction machine used as continuously variable transmission. , 2015, , . | | 3 |
| 144 | Effect of control strategies on the two torque-producing mechanisms in high-speed PMSMs. , 2015, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Comparison of Iron Loss Models for Electrical Machines With Different Frequency Domain and Time Domain Methods for Excess Loss Prediction. IEEE Transactions on Magnetics, 2015, 51, 1-10. | 2.1 | 68 |
| 146 | Comparison of Methods for Permanent Magnet Eddy-Current Loss Computations With and Without Reaction Field Considerations in Axial Flux PMSM. IEEE Transactions on Magnetics, 2015, 51, 1-11. | 2.1 | 33 |
| 147 | Comparison of Frequency and Time-Domain Iron and Magnet Loss Modeling Including PWM Harmonics in a PMSG for a Wind Energy Application. IEEE Transactions on Energy Conversion, 2015, 30, 476-486. | 5.2 | 27 |
| 148 | 3-D Eddy Current and Fringing-Flux Distribution in an Axial-Flux Permanent-Magnet Synchronous Machine With Stator in Laminated Iron or SMC. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 17 |
| 149 | Convective heat transfer prediction in disk-type electrical machines. Applied Thermal Engineering, 2015, 91, 778-790. | 6.0 | 29 |
| 150 | Steady-state analysis and stability of synchronous reluctance motors considering saturation effects. , 2015, , . | | 5 |
| 151 | A numerical design of a frequency-based analytical model for demagnetization detection in axial flux permanent magnet synchronous machines. , 2015, , . | | 0 |
| 152 | Synchronous Reluctance Motor Performance Based on Different Electrical Steel Grades. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 51 |
| 153 | Loss evaluation of interior permanent-magnet synchronous Machine drives using T-type multilevel converters. , 2015, , . | | 4 |
| 154 | Synchronous reluctance motors performance based on different electrical steel grades. , 2015, , . | | 0 |
| 155 | Adding Inverter Fault Detection to Model-Based Predictive Control for Flying-Capacitor Inverters. IEEE Transactions on Industrial Electronics, 2015, 62, 2054-2063. | 7.9 | 62 |
| 156 | Integrated Model of Power Electronics, Electric Motor, and Gearbox for a Light EV. Journal of Power Electronics, 2015, 15, 1640-1653. | 1.5 | 3 |
| 157 | Performance and implementation issues considering the use of thin laminated steel sheets in segmented armature axial-flux PM machines. , 2014, , . | | 4 |
| 158 | Analytical modeling of eddy current losses in Axial Flux PMSM using resistance network. , 2014, , . | | 11 |
| 159 | Modeling and control of an induction machine based electrical variable transmission. , 2014, , . | | 1 |
| 160 | 2D analytical torque study of slotted high-speed PMSMs considering pole pairs, slots per pole per phase and coil throw. , 2014, , . | | 5 |
| 161 | Losses due to transverse flux in axial flux permanent magnet synchronous machines. , 2014, , . | | 0 |
| 162 | Magnetic stray field based position detection in BLDC outer rotor permanent magnet synchronous machines. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 544-554. | 1.9 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Identification of Demagnetization Faults in Axial Flux Permanent Magnet Synchronous Machines Using an Inverse Problem Coupled With an Analytical Model. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 40 |
| 164 | Influence of the Amount of Permanent-Magnet Material in Fractional-Slot Permanent-Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2014, 61, 4979-4989. | 7.9 | 38 |
| 165 | Losses in VSI-PWM fed axial flux machines. , 2014, , . | | 2 |
| 166 | 2-D Analytical Subdomain Model of a Slotted PMSM With Shielding Cylinder. IEEE Transactions on Magnetics, 2014, 50, 1-10. | 2.1 | 47 |
| 167 | Evaluation of the Efficiency of Line-Start Permanent-Magnet Machines as a Function of the Operating Temperature. IEEE Transactions on Industrial Electronics, 2014, 61, 4443-4454. | 7.9 | 37 |
| 168 | Analytical Modeling of Surface PMSM Using a Combined Solution of Maxwell's Equations and Magnetic Equivalent Circuit. IEEE Transactions on Magnetics, 2014, 50, 1-13. | 2.1 | 75 |
| 169 | A Computationally Efficient Method to Determine Iron and Magnet Losses in VSI-PWM Fed Axial Flux Permanent Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2014, 50, 1-10. | 2.1 | 20 |
| 170 | Influence of Supply Voltage Distortion on the Energy Efficiency of Line-Start Permanent-Magnet Motors. IEEE Transactions on Industry Applications, 2014, 50, 1034-1043. | 4.9 | 17 |
| 171 | Axial-Flux PM Machines With Variable Air Gap. IEEE Transactions on Industrial Electronics, 2014, 61, 730-737. | 7.9 | 59 |
| 172 | The Effect of the Electrical Steel Properties on the Temperature Distribution in Direct-Drive PM Synchronous Generators for 5 MW Wind Turbines. IEEE Transactions on Magnetics, 2013, 49, 5371-5377. | 2.1 | 15 |
| 173 | Drivetrain design for an ultra light electric vehicle with high efficiency. , 2013, , . | | 6 |
| 174 | Rotor Geometry Design of Interior PMSMs With and Without Flux Barriers for More Accurate Sensorless Control. IEEE Transactions on Industrial Electronics, 2012, 59, 2457-2465. | 7.9 | 47 |
| 175 | Effect of segmentation on eddy-current loss in permanent-magnets of axial-flux PM machines using a multilayer-2D — 2D coupled model. , 2012, , . | | 10 |
| 176 | Homogenized eddy current model for non-destructive testing of metallic cables. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1656-1680. | 0.9 | 1 |
| 177 | Reducing the permanent magnet content in fractional-slot concentrated-windings permanent magnet synchronous machines. , 2012, , . | | 4 |
| 178 | Influence of electrical steel grade on the temperature distribution in direct-drive PM synchronous generators for 5 MW wind turbines. , 2012, , . | | 2 |
| 179 | A Combined Wye-Delta Connection to Increase the Performance of Axial-Flux PM Machines With Concentrated Windings. IEEE Transactions on Energy Conversion, 2012, 27, 403-410. | 5.2 | 49 |
| 180 | A Multilayer 2-D—2-D Coupled Model for Eddy Current Calculation in the Rotor of an Axial-Flux PM Machine. IEEE Transactions on Energy Conversion, 2012, 27, 784-791. | 5.2 | 42 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Evaluation of a Simple Lamination Stacking Method for the Teeth of an Axial Flux Permanent-Magnet Synchronous Machine With Concentrated Stator Windings. IEEE Transactions on Magnetics, 2012, 48, 999-1002. | 2.1 | 17 |
| 182 | A Non-Destructive Methodology for Estimating the Magnetic Material Properties of an Asynchronous Motor. IEEE Transactions on Magnetics, 2012, 48, 1621-1624. | 2.1 | 16 |
| 183 | Influence of Soft Magnetic Material in a Permanent Magnet Synchronous Machine With a Commercial Induction Machine Stator. IEEE Transactions on Magnetics, 2012, 48, 1645-1648. | 2.1 | 3 |
| 184 | Improving the torque output in radial- and axial-flux permanent-magnet synchronous machines with concentrated windings by using a combined wye-delta connection. , 2011, , . | | 3 |
| 185 | Modelling the impact of the stator currents on inductance-based sensorless control of brushless DC-machines. , 2011, , . | | 3 |
| 186 | Magnetic material identification of a switched reluctance motor. International Journal of Applied Electromagnetics and Mechanics, 2011, 37, 35-49. | 0.6 | 10 |
| 187 | ELECTROMAGNETIC LOSSES IN MAGNETIC SHIELDS FOR BURIED HIGH VOLTAGE CABLES. Progress in Electromagnetics Research, 2011, 115, 441-460. | 4.4 | 11 |
| 188 | Influence of contact resistance on shielding efficiency of shielding gutters for high-voltage cables. IET Electric Power Applications, 2011, 5, 715. | 1.8 | 7 |
| 189 | Analysis of Hysteresis in Resonance-Based Position Estimation of Switched Reluctance Drives. IEEE Transactions on Magnetics, 2011, 47, 1022-1025. | 2.1 | 12 |
| 190 | Influence of the Electrical Steel Grade on the Performance of the Direct-Drive and Single Stage Gearbox Permanent-Magnet Machine for Wind Energy Generation, Based on an Analytical Model. IEEE Transactions on Magnetics, 2011, 47, 4781-4790. | 2.1 | 18 |
| 191 | Finiteâ€element analysis of a shielded pulsedâ€current induction heater. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 1585-1595. | 0.9 | 0 |
| 192 | Magnetic Shielding of Levitation Melting Devices. IEEE Transactions on Magnetics, 2010, 46, 686-689. | 2.1 | 9 |
| 193 | Losses in Sensorless Controlled Permanent-Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2010, 46, 590-593. | 2.1 | 13 |
| 194 | Comparison of Nonoriented and Grain-Oriented Material in an Axial Flux Permanent-Magnet Machine. IEEE Transactions on Magnetics, 2010, 46, 279-285. | 2.1 | 51 |
| 195 | An Inverse Approach for Magnetic Material Characterization of an EI Core Electromagnetic Inductor. IEEE Transactions on Magnetics, 2010, 46, 622-625. | 2.1 | 18 |
| 196 | A Two-Level Genetic Algorithm for Electromagnetic Optimization. IEEE Transactions on Magnetics, 2010, 46, 2585-2595. | 2.1 | 45 |
| 197 | Optimized Design Considering the Mass Influence of an Axial Flux Permanent-Magnet Synchronous Generator With Concentrated Pole Windings. IEEE Transactions on Magnetics, 2010, 46, 4101-4107. | 2.1 | 66 |
| 198 | Comparison of analytical, finite element and neural network methods to study magnetic shielding. Simulation Modelling Practice and Theory, 2010, 18, 206-216. | 3.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Geometrical optimization of an ultrasonic tactile plate. <i>Sensors and Actuators A: Physical</i> , 2010, 161, 91-100. | 4.1 | 12 |
| 200 | A sensorless PMSM drive using modified high-frequency test pulse sequences for the purpose of a discrete-time current controller with fixed sampling frequency. <i>Mathematics and Computers in Simulation</i> , 2010, 81, 367-381. | 4.4 | 17 |
| 201 | Nondestructive Testing of Metallic Cables Based on a Homogenized Model and Global Measurements. <i>Mathematical Problems in Engineering</i> , 2010, 2010, 1-21. | 1.1 | 1 |
| 202 | Analysis of a Nondestructive Evaluation Technique for Defect Characterization in Magnetic Materials Using Local Magnetic Measurements. <i>Mathematical Problems in Engineering</i> , 2010, 2010, 1-18. | 1.1 | 6 |
| 203 | Analysis of hysteresis in resonance-based position estimation of switched reluctance drives. , 2010, , . | | 0 |
| 204 | Influence of contact resistance on shielding efficiency of shielding gutters for HV cables. , 2010, , . | | 0 |
| 205 | Efficiency optimization of an axial flux permanent-magnet synchronous generator with concentrated pole windings. , 2010, , . | | 2 |
| 206 | Influence of the electrical steel grade on the performance of the direct-drive permanent magnet machine for wind energy generation. , 2010, , . | | 0 |
| 207 | A Sensorless Drive by Applying Test Pulses Without Affecting the Average-Current Samples. <i>IEEE Transactions on Power Electronics</i> , 2010, 25, 875-888. | 7.9 | 73 |
| 208 | Rotor geometry design of an interior permanent-magnet synchronous machine for more accurate sensorless control. , 2010, , . | | 4 |
| 209 | Eddy current based, contactless position transducer for a gas handle. , 2010, , . | | 1 |
| 210 | Modeling the Electromagnetic Behavior of Nanocrystalline Soft Materials. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 678-686. | 2.1 | 5 |
| 211 | Thermal analysis of magnetic shields for induction heating. <i>IET Electric Power Applications</i> , 2009, 3, 543. | 1.8 | 11 |
| 212 | Optimization of an Octangular Double-Layered Shield Using Multiple Forward Models. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 1586-1589. | 2.1 | 2 |
| 213 | Effect of Rotor Geometry and Magnetic Saturation in Sensorless Control of PM Synchronous Machines. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 1756-1759. | 2.1 | 30 |
| 214 | Magnetic Material Identification in Geometries With Non-Uniform Electromagnetic Fields Using Global and Local Magnetic Measurements. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4157-4160. | 2.1 | 20 |
| 215 | Analysis of perforated magnetic shields for electric power applications. <i>IET Electric Power Applications</i> , 2009, 3, 123. | 1.8 | 9 |
| 216 | Characterization and optimization of a permanent magnet synchronous machine. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2009, 28, 272-285. | 0.9 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 217 | Adjoint variable method for time-harmonic Maxwell equations. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 1202-1215. | 0.9 | 7 |
| 218 | Core losses in nanocrystalline soft magnetic materials under square voltage waveforms. Journal of Magnetism and Magnetic Materials, 2008, 320, 53-57. | 2.3 | 15 |
| 219 | Two-Level Response and Parameter Mapping Optimization for Magnetic Shielding. IEEE Transactions on Magnetics, 2008, 44, 301-308. | 2.1 | 25 |
| 220 | Circuit Method for Conductive and Nonlinear Ferromagnetic Materials. IEEE Transactions on Magnetics, 2008, 44, 1326-1329. | 2.1 | 1 |
| 221 | Plane Wave Model for the Electromagnetic Behavior of SiFe Alloys. IEEE Transactions on Magnetics, 2008, 44, 463-472. | 2.1 | 1 |
| 222 | Numerical Model for the Drag Force Method to Evaluate Hysteresis Loss. IEEE Transactions on Magnetics, 2008, 44, 842-845. | 2.1 | 5 |
| 223 | Inductive coupler for contactless power transmission. IET Electric Power Applications, 2008, 2, 1-7. | 1.8 | 105 |
| 224 | Magnetic shielding of buried high-voltage (HV) cables by conductive metal plates. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 170-180. | 0.9 | 7 |
| 225 | Reducing steady-state current distortions in sensorless control strategies by using adaptive test pulses. IEEE Applied Power Electronics Conference and Exposition, 2008, , . | 0.0 | 9 |
| 226 | Analysis of the Local Material Degradation Near Cutting Edges of Electrical Steel Sheets. IEEE Transactions on Magnetics, 2008, 44, 3173-3176. | 2.1 | 60 |
| 227 | Segmentation of Magnets to Reduce Losses in Permanent-Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2008, 44, 4409-4412. | 2.1 | 69 |
| 228 | Estimation errors in sensorless drives due to the magnetic interaction. , 2008, , . | | 1 |
| 229 | Sensing local inhomogeneity in electrical steels by the drag force method. Journal of Applied Physics, 2008, 103, . | 2.5 | 1 |
| 230 | Adjoint Variable Method for the Study of Combined Active and Passive Magnetic Shielding. Mathematical Problems in Engineering, 2008, 2008, 1-15. | 1.1 | 6 |
| 231 | Electromagnetic shielding of high-voltage cables. Journal of Magnetism and Magnetic Materials, 2007, 316, e908-e911. | 2.3 | 25 |
| 232 | Hardware control of an active magnetic shield. IET Science, Measurement and Technology, 2007, 1, 152-159. | 1.6 | 6 |
| 233 | Magnetic Nondestructive Evaluation of Bending Fatigue Damage Using the Drag Force Method. IEEE Transactions on Magnetics, 2007, 43, 2746-2748. | 2.1 | 3 |
| 234 | Software control of an active magnetic shield. IET Science, Measurement and Technology, 2006, 153, 13-21. | 0.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Fast multipole accelerated finite element-boundary element analysis of shielded induction heaters. IEEE Transactions on Magnetics, 2006, 42, 1407-1410. | 2.1 | 9 |
| 236 | Space mapping method for the design of passive shields. Journal of Applied Physics, 2006, 99, 08H901. | 2.5 | 5 |
| 237 | Magnetic shielding of a cylindrical shield in nonlinear material with hysteresis. , 2006, , . | | 0 |
| 238 | Optimization of a Si gradient in laminated SiFe alloys. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1491-1494. | 2.3 | 4 |
| 239 | Active and passive magnetic shielding for stray field reduction of an induction heater with axial flux. IET Electric Power Applications, 2005, 152, 1359. | 1.4 | 13 |
| 240 | Analytical formulation for magnetic shields taking into account hysteresis effects in the Rayleigh region. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 1470-1491. | 0.9 | 7 |
| 241 | Optimizing a transformer driven active magnetic shield in induction heating. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 1241-1257. | 0.9 | 3 |
| 242 | Magnetic shielding properties of sheet metal products taking into account hysteresis effects. Journal of Applied Physics, 2005, 97, 10E511. | 2.5 | 3 |
| 243 | Magnetic network model including loss separation and Preisach principles for the evaluation of core losses in devices. Journal of Applied Physics, 2005, 97, 10E515. | 2.5 | 1 |
| 244 | Optimization of multilayered nonlinear crystalline alloys for shielding. Journal of Applied Physics, 2005, 97, 10F904. | 2.5 | 0 |
| 245 | Magnetic field computation for optimized shielding of induction heaters. Journal of Computational and Applied Mathematics, 2004, 168, 437-446. | 2.0 | 7 |
| 246 | Passive and Active Electromagnetic Shielding of Induction Heaters. IEEE Transactions on Magnetics, 2004, 40, 675-678. | 2.1 | 26 |
| 247 | Optimizing active and passive magnetic shields in induction heating by a genetic algorithm. IEEE Transactions on Magnetics, 2003, 39, 3486-3496. | 2.1 | 27 |