

# Peter Sergeant

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

212  
papers

2,232  
citations

25  
h-index

34  
g-index

247  
ext. papers

2,936  
ext. citations

3.3  
avg, IF

5.64  
L-index

#	Paper	IF	Citations
212	Power Density Boosting Techniques for Reconfigurable Integrated Modular Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , <b>2022</b> , 1-1	5.4	
211	An Enhanced Fault-Tolerant Control of a Five-Phase Synchronous Reluctance Motor Fed from a Three-to-Five-phase Matrix Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2022</b> , 1-1	5.6	3
210	Multi-Agent Position Estimation in Modular Motor Drives Using Low-Resolution Sensors. <i>IEEE Open Journal of the Industrial Electronics Society</i> , <b>2022</b> , 3, 105-115	3.6	1
209	Metal Additive Manufacturing for Electrical Machines: Technology Review and Latest Advancements. <i>Energies</i> , <b>2022</b> , 15, 1076	3.1	5
208	A Simple Commutation Method and a Cost-Effective Clamping Circuit for Three-to-Five-Phase Indirect-Matrix Converters. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 808	2.6	0
207	Dynamic Modelling and Analysis of Electric Motor with Integrated Magnetic Spring Driving Weaving Loom Application. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	1
206	Additively-Manufactured Ultra-Light Shaped-Profile Windings for HF Electrical Machines and Weight-Sensitive Applications. <i>IEEE Transactions on Transportation Electrification</i> , <b>2022</b> , 1-1	7.6	3
205	Mitigation of High-Frequency Eddy Current Losses in Hairpin Winding Machines. <i>Machines</i> , <b>2022</b> , 10, 3282.	2.9	2
204	Mitigation of Torsional Vibrations in a Modular Drivetrain with Interleaving Control. <i>Machines</i> , <b>2022</b> , 10, 429	2.9	0
203	Reconfigurable Modular Fault-Tolerant Converter Topology for Switched Reluctance Motors. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	2
202	An Improved Fault-Tolerant Control of a Five-Phase Synchronous Reluctance Motor Connected to Matrix Converter <b>2021</b> ,		1
201	Polygon Retrofitted Integrated Modular Motor Drive for Switched Reluctance Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	0
200	Comparative Study of Switched Reluctance Generators with Separate Field Current and Circulating Current Excitations. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5.4	0
199	Comparative Analysis of Refurbishing Methods of Three-Phase Synchronous Reluctance Machines to Five-Phase With Minimum Cost. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 6007-6022	4.3	2
198	Performance Analysis of a Five-phase Synchronous Reluctance Motor Connected to Matrix Converter <b>2021</b> ,		3
197	Effect of Using Different Types of Magnet Wires on the AC Losses of Electrical Machine Windings <b>2021</b> ,		3
196	Drivetrain Torque Ripple Reduction With a Modular Motor Architecture <b>2021</b> ,		1

195	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> , <b>2021</b> , 68, 5616-5625	8.9	6
194	Design, implementation and performance analysis of shunt active filter based on a matrix converter. <i>International Journal of Electronics</i> , <b>2021</b> , 108, 395-410	1.2	1
193	Refurbishing three-phase synchronous reluctance machines to multiphase machines. <i>Electrical Engineering</i> , <b>2021</b> , 103, 139-152	1.5	10
192	An Integrated Modular Motor Drive With Shared Cooling for Axial Flux Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 10467-10476	8.9	6
191	Efficiency Measurement Strategy for a Planetary Gearbox with 2 Degrees of Freedom. <i>Springer Proceedings in Energy</i> , <b>2021</b> , 257-270	0.2	
190	Design of an Integrated DC-Link Structure for Reconfigurable Integrated Modular Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
189	Design and Analysis of Hybrid Excitation Generators for Aircraft Applications Under Limiting Open-Circuit Voltage. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 1-1	7.6	0
188	Mathematical Modelling, Analysis and Control of a Three to Five-Phase Matrix Converter for Minimal Switching Losses. <i>Mathematics</i> , <b>2021</b> , 9, 96	2.3	3
187	Optimal Rotor Design of Synchronous Reluctance Machines Considering the Effect of Current Angle. <i>Mathematics</i> , <b>2021</b> , 9, 344	2.3	4
186	. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-11	2	8
185	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> , <b>2021</b> , 9, 5390-5406	5.6	2
184	Performance Analysis of a Rewound Multiphase Synchronous Reluctance Machine. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	5
183	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
182	Design Methodology for a PM Electrical Variable Transmission Used in HEV. <i>Springer Proceedings in Energy</i> , <b>2021</b> , 187-202	0.2	
181	Hysteresis Loss in NdFeB Permanent Magnets in a Permanent Magnet Synchronous Machine. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	5
180	Circulating-Current-Excited Switched Reluctance Generator System with Diode Rectifier. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	0
179	Synchronous reluctance machines: performance evaluation with and without ferrite magnets. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 966, 012107	0.4	1
178	Active Demagnetization Fault Compensation for Axial Flux Permanent-Magnet Synchronous Machines Using an Analytical Inverse Model. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 591-599	5.4	7

177	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. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4253	2.6	5
176	A Novel Driving Method for Switched Reluctance Motor With Standard Full Bridge Inverter. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 994-1003	5.4	4
175	Quality Assessment of a 2D FE Based Lumped Parameter Electric Motor Thermal Model Using 3D FE Models <b>2020</b> ,		1
174	Design of a circumscribing polygon wide bandgap based integrated modular motor drive topology with thermally decoupled windings and power converters <b>2020</b> ,		2
173	Wide Bandgap Based Modular Driving Techniques for Switched Reluctance Motor Drives <b>2020</b> ,		2
172	<b>2020</b> ,		2
171	Effects of stator core welding on an induction machine [Measurements and modeling. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 499, 166280	2.8	4
170	Extended End-Winding Cooling Insert for High Power Density Electric Machines With Concentrated Windings. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 948-955	5.4	12
169	Modeling Interlocking Effects on Core Losses in Electrical Steel. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2020</b> , 15, 1836-1843	1	1
168	Performance Comparison Between SiC and Si Inverter Modules in an Electrical Variable Transmission Application <b>2020</b> ,		1
167	Magnetic Properties of Silicon Steel after Plastic Deformation. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
166	Performance Improvement of Existing Three Phase Synchronous Reluctance Machine: Stator Upgrading to 5-Phase With Combined Star-Pentagon Winding. <i>IEEE Access</i> , <b>2020</b> , 8, 143569-143583	3.5	14
165	Comparison of an optimized electrical variable transmission with the Toyota Hybrid System. <i>Applied Energy</i> , <b>2020</b> , 278, 115616	10.7	4
164	Modelling and Design Methodology of an Improved Performance Photovoltaic Pumping System Employing Ferrite Magnet Synchronous Reluctance Motors. <i>Mathematics</i> , <b>2020</b> , 8, 1429	2.3	3
163	A Generic DC link Capacitor Sizing Methodology for Multi-phase Wide Bandgap Based Integrated Modular Motor Drives <b>2020</b> ,		2
162	Energy efficiency improvement of water pumping system using synchronous reluctance motor fed by perovskite solar cells. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 11629-11642	4.5	13
161	Sizing Methodology Based on Scaling Laws for a Permanent Magnet Electrical Variable Transmission. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 1739-1749	8.9	8
160	A holistic DC link architecture design method for multiphase integrated modular motor drives <b>2019</b> ,		2

159	Evaluation of the Rotor Eddy-Current Losses in High-Speed PMSMs With a Shielding Cylinder for Different Stator Sources. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-10	2	9
158	Assessment of Different Cooling Techniques for Reduced Mechanical Stress in the Windings of Electrical Machines. <i>Energies</i> , <b>2019</b> , 12, 1967	3.1	4
157	Solar Array Fed Synchronous Reluctance Motor Driven Water Pump: An Improved Performance Under Partial Shading Conditions. <i>IEEE Access</i> , <b>2019</b> , 7, 77100-77115	3.5	23
156	Performance Degradation of Surface PMSMs with Demagnetization Defect under Predictive Current Control. <i>Energies</i> , <b>2019</b> , 12, 782	3.1	1
155	An Inverse Thermal Modeling Approach for Thermal Parameter and Loss Identification in an Axial Flux Permanent Magnet Machine. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 1727-1735	8.9	26
154	Multiphysics Analysis of a Stator Construction Method in Yokeless and Segmented Armature Axial Flux PM Machines. <i>IEEE Transactions on Energy Conversion</i> , <b>2019</b> , 34, 139-146	5.4	20
153	A novel design and electromagnetic analysis for a linear switched reluctance motor. <i>Electrical Engineering</i> , <b>2019</b> , 101, 609-618	1.5	0
152	. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-17	2	17
151	Implementation of Matrix Converter in Wind Energy Conversion System with Modified Control Techniques. <i>Electric Power Components and Systems</i> , <b>2019</b> , 47, 1316-1331	1	7
150	Hybrid Photovoltaic-Thermoelectric Generator Powered Synchronous Reluctance Motor for Pumping Applications. <i>IEEE Access</i> , <b>2019</b> , 7, 146979-146988	3.5	17
149	Effect of Different Cutting Techniques on Magnetic Properties of Grain Oriented Steel Sheets and Axial Flux Machines <b>2019</b> ,		4
148	An ECMS-based Approach for Energy Management of a HEV Equipped with an Electrical Variable Transmission <b>2019</b> ,		5
147	Open-Phase Fault-Tolerant Current Reconstruction Control of Three-Phase Permanent Magnet Assisted Synchronous Reluctance Motors <b>2019</b> ,		3
146	Prediction of Eddy Current Losses in Cooling Tubes of Direct Cooled Windings in Electric Machines. <i>Mathematics</i> , <b>2019</b> , 7, 1096	2.3	7
145	A Simple and Efficient Quasi-3D Magnetic Equivalent Circuit for Surface Axial Flux Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 8318-8333	8.9	27
144	An Improved Torque Density Synchronous Reluctance Machine With a Combined StarDelta Winding Layout. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 1015-1024	5.4	25
143	Influence of the temperature on energy management in battery-ultracapacitor electric vehicles. <i>Journal of Cleaner Production</i> , <b>2018</b> , 176, 716-725	10.3	21
142	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> , <b>2018</b> , 12, 486-493	1.8	8

141	Model-Based Comparison of Thermo-Hydraulic Performance of Various Cooling Methods for Power Electronics of Electric Vehicles <b>2018</b> ,		1
140	A 3D Dynamic Lumped Parameter Thermal Network of Air-Cooled YASA Axial Flux Permanent Magnet Synchronous Machine. <i>Energies</i> , <b>2018</b> , 11, 774	3.1	8
139	Efficiency of a CVT-Operated EVT Experimentally Evaluated Against Half-Toroidal and Push-Belt CVTs. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 3095-3103	8.9	8
138	Thermally Induced Mechanical Stress in the Stator Windings of Electrical Machines. <i>Energies</i> , <b>2018</b> , 11, 2113	3.1	5
137	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> , <b>2018</b> , 121, 299-316	4	11
136	Computational-Time Reduction of Fourier-Based Analytical Models. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 281-289	5.4	8
135	Parametric Studies for Combined Convective and Conductive Heat Transfer for YASA Axial Flux Permanent Magnet Synchronous Machines. <i>Energies</i> , <b>2018</b> , 11, 2983	3.1	6
134	Predictive Current Control vs. PI Control for Surface Mounted Permanent Magnet Machines <b>2018</b> ,		5
133	Technical Assessment of Utilizing an Electrical Variable Transmission System in Hybrid Electric Vehicles <b>2018</b> ,		2
132	Adaptive PI Controller for Slip controlled Belt Continuously Variable Transmission. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 101-106	0.7	1
131	Permanent Magnet-Assisted Synchronous Reluctance Motor Employing a Hybrid Star-Delta Winding for High Speed Applications <b>2018</b> ,		2
130	A Control Method with Ring Structure for Switched Reluctance Motor <b>2018</b> ,		2
129	Controlling a Switched Reluctance Motor with a Conventional Three-Phase Bridge Instead of Asymmetric H-Bridges. <i>Energies</i> , <b>2018</b> , 11, 3242	3.1	3
128	. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-8	2	4
127	Optimal Control for a Hybrid Excited Dual Mechanical Port Electric Machine. <i>IEEE Transactions on Energy Conversion</i> , <b>2017</b> , 32, 599-607	5.4	16
126	Demagnetization Fault Detection in Axial Flux PM Machines by Using Sensing Coils and an Analytical Model. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	15
125	Analytical modeling of axial flux PM machines with eccentricities. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2017</b> , 53, 757-777	0.4	5
124	Loss Identification in a Double Rotor Electrical Variable Transmission. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 7731-7740	8.9	10

123	Analytical Model for Combined Study of Magnet Demagnetization and Eccentricity Defects in Axial Flux Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-12	2	23
122	Benchmarking the permanent magnet electrical variable transmission against the half toroidal continuously variable transmission. <i>Mechanism and Machine Theory</i> , <b>2017</b> , 113, 141-157	4	7
121	Design of low cost and efficient photovoltaic pumping system utilizing synchronous reluctance motor <b>2017</b> ,		3
120	Two-dimensional fourier-based modeling of electric machines <b>2017</b> ,		2
119	Study of the Effect of a Shielding Cylinder on the Torque in a Permanent-Magnet Synchronous Machine Considering Two Torque-Producing Mechanisms. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-8	2	6
118	Applicability of Fractional Slot Axial Flux Permanent Magnet Synchronous Machines in the Field Weakening Region. <i>IEEE Transactions on Energy Conversion</i> , <b>2017</b> , 32, 111-121	5-4	18
117	Half toroidal continuously variable transmission: Trade-off between dynamics of ratio variation and efficiency. <i>Mechanism and Machine Theory</i> , <b>2017</b> , 107, 183-196	4	11
116	. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 151-160	4-3	34
115	Fully predictive heat transfer coefficient modeling of an axial flux permanent magnet synchronous machine with geometrical parameters of the magnets. <i>Applied Thermal Engineering</i> , <b>2017</b> , 110, 1343-1357	5-8	14
114	Torque Analysis on a Double Rotor Electrical Variable Transmission With Hybrid Excitation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 60-68	8-9	29
113	Stator heat extraction system for axial flux yokeless and segmented armature machines <b>2017</b> ,		10
112	Comparison between two combined star-delta configurations on synchronous reluctance motors performance <b>2017</b> ,		2
111	Performance Comparison of Conventional Synchronous Reluctance Machines and PM-Assisted Types with Combined StarDelta Winding. <i>Energies</i> , <b>2017</b> , 10, 1500	3-1	16
110	Optimal design and implementation of a drivetrain for an ultra-light electric vehicle. <i>International Journal of Vehicle Design</i> , <b>2016</b> , 72, 262	2-4	2
109	Combined Star-Delta Windings to Improve Synchronous Reluctance Motor Performance. <i>IEEE Transactions on Energy Conversion</i> , <b>2016</b> , 31, 1479-1487	5-4	39
108	Influence of stator slot openings on losses and torque in axial flux permanent magnet machines. <i>Mathematics and Computers in Simulation</i> , <b>2016</b> , 130, 22-31	3-3	5
107	Field-Oriented Control for an Induction-Machine-Based Electrical Variable Transmission. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 4230-4240	6-8	16
106	Torque and torque components in high-speed permanent-magnet synchronous machines with a shielding cylinder. <i>Mathematics and Computers in Simulation</i> , <b>2016</b> , 130, 70-80	3-3	4

105	Comparison of Three Analytical Methods for the Precise Calculation of Cogging Torque and Torque Ripple in Axial Flux PM Machines. <i>Mathematical Problems in Engineering</i> , <b>2016</b> , 2016, 1-14	1.1	11
104	Analytical Modeling of Static Eccentricities in Axial Flux Permanent-Magnet Machines with Concentrated Windings. <i>Energies</i> , <b>2016</b> , 9, 892	3.1	13
103	Simple Design Approach for Low Torque Ripple and High Output Torque Synchronous Reluctance Motors. <i>Energies</i> , <b>2016</b> , 9, 942	3.1	15
102	Development of Correlations for Windage Power Losses Modeling in an Axial Flux Permanent Magnet Synchronous Machine with Geometrical Features of the Magnets. <i>Energies</i> , <b>2016</b> , 9, 1009	3.1	4
101	Reducing Losses Due to Fringing Flux in an Axial-Flux Permanent-Magnet Synchronous Machine. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-8	2	4
100	Time- and Spatial-Harmonic Content in Synchronous Electrical Machines. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 1-1	2	12
99	Power flow in an induction machine based electrical variable transmission <b>2016</b> ,		4
98	Effects of cutting and annealing of amorphous materials for high speed permanent magnet machines <b>2016</b> ,		5
97	Comparison of Methods for Permanent Magnet Eddy-Current Loss Computations With and Without Reaction Field Considerations in Axial Flux PMSM. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-11	2	20
96	Comparison of Frequency and Time-Domain Iron and Magnet Loss Modeling Including PWM Harmonics in a PMSG for a Wind Energy Application. <i>IEEE Transactions on Energy Conversion</i> , <b>2015</b> , 30, 476-486	5.4	20
95	3-D Eddy Current and Fringing-Flux Distribution in an Axial-Flux Permanent-Magnet Synchronous Machine With Stator in Laminated Iron or SMC. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	12
94	Convective heat transfer prediction in disk-type electrical machines. <i>Applied Thermal Engineering</i> , <b>2015</b> , 91, 778-790	5.8	24
93	Steady-state analysis and stability of synchronous reluctance motors considering saturation effects <b>2015</b> ,		5
92	Synchronous Reluctance Motor Performance Based on Different Electrical Steel Grades. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	39
91	Loss evaluation of interior permanent-magnet synchronous Machine drives using T-type multilevel converters <b>2015</b> ,		2
90	Adding Inverter Fault Detection to Model-Based Predictive Control for Flying-Capacitor Inverters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 2054-2063	8.9	37
89	Transient analysis and stability limits for synchronous reluctance motors considering saturation effects <b>2015</b> ,		5
88	Voltage Sources in 2D Fourier-Based Analytical Models of Electric Machines. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-8	1.1	4



87	Coupled Electromagnetic and Thermal Analysis of an Axial Flux PM Machine. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	18
86	Evaluation of the additional loss due to supply voltage distortion in relation to induction motor efficiency rating <b>2015</b> ,		2
85	Concept study of a double rotor induction machine used as continuously variable transmission <b>2015</b> ,		2
84	Comparison of Iron Loss Models for Electrical Machines With Different Frequency Domain and Time Domain Methods for Excess Loss Prediction. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-10	2	47
83	Integrated Model of Power Electronics, Electric Motor, and Gearbox for a Light EV. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 1640-1653	0.9	1
82	2-D Analytical Subdomain Model of a Slotted PMSM With Shielding Cylinder. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-10	2	35
81	Evaluation of the Efficiency of Line-Start Permanent-Magnet Machines as a Function of the Operating Temperature. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 4443-4454	8.9	29
80	Analytical Modeling of Surface PMSM Using a Combined Solution of Maxwell's Equations and Magnetic Equivalent Circuit. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-13	2	51
79	A Computationally Efficient Method to Determine Iron and Magnet Losses in VSI-PWM Fed Axial Flux Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-10	2	12
78	Influence of Supply Voltage Distortion on the Energy Efficiency of Line-Start Permanent-Magnet Motors. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 1034-1043	4.3	9
77	Axial-Flux PM Machines With Variable Air Gap. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 730-787		48
76	Performance and implementation issues considering the use of thin laminated steel sheets in segmented armature axial-flux PM machines <b>2014</b> ,		4
75	Analytical modeling of eddy current losses in Axial Flux PMSM using resistance network <b>2014</b> ,		8
74	Modeling and control of an induction machine based electrical variable transmission <b>2014</b> ,		1
73	Magnetic stray field based position detection in BLDC outer rotor permanent magnet synchronous machines. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2014</b> , 27, 544-554	1	1
72	Identification of Demagnetization Faults in Axial Flux Permanent Magnet Synchronous Machines Using an Inverse Problem Coupled With an Analytical Model. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	21
71	Influence of the Amount of Permanent-Magnet Material in Fractional-Slot Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 4979-4989	8.9	28
70	The Effect of the Electrical Steel Properties on the Temperature Distribution in Direct-Drive PM Synchronous Generators for 5 MW Wind Turbines. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 5371-5377	2	10

69	Drivetrain design for an ultra light electric vehicle with high efficiency <b>2013</b> ,		3
68	Evaluation of a Simple Lamination Stacking Method for the Teeth of an Axial Flux Permanent-Magnet Synchronous Machine With Concentrated Stator Windings. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 999-1002	2	13
67	A Non-Destructive Methodology for Estimating the Magnetic Material Properties of an Asynchronous Motor. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 1621-1624	2	11
66	Influence of Soft Magnetic Material in a Permanent Magnet Synchronous Machine With a Commercial Induction Machine Stator. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 1645-1648	2	2
65	Rotor Geometry Design of Interior PMSMs With and Without Flux Barriers for More Accurate Sensorless Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2012</b> , 59, 2457-2465	8.9	37
64	Effect of segmentation on eddy-current loss in permanent-magnets of axial-flux PM machines using a multilayer-2D $\mathbb{D}$ coupled model <b>2012</b> ,		8
63	Homogenized eddy current model for non-destructive testing of metallic cables. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2012</b> , 31, 1656-1680	0.7	1
62	Reducing the permanent magnet content in fractional-slot concentrated-windings permanent magnet synchronous machines <b>2012</b> ,		3
61	Influence of electrical steel grade on the temperature distribution in direct-drive PM synchronous generators for 5 MW wind turbines <b>2012</b> ,		2
60	A Combined Wye-Delta Connection to Increase the Performance of Axial-Flux PM Machines With Concentrated Windings. <i>IEEE Transactions on Energy Conversion</i> , <b>2012</b> , 27, 403-410	5.4	43
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