

# Peter Sergeant

## List of Publications by Citations

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212  
papers

2,232  
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25  
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247  
ext. papers

2,936  
ext. citations

3.3  
avg, IF

5.64  
L-index

#	Paper	IF	Citations
212	Inductive coupler for contactless power transmission. <i>IET Electric Power Applications</i> , <b>2008</b> , 2, 1-7	1.8	94
211	A Sensorless Drive by Applying Test Pulses Without Affecting the Average-Current Samples. <i>IEEE Transactions on Power Electronics</i> , <b>2010</b> , 25, 875-888	7.2	54
210	Optimized Design Considering the Mass Influence of an Axial Flux Permanent-Magnet Synchronous Generator With Concentrated Pole Windings. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 4101-4107	2	53
209	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
208	Segmentation of Magnets to Reduce Losses in Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 4409-4412	2	51
207	Axial-Flux PM Machines With Variable Air Gap. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 730-787		48
206	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
205	Analysis of the Local Material Degradation Near Cutting Edges of Electrical Steel Sheets. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 3173-3176	2	46
204	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
203	Synchronous Reluctance Motor Performance Based on Different Electrical Steel Grades. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	39
202	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
201	Comparison of Nonoriented and Grain-Oriented Material in an Axial Flux Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 279-285	2	38
200	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
199	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
198	A Multilayer 2-D $\bar{D}$ -D Coupled Model for Eddy Current Calculation in the Rotor of an Axial-Flux PM Machine. <i>IEEE Transactions on Energy Conversion</i> , <b>2012</b> , 27, 784-791	5.4	37
197	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
196	. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 151-160	4.3	34

195	A Two-Level Genetic Algorithm for Electromagnetic Optimization. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 2585-2595	2	33
194	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
193	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
192	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
191	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
190	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
189	Effect of Rotor Geometry and Magnetic Saturation in Sensorless Control of PM Synchronous Machines. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 1756-1759	2	26
188	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
187	Convective heat transfer prediction in disk-type electrical machines. <i>Applied Thermal Engineering</i> , <b>2015</b> , 91, 778-790	5.8	24
186	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
185	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
184	Two-Level Response and Parameter Mapping Optimization for Magnetic Shielding. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 301-308	2	23
183	Optimizing active and passive magnetic shields in induction heating by a genetic algorithm. <i>IEEE Transactions on Magnetics</i> , <b>2003</b> , 39, 3486-3496	2	22
182	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
181	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
180	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
179	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
178	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

177	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
176	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
175	Electromagnetic shielding of high-voltage cables. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e908-e911	2.8	18
174	Passive and active electromagnetic shielding of induction heaters. <i>IEEE Transactions on Magnetics</i> , <b>2004</b> , 40, 675-678	2	18
173	. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-17	2	17
172	Hybrid Photovoltaic-Thermoelectric Generator Powered Synchronous Reluctance Motor for Pumping Applications. <i>IEEE Access</i> , <b>2019</b> , 7, 146979-146988	3.5	17
171	An Inverse Approach for Magnetic Material Characterization of an EI Core Electromagnetic Inductor. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 622-625	2	17
170	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
169	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
168	Performance Comparison of Conventional Synchronous Reluctance Machines and PM-Assisted Types with Combined Star-Delta Winding. <i>Energies</i> , <b>2017</b> , 10, 1500	3.1	16
167	Magnetic Material Identification in Geometries With Non-Uniform Electromagnetic Fields Using Global and Local Magnetic Measurements. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 4157-4160	2	16
166	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
165	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. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 4781-4790	2	15
164	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> , <b>2010</b> , 81, 367-381	3.3	15
163	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
162	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
161	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
160	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

159	Comparison of analytical, finite element and neural network methods to study magnetic shielding. <i>Simulation Modelling Practice and Theory</i> , <b>2010</b> , 18, 206-216	3.9	13
158	Core losses in nanocrystalline soft magnetic materials under square voltage waveforms. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 53-57	2.8	13
157	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
156	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
155	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
154	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
153	Geometrical optimization of an ultrasonic tactile plate. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 161, 91-100	3.9	12
152	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
151	Time- and Spatial-Harmonic Content in Synchronous Electrical Machines. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 1-1	2	12
150	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
149	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
148	Losses in Sensorless Controlled Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 590-593	2	11
147	Active and passive magnetic shielding for stray field reduction of an induction heater with axial flux. <i>IET Electric Power Applications</i> , <b>2005</b> , 152, 1359		11
146	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
145	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
144	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
143	Stator heat extraction system for axial flux yokeless and segmented armature machines <b>2017</b> ,		10
142	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

141	Characterization and optimization of a permanent magnet synchronous machine. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2009</b> , 28, 272-285	0.7	10
140	Refurbishing three-phase synchronous reluctance machines to multiphase machines. <i>Electrical Engineering</i> , <b>2021</b> , 103, 139-152	1.5	10
139	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
138	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
137	Analysis of Hysteresis in Resonance-Based Position Estimation of Switched Reluctance Drives. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 1022-1025	2	9
136	Thermal analysis of magnetic shields for induction heating. <i>IET Electric Power Applications</i> , <b>2009</b> , 3, 543	1.8	9
135	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
134	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
133	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
132	Analytical modeling of eddy current losses in Axial Flux PMSM using resistance network <b>2014</b> ,		8
131	Effect of segmentation on eddy-current loss in permanent-magnets of axial-flux PM machines using a multilayer-2D 2D coupled model <b>2012</b> ,		8
130	Magnetic material identification of a switched reluctance motor. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2011</b> , 37, 35-49	0.4	8
129	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
128	Computational-Time Reduction of Fourier-Based Analytical Models. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 281-289	5.4	8
127	. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-11	2	8
126	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
125	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
124	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

123	Analysis of perforated magnetic shields for electric power applications. <i>IET Electric Power Applications</i> , <b>2009</b> , 3, 123	1.8	7
122	Adjoint variable method for time-harmonic Maxwell equations. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2009</b> , 28, 1202-1215	0.7	7
121	Fast multipole accelerated finite element-boundary element analysis of shielded induction heaters. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 1407-1410	2	7
120	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
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	. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 686-689	2	6
117	Analytical formulation for magnetic shields taking into account hysteresis effects in the Rayleigh region. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2005</b> , 24, 1470-1491	0.7	6
116	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
115	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
114	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
113	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
112	Steady-state analysis and stability of synchronous reluctance motors considering saturation effects <b>2015</b> ,		5
111	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
110	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
109	Thermally Induced Mechanical Stress in the Stator Windings of Electrical Machines. <i>Energies</i> , <b>2018</b> , 11, 2113	3.1	5
108	Transient analysis and stability limits for synchronous reluctance motors considering saturation effects <b>2015</b> ,		5
107	Adjoint Variable Method for the Study of Combined Active and Passive Magnetic Shielding. <i>Mathematical Problems in Engineering</i> , <b>2008</b> , 2008, 1-15	1.1	5
106	Space mapping method for the design of passive shields. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08H901	2.5	5

105	Hardware control of an active magnetic shield. <i>IET Science, Measurement and Technology</i> , <b>2007</b> , 1, 152-159	5	5
104	Metal Additive Manufacturing for Electrical Machines: Technology Review and Latest Advancements. <i>Energies</i> , <b>2022</b> , 15, 1076	3.1	5
103	Magnetic Properties of Silicon Steel after Plastic Deformation. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
102	Effects of cutting and annealing of amorphous materials for high speed permanent magnet machines <b>2016</b> ,		5
101	An ECMS-based Approach for Energy Management of a HEV Equipped with an Electrical Variable Transmission <b>2019</b> ,		5
100	Predictive Current Control vs. PI Control for Surface Mounted Permanent Magnet Machines <b>2018</b> ,		5
99	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
98	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
97	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
96	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
95	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
94	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
93	Performance and implementation issues considering the use of thin laminated steel sheets in segmented armature axial-flux PM machines <b>2014</b> ,		4
92	ELECTROMAGNETIC LOSSES IN MAGNETIC SHIELDS FOR BURIED HIGH VOLTAGE CABLES. <i>Progress in Electromagnetics Research</i> , <b>2011</b> , 115, 441-460	3.8	4
91	Influence of contact resistance on shielding efficiency of shielding gutters for high-voltage cables. <i>IET Electric Power Applications</i> , <b>2011</b> , 5, 715	1.8	4
90	Analysis of a Nondestructive Evaluation Technique for Defect Characterization in Magnetic Materials Using Local Magnetic Measurements. <i>Mathematical Problems in Engineering</i> , <b>2010</b> , 2010, 1-18	1.1	4
89	Modeling the Electromagnetic Behavior of Nanocrystalline Soft Materials. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 678-686	2	4
88	Magnetic shielding of buried high-voltage (HV) cables by conductive metal plates. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2008</b> , 27, 170-180	0.7	4



87	Reducing steady-state current distortions in sensorless control strategies by using adaptive test pulses. <i>IEEE Applied Power Electronics Conference and Exposition</i> , <b>2008</b> ,		4
86	Optimization of a Si gradient in laminated SiFe alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 290-291, 1491-1494	2.8	4
85	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
84	Comparison of an optimized electrical variable transmission with the Toyota Hybrid System. <i>Applied Energy</i> , <b>2020</b> , 278, 115616	10.7	4
83	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
82	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
81	Power flow in an induction machine based electrical variable transmission <b>2016</b> ,		4
80	Effect of Different Cutting Techniques on Magnetic Properties of Grain Oriented Steel Sheets and Axial Flux Machines <b>2019</b> ,		4
79	Optimal Rotor Design of Synchronous Reluctance Machines Considering the Effect of Current Angle. <i>Mathematics</i> , <b>2021</b> , 9, 344	2.3	4
78	. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-8	2	4
77	Design of low cost and efficient photovoltaic pumping system utilizing synchronous reluctance motor <b>2017</b> ,		3
76	Reducing the permanent magnet content in fractional-slot concentrated-windings permanent magnet synchronous machines <b>2012</b> ,		3
75	Drivetrain design for an ultra light electric vehicle with high efficiency <b>2013</b> ,		3
74	Rotor geometry design of an interior permanent-magnet synchronous machine for more accurate sensorless control <b>2010</b> ,		3
73	Numerical Model for the Drag Force Method to Evaluate Hysteresis Loss. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 842-845	2	3
72	Magnetic Nondestructive Evaluation of Bending Fatigue Damage Using the Drag Force Method. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 2746-2748	2	3
71	Magnetic field computation for optimized shielding of induction heaters. <i>Journal of Computational and Applied Mathematics</i> , <b>2004</b> , 168, 437-446	2.4	3
70	Optimizing a transformer driven active magnetic shield in induction heating. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2005</b> , 24, 1241-1257	0.7	3

69	Magnetic shielding properties of sheet metal products taking into account hysteresis effects. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10E511	2.5	3
68	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
67	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
66	Performance Analysis of a Five-phase Synchronous Reluctance Motor Connected to Matrix Converter <b>2021</b> ,		3
65	Effect of Using Different Types of Magnet Wires on the AC Losses of Electrical Machine Windings <b>2021</b> ,		3
64	Open-Phase Fault-Tolerant Current Reconstruction Control of Three-Phase Permanent Magnet Assisted Synchronous Reluctance Motors <b>2019</b> ,		3
63	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
62	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
61	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
60	A holistic DC link architecture design method for multiphase integrated modular motor drives <b>2019</b> ,		2
59	Loss evaluation of interior permanent-magnet synchronous Machine drives using T-type multilevel converters <b>2015</b> ,		2
58	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
57	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
56	Two-dimensional fourier-based modeling of electric machines <b>2017</b> ,		2
55	Comparison between two combined star-delta configurations on synchronous reluctance motors performance <b>2017</b> ,		2
54	Evaluation of the additional loss due to supply voltage distortion in relation to induction motor efficiency rating <b>2015</b> ,		2
53	Concept study of a double rotor induction machine used as continuously variable transmission <b>2015</b> ,		2
52	Influence of electrical steel grade on the temperature distribution in direct-drive PM synchronous generators for 5 MW wind turbines <b>2012</b> ,		2

51	Improving the torque output in radial- and axial-flux permanent-magnet synchronous machines with concentrated windings by using a combined wye-delta connection <b>2011</b> ,		2
50	Optimization of an Octangular Double-Layered Shield Using Multiple Forward Models. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 1586-1589	2	2
49	Design of a circumscribing polygon wide bandgap based integrated modular motor drive topology with thermally decoupled windings and power converters <b>2020</b> ,		2
48	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
47	Wide Bandgap Based Modular Driving Techniques for Switched Reluctance Motor Drives <b>2020</b> ,		2
46	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
45	<b>2020</b> ,		2
44	A Generic DC link Capacitor Sizing Methodology for Multi-phase Wide Bandgap Based Integrated Modular Motor Drives <b>2020</b> ,		2
43	Technical Assessment of Utilizing an Electrical Variable Transmission System in Hybrid Electric Vehicles <b>2018</b> ,		2
42	Permanent Magnet-Assisted Synchronous Reluctance Motor Employing a Hybrid Star-Delta Winding for High Speed Applications <b>2018</b> ,		2
41	A Control Method with Ring Structure for Switched Reluctance Motor <b>2018</b> ,		2
40	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
39	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
38	Mitigation of High-Frequency Eddy Current Losses in Hairpin Winding Machines. <i>Machines</i> , <b>2022</b> , 10, 3282-9		2
37	Performance Degradation of Surface PMSMs with Demagnetization Defect under Predictive Current Control. <i>Energies</i> , <b>2019</b> , 12, 782	3.1	1
36	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
35	Model-Based Comparison of Thermo-Hydraulic Performance of Various Cooling Methods for Power Electronics of Electric Vehicles <b>2018</b> ,		1
34	Modeling and control of an induction machine based electrical variable transmission <b>2014</b> ,		1

33	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
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30	Nondestructive Testing of Metallic Cables Based on a Homogenized Model and Global Measurements. <i>Mathematical Problems in Engineering</i> , <b>2010</b> , 2010, 1-21	1.1	1
29	Eddy current based, contactless position transducer for a gas handle <b>2010</b> ,		1
28	Circuit Method for Conductive and Nonlinear Ferromagnetic Materials. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 1326-1329	2	1
27	Plane Wave Model for the Electromagnetic Behavior of SiFe Alloys. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 463-472	2	1
26	Sensing local inhomogeneity in electrical steels by the drag force method. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07E936	2.5	1
25	Software control of an active magnetic shield. <i>IET Science, Measurement and Technology</i> , <b>2006</b> , 153, 13-21		1
24	Magnetic network model including loss separation and Preisach principles for the evaluation of core losses in devices. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10E515	2.5	1
23	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
22	Quality Assessment of a 2D FE Based Lumped Parameter Electric Motor Thermal Model Using 3D FE Models <b>2020</b> ,		1
21	An Improved Fault-Tolerant Control of a Five-Phase Synchronous Reluctance Motor Connected to Matrix Converter <b>2021</b> ,		1
20	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
19	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
18	Performance Comparison Between SiC and Si Inverter Modules in an Electrical Variable Transmission Application <b>2020</b> ,		1
17	Drivetrain Torque Ripple Reduction With a Modular Motor Architecture <b>2021</b> ,		1
16	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

15	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
14	Adaptive PI Controller for Slip controlled Belt Continuously Variable Transmission. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 101-106	0.7	1
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	Mitigation of Torsional Vibrations in a Modular Drivetrain with Interleaving Control. <i>Machines</i> , <b>2022</b> , 10, 429	2.9	0
5	Finite-element analysis of a shielded pulsed-current induction heater. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2010</b> , 29, 1585-1595	0.7	
4	Optimization of multilayered nonlinear crystalline alloys for shielding. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10F904	2.5	
3	Power Density Boosting Techniques for Reconfigurable Integrated Modular Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , <b>2022</b> , 1-1	5.4	
2	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	
1	Design Methodology for a PM Electrical Variable Transmission Used in HEV. <i>Springer Proceedings in Energy</i> , <b>2021</b> , 187-202	0.2	