

Chris Gerada

List of Publications by Year in descending order

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535
papers

9,980
citations

57631

44
h-index

76769

74
g-index

536
all docs

536
docs citations

536
times ranked

4250
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Speed Electrical Machines: Technologies, Trends, and Developments. IEEE Transactions on Industrial Electronics, 2014, 61, 2946-2959.	5.2	709
2	Multiphase Power Converter Drive for Fault-Tolerant Machine Development in Aerospace Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 575-583.	5.2	163
3	Design and Initial Testing of a High-Speed 45-kW Switched Reluctance Drive for Aerospace Application. IEEE Transactions on Industrial Electronics, 2017, 64, 988-997.	5.2	150
4	A Thermal Improvement Technique for the Phase Windings of Electrical Machines. IEEE Transactions on Industry Applications, 2012, 48, 79-87.	3.3	146
5	Automatic Design of Synchronous Reluctance Motors Focusing on Barrier Shape Optimization. IEEE Transactions on Industry Applications, 2015, 51, 1465-1474.	3.3	146
6	Design Considerations for a Fault-Tolerant Flux-Switching Permanent-Magnet Machine. IEEE Transactions on Industrial Electronics, 2011, 58, 2818-2825.	5.2	143
7	Analytical Thermal Model for Fast Stator Winding Temperature Prediction. IEEE Transactions on Industrial Electronics, 2017, 64, 6116-6126.	5.2	142
8	PWM-VSI Fault Diagnosis for a PMSM Drive Based on the Fuzzy Logic Approach. IEEE Transactions on Power Electronics, 2019, 34, 759-768.	5.4	137
9	Integrated PM Machine Design for an Aircraft EMA. IEEE Transactions on Industrial Electronics, 2008, 55, 3300-3306.	5.2	126
10	Integrated motor drives: state of the art and future trends. IET Electric Power Applications, 2016, 10, 757-771.	1.1	122
11	Design Aspects of High-Speed High-Power-Density Laminated-Rotor Induction Machines. IEEE Transactions on Industrial Electronics, 2011, 58, 4039-4047.	5.2	118
12	Improved Thermal Management and Analysis for Stator End-Windings of Electrical Machines. IEEE Transactions on Industrial Electronics, 2019, 66, 5057-5069.	5.2	116
13	Design of Synchronous Reluctance Motors With Multiobjective Optimization Algorithms. IEEE Transactions on Industry Applications, 2014, 50, 3617-3627.	3.3	110
14	A Single Sided Matrix Converter Drive for a Brushless DC Motor in Aerospace Applications. IEEE Transactions on Industrial Electronics, 2012, 59, 3542-3552.	5.2	101
15	Power Loss and Thermal Analysis of a MW High-Speed Permanent Magnet Synchronous Machine. IEEE Transactions on Energy Conversion, 2017, 32, 1468-1478.	3.7	101
16	Experimental Investigation on Oil Spray Cooling With Hairpin Windings. IEEE Transactions on Industrial Electronics, 2020, 67, 7343-7353.	5.2	101
17	Design of a Five-Phase Brushless DC Motor for a Safety Critical Aerospace Application. IEEE Transactions on Industrial Electronics, 2012, 59, 3532-3541.	5.2	100
18	Development of Aircraft Electric Starter-Generator System Based on Active Rectification Technology. IEEE Transactions on Transportation Electrification, 2018, 4, 985-996.	5.3	85

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19	Design Optimization of a High-Speed Synchronous Reluctance Machine. IEEE Transactions on Industry Applications, 2018, 54, 233-243.	3.3	80
20	Challenges and Opportunities for Wound Field Synchronous Generators in Future More Electric Aircraft. IEEE Transactions on Transportation Electrification, 2020, 6, 1466-1477.	5.3	78
21	Self-Commissioning of Interior Permanent- Magnet Synchronous Motor Drives With High-Frequency Current Injection. IEEE Transactions on Industry Applications, 2014, 50, 3295-3303.	3.3	75
22	Thermal Overload and Insulation Aging of Short Duty Cycle, Aerospace Motors. IEEE Transactions on Industrial Electronics, 2020, 67, 2618-2629.	5.2	75
23	A Multilevel Converter With a Floating Bridge for Open-End Winding Motor Drive Applications. IEEE Transactions on Industrial Electronics, 2016, 63, 5366-5375.	5.2	74
24	Sensorless control of PM motor drives — A technology status review. , 2013, , .		72
25	Modeling of Different Winding Configurations for Fault-Tolerant Permanent Magnet Machines to Restrain Interturn Short-Circuit Current. IEEE Transactions on Energy Conversion, 2012, 27, 351-361.	3.7	69
26	A Modified Neutral Point Balancing Space Vector Modulation for Three-Level Neutral Point Clamped Converters in High-Speed Drives. IEEE Transactions on Industrial Electronics, 2019, 66, 910-921.	5.2	65
27	A Nonlinear Extended State Observer for Rotor Position and Speed Estimation for Sensorless IPMSM Drives. IEEE Transactions on Power Electronics, 2020, 35, 733-743.	5.4	63
28	High-Speed Permanent Magnet Synchronous Motor Iron Loss Calculation Method Considering Multiphysics Factors. IEEE Transactions on Industrial Electronics, 2020, 67, 5360-5368.	5.2	63
29	Induction Motors Versus Permanent-Magnet Actuators for Aerospace Applications. IEEE Transactions on Industrial Electronics, 2014, 61, 4315-4325.	5.2	62
30	Analysis of Vertical Strip Wound Fault-Tolerant Permanent Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2014, 61, 1158-1168.	5.2	61
31	Winding condition monitoring scheme for a permanent magnet machine using high-frequency injection. IET Electric Power Applications, 2011, 5, 89.	1.1	60
32	A High-Speed Permanent-Magnet Machine for Fault-Tolerant Drivetrains. IEEE Transactions on Industrial Electronics, 2014, 61, 3071-3080.	5.2	60
33	Design and Losses Analysis of a High Power Density Machine for Flooded Pump Applications. IEEE Transactions on Industry Applications, 2018, 54, 3260-3270.	3.3	60
34	Model Predictive Control for a Dual-Active Bridge Inverter With a Floating Bridge. IEEE Transactions on Industrial Electronics, 2016, 63, 5558-5568.	5.2	58
35	uCube: Control platform for power electronics. , 2017, , .		57
36	Multidomain Optimization of High-Power-Density PM Electrical Machines for System Architecture Selection. IEEE Transactions on Industrial Electronics, 2018, 65, 5302-5312.	5.2	57

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37	Considerations on the Development of an Electric Drive for a Secondary Flight Control Electromechanical Actuator. IEEE Transactions on Industry Applications, 2019, 55, 3544-3554.	3.3	55
38	Demagnetization Analysis for Halbach Array Configurations in Electrical Machines. IEEE Transactions on Magnetics, 2015, 51, 1-9.	1.2	54
39	High-Speed Solid Rotor Permanent Magnet Machines: Concept and Design. IEEE Transactions on Transportation Electrification, 2016, 2, 391-400.	5.3	53
40	An Accurate Wide-Speed Range Control Method of IPMSM Considering Resistive Voltage Drop and Magnetic Saturation. IEEE Transactions on Industrial Electronics, 2020, 67, 2630-2641.	5.2	53
41	Reduction of Winding AC Losses by Accurate Conductor Placement in High Frequency Electrical Machines. IEEE Transactions on Industry Applications, 2020, 56, 183-193.	3.3	52
42	4-MW Class High-Power-Density Generator for Future Hybrid-Electric Aircraft. IEEE Transactions on Transportation Electrification, 2021, 7, 2952-2964.	5.3	49
43	Radial Force Control of Multisector Permanent-Magnet Machines for Vibration Suppression. IEEE Transactions on Industrial Electronics, 2018, 65, 5395-5405.	5.2	48
44	Analysis, Modeling, and Design Considerations for the Excitation Systems of Synchronous Generators. IEEE Transactions on Industrial Electronics, 2018, 65, 2996-3007.	5.2	48
45	An Integrated Method for Three-Phase AC Excitation and High-Frequency Voltage Signal Injection for Sensorless Starting of Aircraft Starter/Generator. IEEE Transactions on Industrial Electronics, 2019, 66, 5611-5622.	5.2	48
46	Torque-Performance Improvement for Direct Torque-Controlled PMSM Drives Based on Duty-Ratio Regulation. IEEE Transactions on Power Electronics, 2022, 37, 749-760.	5.4	46
47	The results do mesh. IEEE Industry Applications Magazine, 2007, 13, 62-72.	0.3	45
48	Thermal effects of stator potting in an axial-flux permanent magnet synchronous generator. Applied Thermal Engineering, 2015, 75, 421-429.	3.0	45
49	Improved Damper Cage Design for Salient-Pole Synchronous Generators. IEEE Transactions on Industrial Electronics, 2017, 64, 1958-1970.	5.2	45
50	Performance Evaluation of a Vector Control Fault-Tolerant Flux-Switching Motor Drive. IEEE Transactions on Industrial Electronics, 2012, , 1-1.	5.2	43
51	Design of a High-Force-Density Tubular Motor. IEEE Transactions on Industry Applications, 2014, 50, 2523-2532.	3.3	43
52	Considerations on the Effects That Core Material Machining Has on an Electrical Machine's Performance. IEEE Transactions on Energy Conversion, 2018, 33, 1154-1163.	3.7	43
53	New Three-Phase Current Reconstruction for PMSM Drive With Hybrid Space Vector Pulsewidth Modulation Technique. IEEE Transactions on Power Electronics, 2021, 36, 662-673.	5.4	43
54	Multi-Physics and Multi-Objective Optimization of a High Speed PMSM for High Performance Applications. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	41

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55	A Novel Concept of Ribless Synchronous Reluctance Motor for Enhanced Torque Capability. IEEE Transactions on Industrial Electronics, 2020, 67, 2553-2563.	5.2	41
56	Impact of Soft Magnetic Material on Design of High-Speed Permanent-Magnet Machines. IEEE Transactions on Industrial Electronics, 2017, 64, 2415-2423.	5.2	40
57	Detent Force, Thrust, and Normal Force of the Short-Primary Double-Sided Permanent Magnet Linear Synchronous Motor With Slot-Shift Structure. IEEE Transactions on Energy Conversion, 2019, 34, 1411-1421.	3.7	40
58	Fault Tolerant Design of Fractional Slot Winding Permanent Magnet Aerospace Actuator. IEEE Transactions on Transportation Electrification, 2016, 2, 380-390.	5.3	39
59	Load Control for the DC Electrical Power Distribution System of the More Electric Aircraft. IEEE Transactions on Power Electronics, 2019, 34, 3937-3947.	5.4	39
60	A Third-Order Super-Twisting Extended State Observer for Dynamic Performance Enhancement of Sensorless IPMSM Drives. IEEE Transactions on Industrial Electronics, 2020, 67, 5948-5958.	5.2	39
61	Detent-Force Minimization of Double-Sided Permanent Magnet Linear Synchronous Motor by Shifting One of the Primary Components. IEEE Transactions on Industrial Electronics, 2020, 67, 180-191.	5.2	38
62	Synchronous Reluctance Machines: A Comprehensive Review and Technology Comparison. Proceedings of the IEEE, 2022, 110, 382-399.	16.4	38
63	Barriers shapes and minimum set of rotor parameters in the automated design of Synchronous Reluctance machines. , 2013, , .		37
64	Speed Ripple Reduction of Direct-Drive PMSM Servo System at Low-Speed Operation Using Virtual Cogging Torque Control Method. IEEE Transactions on Industrial Electronics, 2021, 68, 160-174.	5.2	37
65	Development of an aircraft wheel actuator for green taxiing. , 2014, , .		36
66	Challenges and Future opportunities of Hairpin Technologies. , 2020, , .		36
67	Winding turn-to-turn faults in permanent magnet synchronous machine drives. , 0, , .		35
68	Piezoelectric Fan Cooling: A Novel High Reliability Electric Machine Thermal Management Solution. IEEE Transactions on Industrial Electronics, 2013, 60, 4841-4851.	5.2	35
69	Estimation of Eddy Current Loss in Semi-Closed Slot Vertical Conductor Permanent Magnet Synchronous Machines Considering Eddy Current Reaction Effect. IEEE Transactions on Magnetics, 2013, 49, 5326-5335.	1.2	35
70	Multiobjective Optimization of a Magnetically Levitated Planar Motor With Multilayer Windings. IEEE Transactions on Industrial Electronics, 2016, 63, 3522-3532.	5.2	35
71	A new strategy of efficiency enhancement for traction systems in electric vehicles. Applied Energy, 2017, 205, 880-891.	5.1	35
72	Electrical Machines for Automotive Electrically Assisted Turbocharging. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2054-2065.	3.7	34

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73	Development of a new fault-tolerant induction motor control strategy using an enhanced equivalent circuit model. IET Electric Power Applications, 2011, 5, 618.	1.1	33
74	Lifetime Consumption and Degradation Analysis of the Winding Insulation of Electrical Machines. , 2016, , .		33
75	Design and Testing of PMSM for Aerospace EMA Applications. , 2018, , .		33
76	Free-Form Design of Electrical Machine Rotor Cores for Production Using Additive Manufacturing. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	1.7	33
77	A high-speed electric drive for the more electric engine. , 2015, , .		32
78	A Thermal Modeling Approach and Experimental Validation for an Oil Spray-Cooled Hairpin Winding Machine. IEEE Transactions on Transportation Electrification, 2021, 7, 2914-2926.	5.3	32
79	Feasibility and electromagnetic design of direct drive wheel actuator for green taxiing. , 2011, , .		31
80	High speed electrical generators, application, materials and design. , 2013, , .		31
81	Thermal Model Approach to Multisector Three-Phase Electrical Machines. IEEE Transactions on Industrial Electronics, 2021, 68, 2919-2930.	5.2	31
82	Optimal design of an electro-mechanical actuator for aerospace application. , 2015, , .		30
83	Impact of Slot/Pole Combination on Inter-Turn Short-Circuit Current in Fault-Tolerant Permanent Magnet Machines. IEEE Transactions on Magnetics, 2016, 52, 1-9.	1.2	30
84	Comparative study of permanent magnet-synchronous and permanent magnet-flux switching machines for high torque to inertia applications. , 2017, , .		30
85	Synchronous Reluctance Motor Iron Losses: Considering Machine Nonlinearity at MTPA, FW, and MTPV Operating Conditions. IEEE Transactions on Energy Conversion, 2018, 33, 1402-1410.	3.7	30
86	Estimation of Oil Spray Cooling Heat Transfer Coefficients on Hairpin Windings With Reduced-Parameter Models. IEEE Transactions on Transportation Electrification, 2021, 7, 793-803.	5.3	30
87	Converter topologies comparison for more electric aircrafts high speed Starter/Generator application. , 2015, , .		29
88	Multistress Characterization of Fault Mechanisms in Aerospace Electric Actuators. IEEE Transactions on Industry Applications, 2017, 53, 1106-1115.	3.3	29
89	State of the Art of Electric Taxiing Systems. , 2018, , .		29
90	Back-Iron Extension Thermal Benefits for Electrical Machines With Concentrated Windings. IEEE Transactions on Industrial Electronics, 2020, 67, 1728-1738.	5.2	29

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91	High speed drives review: Machines, converters and applications. , 2016, , .		28
92	Effective Thermal Conductivity Calculation and Measurement of Litz Wire Based on the Porous Metal Materials Structure. IEEE Transactions on Industrial Electronics, 2020, 67, 2667-2677.	5.2	28
93	Electrical machines for aerospace applications. , 2015, , .		27
94	A Comprehensive Design Guideline of Hairpin Windings for High Power Density Electric Vehicle Traction Motors. IEEE Transactions on Transportation Electrification, 2022, 8, 3578-3593.	5.3	27
95	Optimized Commissioning Method for Enhanced Vector Control of High-Power Induction Motor Drives. IEEE Transactions on Industrial Electronics, 2009, 56, 1708-1717.	5.2	26
96	Design of a high force density tubular permanent magnet motor. , 2010, , .		26
97	Fault-tolerant, matrix converter, permanent magnet synchronous motor drive for open-circuit failures. IET Electric Power Applications, 2011, 5, 654.	1.1	26
98	A SyR and IPM machine design methodology assisted by optimization algorithms. , 2012, , .		26
99	Self-commissioning of interior permanent magnet synchronous motor drives with high-frequency current injection. , 2013, , .		26
100	Torque density improvements for high performance machines. , 2013, , .		26
101	Permanent Magnet Starter-Generator for Aircraft Application. , 0, , .		26
102	Turn short circuit fault management in permanent magnet machines. IET Electric Power Applications, 2015, 9, 634-641.	1.1	26
103	Performance Improvement of Bearingless Multisector PMSM With Optimal Robust Position Control. IEEE Transactions on Power Electronics, 2019, 34, 3575-3585.	5.4	26
104	On the Design of Partial Discharge-Free Low Voltage Electrical Machines. , 2019, , .		26
105	An Analytical Subdomain Model for Dual-Rotor Permanent Magnet Motor With Halbach Array. IEEE Transactions on Magnetics, 2019, 55, 1-16.	1.2	26
106	How non-conventional machining affects the surface integrity and magnetic properties of non-oriented electrical steel. Materials and Design, 2021, 210, 110051.	3.3	26
107	Evaluation and Modeling of Cross Saturation Due to Leakage Flux in Vector-Controlled Induction Machines. IEEE Transactions on Industry Applications, 2007, 43, 694-702.	3.3	25
108	High-speed electrical machines and drives [Special section intro.]. IEEE Transactions on Industrial Electronics, 2014, 61, 2943-2945.	5.2	25

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109	Investigation of AC Copper and Iron Losses in High-Speed High-Power Density PMSM. , 2018, , .		25
110	Thermal analysis of fault-tolerant electrical machines for aerospace actuators. IET Electric Power Applications, 2019, 13, 843-852.	1.1	25
111	A Nonlinear Extended State Observer for Sensorless IPMSM Drives With Optimized Gains. IEEE Transactions on Industry Applications, 2020, 56, 1485-1494.	3.3	25
112	Highly Ordered BN ₂ Stacking Structure for Improved Thermally Conductive Polymer Composites. Advanced Electronic Materials, 2020, 6, 2000627.	2.6	25
113	Electrical Machines for the More Electric Aircraft: Partial Discharges Investigation. IEEE Transactions on Industry Applications, 2021, 57, 1389-1398.	3.3	25
114	Computational fluid dynamics modelling of an entire synchronous generator for improved thermal management. IET Electric Power Applications, 2013, 7, 231-236.	1.1	24
115	More Electric Aircraft Electro-Mechanical Actuator Regenerated Power Management. , 2015, , .		24
116	Thermal management of a permanent magnet motor for an directly coupled pump. , 2016, , .		24
117	Design and optimization of a high power density machine for flooded industrial pump. , 2016, , .		24
118	Comprehensive Monitoring of Electrical Machine Parameters Using an Integrated Fiber Bragg Grating-Based Sensor System. Journal of Lightwave Technology, 2018, 36, 1046-1051.	2.7	24
119	Space Vectors and Pseudoinverse Matrix Methods for the Radial Force Control in Bearingless Multisector Permanent Magnet Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 6912-6922.	5.2	24
120	Enhanced Power Sharing Transient With Droop Controllers for Multithree-Phase Synchronous Electrical Machines. IEEE Transactions on Industrial Electronics, 2019, 66, 5600-5610.	5.2	24
121	Stable and Robust Design of Active Disturbance-Rejection Current Controller for Permanent Magnet Machines in Transportation Systems. IEEE Transactions on Transportation Electrification, 2020, 6, 1421-1433.	5.3	24
122	A New External Search Coil Based Method to Detect Detailed Static Air-Gap Eccentricity Position in Nonsalient Pole Synchronous Generators. IEEE Transactions on Industrial Electronics, 2021, 68, 7535-7544.	5.2	24
123	Hairpin Windings: An Opportunity for Next-Generation E-Motors in Transportation. IEEE Industrial Electronics Magazine, 2022, 16, 52-59.	2.3	24
124	A Modular Speed-Drooped System for High Reliability Integrated Modular Motor Drives. IEEE Transactions on Industry Applications, 2016, , 1-1.	3.3	23
125	Thermal management of a high speed permanent magnet machine for an aeroengine. , 2016, , .		23
126	DC Drift Error Mitigation Method for Three-Phase Current Reconstruction With Single Hall Current Sensor. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	23

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127	Rotor Eddy Current Loss and Multiphysics Fields Analysis for a High-Speed Permanent Magnet Machine. IEEE Transactions on Industrial Electronics, 2021, 68, 5100-5111.	5.2	23
128	Segmented Hairpin Topology for Reduced Losses at High-Frequency Operations. IEEE Transactions on Transportation Electrification, 2022, 8, 688-698.	5.3	23
129	A dual inverter for an open end winding induction motor drive without an isolation transformer. , 2015, , .		22
130	Design of a Stator for a High-Speed Turbo-Generator With Fixed Permanent Magnet Rotor Radius and Voltâ€™Ampere Constraints. IEEE Transactions on Energy Conversion, 2018, 33, 1311-1320.	3.7	22
131	A Methodology to Remove Stator Skew in Smallâ€™Medium Size Synchronous Generators via Innovative Damper Cage Designs. IEEE Transactions on Industrial Electronics, 2019, 66, 4296-4307.	5.2	22
132	Electrical machines for high speed applications with a wide constant-power region requirement. , 2011, , .		21
133	Power Quality Improvement of Synchronous Generators Using an Active Power Filter. IEEE Transactions on Industry Applications, 2018, 54, 4080-4090.	3.3	21
134	Control Strategy for Five-Phase Dual-Stator Winding Induction Starter/Generator System. IEEE Transactions on Industrial Electronics, 2020, 67, 2607-2617.	5.2	21
135	High-Speed Electric Drives: A Step Towards System Design. IEEE Open Journal of the Industrial Electronics Society, 2020, 1, 10-21.	4.8	21
136	Identification of Induction Machine Electrical Parameters Using Genetic Algorithms Optimization. , 2008, , .		20
137	Rotor losses in fault-tolerant permanent magnet synchronous machines. IET Electric Power Applications, 2011, 5, 75.	1.1	20
138	A semi-flooded cooling for a high speed machine: Concept, design and practice of an oil sleeve. , 2017, , .		20
139	Investigation of a Partitioned-Primary Hybrid-Excited Flux-Switching Linear Machine With Dual-PM. IEEE Transactions on Industry Applications, 2019, 55, 3649-3659.	3.3	20
140	Comparative Analysis of AC losses with round magnet wire and Litz wire winding of a High â€™ Speed PM Machine. , 2019, , .		20
141	Magnetic Field Modeling and Analysis of Spherical Actuator With Two-Dimensional Longitudinal Camber Halbach Array. IEEE Transactions on Industrial Electronics, 2019, 66, 9112-9121.	5.2	20
142	Impact of Stator Interturn Short Circuit Position on End Winding Vibration in Synchronous Generators. IEEE Transactions on Energy Conversion, 2021, 36, 713-724.	3.7	20
143	Commercial Aircraft Electrificationâ€™Current State and Future Scope. Energies, 2021, 14, 8381.	1.6	20
144	On-line detection of stator winding short-circuit faults in a PM machine using HF signal injection. , 2008, , .		19

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145	Design of synchronous reluctance machines with multi-objective optimization algorithms. , 2013, , .		19
146	Thermal design of a permanent magnetic motor for direct drive wheel actuator. , 2014, , .		19
147	Overall assessments of dual inverter open winding drives. , 2015, , .		19
148	Electrothermal Combined Optimization on Notch in Air-Cooled High-Speed Permanent-Magnet Generator. IEEE Transactions on Magnetics, 2015, 51, 1-10.	1.2	19
149	Assessment of cooling methods for increased power density in electrical machines. , 2016, , .		19
150	A two-degrees-of-freedom system for wheel traction applications. IEEE Transactions on Industrial Electronics, 2018, 65, 4483-4491.	5.2	19
151	High Torque Density Torque Motor With Hybrid Magnetization Pole Arrays for Jet Pipe Servo Valve. IEEE Transactions on Industrial Electronics, 2020, 67, 2133-2142.	5.2	19
152	Enhanced Active Disturbance Rejection Current Controller for Permanent Magnet Synchronous Machines Operated at Low Sampling Time Ratio. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 230-241.	3.0	19
153	An Analytical Approach for the Design of Innovative Hairpin Winding Layouts. , 2020, , .		19
154	Design issues of high-speed permanent magnet machines for high-temperature applications. , 2009, , .		18
155	A Low-Intrusion Load and Efficiency Evaluation Method for In-Service Motors Using Vibration Tests With an Accelerometer. IEEE Transactions on Industry Applications, 2010, 46, 1341-1349.	3.3	18
156	A computationally efficient design procedure for actuator motors using magnetic reluctance-and thermal resistance network models. , 2012, , .		18
157	A Novel Multi-Level Electro-Mechanical Actuator Virtual Testing and Analysis Tool. , 2014, , .		18
158	Synchronous reluctance machine analytical model optimization and validation through finite element analysis. , 2016, , .		18
159	Global design optimization strategy of a synchronous reluctance machine for light electric vehicles. , 2016, , .		18
160	A Fast Method for Modeling Skew and Its Effects in Salient-Pole Synchronous Generators. IEEE Transactions on Industrial Electronics, 2017, 64, 7679-7688.	5.2	18
161	Induction-Machine-Based Starter/Generator Systems: Techniques, Developments, and Advances. IEEE Industrial Electronics Magazine, 2020, 14, 4-19.	2.3	18
162	Rotor Design Optimization of Squirrel Cage Induction Motor - Part I: Problem Statement. IEEE Transactions on Energy Conversion, 2021, 36, 1271-1279.	3.7	18

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163	Optimised Design of Permanent Magnet Assisted Synchronous Reluctance Machines for Household Appliances. IEEE Transactions on Energy Conversion, 2021, 36, 3084-3095.	3.7	18
164	Induction Motor parameters identification using Genetic Algorithms for varying flux levels. , 2008, , .		17
165	Inductance characteristics of PMSMs and their impact on saliency-based sensorless control. , 2010, , .		17
166	Comparative design analysis of Permanent Magnet rotor topologies for an aircraft starter-generator. , 2014, , .		17
167	Design Optimisation of a Fault-Tolerant PM Motor Drive for an Aerospace Actuation Application. , 2014, , .		17
168	Simplified Damper Cage Circuitual Model and Fast Analyticalâ€“Numerical Approach for the Analysis of Synchronous Generators. IEEE Transactions on Industrial Electronics, 2019, 66, 8361-8371.	5.2	17
169	Post-Fault Operation of Bearingless Multisector SPM Machines by Space Vector Control. IEEE Transactions on Power Electronics, 2020, 35, 4168-4177.	5.4	17
170	The Role of Neural Networks in Predicting the Thermal Life of Electrical Machines. IEEE Access, 2020, 8, 40283-40297.	2.6	17
171	High Speed Synchronous Reluctance Machines: Modeling, Design and Limits. IEEE Transactions on Energy Conversion, 2022, 37, 585-597.	3.7	17
172	A comparative study of permanent magnet - synchronous and permanent magnet - flux switching machines for fault tolerant drive systems. , 2010, , .		16
173	CFD modelling of an entire synchronous generator for improved thermal management. , 2012, , .		16
174	Nonâ€“linear circuit based model of permanent magnet synchronous machine under interâ€“turn fault: a simple approach based on healthy machine data. IET Electric Power Applications, 2016, 10, 560-570.	1.1	16
175	Influence of rotor endcaps on the electromagnetic performance of highâ€“speed PM machine. IET Electric Power Applications, 2018, 12, 1142-1149.	1.1	16
176	Reliability vs. Performances of Electrical Machines: Partial Discharges Issue. , 2019, , .		16
177	Research and Realization of High-Power Medium-Voltage Active Rectifier Concepts for Future Hybrid-Electric Aircraft Generation. IEEE Transactions on Industrial Electronics, 2021, 68, 11684-11695.	5.2	16
178	Investigation of induction machine phase open circuit faults using a simplified equivalent circuit model. , 2008, , .		15
179	Optimal design of a high speed concentrated wound PMSM. , 2009, , .		15
180	Design considerations for an outer rotor, field wound, flux switching machine. , 2012, , .		15

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181	Diagnosis of incipient faults in PMSMs with coaxially insulated windings. , 2013, , .		15
182	An Optimized Bi-directional, Wide Speed Range Electric Starter-Generator for Aerospace Application. , 2014, , .		15
183	Damper cage loss reduction and no-load voltage THD improvements in salient-pole synchronous generators. , 2016, , .		15
184	Control-Winding Direct Power Control Strategy for Five-Phase Dual-Stator Winding Induction Generator DC Generating System. IEEE Transactions on Transportation Electrification, 2020, 6, 73-82.	5.3	15
185	Rotor UMP characteristics and vibration properties in synchronous generator due to 3D static air gap eccentricity faults. IET Electric Power Applications, 2020, 14, 961-971.	1.1	15
186	Rotor Position Tracking Control for Low Speed Operation of Direct-Drive PMSM Servo System. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1129-1139.	3.7	15
187	Rectangular and Random Conductors: AC Losses Evaluations and Manufacturing Considerations. , 2020, , .		15
188	The implications of winding faults in induction motor drives. , 0, , .		14
189	High Torque Density PM Machines for High Performance Operation. , 2007, , .		14
190	Comparison of multi-physics optimization methods for high speed synchronous reluctance machines. , 2015, , .		14
191	Multi-physics optimization strategies for high speed synchronous reluctance machines. , 2015, , .		14
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