

# Chris Gerada

## List of Publications by Year in descending order

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535  
papers

9,980  
citations

57631

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76769

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536  
docs citations

536  
times ranked

4250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Recurrent Neural Network Architecture-Based Intention Recognition for Human-Robot Collaboration. IEEE Transactions on Cybernetics, 2023, 53, 1578-1586.	6.2	7
2	A Low-Complexity Modulated Model Predictive Torque and Flux Control Strategy for PMSM Drives Without Weighting Factor. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 1305-1316.	3.7	12
3	Experimental Investigation of Oil Jet Cooling in Electrical Machines With Hairpin Windings. IEEE Transactions on Transportation Electrification, 2023, 9, 598-608.	5.3	2
4	Improved Thermal Modeling and Experimental Validation of Oil-Flooded High-Performance Machines With Slot-Channel Cooling. IEEE Transactions on Transportation Electrification, 2022, 8, 312-324.	5.3	13
5	On Torque Improvement by Current Harmonic Injection in Isotropic and Anisotropic Multiphase Machines. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 845-853.	3.0	4
6	High Speed Synchronous Reluctance Machines: Modeling, Design and Limits. IEEE Transactions on Energy Conversion, 2022, 37, 585-597.	3.7	17
7	Open and Short Circuit Post-Fault Control Strategies for Multi-Three-Phase Interior Permanent Magnet Machines. IEEE Transactions on Energy Conversion, 2022, 37, 163-174.	3.7	9
8	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
9	Segmented Hairpin Topology for Reduced Losses at High-Frequency Operations. IEEE Transactions on Transportation Electrification, 2022, 8, 688-698.	5.3	23
10	A Novel Flux Barrier Parametrization for Synchronous Reluctance Machines. IEEE Transactions on Energy Conversion, 2022, 37, 675-684.	3.7	9
11	High-Speed Synchronous Reluctance Machines: Materials Selection and Performance Boundaries. IEEE Transactions on Transportation Electrification, 2022, 8, 1228-1241.	5.3	13
12	Neural Network aided PMSM multi-objective design and optimization for more-electric aircraft applications. Chinese Journal of Aeronautics, 2022, 35, 233-246.	2.8	4
13	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
14	Hairpin Windings: An Opportunity for Next-Generation E-Motors in Transportation. IEEE Industrial Electronics Magazine, 2022, 16, 52-59.	2.3	24
15	Analytical Methodology for Modelling of Circulating Current Loss in Synchronous Electrical Machines With Permanent Magnets. IEEE Transactions on Energy Conversion, 2022, 37, 220-231.	3.7	10
16	Modular Power Sharing Control for Bearingless Multithree Phase Permanent Magnet Synchronous Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 6600-6610.	5.2	8
17	Calculation Model of Armature Reaction Magnetic Field of Interior Permanent Magnet Synchronous Motor With Segmented Skewed Poles. IEEE Transactions on Energy Conversion, 2022, 37, 1115-1123.	3.7	9
18	Impact of Static Air-Gap Eccentricity on Thermal Responses of Stator Winding Insulation in Synchronous Generators. IEEE Transactions on Industrial Electronics, 2022, 69, 13544-13554.	5.2	6

#	ARTICLE	IF	CITATIONS
19	An Extended State Loop Filter With Position Error Observer for Sensorless IPMSM Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 12213-12224.	5.2	4
20	Integrated Damper Cage for THD Improvements of Variable Speed Salient-Pole Synchronous Generators for the More Electric Aircraft. IEEE Transactions on Transportation Electrification, 2022, 8, 3618-3629.	5.3	2
21	Application of Actor-Critic Deep Reinforcement Learning Method for Obstacle Avoidance of WMR. Lecture Notes in Electrical Engineering, 2022, , 5485-5494.	0.3	1
22	Performance Entitlement by Using Novel High Strength Electrical Steels and Copper Alloys for High-Speed Laminated Rotor Induction Machines. Electronics (Switzerland), 2022, 11, 210.	1.8	4
23	Rotor Slot Design of Squirrel Cage Induction Motors With Improved Rated Efficiency and Starting Capability. IEEE Transactions on Industry Applications, 2022, 58, 3383-3393.	3.3	2
24	Synchronous Reluctance Machines: A Comprehensive Review and Technology Comparison. Proceedings of the IEEE, 2022, 110, 382-399.	16.4	38
25	Effect of Multi-Size Magnetic Powder Gradation on Magnetic Properties of Novel Composite Magnetic Materials for HSPMSM. IEEE Transactions on Transportation Electrification, 2022, 8, 3594-3605.	5.3	4
26	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
27	Profiling the Eddy Current Losses Variations of High-Speed Permanent Magnet Machines in Plug-In Hybrid Electric Vehicles. IEEE Transactions on Transportation Electrification, 2022, 8, 3451-3463.	5.3	3
28	Torque Limiters for Aerospace Actuator Application. Energies, 2022, 15, 1467.	1.6	3
29	Review on the Traditional and Integrated Passives: State-of-the-Art Design and Technologies. Energies, 2022, 15, 88.	1.6	3
30	Analytical Methodology for Eddy Current Loss Simulation in Armature Windings of Synchronous Electrical Machines With Permanent Magnets. IEEE Transactions on Industrial Electronics, 2022, 69, 9761-9770.	5.2	2
31	Sequential Finite-Element-based Model Predictive Torque and Flux Control Method for IPMSM. , 2022, , .		1
32	Electromagnetic Torque Fluctuating Properties under Dynamic RISC Fault in Turbogenerators. Energies, 2022, 15, 3821.	1.6	0
33	On the Use of Topology Optimization for Synchronous Reluctance Machines Design. Energies, 2022, 15, 3719.	1.6	4
34	Electromechanical Characteristics Analysis under DSISC Fault in Synchronous Generators. Machines, 2022, 10, 432.	1.2	1
35	High Speed Permanent Magnet Assisted Synchronous Reluctance Machines " Part I: A General Design Approach. IEEE Transactions on Energy Conversion, 2022, 37, 2556-2566.	3.7	7
36	High Speed Permanent Magnet Assisted Synchronous Reluctance Machines " Part II: Performance Boundaries. IEEE Transactions on Energy Conversion, 2022, 37, 2567-2577.	3.7	3

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37	Magnetic Field and Radial Force Analysis of Six-Phase Rotary Machine. Research on World Agricultural Economy, 2022, 02, .	0.8	1
38	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
39	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
40	Thermal Model Approach to Multisector Three-Phase Electrical Machines. IEEE Transactions on Industrial Electronics, 2021, 68, 2919-2930.	5.2	31
41	Four-Degree-of-Freedom Overmodulation Strategy for Five-Phase Space Vector Pulsewidth Modulation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1578-1590.	3.7	14
42	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
43	Novel Permanent Magnet Synchronous Motor With Integrated Filter Inductor, Using Motor's Inherent Magnetics. IEEE Transactions on Industrial Electronics, 2021, 68, 5638-5649.	5.2	12
44	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
45	Power-Sharing Control in Bearingless Multi-Sector and Multi-Three-Phase Permanent Magnet Machines. IEEE Transactions on Industrial Electronics, 2021, 68, 9070-9080.	5.2	12
46	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
47	A Homothetic Scaling Criteria for Synchronous Reluctance Machines Design. IEEE Transactions on Energy Conversion, 2021, 36, 547-559.	3.7	5
48	An Analytical-Numerical Approach to Model and Analyse Squirrel Cage Induction Motors. IEEE Transactions on Energy Conversion, 2021, 36, 421-430.	3.7	9
49	Slot Number Thermal Effects on Electrical Machines. IEEE Transactions on Energy Conversion, 2021, 36, 23-35.	3.7	3
50	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
51	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
52	Rotor Design Optimization of Squirrel Cage Induction Motor - Part I: Problem Statement. IEEE Transactions on Energy Conversion, 2021, 36, 1271-1279.	3.7	18
53	Rotor Design Optimization of Squirrel Cage Induction Motor - Part II: Results Discussion. IEEE Transactions on Energy Conversion, 2021, 36, 1280-1288.	3.7	13
54	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

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55	Squirrel Cage Induction Motor: A Design-Based Comparison Between Aluminium and Copper Cages. IEEE Open Journal of Industry Applications, 2021, 2, 110-120.	4.8	11
56	Lifetime Estimation of Enamelled Wires Under Accelerated Thermal Aging Using Curve Fitting Methods. IEEE Access, 2021, 9, 18993-19003.	2.6	6
57	Optimised Design of Permanent Magnet Assisted Synchronous Reluctance Machines for Household Appliances. IEEE Transactions on Energy Conversion, 2021, 36, 3084-3095.	3.7	18
58	Analysis of Integration Options for A Two-Stage Synchronous Generator. , 2021, , .		0
59	FemtoCore: An Application Specific Processor for Vertically Integrated High Performance Real-Time Controls. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 479-488.	4.8	2
60	A PMSM With Enhanced Anisotropic Rotor Configuration for Sensorless Operations. IEEE Transactions on Energy Conversion, 2021, 36, 2872-2883.	3.7	2
61	Fast and Simple Tuning Rules of Synchronous Reference Frame Proportional-Integral Current Controller. IEEE Access, 2021, 9, 22156-22170.	2.6	13
62	Improving the Saliency of a High Speed SynRel Rotor by using High Strength Martensitic Sleeve. , 2021, , .		1
63	The Novel Singular-Perturbation-Based Adaptive Control with $I_f$ -Modification for Cable Driven System. Actuators, 2021, 10, 45.	1.2	0
64	Electrical Machines for the More Electric Aircraft: Partial Discharges Investigation. IEEE Transactions on Industry Applications, 2021, 57, 1389-1398.	3.3	25
65	Open and Closed Rotor Slots Design of Single and Double Cages Induction Motor. , 2021, , .		4
66	Permanent Magnet Reduction by Current Harmonics Injection for Surface Permanent Magnet Machines. , 2021, , .		0
67	Influence of Manufacturing and Drive Effects in High-Speed, High-Power-Density PM Machine for Flooded Pump Application. , 2021, , .		4
68	Hairpin Windings: Sensitivity Analysis and Guidelines to Reduce AC Losses. , 2021, , .		12
69	3D Lumped Parameter Thermal Network for Wound-Field Synchronous Generators. , 2021, , .		6
70	Direct Speed Control Loop based on Second Order Active Disturbance Rejection Control Scheme for PMSM Drives. , 2021, , .		1
71	Open-Circuit Fault Control Techniques for Bearingless Multisector Permanent Magnet Synchronous Machines. IEEE Transactions on Industry Applications, 2021, 57, 2527-2536.	3.3	5
72	Optimised Current Loop Design for a High Speed Nine-Phase Permanent Magnet Synchronous Machine in More Electric Aircraft: A Case Study. , 2021, , .		4

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73	Integrated Motor Drive: Mass and Volume Optimization of the Motor with an Integrated Filter Inductor. <i>Energies</i> , 2021, 14, 4564.	1.6	3
74	Toward Obstacle Avoidance for Mobile Robots Using Deep Reinforcement Learning Algorithm. , 2021, , .		3
75	Analysis and Design of Dual-Rotor Synchronous Reluctance Machine. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 4376-4383.	3.7	4
76	Torque Density Optimization of Six-phase Permanent Magnet Synchronous Machine. , 2021, , .		2
77	Homothetic Design in Synchronous Reluctance Machines and Effects on Torque Ripple. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 2195-2205.	3.7	7
78	Modeling and Analysis in Trajectory Tracking Control for Wheeled Mobile Robots with Wheel Skidding and Slipping: Disturbance Rejection Perspective. <i>Actuators</i> , 2021, 10, 222.	1.2	14
79	Experimental Statistical Method Predicting AC Losses on Random Windings and PWM Effect Evaluation. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 2287-2296.	3.7	13
80	Analysis and Performance of Five-Phase Piecewise-Random-Switching-Frequency Space Vector Pulse Width Modulation. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 2339-2347.	3.7	10
81	How non-conventional machining affects the surface integrity and magnetic properties of non-oriented electrical steel. <i>Materials and Design</i> , 2021, 210, 110051.	3.3	26
82	A Thermal Modeling Approach and Experimental Validation for an Oil Spray-Cooled Hairpin Winding Machine. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 2914-2926.	5.3	32
83	Electrical Machine Slot Thermal Condition Effects on Back-Iron Extension Thermal Benefits. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 2927-2938.	5.3	6
84	4-MW Class High-Power-Density Generator for Future Hybrid-Electric Aircraft. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 2952-2964.	5.3	49
85	A Scalable System Architecture for High-Performance Fault Tolerant Machine Drives. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2021, 2, 428-440.	4.8	3
86	Robust Adaptive Control Based on Variable Boundary for a Twin-Motor Cable Driven System. <i>IEEE Transactions on Industrial Electronics</i> , 2021, , 1-1.	5.2	0
87	A Novel Current Limitation Technique Exploiting the Maximum Capability of Power Electronic Inverter and Bearingless Machine. <i>IEEE Transactions on Industry Applications</i> , 2021, 57, 7012-7023.	3.3	3
88	Active Thermal Control for Modular Power Converters in Multi-Phase Permanent Magnet Synchronous Motor Drive System. <i>IEEE Access</i> , 2021, 9, 7054-7063.	2.6	10
89	Open-Circuit Air-Gap Magnetic Field Calculation of Interior Permanent Magnet Synchronous Motor With V-Shaped Segmented Skewed Poles Using Hybrid Analytical Method. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-9.	1.2	9
90	Optimization and Analysis of a High Power Density and Fault Tolerant Starter-Generator for Aircraft Application. <i>Energies</i> , 2021, 14, 113.	1.6	10

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91	Review of Speed-Extension of Permanent Magnet Synchronous Motor with Reconfigurable-Winding System. , 2021, , .		0
92	Modelling of Voltage Distribution within Hairpin Windings. , 2021, , .		3
93	Model Calibration of Oil Jet and Oil Spray Cooling in Electrical Machines with Hairpin Windings. , 2021, , .		6
94	Influence of the Magnetic Load on High Speed Synchronous Reluctance Machines Design. , 2021, , .		1
95	Thermal Modelling of a Liquid Cooled Traction Machine with 8-layer Hairpin Windings. , 2021, , .		8
96	Modelling, Analysis and Design Considerations of Multi-Phase Bearingless Permanent Magnet Synchronous Machine. , 2021, , .		0
97	Significance of Anisotropic Thermal Expansion in High Speed Electric Machines Employing NdFeB Permanent Magnets. Energies, 2021, 14, 7558.	1.6	2
98	Optimization design of a high temperature machine winding. , 2021, , .		1
99	Commercial Aircraft Electrificationâ€”Current State and Future Scope. Energies, 2021, 14, 8381.	1.6	20
100	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
101	Thermal Overload and Insulation Aging of Short Duty Cycle, Aerospace Motors. IEEE Transactions on Industrial Electronics, 2020, 67, 2618-2629.	5.2	75
102	A Novel Concept of Ribless Synchronous Reluctance Motor for Enhanced Torque Capability. IEEE Transactions on Industrial Electronics, 2020, 67, 2553-2563.	5.2	41
103	Novel Motor-Shaped Rotational Inductor for Motor Drive Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 1844-1854.	5.2	9
104	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
105	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
106	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
107	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
108	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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109	Experimental Investigation on Oil Spray Cooling With Hairpin Windings. IEEE Transactions on Industrial Electronics, 2020, 67, 7343-7353.	5.2	101
110	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
111	Torque Ripple Reduction in Sectorfed Multi Three-Phase Machines Based on PWM Carrier Phase Shift. IEEE Transactions on Industrial Electronics, 2020, 67, 4315-4325.	5.2	13
112	Control Strategy for Five-Phase Dual-Stator Winding Induction Starter/Generator System. IEEE Transactions on Industrial Electronics, 2020, 67, 2607-2617.	5.2	21
113	Dual-Pulse Mode Control of a High-Speed Doubly Salient Electromagnetic Machine for Loss Reduction and Speed Range Extension. IEEE Transactions on Industrial Electronics, 2020, 67, 4391-4401.	5.2	9
114	Post-Fault Operation of Bearingless Multisector SPM Machines by Space Vector Control. IEEE Transactions on Power Electronics, 2020, 35, 4168-4177.	5.4	17
115	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
116	A Nonlinear Extended State Observer for Sensorless IPMSM Drives With Optimized Gains. IEEE Transactions on Industry Applications, 2020, 56, 1485-1494.	3.3	25
117	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
118	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
119	Predicting Insulation Resistance of Enamelled Wire using Neural Network and Curve Fit Methods Under Thermal Aging. , 2020, , .		1
120	Highly Ordered BN <sub>2</sub> Stacking Structure for Improved Thermally Conductive Polymer Composites. Advanced Electronic Materials, 2020, 6, 2000627.	2.6	25
121	Thermal Lifetime Evaluation of Electrical Machines Using Neural Network. , 2020, , .		2
122	Advantages of a Double Three-Phase Winding Layout for a Dual Rotor E-Bike Motor Considering Third Current Harmonic Injection Technique. , 2020, , .		1
123	Challenges and Future opportunities of Hairpin Technologies. , 2020, , .		36
124	A Hybrid Computational Tool to Analyze the Performance of Electric Machines with Reduced Content of Permanent Magnet. , 2020, , .		1
125	Hybrid Magnet Configuration to Reduce the Content of Rare Earth Elements in a PM-SynRel Machine. , 2020, , .		2
126	Analysis and Modelling of High Frequency Effects on Synchronous Generator's Armature Conductors. , 2020, , .		2



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127	Feasibility Design Study of High-Performance, High-Power-Density Propulsion Motor for Middle-Range Electric Aircraft. , 2020, , .		8
128	Power Devices Aging Equalization of Interleaved DC-DC Boost Converters via Power Routing. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2020, 1, 91-101.	3.0	10
129	Influence of Rotor Design on Electromagnetic Performance in Interior Permanent Magnet Machines. , 2020, , .		3
130	Multi-Sector Windings For Bearing Relief E-Machine: Saturation and Cross Coupling Effects. , 2020, , .		1
131	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
132	Induction-Machine-Based Starter/Generator Systems: Techniques, Developments, and Advances. IEEE Industrial Electronics Magazine, 2020, 14, 4-19.	2.3	18
133	Analytical Model of Modular Spoke-Type Permanent Magnet Machines for In-Wheel Traction Applications. IEEE Transactions on Energy Conversion, 2020, 35, 1289-1300.	3.7	12
134	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
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	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
137	The Role of Neural Networks in Predicting the Thermal Life of Electrical Machines. IEEE Access, 2020, 8, 40283-40297.	2.6	17
138	Electric drive systems with long feeder cables. IET Electric Power Applications, 2020, 14, 16-30.	1.1	7
139	Performance Enhancement of Direct Torque-Controlled Permanent Magnet Synchronous Motor with a Flexible Switching Table. Energies, 2020, 13, 1907.	1.6	11
140	Eccentric position diagnosis of static eccentricity fault of external rotor permanent magnet synchronous motor as an in-wheel motor. IET Electric Power Applications, 2020, 14, 2263-2272.	1.1	7
141	Characteristic analysis and direct measurement for air gap magnetic field of external rotor permanent magnet synchronous motors in electric vehicles. IET Electric Power Applications, 2020, 14, 1784-1794.	1.1	3
142	An Analytical Approach for the Design of Innovative Hairpin Winding Layouts. , 2020, , .		19
143	Optimized Magnet wire size and Slot winding height for minimum AC losses in a Traction Machine. , 2020, , .		0
144	Improved V-shaped interior permanent magnet rotor topology with inward-extended bridges for reduced torque ripple. IET Electric Power Applications, 2020, 14, 2404-2411.	1.1	2

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145	AC loss Analysis in Winding of Electrical Machines with varying Strands-in-hand and Bundle Shapes. , 2020, , .		9
146	Gain-scheduled LQR control of an aerospace drive system with LC filter and long feeder cable. , 2020, , .		0
147	PM Halbach Arrays in Motors: Loss Reduction and Performance Improvements. , 2020, , .		7
148	Rectangular and Random Conductors: AC Losses Evaluations and Manufacturing Considerations. , 2020, , .		15
149	Numerical Thermal Modelling of Multiphase Spray Cooling of Hairpin Windings. , 2020, , .		3
150	Analysis of a Five-Phase PM Vernier Machine Topology with Two-Slot Pitch Winding. , 2020, , .		3
151	Influence of Airgap Length on Performance of High Power PM-Assisted Syn-Rel Machines. , 2020, , .		2
152	Influence of Optimisation Target Functions on Synchronous Reluctance Machines Design. , 2020, , .		0
153	A PM-Assisted Synchronous Reluctance Motor with Two Slot-Pitch Winding. , 2020, , .		1
154	Performance Improvement of Bearingless Multisector PMSM With Optimal Robust Position Control. IEEE Transactions on Power Electronics, 2019, 34, 3575-3585.	5.4	26
155	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
156	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
157	Dual-Rotor Permanent Magnet Motor for Electric Superbike. , 2019, , .		8
158	Thermal analysis of fault-tolerant electrical machines for aerospace actuators. IET Electric Power Applications, 2019, 13, 843-852.	1.1	25
159	Air-Cooling of a Hollow High-Speed Permanent Magnet Rotor. , 2019, , .		1
160	Coupling calculation and analysis of three-dimensional temperature and fluid field for high-power high-speed permanent magnet machine. IET Electric Power Applications, 2019, 13, 820-825.	1.1	9
161	Torque Ripple Investigation in Squirrel Cage Induction Machines. , 2019, , .		3
162	Fluid flow and heat transfer analysis of TEFC machine end regions using more realistic end-winding geometry. Journal of Engineering, 2019, 2019, 3831-3835.	0.6	12

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163	Influence of Slot Combination on Performance of Brushless Doubly Fed Generator With Hybrid Rotor. IEEE Transactions on Magnetics, 2019, 55, 1-6.	1.2	9
164	Asymmetrical Flux Density Distribution in Stator Teeth of Surface Permanent Magnet Machines. , 2019, , .		1
165	Simplified Analytical Machine Sizing for Surface Mounted Permanent Magnet Machines. , 2019, , .		6
166	On the Design of Partial Discharge-Free Low Voltage Electrical Machines. , 2019, , .		26
167	Single-Phase Open-Circuit Fault Operation of Bearingless Multi-Sector PM Machines. , 2019, , .		3
168	Braking Torque Compensation Strategy and Thermal Behavior of a Dual Three-Phase Winding PMSM During Short-Circuit Fault. , 2019, , .		13
169	Sizing, Design, and Modelling of Aerospace Electric Drive System with Long Feeder Cables. , 2019, , .		1
170	Optimized Sizing of IPM Machines for Automotive Traction Application. , 2019, , .		4
171	Comparative Study on Two Modular Spoke-Type PM Machines for In-Wheel Traction Applications. IEEE Transactions on Energy Conversion, 2019, 34, 2137-2147.	3.7	12
172	Novel 24 slots/14 poles fractional slot concentrated winding topology with low space harmonics for electrical machine. Journal of Engineering, 2019, 2019, 3784-3788.	0.6	12
173	Numerical investigations of convective phenomena of oil impingement on end windings. Journal of Engineering, 2019, 2019, 4022-4026.	0.6	2
174	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
175	Challenges of the Optimization of a High-Speed Induction Machine for Naval Applications. Energies, 2019, 12, 2431.	1.6	9
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177	Research on the Compensation Matching Design and Output Performance for Two-Axis-Compensated Compulsators. IEEE Transactions on Plasma Science, 2019, 47, 2445-2451.	0.6	7
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