

Chris Gerada

List of Publications by Year in descending order

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535
papers

9,980
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57758
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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.	9.5	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.	5.4	12
3	Experimental Investigation of Oil Jet Cooling in Electrical Machines With Hairpin Windings. IEEE Transactions on Transportation Electrification, 2023, 9, 598-608.	7.8	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.	7.8	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.	3.9	4
6	High Speed Synchronous Reluctance Machines: Modeling, Design and Limits. IEEE Transactions on Energy Conversion, 2022, 37, 585-597.	5.2	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.	5.2	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.	3.9	19
9	Segmented Hairpin Topology for Reduced Losses at High-Frequency Operations. IEEE Transactions on Transportation Electrification, 2022, 8, 688-698.	7.8	23
10	A Novel Flux Barrier Parametrization for Synchronous Reluctance Machines. IEEE Transactions on Energy Conversion, 2022, 37, 675-684.	5.2	9
11	High-Speed Synchronous Reluctance Machines: Materials Selection and Performance Boundaries. IEEE Transactions on Transportation Electrification, 2022, 8, 1228-1241.	7.8	13
12	Neural Network aided PMSM multi-objective design and optimization for more-electric aircraft applications. Chinese Journal of Aeronautics, 2022, 35, 233-246.	5.3	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.	7.9	46
14	Hairpin Windings: An Opportunity for Next-Generation E-Motors in Transportation. IEEE Industrial Electronics Magazine, 2022, 16, 52-59.	2.6	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.	5.2	10
16	Modular Power Sharing Control for Bearingless Multithree Phase Permanent Magnet Synchronous Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 6600-6610.	7.9	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.	5.2	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.	7.9	6

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19	An Extended State Loop Filter With Position Error Observer for Sensorless IPMSM Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 12213-12224.	7.9	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.	7.8	2
21	Application of Actor-Critic Deep Reinforcement Learning Method for Obstacle Avoidance of WMR. Lecture Notes in Electrical Engineering, 2022, , 5485-5494.	0.4	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.	3.1	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.	4.9	2
24	Synchronous Reluctance Machines: A Comprehensive Review and Technology Comparison. Proceedings of the IEEE, 2022, 110, 382-399.	21.3	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.	7.8	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.	7.8	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.	7.8	3
28	Torque Limiters for Aerospace Actuator Application. Energies, 2022, 15, 1467.	3.1	3
29	Review on the Traditional and Integrated Passives: State-of-the-Art Design and Technologies. Energies, 2022, 15, 88.	3.1	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.	7.9	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.	3.1	0
33	On the Use of Topology Optimization for Synchronous Reluctance Machines Design. Energies, 2022, 15, 3719.	3.1	4
34	Electromechanical Characteristics Analysis under DSISC Fault in Synchronous Generators. Machines, 2022, 10, 432.	2.2	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.	5.2	7
36	High Speed Permanent Magnet Assisted Synchronous Reluctance Machines “ Part II: Performance Boundaries. IEEE Transactions on Energy Conversion, 2022, 37, 2567-2577.	5.2	3

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37	Magnetic Field and Radial Force Analysis of Six-Phase Rotary Machine. Research on World Agricultural Economy, 2022, 02, .	1.3	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.	5.2	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.	7.9	16
40	Thermal Model Approach to Multisector Three-Phase Electrical Machines. IEEE Transactions on Industrial Electronics, 2021, 68, 2919-2930.	7.9	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.	5.4	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.	7.9	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.	7.9	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.	7.9	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.	7.9	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.	7.9	24
47	A Homothetic Scaling Criteria for Synchronous Reluctance Machines Design. IEEE Transactions on Energy Conversion, 2021, 36, 547-559.	5.2	5
48	An Analytical-Numerical Approach to Model and Analyse Squirrel Cage Induction Motors. IEEE Transactions on Energy Conversion, 2021, 36, 421-430.	5.2	9
49	Slot Number Thermal Effects on Electrical Machines. IEEE Transactions on Energy Conversion, 2021, 36, 23-35.	5.2	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.	5.8	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.	7.8	30
52	Rotor Design Optimization of Squirrel Cage Induction Motor - Part I: Problem Statement. IEEE Transactions on Energy Conversion, 2021, 36, 1271-1279.	5.2	18
53	Rotor Design Optimization of Squirrel Cage Induction Motor - Part II: Results Discussion. IEEE Transactions on Energy Conversion, 2021, 36, 1280-1288.	5.2	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.	7.9	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.	6.5	11
56	Lifetime Estimation of Enameled Wires Under Accelerated Thermal Aging Using Curve Fitting Methods. IEEE Access, 2021, 9, 18993-19003.	4.2	6
57	Optimised Design of Permanent Magnet Assisted Synchronous Reluctance Machines for Household Appliances. IEEE Transactions on Energy Conversion, 2021, 36, 3084-3095.	5.2	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.	6.8	2
60	A PMSM With Enhanced Anisotropic Rotor Configuration for Sensorless Operations. IEEE Transactions on Energy Conversion, 2021, 36, 2872-2883.	5.2	2
61	Fast and Simple Tuning Rules of Synchronous Reference Frame Proportional-Integral Current Controller. IEEE Access, 2021, 9, 22156-22170.	4.2	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 \dot{I}_f -Modification for Cable Driven System. Actuators, 2021, 10, 45.	2.3	0
64	Electrical Machines for the More Electric Aircraft: Partial Discharges Investigation. IEEE Transactions on Industry Applications, 2021, 57, 1389-1398.	4.9	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.	4.9	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. Energies, 2021, 14, 4564.	3.1	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. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4376-4383.	5.4	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. IEEE Transactions on Energy Conversion, 2021, 36, 2195-2205.	5.2	7
78	Modeling and Analysis in Trajectory Tracking Control for Wheeled Mobile Robots with Wheel Skidding and Slipping: Disturbance Rejection Perspective. Actuators, 2021, 10, 222.	2.3	14
79	Experimental Statistical Method Predicting AC Losses on Random Windings and PWM Effect Evaluation. IEEE Transactions on Energy Conversion, 2021, 36, 2287-2296.	5.2	13
80	Analysis and Performance of Five-Phase Piecewise-Random-Switching-Frequency Space Vector Pulse Width Modulation. IEEE Transactions on Energy Conversion, 2021, 36, 2339-2347.	5.2	10
81	How non-conventional machining affects the surface integrity and magnetic properties of non-oriented electrical steel. Materials and Design, 2021, 210, 110051.	7.0	26
82	A Thermal Modeling Approach and Experimental Validation for an Oil Spray-Cooled Hairpin Winding Machine. IEEE Transactions on Transportation Electrification, 2021, 7, 2914-2926.	7.8	32
83	Electrical Machine Slot Thermal Condition Effects on Back-Iron Extension Thermal Benefits. IEEE Transactions on Transportation Electrification, 2021, 7, 2927-2938.	7.8	6
84	4-MW Class High-Power-Density Generator for Future Hybrid-Electric Aircraft. IEEE Transactions on Transportation Electrification, 2021, 7, 2952-2964.	7.8	49
85	A Scalable System Architecture for High-Performance Fault Tolerant Machine Drives. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 428-440.	6.8	3
86	Robust Adaptive Control Based on Variable Boundary for a Twin-Motor Cable Driven System. IEEE Transactions on Industrial Electronics, 2021, , 1-1.	7.9	0
87	A Novel Current Limitation Technique Exploiting the Maximum Capability of Power Electronic Inverter and Bearingless Machine. IEEE Transactions on Industry Applications, 2021, 57, 7012-7023.	4.9	3
88	Active Thermal Control for Modular Power Converters in Multi-Phase Permanent Magnet Synchronous Motor Drive System. IEEE Access, 2021, 9, 7054-7063.	4.2	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. IEEE Transactions on Magnetics, 2021, 57, 1-9.	2.1	9
90	Optimization and Analysis of a High Power Density and Fault Tolerant Starter-Generator for Aircraft Application. Energies, 2021, 14, 113.	3.1	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.	3.1	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.	3.1	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.	7.9	38
101	Thermal Overload and Insulation Aging of Short Duty Cycle, Aerospace Motors. IEEE Transactions on Industrial Electronics, 2020, 67, 2618-2629.	7.9	75
102	A Novel Concept of Ribless Synchronous Reluctance Motor for Enhanced Torque Capability. IEEE Transactions on Industrial Electronics, 2020, 67, 2553-2563.	7.9	41
103	Novel Motor-Shaped Rotational Inductor for Motor Drive Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 1844-1854.	7.9	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.	7.9	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.	7.9	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.	7.9	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.	7.9	19
108	Back-Iron Extension Thermal Benefits for Electrical Machines With Concentrated Windings. IEEE Transactions on Industrial Electronics, 2020, 67, 1728-1738.	7.9	29

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109	Experimental Investigation on Oil Spray Cooling With Hairpin Windings. IEEE Transactions on Industrial Electronics, 2020, 67, 7343-7353.	7.9	101
110	High-Speed Permanent Magnet Synchronous Motor Iron Loss Calculation Method Considering Multiphysics Factors. IEEE Transactions on Industrial Electronics, 2020, 67, 5360-5368.	7.9	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.	7.9	13
112	Control Strategy for Five-Phase Dual-Stator Winding Induction Starter/Generator System. IEEE Transactions on Industrial Electronics, 2020, 67, 2607-2617.	7.9	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.	7.9	9
114	Post-Fault Operation of Bearingless Multisector SPM Machines by Space Vector Control. IEEE Transactions on Power Electronics, 2020, 35, 4168-4177.	7.9	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.	4.9	52
116	A Nonlinear Extended State Observer for Sensorless IPMSM Drives With Optimized Gains. IEEE Transactions on Industry Applications, 2020, 56, 1485-1494.	4.9	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.	7.8	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.	7.9	39
119	Predicting Insulation Resistance of Enamelled Wire using Neural Network and Curve Fit Methods Under Thermal Aging. , 2020, , .		1
120	Highly Ordered BN ₂ Stacking Structure for Improved Thermally Conductive Polymer Composites. Advanced Electronic Materials, 2020, 6, 2000627.	5.1	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 DCâ€“DC Boost Converters via Power Routing. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2020, 1, 91-101.	3.9	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 airâ€“gap eccentricity faults. IET Electric Power Applications, 2020, 14, 961-971.	1.8	15
132	Induction-Machine-Based Starter/Generator Systems: Techniques, Developments, and Advances. IEEE Industrial Electronics Magazine, 2020, 14, 4-19.	2.6	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.	5.2	12
134	Challenges and Opportunities for Wound Field Synchronous Generators in Future More Electric Aircraft. IEEE Transactions on Transportation Electrification, 2020, 6, 1466-1477.	7.8	78
135	High-Speed Electric Drives: A Step Towards System Design. IEEE Open Journal of the Industrial Electronics Society, 2020, 1, 10-21.	6.8	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.	7.8	24
137	The Role of Neural Networks in Predicting the Thermal Life of Electrical Machines. IEEE Access, 2020, 8, 40283-40297.	4.2	17
138	Electric drive systems with long feeder cables. IET Electric Power Applications, 2020, 14, 16-30.	1.8	7
139	Performance Enhancement of Direct Torque-Controlled Permanent Magnet Synchronous Motor with a Flexible Switching Table. Energies, 2020, 13, 1907.	3.1	11
140	Eccentric position diagnosis of static eccentricity fault of external rotor permanent magnet synchronous motor as an inâ€“wheel motor. IET Electric Power Applications, 2020, 14, 2263-2272.	1.8	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.	1.8	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 Vâ€“shaped interior permanent magnet rotor topology with inwardâ€“extended bridges for reduced torque ripple. IET Electric Power Applications, 2020, 14, 2404-2411.	1.8	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.	7.9	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.	7.9	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.	7.9	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.	1.8	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.	1.8	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.	1.1	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.	2.1	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.	5.2	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.	1.1	12
173	Numerical investigations of convective phenomena of oil impingement on end windings. Journal of Engineering, 2019, 2019, 4022-4026.	1.1	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.	2.1	23
175	Challenges of the Optimization of a High-Speed Induction Machine for Naval Applications. Energies, 2019, 12, 2431.	3.1	9
176	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.	5.2	40
177	Research on the Compensation Matching Design and Output Performance for Two-Axis-Compensated Compulsators. IEEE Transactions on Plasma Science, 2019, 47, 2445-2451.	1.3	7
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