Chris Gerada

List of Publications by Year in Descending Order

451 papers	5,846 citations	35 h-index	56 g-index
536 ext. papers	8,098 ext. citations	4.9 avg, IF	6.44 L-index

#	Paper	IF	Citations
451	Application of Actor-Critic Deep Reinforcement Learning Method for Obstacle Avoidance of WMR. *Lecture Notes in Electrical Engineering*, **2022**, 5485-5494	0.2	
450	Performance Entitlement by Using Novel High Strength Electrical Steels and Copper Alloys for High-Speed Laminated Rotor Induction Machines. *Electronics (Switzerland)*, **2022**, 11, 210	2.6	0
449	Rotor Slot Design of Squirrel Cage Induction Motors with Improved Rated Efficiency and Starting Capability. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	
448	Synchronous Reluctance Machines: A Comprehensive Review and Technology Comparison. *Proceedings of the IEEE*, **2022**, 1-18	14.3	3
447	Effect of Multi-size Magnetic Powder Gradation on Magnetic Properties of Novel Composite Magnetic Materials for HSPMSM. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	
446	A Comprehensive Design Guideline of Hairpin Windings for High Power Density Electric Vehicle Traction Motors. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	0
445	. *IEEE Transactions on Power Electronics*, **2022**, 37, 749-760	7.2	9
444	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*, **2022**, 1-1	5.6	1
443	Profiling the Eddy Current Losses Variations of High-Speed Permanent Magnet Machines in Plug-in Hybrid Electric Vehicles. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	
442	Torque Limiters for Aerospace Actuator Application. *Energies*, **2022**, 15, 1467	3.1	0
441	Review on the Traditional and Integrated Passives: State-of-the-Art Design and Technologies. *Energies*, **2022**, 15, 88	3.1	0
440	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	8.9	1
439	Electromagnetic Torque Fluctuating Properties under Dynamic RISC Fault in Turbogenerators. *Energies*, **2022**, 15, 3821	3.1	
438	On the Use of Topology Optimization for Synchronous Reluctance Machines Design. *Energies*, **2022**, 15, 3719	3.1	1
437	Electromechanical Characteristics Analysis under DSISC Fault in Synchronous Generators. *Machines*, **2022**, 10, 432	2.9	1
436	Integrated Damper Cage for THD Improvements of Variable Speed Salient-Pole Synchronous Generators for the More Electric Aircraft. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	1
435	Significance of Anisotropic Thermal Expansion in High Speed Electric Machines Employing NdFeB Permanent Magnets. *Energies*, **2021**, 14, 7558	3.1	2

434	Impact of Static Air-Gap Eccentricity on Thermal Responses of Stator Winding Insulation in Synchronous Generators. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	0
433	An Extended State Loop-Filter with Position Error Observer for Sensorless IPMSM Drives. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	
432	Hybrid Recurrent Neural Network Architecture-Based Intention Recognition for Human-Robot Collaboration. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	3
431	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**, 1-1	2	2
430	Optimization and Analysis of a High Power Density and Fault Tolerant Starter Generator for Aircraft Application. *Energies*, **2021**, 14, 113	3.1	3
429	Calculation Model of Armature Reaction Magnetic Field of Interior Permanent Magnet Synchronous Motor with Segmented Skewed Poles. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	1
428	Electrical Machines for the More Electric Aircraft: Partial Discharges Investigation. *IEEE Transactions on Industry Applications*, **2021**, 57, 1389-1398	4.3	12
427	Open and Closed Rotor Slots Design of Single and Double Cages Induction Motor **2021**,		2
426	Hairpin Windings: Sensitivity Analysis and Guidelines to Reduce AC Losses **2021**,		2
425	Open-Circuit Fault Control Techniques for Bearingless Multisector Permanent Magnet Synchronous Machines. *IEEE Transactions on Industry Applications*, **2021**, 57, 2527-2536	4.3	3
424	Integrated Motor Drive: Mass and Volume Optimization of the Motor with an Integrated Filter Inductor. *Energies*, **2021**, 14, 4564	3.1	2
423	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 2919-2930	8.9	11
422	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	5.6	9
421	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5100-5111	8.9	12
420	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5638-5649	8.9	6
419	New Three-Phase Current Reconstruction for PMSM Drive With Hybrid Space Vector Pulsewidth Modulation Technique. *IEEE Transactions on Power Electronics*, **2021**, 36, 662-673	7.2	20
418	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 9070-9080	8.9	2
417	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 7535-7544	8.9	7

416	. *IEEE Transactions on Energy Conversion*, **2021**, 36, 547-559	5.4	2
415	An Analytical-Numerical Approach to Model and Analyse Squirrel Cage Induction Motors. *IEEE Transactions on Energy Conversion*, **2021**, 36, 421-430	5.4	4
414	. *IEEE Transactions on Energy Conversion*, **2021**, 36, 23-35	5.4	2
413	. *IEEE/ASME Transactions on Mechatronics*, **2021**, 26, 1129-1139	5.5	6
412	. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 793-803	7.6	6
411	Rotor Design Optimization of Squirrel Cage Induction Motor - Part I: Problem Statement. *IEEE Transactions on Energy Conversion*, **2021**, 36, 1271-1279	5.4	11
410	Rotor Design Optimization of Squirrel Cage Induction Motor - Part II: Results Discussion. *IEEE Transactions on Energy Conversion*, **2021**, 36, 1280-1288	5.4	7
409	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 160-174	8.9	18
408	Improved Thermal Modelling and Experimental Validation of Oil-Flooded High Performance Machines with Slot-Channel Cooling. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	1
407	Squirrel Cage Induction Motor: A Design-Based Comparison Between Aluminium and Copper Cages. *IEEE Open Journal of Industry Applications*, **2021**, 2, 110-120	4.7	2
406	Lifetime Estimation of Enameled Wires Under Accelerated Thermal Aging Using Curve Fitting Methods. *IEEE Access*, **2021**, 9, 18993-19003	3.5	2
405	On Torque Improvement by Current Harmonic Injection in Isotropic and Anisotropic Multi-Phase Machines. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2021**, 1-1	2.6	1
404	High Speed Synchronous Reluctance Machines: Modeling, Design and Limits. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	4
403	Optimised Design of Permanent Magnet Assisted Synchronous Reluctance Machines for Household Appliances. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	6
402	Open and Short Circuit Post-Fault Control Strategies for Multi-Three-Phase Interior Permanent Magnet Machines. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	1
401	Femtocore: An Application Specific Processor for Vertically Integrated High Performance Real-Time Controls. *IEEE Open Journal of the Industrial Electronics Society*, **2021**, 1-1	3.6	0
400	A PMSM with Enhanced Anisotropic Rotor Configuration for Sensorless Operations. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	0
399	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*, **2021**, 1-1	2.6	3

398	Segmented Hairpin Topology for Reduced Losses at High Frequency Operations. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	3
397	Fast and Simple Tuning Rules of Synchronous Reference Frame Proportional-Integral Current Controller. *IEEE Access*, **2021**, 9, 22156-22170	3.5	4
396	A Novel Flux Barrier Parametrization for Synchronous Reluctance Machines. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	4
395	High Speed Synchronous Reluctance Machines: Materials Selection and Performance Boundaries. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	2
394	The Novel Singular-Perturbation-Based Adaptive Control with Modification for Cable Driven System. *Actuators*, **2021**, 10, 45	2.4	
393	Analysis and Design of Dual-Rotor Synchronous Reluctance Machine. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 4376-4383	5.6	2
392	Homothetic Design in Synchronous Reluctance Machines and Effects on Torque Ripple. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2195-2205	5.4	3
391	Modeling and Analysis in Trajectory Tracking Control for Wheeled Mobile Robots with Wheel Skidding and Slipping: Disturbance Rejection Perspective. *Actuators*, **2021**, 10, 222	2.4	2
390	Experimental Statistical Method Predicting AC Losses on Random Windings and PWM Effect Evaluation. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2287-2296	5.4	3
389	Neural Network aided PMSM multi-objective design and optimization for more-electric aircraft applications. *Chinese Journal of Aeronautics*, **2021**,	3.7	2
388	Analysis and Performance of Five-Phase Piecewise-Random-Switching-Frequency Space Vector Pulse Width Modulation. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2339-2347	5.4	1
387	How non-conventional machining affects the surface integrity and magnetic properties of non-oriented electrical steel. *Materials and Design*, **2021**, 210, 110051	8.1	3
386	A Thermal Modeling Approach and Experimental Validation for an Oil Spray-Cooled Hairpin Winding Machine. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2914-2926	7.6	5
385	Electrical Machine Slot Thermal Condition Effects on Back-Iron Extension Thermal Benefits. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2927-2938	7.6	1
384	4-MW Class High-Power-Density Generator for Future Hybrid-Electric Aircraft. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2952-2964	7.6	10
383	A Scalable System Architecture for High-Performance Fault Tolerant Machine Drives. *IEEE Open Journal of the Industrial Electronics Society*, **2021**, 2, 428-440	3.6	0
382	Robust Adaptive Control Based on Variable Boundary for a Twin-Motor Cable Driven System. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	
381	Hairpin Windings: An Opportunity for Next-Generation E-Motors in Transportation. *IEEE Industrial Electronics Magazine*, **2021**, 2-10	6.2	3

380	A Novel Current Limitation Technique Exploiting the Maximum Capability of Power Electronic Inverter and Bearingless Machine. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	1
379	Active Thermal Control for Modular Power Converters in Multi-Phase Permanent Magnet Synchronous Motor Drive System. *IEEE Access*, **2021**, 9, 7054-7063	3.5	2
378	Modular Power Sharing Control for Bearingless Multi-Three Phase Permanent Magnet Synchronous Machine. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1
377	Commercial Aircraft Electrification Current State and Future Scope. *Energies*, **2021**, 14, 8381	3.1	5
376	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	1.8	6
375	Induction-Machine-Based Starter/Generator Systems: Techniques, Developments, and Advances. *IEEE Industrial Electronics Magazine*, **2020**, 14, 4-19	6.2	11
374	. *IEEE Transactions on Energy Conversion*, **2020**, 35, 1289-1300	5.4	7
373	Challenges and Opportunities for Wound Field Synchronous Generators in Future More Electric Aircraft. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1466-1477	7.6	23
372	High-Speed Electric Drives: A Step Towards System Design. *IEEE Open Journal of the Industrial Electronics Society*, **2020**, 1, 10-21	3.6	8
371	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	7.6	9
370	The Role of Neural Networks in Predicting the Thermal Life of Electrical Machines. *IEEE Access*, **2020**, 8, 40283-40297	3.5	8
369	Electric drive systems with long feeder cables. *IET Electric Power Applications*, **2020**, 14, 16-30	1.8	3
368	Performance Enhancement of Direct Torque-Controlled Permanent Magnet Synchronous Motor with a Flexible Switching Table. *Energies*, **2020**, 13, 1907	3.1	8
367	Improved V-shaped interior permanent magnet rotor topology with inward-extended bridges for reduced torque ripple. *IET Electric Power Applications*, **2020**, 14, 2404-2411	1.8	0
366	AC loss Analysis in Winding of Electrical Machines with varying Strands-in-hand and Bundle Shapes **2020**,		2
365	Rectangular and Random Conductors: AC Losses Evaluations and Manufacturing Considerations **2020**,		8
364	Analysis of a Five-Phase PM Vernier Machine Topology with Two-Slot Pitch Winding **2020**,		1
363	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	0

362	**2020**,		5
361	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	1.8	4
360	. *IEEE Transactions on Industry Applications*, **2020**, 56, 183-193	4.3	22
359	. *IEEE Transactions on Industry Applications*, **2020**, 56, 1485-1494	4.3	6
358	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	7.6	5
357	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	8.9	17
356	Highly Ordered BN?BN? Stacking Structure for Improved Thermally Conductive Polymer Composites. *Advanced Electronic Materials*, **2020**, 6, 2000627	6.4	7
355	Advantages of a Double Three-Phase Winding Layout for a Dual Rotor E-Bike Motor Considering Third Current Harmonic Injection Technique **2020**,		1
354	Challenges and Future opportunities of Hairpin Technologies **2020**,		13
353	Hybrid Magnet Configuration to Reduce the Content of Rare Earth Elements in a PM-SynRel Machine **2020**,		1
352	Analysis and Modelling of High Frequency Effects on Synchronous Generators Armature Conductors **2020**,		1
351	. *IEEE Transactions on Energy Conversion*, **2020**, 1-1	5.4	6
350	Feasibility Design Study of High-Performance, High-Power-Density Propulsion Motor for Middle-Range Electric Aircraft **2020**,		2
349	Power Devices Aging Equalization of Interleaved DCDC Boost Converters via Power Routing. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2020**, 1, 91-101	2.6	5
348	. *IEEE Transactions on Industrial Electronics*, **2020**, 1-1	8.9	4
347	Influence of Rotor Design on Electromagnetic Performance in Interior Permanent Magnet Machines **2020**,		1
346	Multi-Sector Windings For Bearing Relief E-Machine: Saturation and Cross Coupling Effects **2020**,		1
345	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 180-191	8.9	23

344	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2618-2629	8.9	35
343	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2553-2563	8.9	18
342	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 1844-1854	8.9	7
341	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2667-2677	8.9	10
340	A Nonlinear Extended State Observer for Rotor Position and Speed Estimation for Sensorless IPMSM Drives. *IEEE Transactions on Power Electronics*, **2020**, 35, 733-743	7.2	31
339	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2630-2641	8.9	30
338	High Torque Density Torque Motor With Hybrid Magnetization Pole Arrays for Jet Pipe Servo Valve. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2133-2142	8.9	8
337	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 1728-1738	8.9	13
336	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 7343-7353	8.9	39
335	High-Speed Permanent Magnet Synchronous Motor Iron Loss Calculation Method Considering Multiphysics Factors. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 5360-5368	8.9	21
334	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 4315-4325	8.9	8
333	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2607-2617	8.9	11
332	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 4391-4401	8.9	2
331	Post-Fault Operation of Bearingless Multisector SPM Machines by Space Vector Control. *IEEE Transactions on Power Electronics*, **2020**, 35, 4168-4177	7.2	8
330	Simplified Analytical Machine Sizing for Surface Mounted Permanent Magnet Machines **2019**,		1
329	On the Design of Partial Discharge-Free Low Voltage Electrical Machines **2019**,		15
328	Single-Phase Open-Circuit Fault Operation of Bearingless Multi-Sector PM Machines **2019**,		3
327	Braking Torque Compensation Strategy and Thermal Behavior of a Dual Three-Phase Winding PMSM During Short-Circuit Fault **2019**,		5

326	Optimized Sizing of IPM Machines for Automotive Traction Application **2019**,		3
325	Comparative Study on Two Modular Spoke-Type PM Machines for In-Wheel Traction Applications. *IEEE Transactions on Energy Conversion*, **2019**, 34, 2137-2147	5.4	6
324	Novel 24-slots14-poles fractional-slot concentrated winding topology with low-space harmonics for electrical machine. *Journal of Engineering*, **2019**, 2019, 3784-3788	0.7	5
323	Numerical investigations of convective phenomena of oil impingement on end-windings. *Journal of Engineering*, **2019**, 2019, 4022-4026	0.7	1
322	DC Drift Error Mitigation Method for Three-Phase Current Reconstruction With Single Hall Current Sensor. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	14
321	Challenges of the Optimization of a High-Speed Induction Machine for Naval Applications. *Energies*, **2019**, 12, 2431	3.1	7
320	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	5.4	23
319	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	4
318	Eddy Current Losses Analysis and Optimization Design of Litz-Wire Windings for Air-Core Compulsators. *IEEE Transactions on Plasma Science*, **2019**, 47, 2532-2538	1.3	8
317	. *IEEE Transactions on Industry Applications*, **2019**, 55, 3649-3659	4.3	10
316	Flux-Density Harmonics Analysis of Switched-Flux Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	6
315	. *IEEE Transactions on Industry Applications*, **2019**, 55, 3544-3554	4.3	32
314	Comparative Study of Two Novel Double-Sided Hybrid-Excitation Flux-Reversal Linear Motors With Surface and Interior PM Arrangements. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	9
313	Fully-integrated high-speed IM for improving high-power marine engines. *IET Electric Power Applications*, **2019**, 13, 148-153	1.8	2
312	Simplified Damper Cage Circuital Model and Fast Analytical Numerical Approach for the Analysis of Synchronous Generators. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8361-8371	8.9	6
311	Performance Improvement of Bearingless Multisector PMSM With Optimal Robust Position Control. *IEEE Transactions on Power Electronics*, **2019**, 34, 3575-3585	7.2	23
310	Load Control for the DC Electrical Power Distribution System of the More Electric Aircraft. *IEEE Transactions on Power Electronics*, **2019**, 34, 3937-3947	7.2	25
309	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	8.9	35

308	Dual-Rotor Permanent Magnet Motor for Electric Superbike **2019**,		3
307	Thermal analysis of fault-tolerant electrical machines for aerospace actuators. *IET Electric Power Applications*, **2019**, 13, 843-852	1.8	14
306	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	7
305	Torque Ripple Investigation in Squirrel Cage Induction Machines **2019**,		2
304	Fluid flow and heat transfer analysis of TEFC machine end regions using more realistic end-winding geometry. *Journal of Engineering*, **2019**, 2019, 3831-3835	0.7	3
303	Influence of Slot Combination on Performance of Brushless Doubly Fed Generator With Hybrid Rotor. *IEEE Transactions on Magnetics*, **2019**, 55, 1-6	2	4
302	**2019**,		1
301	Free-Form Design of Electrical Machine Rotor Cores for Production Using Additive Manufacturing. *Journal of Mechanical Design, Transactions of the ASME*, **2019**, 141,	3	16
300	Thermal Barrier for High-Voltage Permanent Magnet Synchronous Motor with Air-cooling Hybrid Ventilation Systems **2019**,		1
299	The potential of exploiting non-symmetric structures in electrical machines **2019**,		1
298	Fault-Tolerant Electrical Machines for Transport Applications **2019**,		1
297	Reduced Order Lumped Parameter Thermal Network for Dual Three-Phase Permanent Magnet Machines **2019**,		8
296	Comparative Analysis of AC losses with round magnet wire and Litz wire winding of a High Speed PM Machine **2019**,		6
295	Modeling of Classical Synchronous Generators Using Size-Efficient Lookup Tables With Skewing Effect. *IEEE Access*, **2019**, 7, 174551-174561	3.5	2
294	Reliability vs. Performances of Electrical Machines: Partial Discharges Issue **2019**,		7
293	Simplified Lumped Parameter Thermal Network for Short-Duty Dual Three-Phase Permanent Magnet Machines **2019**,		1
292	Enhancing the Torque Density of Conventional PM-SynRel Machine with Hybrid Flux Barrier **2019**,		2
291	Multi-physics Design Optimisation of PM-assisted Synchronous Reluctance Motor for Traction Application **2019**,		2

290	An Analytical Subdomain Model for Dual-Rotor Permanent Magnet Motor With Halbach Array. *IEEE Transactions on Magnetics*, **2019**, 55, 1-16	2	12
289	Smart Current Limitation Technique for a Multiphase Bearingless Machine with Combined Winding System **2019**,		1
288	Rotor UMP & Mechanical Response in HSPMSM in Typical Running Conditions **2019**,		1
287	Active Thermal Control for Power Converters in Modular Winding Permanent Magnet Synchronous Motor **2019**,		2
286	Sensitivity Analysis of Machine Components Thermal Properties Effects on Winding Temperature **2019**,		3
285	Trade-off Study of a High Power Density Starter-Generator for Turboprop Aircraft System **2019**,		1
284	Improved Thermal Management and Analysis for Stator End-Windings of Electrical Machines. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 5057-5069	8.9	69
283	A Methodology to Remove Stator Skew in Small–Medium Size Synchronous Generators via Innovative Damper Cage Designs. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 4296-4307	8.9	11
282	Fixed switching frequency predictive control of an asymmetric source dual inverter system with a floating bridge for multilevel operation. *IET Power Electronics*, **2019**, 12, 450-457	2.2	8
281	The Influence of Winding Location in Flux-Switching Permanent-Magnet Machines. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	4
280	Consideration on Eddy Current Reduction Techniques for Solid Materials Used in Unconventional Magnetic Circuits. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 4870-4879	8.9	1
279	. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 5600-5610	8.9	14
278	A Novel Thermal Network Model Used for Temperature Calculation and Analysis on Brushless Doubly-Fed Generator With Winding Encapsulating Structure. *IEEE Transactions on Industry Applications*, **2019**, 55, 1473-1483	4.3	6
277	Magnetic Field Modeling and Analysis of Spherical Actuator With Two-Dimensional Longitudinal Camber Halbach Array. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 9112-9121	8.9	14
276	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	8.9	23
275	PWM-VSI Fault Diagnosis for a PMSM Drive Based on the Fuzzy Logic Approach. *IEEE Transactions on Power Electronics*, **2019**, 34, 759-768	7.2	83
274	. *IEEE Transactions on Energy Conversion*, **2018**, 33, 1311-1320	5.4	13
273	Considerations on the Effects That Core Material Machining Has on an Electrical Machine's Performance. *IEEE Transactions on Energy Conversion*, **2018**, 33, 1154-1163	5.4	30

272	Design and testing of electromechanical actuator for aerospace applications **2018**,		5
271	Design Optimization of a High-Speed Synchronous Reluctance Machine. *IEEE Transactions on Industry Applications*, **2018**, 54, 233-243	4.3	43
270	Radial Force Control of Multisector Permanent-Magnet Machines for Vibration Suppression. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 5395-5405	8.9	31
269	Comprehensive Monitoring of Electrical Machine Parameters Using an Integrated Fiber Bragg Grating-Based Sensor System. *Journal of Lightwave Technology*, **2018**, 36, 1046-1051	4	10
268	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	8.9	21
267	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 5302-5312	8.9	30
266	. *IEEE Transactions on Industry Applications*, **2018**, 54, 4080-4090	4.3	12
265	Design and Losses Analysis of a High Power Density Machine for Flooded Pump Applications. *IEEE Transactions on Industry Applications*, **2018**, 54, 3260-3270	4.3	36
264	Comparison of electrical machines for use with a high-horsepower marine engine turbocharger **2018**,		3
263	Synchronous Reluctance Motor Iron Losses: Considering Machine Nonlinearity at MTPA, FW, and MTPV Operating Conditions. *IEEE Transactions on Energy Conversion*, **2018**, 33, 1402-1410	5.4	17
262	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 4483-4491	8.9	12
261	Development of Aircraft Electric Starter□Generator System Based on Active Rectification Technology. *IEEE Transactions on Transportation Electrification*, **2018**, 4, 985-996	7.6	43
260	Magnetic Field and Torque Output of Packaged Hydraulic Torque Motor. *Energies*, **2018**, 11, 134	3.1	1
259	Development and structure of multi-DOF spherical induction motor **2018**,		1
258	Thermal analysis of fault-tolerant electrical machines for more electric aircraft applications. *Journal of Engineering*, **2018**, 2018, 461-467	0.7	9
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251	Performance Analysis of PMSM for High-Speed Starter-Generator System **2018**,		4
250	Investigation of AC Copper and Iron Losses in High-Speed High-Power Density PMSM **2018**,		12
249	**2018**,		4
248	**2018**,		6
247	Design and Testing of PMSM for Aerospace EMA Applications **2018**,		18
246	The Influence of Strands and Bundle-Level Arrangements of Magnet Wires on AC Losses in the Winding of High Speed Traction Machine **2018**,		6
245	The Influence of Stator Material on the Power Density and Iron Loss of a High-Performace Starter-Generator for More Electric Aircraft **2018**,		8
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243	**2018**,		3
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241	Synchronous Reluctance Motor Iron Losses: Analytical Model and Optimization **2018**,		3
240	Novel Core Designs to Miniaturise Passive Magnetic Components **2018**,		3
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121	A dual two-level inverter with a single source for open end winding induction motor drive application **2015**,		10
120	**2015**,		4
119	Converter topologies comparison for more electric aircrafts high speed Starter/Generator application **2015**,		20
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104	Permanent Magnet Starter-Generator for Aircraft Application **2014**,		8
103	Development of a Modelica Library for Electro-Mechanical Actuator System Studies including Fault Scenarios and Losses **2014**,		1
102	Thermal-Electromagnetic Analysis of Solid Rotor Induction Machine **2014**,		3
101	Enhanced Cooling for an Electric Starter-Generator for Aerospace Application **2014**,		5
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42	A fault-tolerant control scheme for a dual flux-switching permanent magnet motor drive **2011**,		3
41	Weight optimisation of a surface mount permanent magnet synchronous motor using genetic algorithms and a combined electromagnetic-thermal co-simulation environment **2011**,		10
40	Design of a high force density tubular permanent magnet motor **2010**,		21
39	Fault tolerant winding technology comparison for Flux Switching Machine **2010**,		4

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37	Novel fault tolerant design of flux switching machines **2010**,		10
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30	Analysis of the end winding heat transfer variation with altitude in electric motors **2009**,		3
29	Optimal design of a high speed concentrated wound PMSM **2009**,		14
28	Operation of an induction motor with an open circuit fault by controlling the zero sequence voltage **2009**,		6
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9	Operating induction motor drives with turn-to-turn faults **2005**,		5
8	Winding turn-to-turn faults in permanent magnet synchronous machine drives		28
7	Transient torque response improvement in presence of axial saturation due to skewing of rotor slots in induction motors		1
6	The implications of winding faults in induction motor drives		13
5	Evaluation of a vector controlled induction motor drive using the dynamic magnetic circuit model		3
4	The impact of matrix converter technology on motor design for an integrated flight control surface actuation system		8
3	Evaluation and modelling of cross saturation due to leakage flux in vector controlled induction machines		3

2	An investigation into the suitability of unbalanced motor operation, the Eh-star-circuit for stray load loss measurement	4
1	Mechanical and thermal design of an aeroengine starter/generator	1