

Michele Degano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

826
citations

15
h-index

22
g-index

119
ext. papers

1,238
ext. citations

5.4
avg. IF

4.94
L-index

#	Paper	IF	Citations
100	Rotor Slot Design of Squirrel Cage Induction Motors with Improved Rated Efficiency and Starting Capability. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	
99	Synchronous Reluctance Machines: A Comprehensive Review and Technology Comparison. <i>Proceedings of the IEEE</i> , 2022 , 1-18	14.3	3
98	A Comparison of Prediction Models with Machine Learning Algorithms for Traction Characteristics in Linear Traction Induction Motors. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2022 , 17, 470-478	1	
97	Decoupled Discrete Current Control for AC Drives at Low Sampling-to-Fundamental Frequency Ratios. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	
96	On the Use of Topology Optimization for Synchronous Reluctance Machines Design. <i>Energies</i> , 2022 , 15, 3719	3.1	1
95	Influence of Constructive Parameters on the Performance of an Axial-Flux Induction Machine with Solid and Magnetically Anisotropic Rotor 2021 ,		1
94	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 , 1-1	2	2
93	Calculation Model of Armature Reaction Magnetic Field of Interior Permanent Magnet Synchronous Motor with Segmented Skewed Poles. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
92	Open and Closed Rotor Slots Design of Single and Double Cages Induction Motor 2021 ,		2
91	Hairpin Windings: Sensitivity Analysis and Guidelines to Reduce AC Losses 2021 ,		2
90	Improved Model Predictive Current Control for SPMSM Drives Using Current Update Mechanism. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1938-1948	8.9	10
89	Four-Degree-of-Freedom Overmodulation Strategy for Five-Phase Space Vector Pulsewidth Modulation. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 1578-1590	5.6	9
88	A Digital Internal Model Current Controller for Salient Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 4703-4717	8.9	7
87	A Novel Sizing Approach for Synchronous Reluctance Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2083-2095	8.9	12
86	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9070-9080	8.9	2
85	A Complete Equivalent Circuit for Linear Induction Motors With Laterally Asymmetric Secondary for Urban Railway Transit. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1014-1022	5.4	2
84	. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 547-559	5.4	2

83	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 1129-1139	5.5	6
82	Impact of Star Connection Layouts on the Control of Multiphase Induction Motor Drives Under Open-Phase Fault. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3717-3726	7.2	13
81	Rotor Design Optimization of Squirrel Cage Induction Motor - Part I: Problem Statement. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1271-1279	5.4	11
80	Rotor Design Optimization of Squirrel Cage Induction Motor - Part II: Results Discussion. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1280-1288	5.4	7
79	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 160-174	8.9	18
78	Improved Thermal Modelling and Experimental Validation of Oil-Flooded High Performance Machines with Slot-Channel Cooling. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	1
77	Squirrel Cage Induction Motor: A Design-Based Comparison Between Aluminium and Copper Cages. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 2, 110-120	4.7	2
76	On Torque Improvement by Current Harmonic Injection in Isotropic and Anisotropic Multi-Phase Machines. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 1-1	2.6	1
75	High Speed Synchronous Reluctance Machines: Modeling, Design and Limits. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	4
74	Optimised Design of Permanent Magnet Assisted Synchronous Reluctance Machines for Household Appliances. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	6
73	Open and Short Circuit Post-Fault Control Strategies for Multi-Three-Phase Interior Permanent Magnet Machines. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
72	Segmented Hairpin Topology for Reduced Losses at High Frequency Operations. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	3
71	A Novel Flux Barrier Parametrization for Synchronous Reluctance Machines. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	4
70	High Speed Synchronous Reluctance Machines: Materials Selection and Performance Boundaries. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	2
69	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	5.6	2
68	Homothetic Design in Synchronous Reluctance Machines and Effects on Torque Ripple. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2195-2205	5.4	3
67	Experimental Statistical Method Predicting AC Losses on Random Windings and PWM Effect Evaluation. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2287-2296	5.4	3
66	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	5.4	1

65	4-MW Class High-Power-Density Generator for Future Hybrid-Electric Aircraft. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 2952-2964	7.6	10
64	Modular Power Sharing Control for Bearingless Multi-Three Phase Permanent Magnet Synchronous Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
63	A Modified Multi-Winding DCDC Flyback Converter for Photovoltaic Applications. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11999	2.6	1
62	Induction-Machine-Based Starter/Generator Systems: Techniques, Developments, and Advances. <i>IEEE Industrial Electronics Magazine</i> , 2020 , 14, 4-19	6.2	11
61	High-Speed Electric Drives: A Step Towards System Design. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020 , 1, 10-21	3.6	8
60	Rectangular and Random Conductors: AC Losses Evaluations and Manufacturing Considerations 2020 ,		8
59	Characteristic analysis and direct measurement for air gap magnetic field of external rotor permanent magnet synchronous motors in electric vehicles. <i>IET Electric Power Applications</i> , 2020 , 14, 1784-1794	1.8	0
58	Eccentric position diagnosis of static eccentricity fault of external rotor permanent magnet synchronous motor as an in-wheel motor. <i>IET Electric Power Applications</i> , 2020 , 14, 2263-2272	1.8	4
57	Control-Winding Direct Power Control Strategy for Five-Phase Dual-Stator Winding Induction Generator DC Generating System. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 73-82	7.6	5
56	Advantages of a Double Three-Phase Winding Layout for a Dual Rotor E-Bike Motor Considering Third Current Harmonic Injection Technique 2020 ,		1
55	A Multiport Power Conversion System for the More Electric Aircraft. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1707-1720	7.6	17
54	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 1-1	8.9	4
53	Influence of Rotor Design on Electromagnetic Performance in Interior Permanent Magnet Machines 2020 ,		1
52	Multi-Sector Windings For Bearing Relief E-Machine: Saturation and Cross Coupling Effects 2020 ,		1
51	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2553-2563	8.9	18
50	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2630-2641	8.9	30
49	Improved Finite-State Model Predictive Current Control With Zero-Sequence Current Suppression for OEW-SPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4996-5006	7.2	20
48	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2607-2617	8.9	11

47	Optimized Sizing of IPM Machines for Automotive Traction Application 2019 ,		3
46	Study of Regenerative Braking Effects in a Small Electric Race Car using Energetic Macroscopic Representation 2019 ,		1
45	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3544-3554	4.3	32
44	A Complete Equivalent Circuit Model for Linear Induction Motor Considering Thrust, Vertical and Transversal Forces 2019 ,		2
43	Post -Fault Compensation Control Strategy for Multi-Three-Phase PMSM under Open-Circuit and Short-Circuit Condition 2019 ,		1
42	Fault-Tolerant Electrical Machines for Transport Applications 2019 ,		1
41	Sound-quality diagnosis method of permanent magnet synchronous motor for electric vehicles based on critical band analysis. <i>IET Electric Power Applications</i> , 2019 , 13, 1613-1621	1.8	0
40	A Resolver-to-Digital Conversion Method Based on Third-Order Rational Fraction Polynomial Approximation for PMSM Control. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6383-6392	8.9	15
39	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5600-5610	8.9	14
38	Considerations on the Effects That Core Material Machining Has on an Electrical Machine's Performance. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 1154-1163	5.4	30
37	Design and Losses Analysis of a High Power Density Machine for Flooded Pump Applications. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3260-3270	4.3	36
36	Synchronous Reluctance Motor Iron Losses: Considering Machine Nonlinearity at MTPA, FW, and MTPV Operating Conditions. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 1402-1410	5.4	17
35	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5760-5771	4.3	1
34	Multi-Port Power Conversion Systems for the More Electric Aircraft 2018 ,		4
33	Investigation of AC Copper and Iron Losses in High-Speed High-Power Density PMSM 2018 ,		12
32	2018 ,		4
31	2018 ,		1
30	The Influence of Stator Material on the Power Density and Iron Loss of a High-Performace Starter-Generator for More Electric Aircraft 2018 ,		8

29	Design of PMSM for EMA Employed in Secondary Flight Control Systems 2018,		7
28	Synchronous Reluctance Motor Iron Losses: Analytical Model and Optimization 2018,		3
27	Response to Discussion of A Modular Speed-Drooped System for High Reliability Integrated Modular Motor Drives□ <i>IEEE Transactions on Industry Applications, 2018, 54, 4994-4995</i>	4.3	1
26	Influence of rotor endcaps on the electromagnetic performance of high-speed PM machine. <i>IET Electric Power Applications, 2018, 12, 1142-1149</i>	1.8	14
25	Comparative study of permanent magnet-synchronous and permanent magnet-flux switching machines for high torque to inertia applications 2017,		18
24	2017,		3
23	Improved Damper Cage Design for Salient-Pole Synchronous Generators. <i>IEEE Transactions on Industrial Electronics, 2017, 64, 1958-1970</i>	8.9	28
22	The impact of impulsive voltage waveforms on the electrical insulation of actuators for more electrical aircraft (MEA) 2017,		7
21	2016,		6
20	Global design optimization strategy of a synchronous reluctance machine for light electric vehicles 2016,		11
19	2016,		7
18	Design and optimization of a high power density machine for flooded industrial pump 2016,		11
17	Thermal management of a permanent magnet motor for an directly coupled pump 2016,		13
16	Comparison of flux observers for sensorless control of permanent magnet assisted SynRel motors 2016,		1
15	Trade-off analysis and design of a high power density PM machine for flooded industrial pump 2016,		10
14	Selection Criteria and Robust Optimization of a Traction PM-Assisted Synchronous Reluctance Motor. <i>IEEE Transactions on Industry Applications, 2015, 51, 4383-4391</i>	4.3	29
13	Sensitivity Analysis of Torque Ripple Reduction of Synchronous Reluctance and Interior PM Motors. <i>IEEE Transactions on Industry Applications, 2015, 51, 187-195</i>	4.3	81
12	End barrier shape optimizations and sensitivity analysis of synchrnous reluctance machines 2015,		8

11	Robust optimization of a traction PMASR motor according to given driving cycles 2014,	10
10	Analytical modeling of split-phase synchronous reluctance machines 2014,	5
9	PM synchronous machine comparison for light electric vehicles 2014,	7
8	On the analytical estimation of the airgap field in synchronous reluctance machine 2014,	6
7	High frequency modelling method of EMI filters for hybrid Si - SiC matrix converters in aerospace applications 2013,	3
6	Permanent magnet volume minimization in permanent magnet assisted synchronous reluctance motors 2013,	12
5	Formula SAE electric competition: Electrical motor design 2013,	7
4	Sensitivity analysis of torque ripple reduction of synchronous reluctance and interior PM motors 2013,	15
3	On the use of dimensioning equations for surface permanent magnet machines 2012,	1
2	Analytical calculation of air-gap armature reaction field including slotting effects in fractional-slot concentrated-coil SPM multiphase machines 2011,	8
1	Improved dead beat control of a shunt active filter for aircraft power systems 2010,	13