

Paolo Giangrande

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.

66

papers

1,109

citations

17

h-index

31

g-index

83

ext. papers

1,648

ext. citations

4.9

avg, IF

5.2

L-index

#	Paper	IF	Citations
66	A contribution to thermal ageing assessment of Glass fibre insulated wire based on partial discharges activity. <i>IEEE Access</i> , 2022 , 1-1	3.5	0
65	Partial discharge investigation under humidity conditions via dissipation factor and insulation capacitance tip-up test. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022 , 1-1	2.3	0
64	DC Current Control for a Single-Stage Current Source Inverter in Motor Drive Application. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3367-3376	7.2	11
63	Electrical Machines for the More Electric Aircraft: Partial Discharges Investigation. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 1389-1398	4.3	12
62	A Consequent-Pole Hybrid Exciter for Synchronous Generators. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 368-379	5.4	5
61	Enhanced Performance of Dual Inverter With a Floating Capacitor for Motor Drive Applications. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 6903-6916	7.2	7
60	Fast and Accurate 2D Analytical Subdomain Method for Coaxial Magnetic Coupling Analysis. <i>Energies</i> , 2021 , 14, 4656	3.1	3
59	Reliability-Oriented Design of Inverter-Fed Low-Voltage Electrical Machines: Potential Solutions. <i>Energies</i> , 2021 , 14, 4144	3.1	1
58	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2919-2930	8.9	11
57	Influence of Insulation Thermal Aging on the Temperature Assessment in Electrical Machines. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 456-467	5.4	4
56	Lifetime Estimation of Enameled Wires Under Accelerated Thermal Aging Using Curve Fitting Methods. <i>IEEE Access</i> , 2021 , 9, 18993-19003	3.5	2
55	Failure Modes and Reliability Oriented System Design for Aerospace Power Electronic Converters. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2021 , 2, 53-64	3.6	9
54	Technical Review of Dual Inverter Topologies for More Electric Aircraft Applications. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	8
53	Energy Storage System Selection for Optimal Fuel Consumption of Aircraft Hybrid Electric Taxiing Systems. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 1870-1887	7.6	3
52	System-Level Reliability Assessment of Short Duty Electric Drives for Aerospace. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 1888-1900	7.6	3
51	Moving Toward a Reliability-Oriented Design Approach of Low-Voltage Electrical Machines by Including Insulation Thermal Aging Considerations. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 16-27	7.6	19
50	Reliability-Oriented Design of Electrical Machines: The Design Process for Machines/Insulation Systems MUST Evolve. <i>IEEE Industrial Electronics Magazine</i> , 2020 , 14, 20-28	6.2	18

49	The Role of Neural Networks in Predicting the Thermal Life of Electrical Machines. <i>IEEE Access</i> , 2020 , 8, 40283-40297	3.5	8
48	Novel Parameter Identification Method for Lithium-Ion Batteries Based on Curve Fitting 2020 ,		1
47	3D Printing as a Technology Enabler for Electrical Machines: Manufacturing and Testing of a Salient Pole Rotor for SRM 2020 ,		3
46	A Time-Saving Approach for the Thermal Lifetime Evaluation of Low-Voltage Electrical Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9195-9205	8.9	11
45	Highly Ordered BN?BN? Stacking Structure for Improved Thermally Conductive Polymer Composites. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000627	6.4	7
44	Evolutionary Multiobjective Optimization of a System-Level Motor Drive Design. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 6904-6913	4.3	2
43	Feasibility Design Study of High-Performance, High-Power-Density Propulsion Motor for Middle-Range Electric Aircraft 2020 ,		2
42	Additive Manufacturing and Testing of a Soft Magnetic Rotor for a Switched Reluctance Motor. <i>IEEE Access</i> , 2020 , 8, 206982-206991	3.5	7
41	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2618-2629	8.9	35
40	On the Design of Partial Discharge-Free Low Voltage Electrical Machines 2019 ,		15
39	Introducing Physics of Failure Considerations in the Electrical Machines Design 2019 ,		8
38	Hybrid Magnet - Field Winding Solutions for Exciters of Synchronous Generators 2019 ,		2
37	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3544-3554	4.3	32
36	Thermal analysis of fault-tolerant electrical machines for aerospace actuators. <i>IET Electric Power Applications</i> , 2019 , 13, 843-852	1.8	14
35	Voltage Utilization Enhancement of Dual Inverters by Model Predictive Control for Motor Drive Applications 2019 ,		4
34	An Active Modulation Scheme for Avoiding Overcharging in the Dual Converter with Isolated Asymmetric Supplies 2019 ,		2
33	An Enhanced Unified Space Vector Modulation Technique for Dual Converters with Isolated Voltage Supplies 2019 ,		2
32	Insulation Capacitance as Diagnostic Marker for Thermally Aged, Low Voltage Electrical Machines 2019 ,		3

31	Analysis of Energy Storage System Requirements for Aircraft Electric Taxiing Operations 2019 ,		3
30	Modelling and Analysis of an Aircraft On-board Electric Taxiing System 2019 ,		1
29	Evaluation of strand-to-strand capacitance and dissipation factor in thermally aged enamelled coils for low-voltage electrical machines. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 1170-1177	1.5	10
28	Fast and Accurate Multi-Physics Model for Optimization-based Design of VSBBC 2019 ,		1
27	Reliability vs. Performances of Electrical Machines: Partial Discharges Issue 2019 ,		7
26	Review, Challenges, and Future Developments of Electric Taxiing Systems. <i>IEEE Transactions on Transportation Electrification</i> , 2019 , 5, 1441-1457	7.6	33
25	The Rebirth of the Current Source Inverter: Advantages for Aerospace Motor Design. <i>IEEE Industrial Electronics Magazine</i> , 2019 , 13, 65-76	6.2	28
24	System-Level Motor Drive Modelling for Optimization-based Designs 2019 ,		3
23	Fast and Accurate Model for Optimization-based Design of Fractional-Slot Surface PM Machines 2019 ,		3
22	On the Thermal Insulation Qualification of Low Voltage Electrical Machines 2019 ,		2
21	Improved Thermal Management and Analysis for Stator End-Windings of Electrical Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5057-5069	8.9	69
20	An Active Modulation Scheme to Boost Voltage Utilization of the Dual Converter With a Floating Bridge. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5623-5633	8.9	32
19	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
18	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
17	Thermal analysis of fault-tolerant electrical machines for more electric aircraft applications. <i>Journal of Engineering</i> , 2018 , 2018, 461-467	0.7	9
16	Impact of thermal overload on the insulation aging in short duty cycle motors for aerospace 2018 ,		12
15	Investigation of AC Copper and Iron Losses in High-Speed High-Power Density PMSM 2018 ,		12
14	Design of Fault-Tolerant Dual Three-Phase Winding PMSM for Helicopter Landing Gear EMA 2018 ,		14

13	On the Effects of Advanced End-Winding Cooling on the Design and Performance of Electrical Machines 2018 ,		19
12	Influence of rotor endcaps on the electromagnetic performance of high-speed PM machine. <i>IET Electric Power Applications</i> , 2018 , 12, 1142-1149	1.8	14
11	Electrical Power Generation in Aircraft: Review, Challenges, and Opportunities. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 646-659	7.6	205
10	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6116-6126	8.9	95
9	Integrated motor drive design for weight optimization 2017 ,		2
8	An effective hybrid space vector PWM technique to improved inverter performance 2017 ,		5
7	Modelling short- and open-circuit faults in permanent magnet synchronous machines using Modelica. <i>Journal of Engineering</i> , 2016 , 2016, 73-79	0.7	3
6	More Electric Aircraft Electro-Mechanical Actuator Regenerated Power Management 2015 ,		19
5	Self-Commissioning of Interior Permanent- Magnet Synchronous Motor Drives With High-Frequency Current Injection. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3295-3303	4.3	48
4	Development of a Modelica Library for Electro-Mechanical Actuator System Studies including Fault Scenarios and Losses 2014 ,		1
3	Sensorless Position Control of Permanent-Magnet Motors With Pulsating Current Injection and Compensation of Motor End Effects. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1371-1379	4.3	39
2	End Effects in Linear Tubular Motors and Compensated Position Sensorless Control Based on Pulsating Voltage Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 494-502	8.9	74
1	Sensorless Control of Linear Tubular Permanent Magnet Synchronous Motors Using Pulsating Signal Injection 2008 ,		3