

Antonino Oscar Di Tommaso

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.

86

papers

951

citations

16

h-index

25

g-index

101

ext. papers

1,346

ext. citations

3.8

avg, IF

4.23

L-index

#	Paper	IF	Citations
86	Modelling, Simulation and Characterization of a Supercapacitor in Automotive Applications. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	2
85	Switching Frequency Effects on the Efficiency and Harmonic Distortion in a Three-Phase Five-Level CHBMI Prototype with Multicarrier PWM Schemes: Experimental Analysis. <i>Energies</i> , 2022 , 15, 586	3.1	3
84	Impact Evaluation of Innovative Selective Harmonic Mitigation Algorithm for Cascaded H-Bridge Inverter on IPMSM Drive Application. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 1-1	4.7	1
83	Simple and Flexible Power Loss Minimizer With Low-Cost MCU Implementation for High-Efficiency Three-Phase Induction Motor Drives. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 1472-1481	4.3	3
82	Uncertainty evaluation in the differential measurements of power losses in a power drive system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 183, 109795	4.6	0
81	A General Investigation on the Differential Leakage Factor for Symmetrical and Asymmetrical Multiphase Winding Design. <i>Energies</i> , 2020 , 13, 5414	3.1	1
80	Enhanced Flexible Algorithm for the Optimization of Slot Filling Factors in Electrical Machines. <i>Energies</i> , 2020 , 13, 1041	3.1	3
79	FOC with Resolver Implementation for PMSM Drives by Using a Low Cost Atmel SAM3X8E Microcontroller 2020 ,		2
78	Experimental Characterization Of a Double Receiver Dynamic Wireless Charging System 2020 ,		1
77	A General and Accurate Measurement Procedure for the Detection of Power Losses Variations in Permanent Magnet Synchronous Motor Drives. <i>Energies</i> , 2020 , 13, 5770	3.1	4
76	Modelling, Simulation and Characterization of a Supercapacitor in Automotive Applications 2020 ,		1
75	Experimental Validation of a Novel Method for Harmonic Mitigation for a Three-Phase Five-Level Cascaded H-Bridges Inverter. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 6089-6101	4.3	14
74	Differential Leakage Factor in Electrical Machines Equipped with Asymmetrical Multiphase Windings: a General Investigation 2019 ,		1
73	Experimental Comparison of Efficiency Enhancement Algorithms for Three-Phase Induction Motors 2019 ,		2
72	The use of slightly asymmetrical windings for rotating electrical machines. <i>International Transactions on Electrical Energy Systems</i> , 2018 , 28, e2569	2.2	10
71	A General Mathematical Formulation for the Determination of Differential Leakage Factors in Electrical Machines With Symmetrical and Asymmetrical Full or Dead-Coil Multiphase Windings. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5930-5940	4.3	8
70	A General Mathematical Formulation for Winding Layout Arrangement of Electrical Machines. <i>Energies</i> , 2018 , 11, 446	3.1	20

69	Batteries for Aerospace: a Brief Review 2018 ,	8
68	Algorithmic Approach for Slot Filling Factors Determination in Electrical Machines 2018 ,	3
67	Characterization of the parameters of interior permanent magnet synchronous motors for a loss model algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 106, 196-202	23
66	Design issues for wind farms grid tied Inverter 2017 ,	1
65	Finite-element performance comparison of IPMSMs with unsymmetrical double-layer windings 2017 ,	3
64	Fast procedure for the calculation of maximum slot filling factors in electrical machines 2017 ,	5
63	Determination of differential leakage factors in electrical machines with non-symmetrical full and dead-coil windings 2017 ,	1
62	Maximum Torque Per Ampere control algorithm for low saliency ratio interior permanent magnet synchronous motors 2017 ,	4
61	Cogging torque comparison of Interior Permanent Magnet Synchronous Generators with different stator windings 2017 ,	2
60	Current fault signatures of Voltage Source Inverters in different reference frames 2016 ,	1
59	A cogging torque minimization procedure for IPMSMs based on different laminate geometry 2016 ,	3
58	Economic evaluation of PV system for EV charging stations: Comparison between matching maximum orientation and storage system employment 2016 ,	4
57	Energy management of multi-carrier smart buildings for integrating local renewable energy systems 2016 ,	4
56	Interior permanent magnet synchronous motors: Impact of the variability of the parameters on their efficiency 2016 ,	8
55	Experimental analysis with FPGA controller-based of MC PWM techniques for three-phase five level cascaded H-bridge for PV applications 2016 ,	17
54	Experimental characterization of a wind generator prototype for sustainable small wind farms 2016 ,	2
53	An inductive charger for automotive applications 2016 ,	9
52	A DSP-Based Resolver-To-Digital Converter for High-Performance Electrical Drive Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4042-4051	8.9 43

51	An Exact Method for the Determination of Differential Leakage Factors in Electrical Machines With Non-Symmetrical Windings. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-9	2	13
50	Efficiency optimization in bi-directional inductive power transfer systems 2015 ,		11
49	Analysis, characterization and minimization of IPMSMs cogging torque with different rotor structures 2015 ,		9
48	A novel improved matlab-based software for the electric and magnetic analysis and design of rotating electrical machines 2015 ,		2
47	A review of multiple faults diagnosis methods in Voltage Source Inverters 2015 ,		2
46	A New Software Tool for Design, Optimization, and Complete Analysis of Rotating Electrical Machines Windings. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-10	2	30
45	A reexamination of voltage distortion for classical carrier-based vs B-Spline modulation of three-phase Voltage Sources Inverters 2015 ,		2
44	Design and experimental characterization of a low-cost, real-time, wireless AC monitoring system based on ATmega 328P-PU microcontroller 2015 ,		15
43	Experimental study on efficiency enhancement in Interior Permanent Magnet Synchronous machines 2015 ,		8
42	Investigation of inductive coupling solutions for E-bike wireless charging 2015 ,		16
41	Comprehensive Modeling and Experimental Testing of Fault Detection and Management of a Nonredundant Fault-Tolerant VSI. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 1-1	8.9	46
40	An IPMSM torque/weight and torque/moment of inertia ratio optimization 2014 ,		16
39	Experimental test on a Contactless Power Transfer system 2014 ,		12
38	A modular approach in teaching thyristor rectifiers with equation-oriented softwares 2014 ,		1
37	Speed control of a two-degrees of freedom induction motor with rotor Helical Motion for industrial applications 2014 ,		5
36	Experimental investigation on high efficiency real-time control algorithms for IPMSMs 2014 ,		26
35	Control subsystem design for wireless power transfer 2014 ,		4
34	Assisted software design of a wide variety of windings in rotating electrical machinery 2014 ,		4

33	Vibration signature analysis for monitoring rotor broken bar in double squirrel cage induction motors based on wavelet analysis. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2014 , 33, 1625-1641	0.7	11
32	Vibration signature analysis for rotor broken bar diagnosis in double cage induction motor drives 2013 ,		14
31	E-bike battery charging: Methods and circuits 2013 ,		15
30	A software for the evaluation of winding factor harmonic distribution in high efficiency electrical motors and generators 2013 ,		15
29	Closed-loop bandwidth impact on MVSA for rotor broken bar diagnosis in IRFOC double squirrel cage induction motor drives 2013 ,		8
28	Quantitative rotor broken bar evaluation in double squirrel cage induction machines under dynamic operating conditions 2013 ,		1
27	Diagnosis of mechanical unbalance for double cage induction motor load in time-varying conditions based on motor vibration signature analysis 2013 ,		5
26	Inductive Power Transfer for 100W battery charging 2013 ,		12
25	Wireless battery charging: E-bike application 2013 ,		16
24	Fault Tolerant Ancillary Function of Power Converters in Distributed Generation Power System within a Microgrid Structure. <i>Advances in Power Electronics</i> , 2013 , 2013, 1-12		5
23	Sensorless variable speed single-phase induction motor drive system based on direct rotor flux orientation 2012 ,		14
22	Analytical Investigation and Control System Set-up of Medium Scale PV Plants for Power Flow Management. <i>Energies</i> , 2012 , 5, 4399-4416	3.1	17
21	A geometrical simple approach for power silicon devices fault detection and fault-tolerant operation of a voltage source inverter 2012 ,		10
20	Investigation of motor current signature and vibration analysis for diagnosing rotor broken bars in double cage induction motors 2012 ,		26
19	A small power transmission prototype for electric vehicle wireless battery charge applications 2012 ,		12
18	Sensorless variable speed single-phase induction motor drive system 2012 ,		8
17	Computer aided optimization via simulation tools of energy generation systems with universal small wind turbines 2012 ,		20
16	Experimental validation of a general model for three phase inverters operating in healthy and faulty modes 2012 ,		4

15	A Rotor Flux and Speed Observer for Sensorless Single-Phase Induction Motor Applications. <i>International Journal of Rotating Machinery</i> , 2012 , 2012, 1-13	1.3	18
14	Monitoring and diagnosis of failures in squirrel-cage induction motors due to cracked or broken bars 2011 ,		5
13	A flux and speed observer for sensorless SPIM applications 2010 ,		8
12	Development of diagnostic systems for the fault tolerant operation of Micro-Grids. 2010 ,		13
11	Improvement of IPMSM performance through a mixed radial-tangential rotor structure 2010 ,		5
10	Active power maximizing for Wind Electrical Energy Generating Systems moved by a Modular Multiple Blade Fixed Pitch Wind Turbine 2008 ,		18
9	Wind Electrical energy generating systems EMC. A dedicated experimental simulator for tests 2008 ,		1
8	Efficiency Maximization of Permanent Magnet Synchronous Generators Coupled to Wind Turbines 2007 ,		25
7	Optimum Performance of Permanent Magnet Synchronous Generators Coupled to Wind Turbines. <i>IEEE Power Engineering Society General Meeting</i> , 2007 ,		6
6	Efficiency Control for Permanent Magnet Synchronous Generators 2006 ,		8
5	Test Bench Realization and Application of Specific Working Cycles for the Characterization of Wheelchair Electrical Drives 2006 ,		5
4	Efficiency enhancement of permanent-magnet synchronous motor drives by online loss minimization approaches. <i>IEEE Transactions on Industrial Electronics</i> , 2005 , 52, 1153-1160	8.9	153
3	Sensorless control of permanent magnet synchronous motors for wide speed range applications		2
2	A new high accuracy software based resolver-to-digital converter		16
1	Analysis a DSP implementation and experimental validation of a loss minimization algorithm applied to permanent magnet synchronous motor drives		11