

Antonino Oscar Di Tommaso

List of Publications by Citations

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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 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | Experimental investigation on high efficiency real-time control algorithms for IPMSMs 2014 , | | 26 |
| 81 | Investigation of motor current signature and vibration analysis for diagnosing rotor broken bars in double cage induction motors 2012 , | | 26 |
| 80 | Efficiency Maximization of Permanent Magnet Synchronous Generators Coupled to Wind Turbines 2007 , | | 25 |
| 79 | 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 | 4.6 | 23 |
| 78 | A General Mathematical Formulation for Winding Layout Arrangement of Electrical Machines. <i>Energies</i> , 2018 , 11, 446 | 3.1 | 20 |
| 77 | Computer aided optimization via simulation tools of energy generation systems with universal small wind turbines 2012 , | | 20 |
| 76 | 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 |
| 75 | Active power maximizing for Wind Electrical Energy Generating Systems moved by a Modular Multiple Blade Fixed Pitch Wind Turbine 2008 , | | 18 |
| 74 | 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 |
| 73 | Experimental analysis with FPGA controller-based of MC PWM techniques for three-phase five level cascaded H-bridge for PV applications 2016 , | | 17 |
| 72 | An IPMSM torque/weight and torque/moment of inertia ratio optimization 2014 , | | 16 |
| 71 | Investigation of inductive coupling solutions for E-bike wireless charging 2015 , | | 16 |
| 70 | Wireless battery charging: E-bike application 2013 , | | 16 |

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| 69 | A new high accuracy software based resolver-to-digital converter | | 16 |
| 68 | E-bike battery charging: Methods and circuits 2013 , | | 15 |
| 67 | A software for the evaluation of winding factor harmonic distribution in high efficiency electrical motors and generators 2013 , | | 15 |
| 66 | Design and experimental characterization of a low-cost, real-time, wireless AC monitoring system based on ATmega 328P-PU microcontroller 2015 , | | 15 |
| 65 | 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 |
| 64 | Vibration signature analysis for rotor broken bar diagnosis in double cage induction motor drives 2013 , | | 14 |
| 63 | Sensorless variable speed single-phase induction motor drive system based on direct rotor flux orientation 2012 , | | 14 |
| 62 | Development of diagnostic systems for the fault tolerant operation of Micro-Grids. 2010 , | | 13 |
| 61 | 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 |
| 60 | Experimental test on a Contactless Power Transfer system 2014 , | | 12 |
| 59 | Inductive Power Transfer for 100W battery charging 2013 , | | 12 |
| 58 | A small power transmission prototype for electric vehicle wireless battery charge applications 2012 , | | 12 |
| 57 | Efficiency optimization in bi-directional inductive power transfer systems 2015 , | | 11 |
| 56 | 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 |
| 55 | Analysis a DSP implementation and experimental validation of a loss minimization algorithm applied to permanent magnet synchronous motor drives | | 11 |
| 54 | The use of slightly asymmetrical windings for rotating electrical machines. <i>International Transactions on Electrical Energy Systems</i> , 2018 , 28, e2569 | 2.2 | 10 |
| 53 | A geometrical simple approach for power silicon devices fault detection and fault-tolerant operation of a voltage source inverter 2012 , | | 10 |
| 52 | Analysis, characterization and minimization of IPMSMs cogging torque with different rotor structures 2015 , | | 9 |

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| 51 | An inductive charger for automotive applications 2016 , | | 9 |
| 50 | 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 |
| 49 | Closed-loop bandwidth impact on MVSA for rotor broken bar diagnosis in IRFOC double squirrel cage induction motor drives 2013 , | | 8 |
| 48 | Experimental study on efficiency enhancement in Interior Permanent Magnet Synchronous machines 2015 , | | 8 |
| 47 | Sensorless variable speed single-phase induction motor drive system 2012 , | | 8 |
| 46 | A flux and speed observer for sensorless SPIM applications 2010 , | | 8 |
| 45 | Efficiency Control for Permanent Magnet Synchronous Generators 2006 , | | 8 |
| 44 | Interior permanent magnet synchronous motors: Impact of the variability of the parameters on their efficiency 2016 , | | 8 |
| 43 | Batteries for Aerospace: a Brief Review 2018 , | | 8 |
| 42 | Optimum Performance of Permanent Magnet Synchronous Generators Coupled to Wind Turbines. <i>IEEE Power Engineering Society General Meeting</i> , 2007 , | | 6 |
| 41 | Diagnosis of mechanical unbalance for double cage induction motor load in time-varying conditions based on motor vibration signature analysis 2013 , | | 5 |
| 40 | Fast procedure for the calculation of maximum slot filling factors in electrical machines 2017 , | | 5 |
| 39 | Speed control of a two-degrees of freedom induction motor with rotor Helical Motion for industrial applications 2014 , | | 5 |
| 38 | 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 |
| 37 | Monitoring and diagnosis of failures in squirrel-cage induction motors due to cracked or broken bars 2011 , | | 5 |
| 36 | Improvement of IPMSM performance through a mixed radial-tangential rotor structure 2010 , | | 5 |
| 35 | Test Bench Realization and Application of Specific Working Cycles for the Characterization of Wheelchair Electrical Drives 2006 , | | 5 |
| 34 | Maximum Torque Per Ampere control algorithm for low saliency ratio interior permanent magnet synchronous motors 2017 , | | 4 |

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| 33 | Control subsystem design for wireless power transfer 2014 , | | 4 |
| 32 | Assisted software design of a wide variety of windings in rotating electrical machinery 2014 , | | 4 |
| 31 | Experimental validation of a general model for three phase inverters operating in healthy and faulty modes 2012 , | | 4 |
| 30 | 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 |
| 29 | Economic evaluation of PV system for EV charging stations: Comparison between matching maximum orientation and storage system employment 2016 , | | 4 |
| 28 | Energy management of multi-carrier smart buildings for integrating local renewable energy systems 2016 , | | 4 |
| 27 | Enhanced Flexible Algorithm for the Optimization of Slot Filling Factors in Electrical Machines. <i>Energies</i> , 2020 , 13, 1041 | 3.1 | 3 |
| 26 | A cogging torque minimization procedure for IPMSMs based on different laminate geometry 2016 , | | 3 |
| 25 | Finite-element performance comparison of IPMSMs with unsymmetrical double-layer windings 2017 , | | 3 |
| 24 | Switching Frequency Effects on the Efficiency and Harmonic Distortion in a Three-Phase Five-Level CHBML Prototype with Multicarrier PWM Schemes: Experimental Analysis. <i>Energies</i> , 2022 , 15, 586 | 3.1 | 3 |
| 23 | 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 |
| 22 | Algorithmic Approach for Slot Filling Factors Determination in Electrical Machines 2018 , | | 3 |
| 21 | Experimental Comparison of Efficiency Enhancement Algorithms for Three-Phase Induction Motors 2019 , | | 2 |
| 20 | A novel improved matlab-based software for the electric and magnetic analysis and design of rotating electrical machines 2015 , | | 2 |
| 19 | Cogging torque comparison of Interior Permanent Magnet Synchronous Generators with different stator windings 2017 , | | 2 |
| 18 | A review of multiple faults diagnosis methods in Voltage Source Inverters 2015 , | | 2 |
| 17 | A reexamination of voltage distortion for classical carrier-based vs B-Spline modulation of three-phase Voltage Sources Inverters 2015 , | | 2 |
| 16 | Sensorless control of permanent magnet synchronous motors for wide speed range applications | | 2 |

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| 15 | Modelling, Simulation and Characterization of a Supercapacitor in Automotive Applications. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1 | 4-3 | 2 |
| 14 | FOC with Resolver Implementation for PMSM Drives by Using a Low Cost Atmel SAM3X8E Microcontroller 2020 , | | 2 |
| 13 | Experimental characterization of a wind generator prototype for sustainable small wind farms 2016 , | | 2 |
| 12 | Design issues for wind farms grid tied Inverter 2017 , | | 1 |
| 11 | Differential Leakage Factor in Electrical Machines Equipped with Asymmetrical Multiphase Windings: a General Investigation 2019 , | | 1 |
| 10 | A General Investigation on the Differential Leakage Factor for Symmetrical and Asymmetrical Multiphase Winding Design. <i>Energies</i> , 2020 , 13, 5414 | 3-1 | 1 |
| 9 | Current fault signatures of Voltage Source Inverters in different reference frames 2016 , | | 1 |
| 8 | Quantitative rotor broken bar evaluation in double squirrel cage induction machines under dynamic operating conditions 2013 , | | 1 |
| 7 | Determination of differential leakage factors in electrical machines with non-symmetrical full and dead-coil windings 2017 , | | 1 |
| 6 | A modular approach in teaching thyristor rectifiers with equation-oriented softwares 2014 , | | 1 |
| 5 | Wind Electrical energy generating systems EMC. A dedicated experimental simulator for tests 2008 , | | 1 |
| 4 | 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 |
| 3 | Experimental Characterization Of a Double Receiver Dynamic Wireless Charging System 2020 , | | 1 |
| 2 | Modelling, Simulation and Characterization of a Supercapacitor in Automotive Applications 2020 , | | 1 |
| 1 | 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 |