Andrea Toscani

List of Publications by Year
in descending order

35 papers	284 citations	1307366 7 h-index	996849 15 g-index
35 all docs	35 docs citations	35 times ranked	254 citing authors

#	Article	IF	Citations
1	Mixed-Mode PWM for High-Performance Stepping Motors. IEEE Transactions on Industrial Electronics, 2007, 54, 3167-3177.	5.2	50
2	Vibrations, currents and stray flux signals to asses induction motors rotor conditions. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	39
3	Thorough Understanding and Experimental Validation of Current Sideband Components in Induction Machines Rotor Monitoring. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	33
4	Partial Discharges in Electrical Machines for the More Electric Aircraftâ€"Part I: A Comprehensive Modeling Tool for the Characterization of Electric Drives Based on Fast Switching Semiconductors. IEEE Access, 2021, 9, 27109-27121.	2.6	24
5	Validation of a Faulted Rotor Induction Machine Model With an Insightful Geometrical Interpretation of Physical Quantities. IEEE Transactions on Industrial Electronics, 2013, 60, 4074-4083.	5.2	22
6	Assessment of Efficiency and Reliability of Wide Band-Gap Based H8 Inverter in Electric Vehicle Applications. Energies, 2019, 12, 1922.	1.6	17
7	Assessment of induction machines rotor fault severity by different approaches. , 2005, , .		12
8	Current-Controlled Shape Memory Alloy Actuators for Automotive Tumble Flap. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	9
9	A method to extract lumped thermal networks of capacitors for reliability oriented design. Microelectronics Reliability, 2020, 114, 113737.	0.9	8
10	A simple and accurate algorithm for speed measurement in electric drives using incremental encoder. , 2017, , .		7
11	H8 architecture for reduced common-mode voltage three-phase PV converters with silicon and SiC power switches. , 2017, , .		6
12	Transducer Arrays Over AÂ²B Networks in Industrial and Automotive Applications: Clock Propagation Measurements. IEEE Access, 2021, 9, 118232-118241.	2.6	6
13	An Innovative Architecture of Full-Digital Microphone Arrays Over AÂ²B Network for Consumer Electronics. IEEE Transactions on Consumer Electronics, 2022, 68, 200-208.	3.0	6
14	A new method to discern mechanical unbalances from rotor faults in induction machines. , 2010, , .		5
15	Experimental validation of a robust diagnostic index for induction motors stator faults. , 0, , .		4
16	Severity Assessment of Rotor Faults in Closed Loop Induction Drives by Different Approaches. , 2007, , .		4
17	Vibrationless alignment algorithm for incremental encoder based BLDC drives. Electric Power Systems Research, 2013, 95, 225-231.	2.1	4
18	Comprehensive Control System for Parallelable 60 Hz-2MVA Harbor AC/AC Converters. IEEE Transactions on Industrial Informatics, 2018, 14, 2432-2441.	7.2	4

#	Article	IF	Citations
19	PV Modules Interfacing Isolated Triple Active Bridge for Nanogrid Applications. Energies, 2021, 14, 2854.	1.6	4
20	Mixed mode PWM for high performance stepping motors. , 0, , .		2
21	Design and Optimization of a Hybrid-Electric Vehicle for Advanced Urban Mobility. , 2008, , .		2
22	Development of synchronized control for multiple 2 MVA AC/AC converters. , 2012, , .		2
23	Fault tolerant digital control of 2 MVA parallelable frequency converters for harbor applications. , 2012, , .		2
24	Improved control strategy for modular 2MVA AC/AC power converter. , 2013, , .		2
25	Induction Machines with Rotor Faults: Analysis of the Physical Quantities for Different Operating Conditions and Machine Sizes for Improved Diagnostics. , 2018, , .		2
26	High dynamic control of a stepper motor for textile applications. , 2007, , .		1
27	Low-cost sensorless BLDC for organic fluids treatment in sterile environments. , 2008, , .		1
28	Vibrationless alignment algorithm for incremental encoder based BLDC drives. , 2009, , .		1
29	A geometrical interpretation of current space vector components due to induction machines rotor faults. , 2011, , .		1
30	Comparison of flux observers for sensorless control of permanent magnet assisted SynRel motors. , 2016, , .		1
31	Design and Control of High-Density High-Voltage Smart Converter for Food Ohmic Heating. IEEE Transactions on Industry Applications, 2019, 55, 7712-7725.	3.3	1
32	Fault tolerant PWM generation with double-redundant logic. , 2014, , .		1
33	Fault tolerant PWM generation with double-redundant logic. WIT Transactions on Engineering Sciences, 2014, , .	0.0	1
34	Hybrid-Electric Vehicles for advanced urban mobility: a New Proposal. , 2008, , .		0
35	CHARM facility remotely controlled platform at CERN: A new fault-tolerant redundant architecture. Microelectronics Reliability, 2020, 115, 113950.	0.9	0