

Claudio Bruzzese

List of Publications by Year in descending order

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55
papers

1,138
citations

1307594

7
h-index

1588992

8
g-index

55
all docs

55
docs citations

55
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in Fault Diagnosis for Electrical Machines: A Review of Diagnostic Techniques. IEEE Industrial Electronics Magazine, 2014, 8, 31-42.	2.6	468
2	Harmonic Signatures of Static Eccentricities in the Stator Voltages and in the Rotor Current of No-Load Salient-Pole Synchronous Generators. IEEE Transactions on Industrial Electronics, 2011, 58, 1606-1624.	7.9	86
3	Analysis and Application of Particular Current Signatures (Symptoms) for Cage Monitoring in Nonsinusoidally Fed Motors With High Rejection to Drive Load, Inertia, and Frequency Variations. IEEE Transactions on Industrial Electronics, 2008, 55, 4137-4155.	7.9	56
4	Computationally Efficient Thermal Analysis of a Low-Speed High-Thrust Linear Electric Actuator With a Three-Dimensional Thermal Network Approach. IEEE Transactions on Industrial Electronics, 2015, 62, 1410-1420.	7.9	48
5	Diagnosis of Eccentric Rotor in Synchronous Machines by Analysis of Split-Phase Currentsâ€”Part I: Theoretical Analysis. IEEE Transactions on Industrial Electronics, 2014, 61, 4193-4205.	7.9	46
6	Diagnosis of Eccentric Rotor in Synchronous Machines by Analysis of Split-Phase Currentsâ€”Part II: Experimental Analysis. IEEE Transactions on Industrial Electronics, 2014, 61, 4206-4216.	7.9	36
7	A high absolute thrust permanent magnet linear actuator for direct drive of ship's steering gears: Concept and FEM analysis. , 2012, , .		23
8	Static and Dynamic Rotor Eccentricity On-Line Detection and Discrimination in Synchronous Generators By No-Load E.M.F. Space Vector Loci Analysis. , 2008, , .		19
9	Analytical Computation of End-Coil Leakage Inductance of Round-Rotor Synchronous Machines Field Winding. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	19
10	Rotor bars breakage in railway traction squirrel cage induction motors and diagnosis by MCSA technique Part II : Theoretical arrangements for fault-related current sidebands. , 2005, , .		18
11	Magnetic optimization of a fault-tolerant linear permanent magnet modular actuator for shipboard applications. , 2013, , .		17
12	Static eccentricity detection in synchronous generators by field current and stator Voltage Signature Analysis - Part II: Measurements. , 2010, , .		16
13	Synchronous Generator Eccentricities Modeling by Improved MWFA and Fault Signature Evaluation in No-Load E.M.F.s and Current Spectra. , 2008, , .		15
14	Finite reluctance approach: A systematic method for the construction of magnetic network-based dynamic models of electrical machines. , 2014, , .		15
15	Study of faulty scenarios for a fault-tolerant multi-inverter-fed linear permanent magnet motor with coil short-circuit or inverter trip. , 2014, , .		15
16	Study of cardioid-shaped loop current space vector trajectories for rotor eccentricity detection in power synchronous machines. , 2011, , .		14
17	Rotor bars breakage in railway traction squirrel cage induction motors and diagnosis by MCSA technique Part I : Accurate fault simulations and spectral analyses. , 2005, , .		13
18	Static eccentricity detection in synchronous generators by field current and stator Voltage Signature Analysis - Part I: Theory. , 2010, , .		13

#	ARTICLE	IF	CITATIONS
19	New Rotor Fault Indicators for Squirrel Cage Induction Motors. , 2006, , .		11
20	A compact analytical expression for the load torque in Surface Permanent-Magnet machines with slotless stator design. , 2013, , .		11
21	Model-based eccentricity diagnosis for a ship brushless-generator exploiting the Machine Voltage Signature Analysis (MVSA). , 2009, , .		10
22	Project “ISO”: innovative solutions for Italian Navy's onboard full-electric actuators. , 2012, , .		10
23	Evaluation of Classic and Innovative Sideband-Based Broken Bar Indicators by Using an Experimental Cage and a Transformed (n, m) Complex Model. , 2007, , .		9
24	Ship brushless-generator shaft misalignment simulation by using a complete mesh-model for machine voltage signature analysis (MVSA). , 2009, , .		9
25	A virtual instrument for on-line evaluation of alternator's shaft misalignments through ICSVA (internal current space-vector analysis). , 2011, , .		9
26	Field experience with the split-phase current signature analysis (SPCSA): Eccentricity assessment for a stand-alone alternator in time-varying and unbalanced load conditions. , 2013, , .		9
27	A closer look to conventional hydraulic ship actuator systems and the convenience of shifting to (possibly) all-electric drives. , 2013, , .		9
28	Harmonic Current Sideband-Based Novel Indicators of Broken Bars for On-line Evaluation of Industrial and Railway Cage Motor Faults. , 2007, , .		8
29	Direct drive of ship's steering gears through permanent-magnet linear motors featuring high thrust and efficiency. , 2012, , .		8
30	A finite reluctance approach to electrical machine modeling and simulation: Magnetic network-based field solutions in MatLab environment. , 2014, , .		8
31	An innovative environmentally-friendly full-electric drive solution for the actuation of shipboard loads: Analysis based on prototype testing results. , 2014, , .		8
32	Laboratory prototype for induction motor bar breakage experimentation and bar current measuring. , 0, , .		7
33	A novel fault-tolerant high-thrust inverter-controlled permanent magnet linear actuator as a direct-drive for shipboard loads. , 2013, , .		7
34	Analytical modeling of split-phase synchronous reluctance machines. , 2014, , .		7
35	Spectral analyses of directly measured stator and rotor currents for induction motor bar breakages characterization by M.C.S.A.. , 0, , .		5
36	DIEM project's outcomes: An automated air-gap monitoring approach for Italian Navy's on-board low-voltage generators. , 2012, , .		5

#	ARTICLE	IF	CITATIONS
37	2-Pole turbo-generator eccentricity diagnosis by split-phase current signature analysis. , 2013, , .		5
38	Validation of sequence circuits useful for split-phase current signature analysis (SPCSA) and diagnosis of eccentric-rotor traction cage motors. , 2013, , .		5
39	Challenging the hydraulics on its own ground: Ship steering through unconventionally-high thrust permanent-magnet direct motors with structural redundancy and fault-tolerance. , 2014, , .		5
40	Improved analytical computation of rotor rectangular slot leakage inductance in squirrel-cage induction motors. , 2015, , .		5
41	An improved analytical expression for computing the leakage inductance of a circular bar in a semi-closed slot. , 2015, , .		5
42	Rotor eccentricity evaluation in an alternator with parallel pole-phase-groups in the stator: FEM simulations and experimental proofs. , 2012, , .		4
43	On the Frequency Dependence of Harmonic Current Side-Band (HCSB) based Rotor Fault Indicators for Three-Phase Cage Machines. , 2007, , .		3
44	Experimental Performances of Harmonic Current Sideband Based Broken Bar Indicators. , 2007, , .		3
45	Minimization of harmful cage torsional resonances in traction motors by a combined mechanic-electronic optimization. , 2009, , .		3
46	Diagnosis-oriented sequence circuit-based modeling of eccentric rotor traction induction motors accounting for cage damping and split-phase currents. , 2013, , .		3
47	On-line monitoring of mechanical unbalance/ misalignment troubles in ship alternators by direct measurement of split-phase currents. , 2013, , .		3
48	Validation of a magnetic network-based dynamic model of permanent magnet linear synchronous machine built by finite reluctance approach. , 2014, , .		2
49	Design, Prototyping and Testing of a Rotating Electrical Machine With Linear Geometry for Shipboard Applications. IEEE Access, 2020, 8, 122884-122897.	4.2	2
50	AC motor PWM control system based on x86 processor board and linux-embedded OS. , 2008, , .		1
51	Eccentricity diagnosis in 2p-Pole alternators through superimposition of four 2(p±1)-pole virtual machines. , 2012, , .		1
52	Simulation of Load Short-Circuits Exciting Torsional Resonances in High-Speed Alternators. , 2019, , .		1
53	An integrated transformer-shunt reactor operation device for the connection of off-shore wind-farms. , 2014, , .		0
54	An accurate fourier-series expansion for round-rotor electric machine permeance function including large eccentricity effects. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
55	Sequence Circuit-Based Modeling of a Doubly Fed Induction Wind Generator for Eccentricity Diagnosis by Split-Phase Current Signature Analysis. , 2018, , .		0