

Alberto Bellini

List of Publications by Year in descending order

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60
papers

3,701
citations

361296

20
h-index

395590

33
g-index

62
all docs

62
docs citations

62
times ranked

2276
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Motor/Generator for Flywheel Batteries. IEEE Transactions on Industrial Electronics, 2021, 68, 9675-9684.	5.2	18
2	Rotor Fault Detection of Induction Machines with Optimal Wavelet Transform. , 2021, , .		2
3	Using Internet of Things and Distributed Ledger Technology for Digital Circular Economy Enablement: The Case of Electronic Equipment. Sustainability, 2021, 13, 4982.	1.6	37
4	PWM Torque Ripple Compensation for a Dual Three-Phase Synchronous Machine. , 2021, , .		0
5	Design of Low-Cost Synchronous Machine to Prevent Demagnetization. Energies, 2020, 13, 3566.	1.6	2
6	Fault Tolerance Analysis of a Ironless PM Machine for Energy Storage. , 2020, , .		3
7	Design Optimization and Analysis of a Synchronous Reluctance Machine for Fault-Tolerant Applications. , 2019, , .		4
8	Stator fault diagnosis by reactive power in dual three-phase reluctance motors. , 2019, , .		2
9	Design for Reliability: The Case of Fractional-Slot Surface Permanent-Magnet Machines. Energies, 2019, 12, 1691.	1.6	7
10	Optimal Design and Experimental Validation of a Synchronous Reluctance Machine for Fault-Tolerant Applications. , 2019, , .		8
11	Demagnetization Issues in Low Cost Synchronous Machine. , 2019, , .		0
12	Ironless Dual-Rotor Permanent-Magnet Machine for Flywheel Batteries. , 2018, , .		3
13	Energy balance of waste management systems: A case study. , 2017, , .		2
14	Screening of False Induction Motor Fault Alarms Produced by Axial Air Ducts Based on the Space-Harmonic-Induced Current Components. IEEE Transactions on Industrial Electronics, 2015, 62, 1803-1813.	5.2	28
15	Evaluation of Combined Reference Frame Transformation for Interturn Fault Detection in Permanent-Magnet Multiphase Machines. IEEE Transactions on Industrial Electronics, 2015, 62, 1912-1920.	5.2	52
16	Condition monitoring and diagnosis of rotor faults in induction machines: State of art and future perspectives. , 2013, , .		89
17	Bearing Fault Model for Induction Motor With Externally Induced Vibration. IEEE Transactions on Industrial Electronics, 2013, 60, 3408-3418.	5.2	133
18	Axial flux permanent magnet machine desing and optimization using multi-layer 2-D simulation. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
19	Micro wind turbine system integration guidelines PMSG and inverter front end choices. , 2012, , .		6
20	Review of Design Solutions for Internal Permanent-Magnet Machines Cogging Torque Reduction. IEEE Transactions on Magnetics, 2012, 48, 2685-2693.	1.2	68
21	A test bench for accelerated thermal ageing of III–V concentration solar cells using forward bias injection. , 2011, , .		6
22	Homopolar generators: An overview. , 2011, , .		16
23	Currents and vibrations in asynchronous motor with externally induced vibration. , 2011, , .		5
24	Fault Detection of Linear Bearings in Brushless AC Linear Motors by Vibration Analysis. IEEE Transactions on Industrial Electronics, 2011, 58, 1684-1694.	5.2	92
25	Cogging torque reduction methods for internal permanent magnet motors: Review and comparison. , 2010, , .		5
26	Diagnosis of Bearing Faults in Induction Machines by Vibration or Current Signals: A Critical Comparison. IEEE Transactions on Industry Applications, 2010, 46, 1350-1359.	3.3	302
27	Design of linear alternators for thermoacoustic machines. , 2009, , .		6
28	Stator fault detection for multi-phase machines with multiple reference frames transformation. , 2009, , .		5
29	Fault diagnosis of linear electric generators for thermoacoustic machines. , 2009, , .		0
30	Fault diagnosis of linear bearings in brushless AC linear motors. , 2009, , .		1
31	A novel current sensing DC offset compensation strategy in transformerless grid connected power converters. , 2009, , .		13
32	Quad Demodulation: A Time-Domain Diagnostic Method for Induction Machines. IEEE Transactions on Industry Applications, 2009, 45, 712-719.	3.3	22
33	Diagnosis of Induction Machines' Rotor Faults in Time-Varying Conditions. IEEE Transactions on Industrial Electronics, 2009, 56, 4548-4556.	5.2	64
34	Mechatronic Design of a Shape Memory Alloy Actuator for Automotive Tumble Flaps: A Case Study. IEEE Transactions on Industrial Electronics, 2009, 56, 2644-2656.	5.2	59
35	Detection of Generalized-Roughness Bearing Fault by Spectral-Kurtosis Energy of Vibration or Current Signals. IEEE Transactions on Industrial Electronics, 2009, 56, 4710-4717.	5.2	165
36	3boost: A High-Power Three-Phase Step-Up Full-Bridge Converter for Automotive Applications. IEEE Transactions on Industrial Electronics, 2008, 55, 173-183.	5.2	54

#	ARTICLE	IF	CITATIONS
37	High Frequency Resolution Techniques for Rotor Fault Detection of Induction Machines. IEEE Transactions on Industrial Electronics, 2008, 55, 4200-4209.	5.2	143
38	Solar Trigeneration for Residential Applications, a Feasible Alternative to Traditional Micro-Cogeneration and Trigeneration Plants. , 2008, , .		15
39	Advances in Diagnostic Techniques for Induction Machines. IEEE Transactions on Industrial Electronics, 2008, 55, 4109-4126.	5.2	938
40	Fault detection of a five-phase Permanent-Magnet machine. , 2008, , .		27
41	Comparative analysis of CHCP systems based on solar energy. , 2008, , .		2
42	Diagnosis of mechanical faults by spectral kurtosis energy. , 2008, , .		11
43	Quad Demodulation: A Time Domain Diagnostic Method for Induction Machines. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
44	Mixed-Mode PWM for High-Performance Stepping Motors. IEEE Transactions on Industrial Electronics, 2007, 54, 3167-3177.	5.2	50
45	Diagnosis of induction machines in time-varying conditions. , 2007, , .		17
46	Monitoring of Induction Machines currents by high frequency resolution analysis. , 2006, , .		6
47	Modeling of a parallel hybrid power audio amplifier. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	8
48	Monitoring of induction Machines by maximum covariance method for frequency tracking. IEEE Transactions on Industry Applications, 2006, 42, 69-78.	3.3	64
49	Induction Motor Rotor Quantities at Load Conditions: Finite Element Analysis and Experimental Validation. IEEE Transactions on Magnetics, 2006, 42, 3476-3478.	1.2	6
50	Test-bed system for improved induction machines diagnostics. , 2005, , .		1
51	Battery Choice and Management for New-Generation Electric Vehicles. IEEE Transactions on Industrial Electronics, 2005, 52, 1343-1349.	5.2	349
52	On-field experience with online diagnosis of large induction motors cage failures using MCSA. IEEE Transactions on Industry Applications, 2002, 38, 1045-1053.	3.3	157
53	Quantitative evaluation of induction motor broken bars by means of electrical signature analysis. IEEE Transactions on Industry Applications, 2001, 37, 1248-1255.	3.3	417
54	Car cockpit equalization by warping filters. IEEE Transactions on Consumer Electronics, 2001, 47, 108-116.	3.0	3

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55	Closed-loop control impact on the diagnosis of induction motors faults. IEEE Transactions on Industry Applications, 2000, 36, 1318-1329.	3.3	162
56	Non-linear digital audio processor for dedicated loudspeaker systems. IEEE Transactions on Consumer Electronics, 1998, 44, 1024-1031.	3.0	4
57	Analog synthesis of nonlinear functions based on fuzzy logic. IEEE Journal of Solid-State Circuits, 1998, 33, 885-895.	3.5	19
58	A Development Tool for Analog Fuzzy Controllers: Features and Applications. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 1998, 06, 211-220.	0.9	1
59	Fuzzy-controlled perceptual coding of videophone sequences. IEEE Transactions on Fuzzy Systems, 1997, 5, 294-303.	6.5	5
60	Analog fuzzy implementation of a perceptual classifier for videophone sequences. IEEE Transactions on Consumer Electronics, 1996, 42, 787-794.	3.0	2