

# 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	Advances in Diagnostic Techniques for Induction Machines. IEEE Transactions on Industrial Electronics, 2008, 55, 4109-4126.	5.2	938
2	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
3	Battery Choice and Management for New-Generation Electric Vehicles. IEEE Transactions on Industrial Electronics, 2005, 52, 1343-1349.	5.2	349
4	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
5	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
6	Closed-loop control impact on the diagnosis of induction motors faults. IEEE Transactions on Industry Applications, 2000, 36, 1318-1329.	3.3	162
7	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
8	High Frequency Resolution Techniques for Rotor Fault Detection of Induction Machines. IEEE Transactions on Industrial Electronics, 2008, 55, 4200-4209.	5.2	143
9	Bearing Fault Model for Induction Motor With Externally Induced Vibration. IEEE Transactions on Industrial Electronics, 2013, 60, 3408-3418.	5.2	133
10	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
11	Condition monitoring and diagnosis of rotor faults in induction machines: State of art and future perspectives. , 2013, , .		89
12	Review of Design Solutions for Internal Permanent-Magnet Machines Cogging Torque Reduction. IEEE Transactions on Magnetics, 2012, 48, 2685-2693.	1.2	68
13	Monitoring of induction Machines by maximum covariance method for frequency tracking. IEEE Transactions on Industry Applications, 2006, 42, 69-78.	3.3	64
14	Diagnosis of Induction Machines' Rotor Faults in Time-Varying Conditions. IEEE Transactions on Industrial Electronics, 2009, 56, 4548-4556.	5.2	64
15	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
16	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
17	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
18	Mixed-Mode PWM for High-Performance Stepping Motors. IEEE Transactions on Industrial Electronics, 2007, 54, 3167-3177.	5.2	50

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Fault detection of a five-phase Permanent-Magnet machine. , 2008, , .		27
22	Quad Demodulation: A Time-Domain Diagnostic Method for Induction Machines. IEEE Transactions on Industry Applications, 2009, 45, 712-719.	3.3	22
23	Analog synthesis of nonlinear functions based on fuzzy logic. IEEE Journal of Solid-State Circuits, 1998, 33, 885-895.	3.5	19
24	Design of Motor/Generator for Flywheel Batteries. IEEE Transactions on Industrial Electronics, 2021, 68, 9675-9684.	5.2	18
25	Diagnosis of induction machines in time-varying conditions. , 2007, , .		17
26	Homopolar generators: An overview. , 2011, , .		16
27	Solar Trigeneration for Residential Applications, a Feasible Alternative to Traditional Micro-Cogeneration and Trigeneration Plants. , 2008, , .		15
28	A novel current sensing DC offset compensation strategy in transformerless grid connected power converters. , 2009, , .		13
29	Diagnosis of mechanical faults by spectral kurtosis energy. , 2008, , .		11
30	Modeling of a parallel hybrid power audio amplifier. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	8
31	Optimal Design and Experimental Validation of a Synchronous Reluctance Machine for Fault-Tolerant Applications. , 2019, , .		8
32	Design for Reliability: The Case of Fractional-Slot Surface Permanent-Magnet Machines. Energies, 2019, 12, 1691.	1.6	7
33	Monitoring of Induction Machines currents by high frequency resolution analysis. , 2006, , .		6
34	Induction Motor Rotor Quantities at Load Conditions: Finite Element Analysis and Experimental Validation. IEEE Transactions on Magnetics, 2006, 42, 3476-3478.	1.2	6
35	Design of linear alternators for thermoacoustic machines. , 2009, , .		6
36	A test bench for accelerated thermal ageing of III&#x2013;V concentration solar cells using forward bias injection. , 2011, , .		6

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37	Micro wind turbine system integration guidelines PMSG and inverter front end choices. , 2012, , .		6
38	Fuzzy-controlled perceptual coding of videophone sequences. IEEE Transactions on Fuzzy Systems, 1997, 5, 294-303.	6.5	5
39	Stator fault detection for multi-phase machines with multiple reference frames transformation. , 2009, , .		5
40	Cogging torque reduction methods for internal permanent magnet motors: Review and comparison. , 2010, , .		5
41	Currents and vibrations in asynchronous motor with externally induced vibration. , 2011, , .		5
42	Non-linear digital audio processor for dedicated loudspeaker systems. IEEE Transactions on Consumer Electronics, 1998, 44, 1024-1031.	3.0	4
43	Design Optimization and Analysis of a Synchronous Reluctance Machine for Fault-Tolerant Applications. , 2019, , .		4
44	Car cockpit equalization by warping filters. IEEE Transactions on Consumer Electronics, 2001, 47, 108-116.	3.0	3
45	Ironless Dual-Rotor Permanent-Magnet Machine for Flywheel Batteries. , 2018, , .		3
46	Fault Tolerance Analysis of a Ironless PM Machine for Energy Storage. , 2020, , .		3
47	Analog fuzzy implementation of a perceptual classifier for videophone sequences. IEEE Transactions on Consumer Electronics, 1996, 42, 787-794.	3.0	2
48	Comparative analysis of CHCP systems based on solar energy. , 2008, , .		2
49	Axial flux permanent magnet machine desing and optimization using multi-layer 2-D simulation. , 2013, , .		2
50	Energy balance of waste management systems: A case study. , 2017, , .		2
51	Stator fault diagnosis by reactive power in dual three-phase reluctance motors. , 2019, , .		2
52	Design of Low-Cost Synchronous Machine to Prevent Demagnetization. Energies, 2020, 13, 3566.	1.6	2
53	Rotor Fault Detection of Induction Machines with Optimal Wavelet Transform. , 2021, , .		2
54	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

#	ARTICLE	IF	CITATIONS
55	Test-bed system for improved induction machines diagnostics. , 2005, , .		1
56	Quad Demodulation: A Time Domain Diagnostic Method for Induction Machines. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
57	Fault diagnosis of linear bearings in brushless AC linear motors. , 2009, , .		1
58	Fault diagnosis of linear electric generators for thermoacoustic machines. , 2009, , .		0
59	Demagnetization Issues in Low Cost Synchronous Machine. , 2019, , .		0
60	PWM Torque Ripple Compensation for a Dual Three-Phase Synchronous Machine. , 2021, , .		0