

Guillermo R Bossio

List of Publications by Year in descending order

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109
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all docs

109
docs citations

109
times ranked

1334
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibration Magnitude Analysis on Induction Motors of Different Efficiency Classes Due to Voltage Unbalance. , 2022, , .		1
2	Speed Estimation During the Starting Transient of Induction Motors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	8
3	Active Broken Rotor Bar Diagnosis in Induction Motor Drives. IEEE Transactions on Industrial Electronics, 2021, 68, 7556-7566.	7.9	12
4	Stator Faults Detection on Induction Motors Using Harmonic Sequence Current Components Analysis. IEEE Latin America Transactions, 2021, 19, 726-734.	1.6	3
5	Comparison of Online Techniques for the Detection of Inter-Turn Short-Circuits in Transformers. , 2021, , .		1
6	Diagnosis of induction motor faults using the full spectrum of direct and quadrature currents. , 2021, , .		1
7	Detection of broken rotor bars and eccentricity during the starting transient of three-phase induction motors. , 2021, , .		0
8	Derating of Induction Motors Due to Power Quality Issues Considering the Motor Efficiency Class. IEEE Transactions on Industry Applications, 2020, 56, 961-969.	4.9	14
9	Rotor fault diagnosis in permanent magnet synchronous machine using the midpoint voltage of windings. IET Electric Power Applications, 2020, 14, 256-261.	1.8	9
10	Stator interturn faults diagnosis in induction motors using zero-sequence signal injection. IET Electric Power Applications, 2020, 14, 2731-2738.	1.8	4
11	SynRM saliencies evaluation for rotor position estimation. , 2020, , .		0
12	Interturn short-circuit fault diagnosis in PMSM with partitioned stator windings. IET Electric Power Applications, 2020, 14, 2301-2311.	1.8	9
13	Design of a wind turbine generator for rural applications. IET Electric Power Applications, 2019, 13, 379-384.	1.8	2
14	A speed self-sensing method in starting of induction motors. , 2019, , .		3
15	Fault Detection in Starter Resistor of Large Wound Rotor Induction Motor: a Case Study. , 2019, , .		1
16	Derating of Induction Motors due to Power Quality Issues Considering the Motor Efficiency Class. , 2019, , .		5
17	A strategy for broken bars diagnosis in induction motors drives. IEEE Latin America Transactions, 2018, 16, 322-328.	1.6	10
18	Multi-Domain Model of Faulty Stator Core for Thermal Effects and Losses Evaluation. Electric Power Components and Systems, 2018, 46, 187-196.	1.8	0

#	ARTICLE	IF	CITATIONS
19	Effects of Stator Winding Interturn Short-Circuit Faults of the IM by Using Instantaneous Power Theory. , 2018, , .		1
20	Impact of Voltage Waveform on the Losses and Performance of Energy Efficiency Induction Motors. , 2018, , .		5
21	Faults detection in stator windings of induction motors based on signal injection. , 2018, , .		0
22	Steady-State Induction Machine Model with Turn Faults and Voltage Harmonics. , 2018, , .		2
23	A Speed Estimation Strategy for Wound Rotor Induction Motor. , 2018, , .		3
24	Alternative Approach to Improving Efficiency Level in Small Induction Motors. IEEE Latin America Transactions, 2018, 16, 2138-2144.	1.6	6
25	SVM-Based System for Broken Rotor Bar Detection in Induction Motors. , 2018, , .		9
26	Inter-turn faults detection in Induction Motor drives using zero-sequence signal injection. , 2018, , .		2
27	Open- and Short-Circuit Fault Identification for a Boost dc/dc Converter in PV MPPT Systems. Energies, 2018, 11, 616.	3.1	23
28	A Model-Based Strategy for Interturn Short-Circuit Fault Diagnosis in PMSM. IEEE Transactions on Industrial Electronics, 2017, 64, 7218-7228.	7.9	133
29	Efficiency optimization in small induction motors using magnetic slot wedges. Electric Power Systems Research, 2017, 152, 1-8.	3.6	18
30	A PLL-based resampling technique for vibration analysis in variable-speed wind turbines with PMSG: A bearing fault case. Mechanical Systems and Signal Processing, 2017, 85, 354-366.	8.0	14
31	Fault diagnosis in induction motors using self-organizing neural networks and quantization error. , 2017, , .		3
32	A strategy for interturn short-circuit fault detection in PMSM with partitioned stator windings. , 2017, , .		4
33	Effects of negative sequence voltage on the core losses of induction motors. , 2016, , .		1
34	Optimizaci3n de la eficiencia en motores de inducci3n de ranuras semiabiertas mediante empleo de cu3ntas magn3ticas. , 2016, , .		0
35	Una estrategia basada en modelo de se3al para el diagn3stico de cortocircuitos entre espiras en MSIP. , 2016, , .		0
36	Model-based Fault Detection and Isolation in a MPPT BOOST converter for photovoltaic systems. , 2016, , .		6

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37	Broken rotor bars detection in induction motor by using zero-sequence signal injection. , 2016, , .		7
38	Voltage unbalance and harmonic distortion effects on induction motor power, torque and vibrations. Electric Power Systems Research, 2016, 140, 866-873.	3.6	46
39	Misalignment detection in induction motors with flexible coupling by means of estimated torque analysis and MCSA. Mechanical Systems and Signal Processing, 2016, 80, 570-581.	8.0	70
40	Fault detection in gear box with induction motors: an experimental study. IEEE Latin America Transactions, 2016, 14, 2726-2731.	1.6	11
41	Modelo de rÃ©gimen permanente del MI para el anÃ¡lisis de asimetrÃ­as en el rotor. , 2016, , .		0
42	DetecciÃ³n de fallas en barras de un motor de inducciÃ³n utilizando inyecciÃ³n de seÃ±ales de secuencia cero. , 2016, , .		0
43	Calculation of electric machine inductances based on its magnetic equivalent circuit. , 2015, , .		0
44	Inductance calculation for electric machines with semi-closed slots. , 2015, , .		0
45	Calculation of electric machine inductances using a geometric approach. , 2015, , .		0
46	A new strategy for detection and isolation of stator faults in PMSM. , 2015, , .		2
47	Analysis and validation of a dynamic model for PMSM with stator fault. , 2015, , .		3
48	Online Voltage Sensorless High-Resistance Connection Diagnosis in Induction Motor Drives. IEEE Transactions on Industrial Electronics, 2015, 62, 4374-4384.	7.9	23
49	Fault detection in magnetic wedges of induction motor. , 2015, , .		8
50	Induction motor saliencies analysis using zero-sequence signal injection. , 2015, , .		10
51	On-Line Diagnosis of High-Resistance Connection for Inverter Fed Induction Motors. , 2014, , .		5
52	Bearing Fault Detection in Wind Turbines with Permanent Magnet Synchronous Machines. IEEE Latin America Transactions, 2014, 12, 1199-1205.	1.6	7
53	Detecting Broken Rotor Bars With Zero-Setting Protection. IEEE Transactions on Industry Applications, 2014, 50, 1373-1384.	4.9	35
54	DetecciÃ³n y diagnÃ³stico de problemas de desmagnetizaciÃ³n y desbalance mecÃ¡nico en mÃ¡quinas sÃ­ncronas de imanes permanentes. , 2014, , .		5

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55	Efectos del cortocircuito entre espiras en máquinas síncronas de imanes permanentes. , 2014, , .		6
56	High-Resistance Connection Detection in Induction Motor Drives Using Signal Injection. IEEE Transactions on Industrial Electronics, 2014, 61, 3563-3573.	7.9	33
57	Winding distribution effects on induction motor rotor fault diagnosis. Mechatronics, 2014, 24, 1050-1058.	3.3	9
58	A Fault Detection Technique For Variable-speed Wind Turbines Using Vibrations And Electrical Measurements. Eletrônica De Potência, 2014, 19, 386-396.	0.1	2
59	Self-organizing map approach for classification of mechanical and rotor faults on induction motors. Neural Computing and Applications, 2013, 23, 41-51.	5.6	16
60	A Model For Permanent Magnet Synchronous Machines With Demagnetization Faults. IEEE Latin America Transactions, 2013, 11, 414-420.	1.6	9
61	Fault detection for variable-speed wind turbines using vibrations and electrical measurements. , 2013, , .		1
62	Rotor demagnetization effects on permanent magnet synchronous machines. Energy Conversion and Management, 2013, 74, 1-8.	9.2	46
63	Fault diagnosis scheme for open-circuit faults in field-oriented control induction motor drives. IET Power Electronics, 2013, 6, 869-877.	2.1	68
64	Relaxed Fault Conditions for Stator Short-Circuit Fault Isolation in Induction Motors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1400-1405.	0.4	2
65	Winding Distribution Effects on Induction Motor Rotor Fault Diagnosis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1376-1381.	0.4	0
66	A Model for Single-Point Bearings Defects in Electric Motors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1370-1375.	0.4	0
67	Multi-Domain Modeling of Induction Motor with Stator Winding Turn-Faults. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1382-1387.	0.4	1
68	Stator Winding Fault Detection Using High Frequency Signal Injection for Induction Motors with Closed Rotor Slots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1388-1393.	0.4	0
69	Multi-domain model of induction motor with stator core faults. , 2012, , .		1
70	Detecting broken rotor bars with zero-setting protection. , 2012, , .		4
71	Stator winding fault detection in induction motor drives using signal injection. , 2011, , .		15
72	Stator core faults detection on induction motor drives using signal injection. , 2011, , .		8

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73	Analysis of voltage unbalance effects on induction motors with open and closed slots. Energy Conversion and Management, 2011, 52, 2024-2030.	9.2	35
74	Multi-domain model of stator core faults using Bond Graph. , 2011, , .		1
75	WAVELET ANALYSIS FOR STATOR FAULT DETECTION IN INDUCTION MACHINES. International Journal of Wavelets, Multiresolution and Information Processing, 2011, 09, 361-374.	1.3	4
76	Discriminating broken rotor bar from oscillating load effects using the instantaneous active and reactive powers. IET Electric Power Applications, 2010, 4, 281.	1.8	37
77	Model for three-phase induction motors with stator core faults. IET Electric Power Applications, 2010, 4, 591.	1.8	12
78	A new approach to the Park's vector for broken bars and load oscillation diagnosis on IM. , 2010, , .		11
79	Effects of partial rotor demagnetization on permanent magnet synchronous machines. , 2010, , .		13
80	Fault diagnosis on induction motors using Self-Organizing Maps. , 2010, , .		9
81	Modeling of electromagnetic devices using bond graph: An application to faults in AC machines. , 2010, , .		1
82	Multi-domain modeling of electric traction drives using Bond Graphs: Application to fault diagnosis. , 2009, , .		4
83	Angular misalignment in induction motors with flexible coupling. , 2009, , .		30
84	Stator core fault diagnosis for induction motors based on parameters adaptation. , 2009, , .		3
85	Effects of voltage unbalance on IM power, torque and vibrations. , 2009, , .		14
86	Evaluation of harmonic current sidebands for broken bar diagnosis in induction motors. , 2009, , .		13
87	Experimental generation and quantification of stator core faults on induction motors. , 2009, , .		10
88	Online Model-Based Stator-Fault Detection and Identification in Induction Motors. IEEE Transactions on Industrial Electronics, 2009, 56, 4671-4680.	7.9	131
89	Separating Broken Rotor Bars and Load Oscillations on IM Fault Diagnosis Through the Instantaneous Active and Reactive Currents. IEEE Transactions on Industrial Electronics, 2009, 56, 4571-4580.	7.9	81
90	On-line iron loss resistance identification by a state observer for rotor-flux-oriented control of induction motor. Energy Conversion and Management, 2008, 49, 2742-2747.	9.2	5

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91	Broken bar detection in single-phase reciprocating compressors. , 2008, , .		16
92	Una estrategia basada en modelos para el diagnóstico de fallas en el estator del motor de inducción. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2007, 4, 107-115.	1.0	1
93	Application of an Additional Excitation in Inverter-Fed Induction Motors for Air-Gap Eccentricity Diagnosis. IEEE Transactions on Energy Conversion, 2006, 21, 839-847.	5.2	31
94	Mechanical sensorless speed control of permanent-magnet AC motors driving an unknown load. IEEE Transactions on Industrial Electronics, 2006, 53, 406-414.	7.9	44
95	Model Based Stator Fault Detection in Induction Motors. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	14
96	Optimization of power management in an hybrid electric vehicle using dynamic programming. Mathematics and Computers in Simulation, 2006, 73, 244-254.	4.4	280
97	Speed control of PMSMs with Interconnection and Damping Assignment or Feedback Linearization. Comments about their performance. , 2006, , .		8
98	Sensorless speed control of permanent-magnet motors with nonsinusoidal EMF waveform. IET Electric Power Applications, 2005, 152, 1119.	1.4	4
99	Effects of Rotor Bar and End-Ring Faults Over the Signals of a Position Estimation Strategy for Induction Motors. IEEE Transactions on Industry Applications, 2005, 41, 1005-1012.	4.9	42
100	A Rotor Position and Speed Observer for Permanent-Magnet Motors With Nonsinusoidal EMF Waveform. IEEE Transactions on Industrial Electronics, 2005, 52, 807-813.	7.9	24
101	A 2-D Model of the Induction Machine: An Extension of the Modified Winding Function Approach. IEEE Transactions on Energy Conversion, 2004, 19, 144-150.	5.2	85
102	Loss minimization in DC motor drives. , 0, , .		3
103	Sensorless speed control of permanent magnet motors with torque ripple minimization. , 0, , .		7
104	A rotor position and speed observer for permanent magnet motors with nonsinusoidal EMF waveform. , 0, , .		4
105	Analysis of a position estimation strategy using a multiple-coupled circuits model of the induction motor. , 0, , .		6
106	A 2D-model of the induction motor: an extension of the modified winding function approach. , 0, , .		8
107	Effects of rotor bar and end-ring faults over the signals of a position estimation strategy for induction motors. , 0, , .		5
108	Application of an additional excitation in inverter-fed induction motors for air-gap eccentricity diagnosis. , 0, , .		1

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109	Sensorless speed control of permanent magnet motors driving an unknown load. , 0, , .		2