

Vicente Climente-Alarcon

List of Publications by Year in descending order

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61
papers

1,310
citations

430442

18
h-index

433756

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61
all docs

61
docs citations

61
times ranked

951
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction Motor Diagnosis Based on a Transient Current Analytic Wavelet Transform via Frequency B-Splines. IEEE Transactions on Industrial Electronics, 2011, 58, 1530-1544.	5.2	122
2	Induction Motor Diagnosis by Advanced Notch FIR Filters and the Wigner-Ville Distribution. IEEE Transactions on Industrial Electronics, 2014, 61, 4217-4227.	5.2	112
3	Application of the Teager-Kaiser Energy Operator to the Fault Diagnosis of Induction Motors. IEEE Transactions on Energy Conversion, 2013, 28, 1036-1044.	3.7	100
4	Evaluation of the Detectability of Electromechanical Faults in Induction Motors Via Transient Analysis of the Stray Flux. IEEE Transactions on Industry Applications, 2018, 54, 4324-4332.	3.3	75
5	Time-frequency vibration analysis for the detection of motor damages caused by bearing currents. Mechanical Systems and Signal Processing, 2017, 84, 747-762.	4.4	65
6	Combination of Noninvasive Approaches for General Assessment of Induction Motors. IEEE Transactions on Industry Applications, 2015, 51, 2172-2180.	3.3	63
7	Vibration Transient Detection of Broken Rotor Bars by PSH Sidebands. IEEE Transactions on Industry Applications, 2013, 49, 2576-2582.	3.3	58
8	A Symbolic Representation Approach for the Diagnosis of Broken Rotor Bars in Induction Motors. IEEE Transactions on Industrial Informatics, 2015, 11, 1028-1037.	7.2	51
9	Advanced Analysis of Motor Currents for the Diagnosis of the Rotor Condition in Electric Motors Operating in Mining Facilities. IEEE Transactions on Industry Applications, 2018, 54, 3934-3942.	3.3	49
10	Rotor-Bar Breakage Mechanism and Prognosis in an Induction Motor. IEEE Transactions on Industrial Electronics, 2015, 62, 1814-1825.	5.2	48
11	Superconducting motors for aircraft propulsion: the Advanced Superconducting Motor Experimental Demonstrator project. Journal of Physics: Conference Series, 2020, 1590, 012051.	0.3	46
12	Automatic Pattern Identification Based on the Complex Empirical Mode Decomposition of the Startup Current for the Diagnosis of Rotor Asymmetries in Asynchronous Machines. IEEE Transactions on Industrial Electronics, 2014, 61, 4937-4946.	5.2	41
13	Reliable Detection of Rotor Winding Asymmetries in Wound Rotor Induction Motors via Integral Current Analysis. IEEE Transactions on Industry Applications, 2017, 53, 2040-2048.	3.3	41
14	The Use of a Multilabel Classification Framework for the Detection of Broken Bars and Mixed Eccentricity Faults Based on the Start-Up Transient. IEEE Transactions on Industrial Informatics, 2017, 13, 625-634.	7.2	38
15	Diagnosis of Induction Motors Under Varying Speed Operation by Principal Slot Harmonic Tracking. IEEE Transactions on Industry Applications, 2015, 51, 3591-3599.	3.3	37
16	Particle Filter-Based Estimation of Instantaneous Frequency for the Diagnosis of Electrical Asymmetries in Induction Machines. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2454-2463.	2.4	33
17	Design considerations for fully superconducting synchronous motors aimed at future electric aircraft. , 2018, , .		29
18	An automated thermographic image segmentation method for induction motor fault diagnosis. , 2014, , .		28

#	ARTICLE	IF	CITATIONS
19	Transient-Based Rotor Cage Assessment in Induction Motors Operating With Soft Starters. IEEE Transactions on Industry Applications, 2015, 51, 3734-3742.	3.3	28
20	An experimental assessment of rotor superconducting stack demagnetization in a liquid nitrogen environment. Superconductor Science and Technology, 2019, 32, 085009.	1.8	24
21	An intelligent icons approach for rotor bar fault detection. , 2013, , .		14
22	Detection of rotor faults via transient analysis of the external magnetic field. , 2017, , .		14
23	2-D Magnetomechanical Transient Study of a Motor Suffering a Bar Breakage. IEEE Transactions on Industry Applications, 2018, 54, 2097-2104.	3.3	13
24	Computation of Superconducting Stacks Magnetization in an Electrical Machine. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.1	11
25	Cross-field demagnetization of stacks of tapes: 3D modelling and measurements. Superconductor Science and Technology, 2019, , .	1.8	11
26	Testing of Surface Mounted Superconducting Stacks as Trapped-Flux Magnets in a Synchronous Machine. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-8.	1.1	11
27	Automatizing the broken bar detection process via short time Fourier transform and two-dimensional piecewise aggregate approximation representation. , 2014, , .		9
28	Reporting false indications of startup analysis when diagnosing damper damages in synchronous motors. , 2016, , .		9
29	Magnetization and Losses for an Improved Architecture of Trapped-Flux Superconducting Rotor. Journal of Propulsion and Power, 2020, 36, 101-108.	1.3	9
30	Start-up analysis methods for the diagnosis of rotor asymmetries in induction motors-seeing is believing. , 2016, , .		8
31	Combined Model for Simulating the Effect of Transients on a Damaged Rotor Cage. IEEE Transactions on Industry Applications, 2017, 53, 3528-3537.	3.3	8
32	Theoretical analysis of heat transport in tilted stacks of HTS tapes at temperatures above 20ÅK. Cryogenics, 2020, 105, 103017.	0.9	8
33	Influence of Architecture of Composite Superconducting Tape-Based Stacks on AC Demagnetization for Electric Machines Application. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-6.	1.1	8
34	Superconducting Magnetic Heterostructured Components for Electric Motor Applications. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	7
35	Experimental study of the evolution of a bar breakage process in a commercial induction machine. , 2008, , .		6
36	Bar breakage mechanism and prognosis in an induction motor. , 2013, , .		6

#	ARTICLE	IF	CITATIONS
37	Transient-based rotor cage assessment in induction motors operating with soft-starters. , 2014, , .		6
38	Condition monitoring of electrical machines and its relation to industrial internet. , 2015, , .		6
39	Evaluation of the detectability of rotor faults and eccentricities in induction motors via transient analysis of the stray flux. , 2017, , .		6
40	Study of thermal stresses developed during a fatigue test on an electrical motor rotor cage. International Journal of Fatigue, 2019, 120, 56-64.	2.8	6
41	Distribution of Trapped Magnetic Flux in Superconducting Stacks Magnetised by Angled Field. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1299-1305.	0.8	6
42	A multi-label classification approach for the detection of broken bars and mixed eccentricity faults using the start-up transient. , 2016, , .		5
43	Design of innovative laboratory sessions for electric motors predictive maintenance teaching. , 2017, , .		5
44	Diagnosis of the rotor condition in electric motors operating in mining facilities through the analysis of motor currents. , 2017, , .		5
45	Field Cooling Magnetization and Losses of an Improved Architecture of Trapped-Field Superconducting Rotor for Aircraft Applications. , 2019, , .		5
46	Combined model for simulating the effect of a heavy transient on a damaged rotor cage. , 2016, , .		4
47	Case stories of advanced rotor assessment in field motors operated with soft-starters and frequency converters. , 2015, , .		3
48	Simulation of an Induction Motor's Rotor After Connection. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	3
49	Automatizing the detection of rotor failures in induction motors operated via soft-starters. , 2015, , .		2
50	Automation of the startup transient analysis of induction motors using a predictive stage. , 2015, , .		2
51	Evaluation of startup-based rotor fault severity indicators under different starting methods. , 2014, , .		1
52	Current variation in a rotor bar during transients due to a hot spot. , 2015, , .		1
53	Symbolic time series analysis of the soft starting transient in induction machines. , 2015, , .		1
54	Robust detection of rotor winding asymmetries in wound rotor induction motors via integral current analysis. , 2016, , .		1

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55	2-D magnetomechanical transient simulation of a motor with a bar breakage. , 2017, , .		1
56	Frequency-dependent demagnetisation rate of a shielded HTS tape stack. Journal of Physics: Conference Series, 2020, 1559, 012056.	0.3	1
57	Simulation of an induction motor's rotor after connection. , 2016, , .		0
58	Comparison of thermal stresses developed during transients on a damaged rotor cage. , 2017, , .		0
59	3-D simulation of a rotor suffering a bar breakage. , 2017, , .		0
60	Comparison of experimental and computational analysis of superconducting stack demagnetization in an electrical motor. , 2019, , .		0
61	Magnetization reduction by varying normal field in stacks of composite superconductors in an electrical motor. EPJ Applied Physics, 2020, 92, 20902.	0.3	0