

Jose Alfonso Antonino Daviu

List of Publications by Year in descending order

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185
papers

5,539
citations

66315

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all docs

186
docs citations

186
times ranked

2496
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Electrical Machine, Power Electronic, and Drive Condition Monitoring and Fault Detection: State of the Art. IEEE Transactions on Industrial Electronics, 2015, 62, 1746-1759.	5.2	438
2	Validation of a new method for the diagnosis of rotor bar failures via wavelet transform in industrial induction machines. IEEE Transactions on Industry Applications, 2006, 42, 990-996.	3.3	262
3	A General Approach for the Transient Detection of Slip-Dependent Fault Components Based on the Discrete Wavelet Transform. IEEE Transactions on Industrial Electronics, 2008, 55, 4167-4180.	5.2	234
4	Advanced Induction Motor Rotor Fault Diagnosis Via Continuous and Discrete Time-Frequency Tools. IEEE Transactions on Industrial Electronics, 2015, 62, 1791-1802.	5.2	148
5	Application of Infrared Thermography to Failure Detection in Industrial Induction Motors: Case Stories. IEEE Transactions on Industry Applications, 2017, 53, 1901-1908.	3.3	134
6	The Use of the Wavelet Approximation Signal as a Tool for the Diagnosis of Rotor Bar Failures. IEEE Transactions on Industry Applications, 2008, 44, 716-726.	3.3	123
7	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
8	A Critical Comparison Between DWT and Hilbert-Huang-Based Methods for the Diagnosis of Rotor Bar Failures in Induction Machines. IEEE Transactions on Industry Applications, 2009, 45, 1794-1803.	3.3	113
9	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
10	Recent Industrial Applications of Infrared Thermography: A Review. IEEE Transactions on Industrial Informatics, 2019, 15, 615-625.	7.2	112
11	Detection of Broken Outer-Cage Bars for Double-Cage Induction Motors Under the Startup Transient. IEEE Transactions on Industry Applications, 2012, 48, 1539-1548.	3.3	103
12	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
13	Application and optimization of the discrete wavelet transform for the detection of broken rotor bars in induction machines. Applied and Computational Harmonic Analysis, 2006, 21, 268-279.	1.1	96
14	Instantaneous Frequency of the Left Sideband Harmonic During the Start-Up Transient: A New Method for Diagnosis of Broken Bars. IEEE Transactions on Industrial Electronics, 2009, 56, 4557-4570.	5.2	91
15	Condition Monitoring of Industrial Electric Machines: State of the Art and Future Challenges. IEEE Industrial Electronics Magazine, 2020, 14, 158-167.	2.3	90
16	Diagnosis of Induction Motor Faults in the Fractional Fourier Domain. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2065-2075.	2.4	89
17	Reliable Detection of Induction Motor Rotor Faults Under the Rotor Axial Air Duct Influence. IEEE Transactions on Industry Applications, 2014, 50, 2493-2502.	3.3	85
18	Modern Diagnostics Techniques for Electrical Machines, Power Electronics, and Drives. IEEE Transactions on Industrial Electronics, 2015, 62, 1738-1745.	5.2	85

#	ARTICLE	IF	CITATIONS
19	Influence of Nonconsecutive Bar Breakages in Motor Current Signature Analysis for the Diagnosis of Rotor Faults in Induction Motors. IEEE Transactions on Energy Conversion, 2010, 25, 80-89.	3.7	80
20	Diagnosis of Induction Motor Faults via Gabor Analysis of the Current in Transient Regime. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1583-1596.	2.4	77
21	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
22	DWT analysis of numerical and experimental data for the diagnosis of dynamic eccentricities in induction motors. Mechanical Systems and Signal Processing, 2007, 21, 2575-2589.	4.4	70
23	Detection of combined faults in induction machines with stator parallel branches through the DWT of the startup current. Mechanical Systems and Signal Processing, 2009, 23, 2336-2351.	4.4	65
24	Scale Invariant Feature Extraction Algorithm for the Automatic Diagnosis of Rotor Asymmetries in Induction Motors. IEEE Transactions on Industrial Informatics, 2013, 9, 100-108.	7.2	65
25	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
26	Combination of Noninvasive Approaches for General Assessment of Induction Motors. IEEE Transactions on Industry Applications, 2015, 51, 2172-2180.	3.3	63
27	Application of the Wigner-Ville distribution for the detection of rotor asymmetries and eccentricity through high-order harmonics. Electric Power Systems Research, 2012, 91, 28-36.	2.1	62
28	A New Approach for Broken Rotor Bar Detection in Induction Motors Using Frequency Extraction in Stray Flux Signals. IEEE Transactions on Industry Applications, 2019, 55, 3501-3511.	3.3	61
29	Vibration Transient Detection of Broken Rotor Bars by PSH Sidebands. IEEE Transactions on Industry Applications, 2013, 49, 2576-2582.	3.3	58
30	Influence of Blade Pass Frequency Vibrations on MCSA-Based Rotor Fault Detection of Induction Motors. IEEE Transactions on Industry Applications, 2017, 53, 2049-2058.	3.3	57
31	Detection of Winding Asymmetries in Wound-Rotor Induction Motors via Transient Analysis of the External Magnetic Field. IEEE Transactions on Industrial Electronics, 2020, 67, 5050-5059.	5.2	57
32	Waste Management and Prediction of Air Pollutants Using IoT and Machine Learning Approach. Energies, 2020, 13, 3930.	1.6	57
33	Principal Component Analysis of the start-up transient and Hidden Markov Modeling for broken rotor bar fault diagnosis in asynchronous machines. Expert Systems With Applications, 2013, 40, 7024-7033.	4.4	56
34	Reliable Detection of Rotor Bars Breakage in Induction Motors via MUSIC and ZSC. IEEE Transactions on Industry Applications, 2018, 54, 1224-1234.	3.3	55
35	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
36	Air-gap force distribution and vibration pattern of Induction motors under dynamic eccentricity. Electrical Engineering, 2008, 90, 209-218.	1.2	50

#	ARTICLE	IF	CITATIONS
37	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
38	Rotor-Bar Breakage Mechanism and Prognosis in an Induction Motor. IEEE Transactions on Industrial Electronics, 2015, 62, 1814-1825.	5.2	48
39	Magnetic Flux Analysis for the Condition Monitoring of Electric Machines: A Review. IEEE Transactions on Industrial Informatics, 2022, 18, 2895-2908.	7.2	47
40	Higher-Order Spectral Analysis of Stray Flux Signals for Faults Detection in Induction Motors. Applied Mathematics and Nonlinear Sciences, 2020, 5, 1-14.	0.9	44
41	Diagnosis of Induction Motor Faults in Time-Varying Conditions Using the Polynomial-Phase Transform of the Current. IEEE Transactions on Industrial Electronics, 2011, 58, 1428-1439.	5.2	43
42	Use of the infrared data for heating curve computation in induction motors: Application to fault diagnosis. Engineering Failure Analysis, 2013, 35, 178-192.	1.8	43
43	Transient detection of eccentricity-related components in induction motors through the Hilbert-Huang Transform. Energy Conversion and Management, 2009, 50, 1810-1820.	4.4	41
44	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
45	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
46	Introducing the Filtered Park's and Filtered Extended Park's Vector Approach to detect broken rotor bars in induction motors independently from the rotor slots number. Mechanical Systems and Signal Processing, 2017, 93, 30-50.	4.4	39
47	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
48	Toward Condition Monitoring of Damper Windings in Synchronous Motors via EMD Analysis. IEEE Transactions on Energy Conversion, 2012, 27, 432-439.	3.7	37
49	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
50	Mixed eccentricity diagnosis in Inverter-Fed Induction Motors via the Adaptive Slope Transform of transient stator currents. Mechanical Systems and Signal Processing, 2014, 48, 423-435.	4.4	35
51	Airgap Search Coil-Based Detection of Damper Bar Failures in Salient Pole Synchronous Motors. IEEE Transactions on Industry Applications, 2019, 55, 3640-3648.	3.3	34
52	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
53	Detection of Nonadjacent Rotor Faults in Induction Motors via Spectral Subtraction and Autocorrelation of Stray Flux Signals. IEEE Transactions on Industry Applications, 2019, 55, 4585-4594.	3.3	32
54	Smart-Sensor for the Automatic Detection of Electromechanical Faults in Induction Motors Based on the Transient Stray Flux Analysis. Sensors, 2020, 20, 1477.	2.1	32

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55	Efficiency Assessment of Induction Motors Operating Under Different Faulty Conditions. IEEE Transactions on Industrial Electronics, 2019, 66, 8072-8081.	5.2	30
56	Advanced Rotor Fault Diagnosis for Medium-Voltage Induction Motors Via Continuous Transforms. IEEE Transactions on Industry Applications, 2016, 52, 4503-4509.	3.3	29
57	An automated thermographic image segmentation method for induction motor fault diagnosis. , 2014, , .		28
58	Reliable detection of rotor bar failures in induction motors operating in petrochemical plants. , 2014, , .		28
59	Transient-Based Rotor Cage Assessment in Induction Motors Operating With Soft Starters. IEEE Transactions on Industry Applications, 2015, 51, 3734-3742.	3.3	28
60	Pursuing optimal electric machines transient diagnosis: The adaptive slope transform. Mechanical Systems and Signal Processing, 2016, 80, 553-569.	4.4	28
61	Electrical Monitoring under Transient Conditions: A New Paradigm in Electric Motors Predictive Maintenance. Applied Sciences (Switzerland), 2020, 10, 6137.	1.3	26
62	Transient tracking of low and high-order eccentricity-related components in induction motors via TFD tools. Mechanical Systems and Signal Processing, 2011, 25, 667-679.	4.4	25
63	Comparative influence of adjacent and non-adjacent broken rotor bars on the induction motor diagnosis through MCSA and ZSC methods. , 2015, , .		24
64	Comparative Experimental Investigation of the Broken Bar Fault Detectability in Induction Motors. IEEE Transactions on Industry Applications, 2015, , 1-1.	3.3	24
65	Automatic diagnosis of electromechanical faults in induction motors based on the transient analysis of the stray flux via MUSIC methods. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	23
66	Detection of Induction Motor Coupling Unbalanced and Misalignment via Advanced Transient Current Signature Analysis. , 2018, , .		22
67	Diagnosis of rotor asymmetries in induction motors based on the transient extraction of fault components using filtering techniques. Electric Power Systems Research, 2009, 79, 1181-1191.	2.1	21
68	Cutting Tool Wear Monitoring in CNC Machines Based in Spindle-Motor Stray Flux Signals. IEEE Transactions on Industrial Informatics, 2022, 18, 3267-3275.	7.2	20
69	Stator current demodulation for induction machine rotor faults diagnosis. , 2014, , .		19
70	Thorough validation of a rotor fault diagnosis methodology in laboratory and field soft-started induction motors. Chinese Journal of Electrical Engineering, 2018, 4, 66-72.	2.3	19
71	Rotor Fault Detection in Induction Motors Based on Time-Frequency Analysis Using the Bispectrum and the Autocovariance of Stray Flux Signals. Energies, 2019, 12, 597.	1.6	19
72	Smart Sensor for Fault Detection in Induction Motors Based on the Combined Analysis of Stray-Flux and Current Signals: A Flexible, Robust Approach. IEEE Industry Applications Magazine, 2022, 28, 56-66.	0.3	19

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73	Advanced rotor assessment of motors operating under variable load conditions in mining facilities. , 2014, , .		18
74	Outer race bearing fault detection in induction machines using stator current signals. , 2015, , .		18
75	An EMD-based invariant feature extraction algorithm for rotor bar condition monitoring. , 2011, , .		17
76	Smart-Sensors to Estimate Insulation Health in Induction Motors via Analysis of Stray Flux. Energies, 2019, 12, 1658.	1.6	17
77	Condition Monitoring Method for the Detection of Fault Graduality in Outer Race Bearing Based on Vibration-Current Fusion, Statistical Features and Neural Network. Applied Sciences (Switzerland), 2021, 11, 8033.	1.3	17
78	Fault Detection of Circulation Pumps on the Basis of Motor Current Evaluation. IEEE Transactions on Industry Applications, 2021, 57, 4617-4624.	3.3	17
79	Electrical Monitoring of Damper Bar Condition in Salient-Pole Synchronous Motors Without Motor Disassembly. IEEE Transactions on Industry Applications, 2020, 56, 1423-1431.	3.3	16
80	Detection of Field Winding Faults in Synchronous Motors via Analysis of Transient Stray Fluxes and Currents. IEEE Transactions on Energy Conversion, 2021, 36, 2330-2338.	3.7	16
81	Advanced Fault Detection of Synchronous Generators Using Stray Magnetic Field. IEEE Transactions on Industrial Electronics, 2022, 69, 11675-11685.	5.2	16
82	System for Tool-Wear Condition Monitoring in CNC Machines under Variations of Cutting Parameter Based on Fusion Stray Flux-Current Processing. Sensors, 2021, 21, 8431.	2.1	15
83	An intelligent icons approach for rotor bar fault detection. , 2013, , .		14
84	Comparison of different wavelet families for broken bar detection in induction motors. , 2015, , .		14
85	Detection of rotor faults via transient analysis of the external magnetic field. , 2017, , .		14
86	2-D Magnetomechanical Transient Study of a Motor Suffering a Bar Breakage. IEEE Transactions on Industry Applications, 2018, 54, 2097-2104.	3.3	13
87	FEM approach for diagnosis of induction machines' non-adjacent broken rotor bars by short-time Fourier transform spectrogram. Journal of Engineering, 2019, 2019, 4566-4570.	0.6	13
88	Automatic Classification of Winding Asymmetries in Wound Rotor Induction Motors Based on Bicoherence and Fuzzy C-Means Algorithms of Stray Flux Signals. IEEE Transactions on Industry Applications, 2021, 57, 5876-5886.	3.3	13
89	Virtual Reality Training Application for the Condition-Based Maintenance of Induction Motors. Applied Sciences (Switzerland), 2022, 12, 414.	1.3	13
90	Case stories of induction motors fault diagnosis based on current analysis. , 2016, , .		12

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91	Advances in Power Quality Analysis Techniques for Electrical Machines and Drives: A Review. Energies, 2022, 15, 1909.	1.6	12
92	Reliable detection of induction motor rotor faults under the influence of rotor core magnetic anisotropy. , 2015, , .		11
93	Self-adjustment methodology of a thermal camera for detecting faults in industrial machinery. , 2016, , .		11
94	Mechanical Pressure Characterization of CNT-Graphene Composite Material. Micromachines, 2020, 11, 1000.	1.4	11
95	Gradual Wear Diagnosis of Outer-Race Rolling Bearing Faults through Artificial Intelligence Methods and Stray Flux Signals. Electronics (Switzerland), 2021, 10, 1486.	1.8	11
96	Empirical Assessment of Machine Learning Techniques for Software Requirements Risk Prediction. Electronics (Switzerland), 2021, 10, 168.	1.8	11
97	Feature Extraction for the Prognosis of Electromechanical Faults in Electrical Machines through the DWT. International Journal of Computational Intelligence Systems, 2009, 2, 158.	1.6	11
98	Fault detection and classification in kinematic chains by means of PCA extraction-reduction of features from thermographic images. Measurement: Journal of the International Measurement Confederation, 2022, 197, 111340.	2.5	11
99	Detection of broken outer cage bars for double cage induction motors under the startup transient. , 2011, , .		10
100	Fault Diagnosis in Induction Motors Using the Hilbert-Huang Transform. Nuclear Technology, 2011, 173, 26-34.	0.7	10
101	On the broken rotor bar diagnosis using timeâ€“frequency analysis: â€“Is one spectral representation enough for the characterisation of monitored signals?â€™. IET Electric Power Applications, 2019, 13, 932-942.	1.1	10
102	Fault Investigation of Circulation Pumps to Detect Impeller Clogging. Applied Sciences (Switzerland), 2020, 10, 7550.	1.3	10
103	Automatizing the broken bar detection process via short time Fourier transform and two-dimensional piecewise aggregate approximation representation. , 2014, , .		9
104	Reporting false indications of startup analysis when diagnosing damper damages in synchronous motors. , 2016, , .		9
105	Stray Flux Analysis for the Detection and Severity Categorization of Rotor Failures in Induction Machines Driven by Soft-Starters. Energies, 2021, 14, 5757.	1.6	9
106	Transient-based analysis for the detection of broken damper bars in synchronous motors. Mechanical Systems and Signal Processing, 2013, 34, 367-377.	4.4	8
107	Start-up analysis methods for the diagnosis of rotor asymmetries in induction motors-seeing is believing. , 2016, , .		8
108	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

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109	Electrical Monitoring of Damper Bar Condition in Salient Pole Synchronous Motors without Motor Disassembly. , 2019, , .		8
110	Current and Stray Flux Combined Analysis for the Automatic Detection of Rotor Faults in Soft-Started Induction Motors. Energies, 2022, 15, 2511.	1.6	8
111	Reliable detection of induction motor rotor faults under the rotor axial air duct influence. , 2013, , .		7
112	Influence of blade pass frequency vibrations on MCSA-based rotor fault detection of induction motors. , 2016, , .		7
113	Stray Flux Analysis for the Detection of Rotor Failures in Wound Rotor Induction Motors. , 2019, , .		7
114	Automatic Detection of Rotor Faults in Induction Motors by Convolutional Neural Networks applied to Stray Flux Signals. , 2021, , .		7
115	Power Quality Monitoring Strategy Based on an Optimized Multi-Domain Feature Selection for the Detection and Classification of Disturbances in Wind Generators. Electronics (Switzerland), 2022, 11, 287.	1.8	7
116	Experimental study of the evolution of a bar breakage process in a commercial induction machine. , 2008, , .		6
117	Bar breakage mechanism and prognosis in an induction motor. , 2013, , .		6
118	Transient-based rotor cage assessment in induction motors operating with soft-starters. , 2014, , .		6
119	A study of the harmonics introduced by soft-starters in the induction motor starting current using continuous time-frequency transforms. , 2015, , .		6
120	Influence of the Start-up System in the Diagnosis of Faults in the Rotor of Induction Motors using the Discrete Wavelet Transform. Procedia Computer Science, 2016, 83, 807-815.	1.2	6
121	Guest Editorial Special Section on Advanced Signal and Image Processing Techniques for Electric Machines and Drives Fault Diagnosis and Prognosis. IEEE Transactions on Industrial Informatics, 2017, 13, 1257-1260.	7.2	6
122	Evaluation of the detectability of rotor faults and eccentricities in induction motors via transient analysis of the stray flux. , 2017, , .		6
123	Laboratory experiments for the evaluation of the efficiency of induction motors operating under different electrical and mechanical faults. , 2019, , .		6
124	Wavelet entropy to estimate the winding insulation healthiness in induction motors. , 2019, , .		6
125	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
126	Tracking of High-Order Stray-Flux Harmonics Under Starting for the Detection of Winding Asymmetries in Wound-Rotor Induction Motors. IEEE Transactions on Industrial Electronics, 2022, 69, 8463-8471.	5.2	6

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127	Two Current-Based Methods for the Detection of Bearing and Impeller Faults in Variable Speed Pumps. Energies, 2021, 14, 4514.	1.6	6
128	Inter-turn Short Circuit Fault Identification of Salient Pole Synchronous Generators by Descriptive Paradigm. , 2021, , .		6
129	Evaluation of the Detectability of Damper Cage Damages in Synchronous Motors through the Advanced Analysis of the Stray Flux. , 2020, , .		6
130	Electrical Testing for Detection and Classification of Open Damper Bar and Shorted Field Winding Failures in Wound Field Synchronous Motors. IEEE Transactions on Industry Applications, 2022, 58, 4532-4541.	3.3	6
131	Transient diagnosis of induction generators via atom-based time-frequency transforms. , 2014, , .		5
132	A multi-label classification approach for the detection of broken bars and mixed eccentricity faults using the start-up transient. , 2016, , .		5
133	Design of innovative laboratory sessions for electric motors predictive maintenance teaching. , 2017, , .		5
134	Diagnosis of the rotor condition in electric motors operating in mining facilities through the analysis of motor currents. , 2017, , .		5
135	Savior: A Reliable Fault Resilient Router Architecture for Network-on-Chip. Electronics (Switzerland), 2020, 9, 1783.	1.8	5
136	Fault Diagnosis of Rotating Machine. Applied Sciences (Switzerland), 2020, 10, 1961.	1.3	5
137	Investigation of Factors Affecting Partial Discharges on Epoxy Resin: Simulation, Experiments, and Reference on Electrical Machines. Energies, 2021, 14, 6621.	1.6	5
138	Fault Detection in Soft-started Induction Motors using Convolutional Neural Network Enhanced by Data Augmentation Techniques. , 2021, , .		5
139	Determination of the Insulation Condition in Synchronous Generators: Industrial Methods and A Case Study. IEEE Industry Applications Magazine, 2022, 28, 67-77.	0.3	5
140	Triaxial Smart Sensor Based on the Advanced Analysis of Stray Flux and Currents for the Reliable Fault Detection in Induction Motors. , 2020, , .		5
141	Bispectrum Analysis of Stray Flux Signals for the Robust Detection of Winding Asymmetries in Wound Rotor Induction Motors. , 2020, , .		5
142	Comparative experimental investigation of broken bar fault detectability in induction motors. , 2015, , .		4
143	Combined model for simulating the effect of a heavy transient on a damaged rotor cage. , 2016, , .		4
144	Reliable detection of broken rotor bars in induction motors via MUSIC and ZSC methods. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
145	Detection of Bar Breakages in Induction Motor via Spectral Subtraction of Stray Flux Signals. , 2018, , .		4
146	Misalignment and rotor fault severity indicators based on the transient DWT analysis of stray flux signals. , 2019, , .		4
147	Detection of Adjacent and Non-Adjacent Bar Breakages in Induction Motors Based on Power Spectral Subtraction and Second Order Statistics of Sound Signals. Applied Sciences (Switzerland), 2020, 10, 6641.	1.3	4
148	Power Quality Disturbance Tracking Based on a Proprietary FPGA Sensor with GPS Synchronization. Sensors, 2021, 21, 3910.	2.1	4
149	Evaluation of the Damper Condition in Synchronous Motors Through the Analysis of the Transient Stray Fluxes and Currents Considering the Effect of the Remanent Magnetism. IEEE Transactions on Industry Applications, 2021, 57, 4665-4674.	3.3	4
150	STFT-based induction motor stray flux analysis for the monitoring of cutting tool wearing in CNC machines. , 2020, , .		4
151	Detection of Uniform Gearbox Wear in Induction Motors Based on the Analysis of Stray Flux Signals Through Statistical Time-Domain Features and Dimensionality Reduction Techniques. IEEE Transactions on Industry Applications, 2022, 58, 4648-4656.	3.3	4
152	Guest Editorial Special Section on Thermographic Analysis Technique for Monitoring and Diagnosis in Industrial Machines and Industrial Facilities. IEEE Transactions on Industrial Informatics, 2018, 14, 5539-5543.	7.2	3
153	Detection of Rotor and Impeller Faults in Wet-rotor Pumps. , 2020, , .		3
154	Static, Dynamic and Mixed Eccentricity Faults Detection of Synchronous Generators based on Advanced Pattern Recognition Algorithm. , 2021, , .		3
155	Three-States Fault Detection in Rolling Bearings of Induction Motors through the analysis of Stray Flux signals using the DWT. , 2021, , .		3
156	Infrared thermography image processing for the electromechanical fault detection on the kinematic chain. , 2021, , .		3
157	Designing Collaborative Working Laboratory Sessions for Induction Machine Fault Diagnosis Learning. International Journal of Electrical Engineering and Education, 2014, 51, 68-81.	0.4	2
158	Education in electric and electronic engineering via students involvement in innovative projects. , 2015, , .		2
159	Automatizing the detection of rotor failures in induction motors operated via soft-starters. , 2015, , .		2
160	Automation of the startup transient analysis of induction motors using a predictive stage. , 2015, , .		2
161	Processing tool for failure diagnosis based on isothermal representation for infrared-based fault detection in induction motors under transient state. , 2017, , .		2
162	Efficiency assessment of induction motors operating under different fault conditions. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
163	Multifractal Spectrum and Higher Order Statistics for the Detection of Field Winding Faults in Wound Field Synchronous Motors. , 2021, , .		2
164	Transient Stray Flux Analysis Via MUSIC Methods for the Detection of Uniform Gearbox Teeth Wear Faults. , 2021, , .		2
165	Case Histories in large motors: Diagnosis of electromechanical faults through extraction of characteristic components during the startup. , 2007, , .		1
166	Identification of the broken bar fault in induction motors with rotor air ducts through the torque spectrum. , 2014, , .		1
167	Evaluation of startup-based rotor fault severity indicators under different starting methods. , 2014, , .		1
168	Teaching electrical and electronic engineering to multi-cultural groups. , 2014, , .		1
169	Current variation in a rotor bar during transients due to a hot spot. , 2015, , .		1
170	Symbolic time series analysis of the soft starting transient in induction machines. , 2015, , .		1
171	Robust detection of rotor winding asymmetries in wound rotor induction motors via integral current analysis. , 2016, , .		1
172	2-D magnetomechanical transient simulation of a motor with a bar breakage. , 2017, , .		1
173	Transient analysis of the external magnetic field via MUSIC methods for the diagnosis of electromechanical faults in induction motors. , 2019, , .		1
174	Application of Transient Analysis to Detect Rotor and Stator Asymmetries in Wound Rotor Induction Motors: a Field Case. , 2021, , .		1
175	Application of Stray Flux Analysis for Rotor Fault Detection in Soft-Started Induction Motors. , 2021, , .		1
176	Detection of broken rotor bars in induction machines: An approach using wavelet packets in MCSA. , 2012, , .		0
177	Comparison of thermal stresses developed during transients on a damaged rotor cage. , 2017, , .		0
178	3-D simulation of a rotor suffering a bar breakage. , 2017, , .		0
179	Introduction to Special Issue on Symmetry in Mechanical Engineering. Symmetry, 2020, 12, 245.	1.1	0
180	Bispectrum and Kurtosis Analysis of Rotor Currents for the Detection of Field Winding Faults in Synchronous Motors. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
181	The 22nd IEEE International Conference on Industrial Technology [Society News]. IEEE Industrial Electronics Magazine, 2021, 15, 76-80.	2.3	0
182	Recent Educational Experiences in Electric Machine Maintenance Teaching. International Journal of Engineering Pedagogy, 2013, 3, 21.	0.7	0
183	Envelope Spectral Kurtosis and SVD Analysis of Stray Flux Signals for the Diagnosis of Field Winding Faults in Synchronous Motors. , 2021, , .		0
184	Online Condition Monitoring of Pumps based on Adapted Reference Frame Theory. , 2021, , .		0
185	Educational experiences on virtual teaching of electric motors condition monitoring courses. , 2021, , .		0