

# Jose Alfonso Antonino Daviu

## List of Publications by Year in descending order

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185  
papers

5,539  
citations

66315

42  
h-index

95218

68  
g-index

186  
all docs

186  
docs citations

186  
times ranked

2496  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Magnetic Flux Analysis for the Condition Monitoring of Electric Machines: A Review. IEEE Transactions on Industrial Informatics, 2022, 18, 2895-2908.	7.2	47
4	Advanced Fault Detection of Synchronous Generators Using Stray Magnetic Field. IEEE Transactions on Industrial Electronics, 2022, 69, 11675-11685.	5.2	16
5	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
6	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
7	Virtual Reality Training Application for the Condition-Based Maintenance of Induction Motors. Applied Sciences (Switzerland), 2022, 12, 414.	1.3	13
8	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
9	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
10	Advances in Power Quality Analysis Techniques for Electrical Machines and Drives: A Review. Energies, 2022, 15, 1909.	1.6	12
11	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
12	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
13	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
14	Automatic Detection of Rotor Faults in Induction Motors by Convolutional Neural Networks applied to Stray Flux Signals. , 2021, , .		7
15	Bispectrum and Kurtosis Analysis of Rotor Currents for the Detection of Field Winding Faults in Synchronous Motors. , 2021, , .		0
16	Application of Transient Analysis to Detect Rotor and Stator Asymmetries in Wound Rotor Induction Motors: a Field Case. , 2021, , .		1
17	Power Quality Disturbance Tracking Based on a Proprietary FPGA Sensor with GPS Synchronization. Sensors, 2021, 21, 3910.	2.1	4
18	The 22nd IEEE International Conference on Industrial Technology [Society News]. IEEE Industrial Electronics Magazine, 2021, 15, 76-80.	2.3	0

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19	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
20	Two Current-Based Methods for the Detection of Bearing and Impeller Faults in Variable Speed Pumps. Energies, 2021, 14, 4514.	1.6	6
21	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
22	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
23	Fault Detection of Circulation Pumps on the Basis of Motor Current Evaluation. IEEE Transactions on Industry Applications, 2021, 57, 4617-4624.	3.3	17
24	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
25	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
26	Empirical Assessment of Machine Learning Techniques for Software Requirements Risk Prediction. Electronics (Switzerland), 2021, 10, 168.	1.8	11
27	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
28	Multifractal Spectrum and Higher Order Statistics for the Detection of Field Winding Faults in Wound Field Synchronous Motors. , 2021, , .		2
29	Investigation of Factors Affecting Partial Discharges on Epoxy Resin: Simulation, Experiments, and Reference on Electrical Machines. Energies, 2021, 14, 6621.	1.6	5
30	Envelope Spectral Kurtosis and SVD Analysis of Stray Flux Signals for the Diagnosis of Field Winding Faults in Synchronous Motors. , 2021, , .		0
31	Static, Dynamic and Mixed Eccentricity Faults Detection of Synchronous Generators based on Advanced Pattern Recognition Algorithm. , 2021, , .		3
32	Online Condition Monitoring of Pumps based on Adapted Reference Frame Theory. , 2021, , .		0
33	Three-States Fault Detection in Rolling Bearings of Induction Motors through the analysis of Stray Flux signals using the DWT. , 2021, , .		3
34	Inter-turn Short Circuit Fault Identification of Salient Pole Synchronous Generators by Descriptive Paradigm. , 2021, , .		6
35	Fault Detection in Soft-started Induction Motors using Convolutional Neural Network Enhanced by Data Augmentation Techniques. , 2021, , .		5
36	Infrared thermography image processing for the electromechanical fault detection on the kinematic chain. , 2021, , .		3

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37	Educational experiences on virtual teaching of electric motors condition monitoring courses. , 2021, , .		0
38	Application of Stray Flux Analysis for Rotor Fault Detection in Soft-Started Induction Motors. , 2021, , .		1
39	Transient Stray Flux Analysis Via MUSIC Methods for the Detection of Uniform Gearbox Teeth Wear Faults. , 2021, , .		2
40	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
41	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
42	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
43	Mechanical Pressure Characterization of CNT-Graphene Composite Material. Micromachines, 2020, 11, 1000.	1.4	11
44	Electrical Monitoring under Transient Conditions: A New Paradigm in Electric Motors Predictive Maintenance. Applied Sciences (Switzerland), 2020, 10, 6137.	1.3	26
45	Waste Management and Prediction of Air Pollutants Using IoT and Machine Learning Approach. Energies, 2020, 13, 3930.	1.6	57
46	Detection of Rotor and Impeller Faults in Wet-rotor Pumps. , 2020, , .		3
47	Fault Investigation of Circulation Pumps to Detect Impeller Clogging. Applied Sciences (Switzerland), 2020, 10, 7550.	1.3	10
48	Savior: A Reliable Fault Resilient Router Architecture for Network-on-Chip. Electronics (Switzerland), 2020, 9, 1783.	1.8	5
49	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
50	Fault Diagnosis of Rotating Machine. Applied Sciences (Switzerland), 2020, 10, 1961.	1.3	5
51	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
52	Introduction to Special Issue on Symmetry in Mechanical Engineering. Symmetry, 2020, 12, 245.	1.1	0
53	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
54	Condition Monitoring of Industrial Electric Machines: State of the Art and Future Challenges. IEEE Industrial Electronics Magazine, 2020, 14, 158-167.	2.3	90

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55	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
56	Triaxial Smart Sensor Based on the Advanced Analysis of Stray Flux and Currents for the Reliable Fault Detection in Induction Motors. , 2020, , .		5
57	STFT-based induction motor stray flux analysis for the monitoring of cutting tool wearing in CNC machines. , 2020, , .		4
58	Evaluation of the Detectability of Damper Cage Damages in Synchronous Motors through the Advanced Analysis of the Stray Flux. , 2020, , .		6
59	Bispectrum Analysis of Stray Flux Signals for the Robust Detection of Winding Asymmetries in Wound Rotor Induction Motors. , 2020, , .		5
60	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
61	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
62	FEM approach for diagnosis of induction machines' nonâ€“adjacent broken rotor bars by shortâ€“time Fourier transform spectrogram. Journal of Engineering, 2019, 2019, 4566-4570.	0.6	13
63	Electrical Monitoring of Damper Bar Condition in Salient Pole Synchronous Motors without Motor Disassembly. , 2019, , .		8
64	Transient analysis of the external magnetic field via MUSIC methods for the diagnosis of electromechanical faults in induction motors. , 2019, , .		1
65	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
66	Smart-Sensors to Estimate Insulation Health in Induction Motors via Analysis of Stray Flux. Energies, 2019, 12, 1658.	1.6	17
67	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
68	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
69	Stray Flux Analysis for the Detection of Rotor Failures in Wound Rotor Induction Motors. , 2019, , .		7
70	Laboratory experiments for the evaluation of the efficiency of induction motors operating under different electrical and mechanical faults. , 2019, , .		6
71	Wavelet entropy to estimate the winding insulation healthiness in induction motors. , 2019, , .		6
72	Misalignment and rotor fault severity indicators based on the transient DWT analysis of stray flux signals. , 2019, , .		4

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73	Efficiency Assessment of Induction Motors Operating Under Different Faulty Conditions. IEEE Transactions on Industrial Electronics, 2019, 66, 8072-8081.	5.2	30
74	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
75	Recent Industrial Applications of Infrared Thermography: A Review. IEEE Transactions on Industrial Informatics, 2019, 15, 615-625.	7.2	112
76	2-D Magnetomechanical Transient Study of a Motor Suffering a Bar Breakage. IEEE Transactions on Industry Applications, 2018, 54, 2097-2104.	3.3	13
77	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
78	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
79	Detection of Induction Motor Coupling Unbalanced and Misalignment via Advanced Transient Current Signature Analysis. , 2018, , .		22
80	Detection of Bar Breakages in Induction Motor via Spectral Subtraction of Stray Flux Signals. , 2018, , .		4
81	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
82	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
83	Efficiency assessment of induction motors operating under different fault conditions. , 2018, , .		2
84	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
85	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
86	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
87	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
88	Introducing the Filtered Park <sup>™</sup> s and Filtered Extended Park <sup>™</sup> 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
89	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
90	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

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91	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
92	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
93	2-D magnetomechanical transient simulation of a motor with a bar breakage. , 2017, , .		1
94	Comparison of thermal stresses developed during transients on a damaged rotor cage. , 2017, , .		0
95	Evaluation of the detectability of rotor faults and eccentricities in induction motors via transient analysis of the stray flux. , 2017, , .		6
96	Design of innovative laboratory sessions for electric motors predictive maintenance teaching. , 2017, , .		5
97	Detection of rotor faults via transient analysis of the external magnetic field. , 2017, , .		14
98	Diagnosis of the rotor condition in electric motors operating in mining facilities through the analysis of motor currents. , 2017, , .		5
99	3-D simulation of a rotor suffering a bar breakage. , 2017, , .		0
100	Processing tool for failure diagnosis based on isothermal representation for infrared-based fault detection in induction motors under transient state. , 2017, , .		2
101	Influence of blade pass frequency vibrations on MCSA-based rotor fault detection of induction motors. , 2016, , .		7
102	A multi-label classification approach for the detection of broken bars and mixed eccentricity faults using the start-up transient. , 2016, , .		5
103	Robust detection of rotor winding asymmetries in wound rotor induction motors via integral current analysis. , 2016, , .		1
104	Combined model for simulating the effect of a heavy transient on a damaged rotor cage. , 2016, , .		4
105	Self-adjustment methodology of a thermal camera for detecting faults in industrial machinery. , 2016, , .		11
106	Reporting false indications of startup analysis when diagnosing damper damages in synchronous motors. , 2016, , .		9
107	Start-up analysis methods for the diagnosis of rotor asymmetries in induction motors-seeing is believing. , 2016, , .		8
108	Reliable detection of broken rotor bars in induction motors via MUSIC and ZSC methods. , 2016, , .		4

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109	Case stories of induction motors fault diagnosis based on current analysis. , 2016, , .		12
110	Advanced Rotor Fault Diagnosis for Medium-Voltage Induction Motors Via Continuous Transforms. IEEE Transactions on Industry Applications, 2016, 52, 4503-4509.	3.3	29
111	Pursuing optimal electric machines transient diagnosis: The adaptive slope transform. Mechanical Systems and Signal Processing, 2016, 80, 553-569.	4.4	28
112	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
113	Reliable detection of induction motor rotor faults under the influence of rotor core magnetic anisotropy. , 2015, , .		11
114	Comparative influence of adjacent and non-adjacent broken rotor bars on the induction motor diagnosis through MCSA and ZSC methods. , 2015, , .		24
115	Education in electric and electronic engineering via students involvement in innovative projects. , 2015, , .		2
116	Current variation in a rotor bar during transients due to a hot spot. , 2015, , .		1
117	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
118	Automatizing the detection of rotor failures in induction motors operated via soft-starters. , 2015, , .		2
119	Comparative Experimental Investigation of the Broken Bar Fault Detectability in Induction Motors. IEEE Transactions on Industry Applications, 2015, , 1-1.	3.3	24
120	Comparative experimental investigation of broken bar fault detectability in induction motors. , 2015, , .		4
121	Rotor-Bar Breakage Mechanism and Prognosis in an Induction Motor. IEEE Transactions on Industrial Electronics, 2015, 62, 1814-1825.	5.2	48
122	Modern Diagnostics Techniques for Electrical Machines, Power Electronics, and Drives. IEEE Transactions on Industrial Electronics, 2015, 62, 1738-1745.	5.2	85
123	Combination of Noninvasive Approaches for General Assessment of Induction Motors. IEEE Transactions on Industry Applications, 2015, 51, 2172-2180.	3.3	63
124	Outer race bearing fault detection in induction machines using stator current signals. , 2015, , .		18
125	A study of the harmonics introduced by soft-starters in the induction motor starting current using continuous time-frequency transforms. , 2015, , .		6
126	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



#	ARTICLE	IF	CITATIONS
127	Symbolic time series analysis of the soft starting transient in induction machines. , 2015, , .		1
128	Transient-Based Rotor Cage Assessment in Induction Motors Operating With Soft Starters. IEEE Transactions on Industry Applications, 2015, 51, 3734-3742.	3.3	28
129	Automation of the startup transient analysis of induction motors using a predictive stage. , 2015, , .		2
130	Comparison of different wavelet families for broken bar detection in induction motors. , 2015, , .		14
131	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
132	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
133	An automated thermographic image segmentation method for induction motor fault diagnosis. , 2014, , .		28
134	Identification of the broken bar fault in induction motors with rotor air ducts through the torque spectrum. , 2014, , .		1
135	Automatizing the broken bar detection process via short time Fourier transform and two-dimensional piecewise aggregate approximation representation. , 2014, , .		9
136	Advanced rotor assessment of motors operating under variable load conditions in mining facilities. , 2014, , .		18
137	Evaluation of startup-based rotor fault severity indicators under different starting methods. , 2014, , .		1
138	Transient diagnosis of induction generators via atom-based time-frequency transforms. , 2014, , .		5
139	Transient-based rotor cage assessment in induction motors operating with soft-starters. , 2014, , .		6
140	Teaching electrical and electronic engineering to multi-cultural groups. , 2014, , .		1
141	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
142	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
143	Reliable detection of rotor bar failures in induction motors operating in petrochemical plants. , 2014, , .		28
144	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

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145	Stator current demodulation for induction machine rotor faults diagnosis. , 2014, , .		19
146	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
147	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
148	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
149	Vibration Transient Detection of Broken Rotor Bars by PSH Sidebands. IEEE Transactions on Industry Applications, 2013, 49, 2576-2582.	3.3	58
150	Bar breakage mechanism and prognosis in an induction motor. , 2013, , .		6
151	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
152	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
153	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
154	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
155	Reliable detection of induction motor rotor faults under the rotor axial air duct influence. , 2013, , .		7
156	Application of the Teagerâ€œKaiser Energy Operator to the Fault Diagnosis of Induction Motors. IEEE Transactions on Energy Conversion, 2013, 28, 1036-1044.	3.7	100
157	An intelligent icons approach for rotor bar fault detection. , 2013, , .		14
158	Recent Educational Experiences in Electric Machine Maintenance Teaching. International Journal of Engineering Pedagogy, 2013, 3, 21.	0.7	0
159	Detection of broken rotor bars in induction machines: An approach using wavelet packets in MCSA. , 2012, , .		0
160	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
161	Application of the Wignerâ€œVille distribution for the detection of rotor asymmetries and eccentricity through high-order harmonics. Electric Power Systems Research, 2012, 91, 28-36.	2.1	62
162	Toward Condition Monitoring of Damper Windings in Synchronous Motors via EMD Analysis. IEEE Transactions on Energy Conversion, 2012, 27, 432-439.	3.7	37

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163	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
164	Detection of broken outer cage bars for double cage induction motors under the startup transient. , 2011, , .		10
165	An EMD-based invariant feature extraction algorithm for rotor bar condition monitoring. , 2011, , .		17
166	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
167	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
168	Fault Diagnosis in Induction Motors Using the Hilbert-Huang Transform. Nuclear Technology, 2011, 173, 26-34.	0.7	10
169	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
170	Diagnosis of Induction Motor Faults in the Fractional Fourier Domain. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2065-2075.	2.4	89
171	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
172	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
173	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
174	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
175	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
176	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
177	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
178	Air-gap force distribution and vibration pattern of Induction motors under dynamic eccentricity. Electrical Engineering, 2008, 90, 209-218.	1.2	50
179	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
180	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

#	ARTICLE	IF	CITATIONS
181	Experimental study of the evolution of a bar breakage process in a commercial induction machine. , 2008, , .		6
182	Case Histories in large motors: Diagnosis of electromechanical faults through extraction of characteristic components during the startup. , 2007, , .		1
183	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
184	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
185	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