

Xiaoan Yan

List of Publications by Year in descending order

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37
papers

1,918
citations

279798

23
h-index

345221

36
g-index

37
all docs

37
docs citations

37
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel optimized SVM classification algorithm with multi-domain feature and its application to fault diagnosis of rolling bearing. <i>Neurocomputing</i> , 2018, 313, 47-64.	5.9	365
2	Intelligent fault diagnosis of rotating machinery using improved multiscale dispersion entropy and mRMR feature selection. <i>Knowledge-Based Systems</i> , 2019, 163, 450-471.	7.1	185
3	Application of CSA-VMD and optimal scale morphological slice bispectrum in enhancing outer race fault detection of rolling element bearings. <i>Mechanical Systems and Signal Processing</i> , 2019, 122, 56-86.	8.0	138
4	Compound fault diagnosis of rotating machinery based on OVMD and a 1.5-dimension envelope spectrum. <i>Measurement Science and Technology</i> , 2016, 27, 075002.	2.6	100
5	Multiscale cascading deep belief network for fault identification of rotating machinery under various working conditions. <i>Knowledge-Based Systems</i> , 2020, 193, 105484.	7.1	95
6	Multistep forecasting for diurnal wind speed based on hybrid deep learning model with improved singular spectrum decomposition. <i>Energy Conversion and Management</i> , 2020, 225, 113456.	9.2	83
7	Fault diagnosis of rolling element bearing using a new optimal scale morphology analysis method. <i>ISA Transactions</i> , 2018, 73, 165-180.	5.7	72
8	A new wind turbine fault diagnosis method based on ensemble intrinsic time-scale decomposition and WPT-fractal dimension. <i>Renewable Energy</i> , 2015, 83, 767-778.	8.9	66
9	Multichannel fault diagnosis of wind turbine driving system using multivariate singular spectrum decomposition and improved Kolmogorov complexity. <i>Renewable Energy</i> , 2021, 170, 724-748.	8.9	66
10	Deep regularized variational autoencoder for intelligent fault diagnosis of rotor-bearing system within entire life-cycle process. <i>Knowledge-Based Systems</i> , 2021, 226, 107142.	7.1	60
11	Rolling Bearing Fault Diagnosis Based on VMD-MPE and PSO-SVM. <i>Entropy</i> , 2021, 23, 762.	2.2	56
12	Detecting Defects on Solid Wood Panels Based on an Improved SSD Algorithm. <i>Sensors</i> , 2020, 20, 5315.	3.8	52
13	Research on an enhanced scale morphological-hat product filtering in incipient fault detection of rolling element bearings. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 147, 106856.	5.0	50
14	Global contextual residual convolutional neural networks for motor fault diagnosis under variable-speed conditions. <i>Reliability Engineering and System Safety</i> , 2022, 225, 108618.	8.9	42
15	Health condition identification for rolling bearing using a multi-domain indicator-based optimized stacked denoising autoencoder. <i>Structural Health Monitoring</i> , 2020, 19, 1602-1626.	7.5	41
16	Research on a Novel Improved Adaptive Variational Mode Decomposition Method in Rotor Fault Diagnosis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1696.	2.5	39
17	A novel intelligent detection method for rolling bearing based on IVMD and instantaneous energy distribution-permutation entropy. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 130, 435-447.	5.0	38
18	Multireceptive Field Denoising Residual Convolutional Networks for Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 11686-11696.	7.9	34

#	ARTICLE	IF	CITATIONS
19	Attention-based multiscale denoising residual convolutional neural networks for fault diagnosis of rotating machinery. <i>Reliability Engineering and System Safety</i> , 2022, 226, 108714.	8.9	33
20	A Feature Selection Framework-Based Multiscale Morphological Analysis Algorithm for Fault Diagnosis of Rolling Element Bearing. <i>IEEE Access</i> , 2019, 7, 123436-123452.	4.2	29
21	A new approach to health condition identification of rolling bearing using hierarchical dispersion entropy and improved Laplacian score. <i>Structural Health Monitoring</i> , 2021, 20, 1169-1195.	7.5	29
22	Stationary subspaces-vector autoregressive with exogenous terms methodology for degradation trend estimation of rolling and slewing bearings. <i>Mechanical Systems and Signal Processing</i> , 2021, 150, 107293.	8.0	28
23	A Multi-Stage Hybrid Fault Diagnosis Approach for Rolling Element Bearing Under Various Working Conditions. <i>IEEE Access</i> , 2019, 7, 138426-138441.	4.2	25
24	A new bearing weak fault diagnosis method based on improved singular spectrum decomposition and frequency-weighted energy slice bispectrum. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 166, 108235.	5.0	25
25	A Fault Diagnosis Approach for Rolling Bearing Integrated SGMD, IMSDE and Multiclass Relevance Vector Machine. <i>Sensors</i> , 2020, 20, 4352.	3.8	22
26	Improved singular spectrum decomposition-based 1.5-dimensional energy spectrum for rotating machinery fault diagnosis. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	18
27	Application of Generalized Composite Multiscale Lempel-Ziv Complexity in Identifying Wind Turbine Gearbox Faults. <i>Entropy</i> , 2021, 23, 1372.	2.2	17
28	Fault Diagnosis of Rolling-Element Bearing Using Multiscale Pattern Gradient Spectrum Entropy Coupled with Laplacian Score. <i>Complexity</i> , 2020, 2020, 1-29.	1.6	16
29	A Bearing Fault Diagnosis Method Based on PAVME and MEDE. <i>Entropy</i> , 2021, 23, 1402.	2.2	16
30	A self-adaptive time-frequency analysis method based on local mean decomposition and its application in defect diagnosis. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 1049-1061.	2.6	15
31	Reliable Fault Diagnosis of Bearings Using an Optimized Stacked Variational Denoising Auto-Encoder. <i>Entropy</i> , 2022, 24, 36.	2.2	15
32	Intelligent Fault Diagnosis of Rolling-Element Bearings Using a Self-Adaptive Hierarchical Multiscale Fuzzy Entropy. <i>Entropy</i> , 2021, 23, 1128.	2.2	14
33	A bearing fault feature extraction method based on optimized singular spectrum decomposition and linear predictor. <i>Measurement Science and Technology</i> , 2021, 32, 115023.	2.6	11
34	Weighted sparsity-based denoising for extracting incipient fault in rolling bearing. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 4557-4567.	1.5	10
35	Hierarchical Multiscale Dense Networks for Intelligent Fault Diagnosis of Electromechanical Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-12.	4.7	10
36	A gearbox fault feature extraction method based on wingsuit flying search algorithm-optimized orthogonal matching pursuit with a compound time-frequency atom dictionary. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 4825.	1.5	2

#	ARTICLE	IF	CITATIONS
37	A Novel Intelligent Fault Detection Scheme for Rolling Bearing Based on Morphological Multiscale Dispersion Entropy. , 2018, , .		1