

# Xue-Feng Chen

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2456904/xue-feng-chen-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

231  
papers

8,331  
citations

45  
h-index

86  
g-index

257  
ext. papers

10,612  
ext. citations

4.7  
avg, IF

6.99  
L-index

#	Paper	IF	Citations
231	The emerging graph neural networks for intelligent fault diagnostics and prognostics: A guideline and a benchmark study. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 168, 108653	7.8	7
230	Blade dynamic strain non-intrusive measurement using L1/2-norm regularization and transmissibility. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 110677	4.6	1
229	A transferable lithium-ion battery remaining useful life prediction method from cycle-consistency of degradation trend. <i>Journal of Power Sources</i> , <b>2022</b> , 521, 230975	8.9	2
228	A hybrid denoising model using deep learning and sparse representation with application in bearing weak fault diagnosis. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 189, 110633	4.6	0
227	Impact force reconstruction and localization using nonconvex overlapping group sparsity. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 162, 107983	7.8	9
226	FRF-based lamb wave phased array. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 166, 108462	7.8	9
225	Blade Tip Timing Signal Filtering Method Based on Sampling Aliasing Frequency Map. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-12	5.2	1
224	AR model-based crosstalk cancellation method for operational transfer path analysis. <i>Journal of Mechanical Science and Technology</i> , <b>2022</b> , 36, 1131-1144	1.6	0
223	Task-incremental broad learning system for multi-component intelligent fault diagnosis of machinery. <i>Knowledge-Based Systems</i> , <b>2022</b> , 108730	7.3	2
222	Short-time consistent domain adaptation for rolling bearing fault diagnosis under varying working conditions. <i>Measurement Science and Technology</i> , <b>2022</b> , 33, 075105	2	
221	Optimization and assessment of blade tip timing probe layout with concrete autoencoder and reconstruction error. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 119, 108590	7.5	2
220	Rotating blade frequency identification by single-probe blade tip timing. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 172, 108961	7.8	3
219	Focusing phase imaging for Lamb wave phased array. <i>Smart Materials and Structures</i> , <b>2022</b> , 31, 025001	3.4	1
218	Bi-probes Blade Tip Timing method for Frequency Identification Based on Active Aliasing Time Delay Estimation and De-aliasing. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	0
217	Construction of health indicators for condition monitoring of rotating machinery: A review of the research. <i>Expert Systems With Applications</i> , <b>2022</b> , 203, 117297	7.8	1
216	Feature Enhancement Based on Regular Sparse Model for Planetary Gearbox Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	2
215	Intelligent Fault Diagnosis with Multi-scale Convolutional Dense Network. <i>Journal of Physics: Conference Series</i> , <b>2022</b> , 2184, 012009	0.3	

214	Automatic tracking of natural frequency in the time-frequency domain for blade tip timing. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 516, 116522	3.9	1
213	Model-based detection of soft faults using the smoothed residual for a control system. <i>Measurement Science and Technology</i> , <b>2021</b> , 32, 015107	2	3
212	Cascade Convolutional Neural Network With Progressive Optimization for Motor Fault Diagnosis Under Nonstationary Conditions. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 2511-2521	11.9	20
211	Low-dimensional multi-scale Fisher discriminant dictionary learning for intelligent gear-fault diagnosis. <i>Measurement Science and Technology</i> , <b>2021</b> , 32, 084001	2	0
210	Robust sparse representation model for blade tip timing. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 500, 116028	9.9	4
209	Challenges and Opportunities of AI-Enabled Monitoring, Diagnosis & Prognosis: A Review. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2021</b> , 34,	2.5	11
208	Steady-state coupling vibration analysis of shaft-disk-blade system with blade crack. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 61-98	5	3
207	An enhanced adaptive notch filtering method for online multi-frequency estimation from contaminated signals of a mechanical control system. <i>Measurement Science and Technology</i> , <b>2021</b> , 32, 105102	2	1
206	Conditional Adversarial Domain Adaptation With Discrimination Embedding for Locomotive Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	13
205	Low-rank enhanced convolutional sparse feature detection for accurate diagnosis of gearbox faults. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 150, 107215	7.8	6
204	Robust enhanced trend filtering with unknown noise. <i>Signal Processing</i> , <b>2021</b> , 180, 107889	4.4	2
203	An Intelligent Fault Diagnosis Method Based on Domain Adaptation and Its Application for Bearings Under Polytropic Working Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-14	5.2	16
202	Ridge-Aware Weighted Sparse Time-Frequency Representation. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 136-149	4.8	12
201	Faster Multiscale Dictionary Learning Method With Adaptive Parameter Estimation for Fault Diagnosis of Traction Motor Bearings. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13	5.2	3
200	Blade Crack Detection Using Blade Tip Timing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	2
199	Deep-Learning-Based Open Set Fault Diagnosis by Extreme Value Theory. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	15
198	Applications of Unsupervised Deep Transfer Learning to Intelligent Fault Diagnosis: A Survey and Comparative Study. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	40
197	A multi-source dense adaptation adversarial network for fault diagnosis of machinery. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	10

196	Domain Adversarial Graph Convolutional Network for Fault Diagnosis Under Variable Working Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-10	5.2	21
195	Subspace Dimension Reduction for Faster Multiple Signal Classification in Blade Tip Timing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	1
194	Adaptive Robust Noise Modeling of Sparse Representation for Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	9
193	A Novel Multiscale Lightweight Fault Diagnosis Model Based on the Idea of Adversarial Learning. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-15	5.2	2
192	Nonlinear dynamic behavior of rotating blade with breathing crack. <i>Frontiers of Mechanical Engineering</i> , <b>2021</b> , 16, 196-220	3.3	5
191	Memory Residual Regression Autoencoder for Bearing Fault Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	3
190	Conditional Adversarial Domain Generalization With a Single Discriminator for Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-15	5.2	10
189	Collaborative Double Sparse Period-Group Lasso for Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-10	5.2	5
188	Sparse representation theory for support vector machine kernel function selection and its application in high-speed bearing fault diagnosis. <i>ISA Transactions</i> , <b>2021</b> , 118, 207-218	5.5	11
187	Reweighted generalized minimax-concave sparse regularization for duct acoustic mode detection with adaptive threshold. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 506, 116165	3.9	1
186	Adaptive neighborhood selection based on locally linear embedding for the degradation index construction of traction motor bearing. <i>Measurement Science and Technology</i> , <b>2021</b> , 32, 115123	2	1
185	Frequency Hoyer attention based convolutional neural network for remaining useful life prediction of machinery. <i>Measurement Science and Technology</i> , <b>2021</b> , 32, 125108	2	0
184	Crack propagation mechanism of titanium nano-bicrystal: a molecular dynamics study. <i>European Physical Journal B</i> , <b>2021</b> , 94, 1	1.2	0
183	A CUSTOMIZED SCHEME OF CROSSTALK CANCELLATION FOR OPERATIONAL TRANSFER PATH ANALYSIS AND EXPERIMENTAL VALIDATION. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 116506	3.9	0
182	A deep sequence multi-distribution adversarial model for bearing abnormal condition detection. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 182, 109529	4.6	0
181	Hierarchical attention graph convolutional network to fuse multi-sensor signals for remaining useful life prediction. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 215, 107878	6.3	16
180	Sparse reconstruction for blade tip timing signal using generalized minimax-concave penalty. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 161, 107961	7.8	2
179	Learning from Class-imbalanced Data with a Model-Agnostic Framework for Machine Intelligent Diagnosis. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 216, 107934	6.3	9

178	Convolutional plug-and-play sparse optimization for impulsive blind deconvolution. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 161, 107877	7.8	3
177	Terahertz nondestructive quantitative characterization for layer thickness based on sparse representation method. <i>NDT and E International</i> , <b>2021</b> , 124, 102536	4.1	2
176	Multireceptive Field Graph Convolutional Networks for Machine Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 12739-12749	8.9	38
175	Cyclostationary Analysis of Irregular Statistical Cyclicity and Extraction of Rotating Speed for Bearing Diagnostics With Speed Fluctuations. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	6
174	WaveletKernelNet: An Interpretable Deep Neural Network for Industrial Intelligent Diagnosis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-11	7.3	25
173	Bayesian Differentiable Architecture Search for Efficient Domain Matching Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	5
172	Adaptive Broad Learning System for High-Efficiency Fault Diagnosis of Rotating Machinery. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	5
171	Fast Sparsity-Assisted Signal Decomposition with Non-Convex Enhancement for Bearing Fault Diagnosis. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-1	5.5	5
170	An OPR-Free Blade Tip Timing Method for Rotating Blade Condition Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	2
169	Adaptive Iterative Approach for Efficient Signal Processing of Blade Tip Timing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13	5.2	1
168	Intelligent Fault Diagnosis for Planetary Gearbox Using Time-Frequency Representation and Deep Reinforcement Learning. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-1	5.5	3
167	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-16	5.2	2
166	A Novel Approach of Label Construction for Predicting Remaining Useful Life of Machinery. <i>Shock and Vibration</i> , <b>2021</b> , 2021, 1-14	1.1	0
165	Rewighted generalized minimax-concave sparse regularization and application in machinery fault diagnosis. <i>ISA Transactions</i> , <b>2020</b> , 105, 320-334	5.5	14
164	Nonnegative Bounded Convolutional Sparse Learning Method for Envelope Feature Deconvolution. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 8666-8679	5.2	8
163	An Improved Multiple Signal Classification for Nonuniform Sampling in Blade Tip Timing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7941-7952	5.2	24
162	Adaptive Channel Weighted CNN With Multisensor Fusion for Condition Monitoring of Helicopter Transmission System. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 8364-8373	4	22
161	Underdetermined convolutive blind source separation in the time-frequency domain based on single source points and experimental validation. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 095001		6

160	Non-convex sparse regularization for impact force identification. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 477, 115311	3.9	14
159	A Hybrid Fault Diagnosis Approach for Blade Crack Detection using Blade Tip Timing <b>2020</b> ,		3
158	Impact force identification via sparse regularization with generalized minimax-concave penalty. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 484, 115530	3.9	5
157	Sparsity-Assisted Fault Feature Enhancement: Algorithm-Aware Versus Model-Aware. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7004-7014	5.2	7
156	Fault-Attention Generative Probabilistic Adversarial Autoencoder for Machine Anomaly Detection. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 7479-7488	11.9	33
155	Operational transfer path analysis with crosstalk cancellation using independent component analysis. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 473, 115224	3.9	4
154	An Adaptive Online Blade Health Monitoring Method: From Raw Data to Parameters Identification. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 2581-2592	5.2	22
153	Influence of Sliding Friction on the Dynamic Characteristics of a Planetary Gear Set With the Improved Time-Varying Mesh Stiffness. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2020</b> , 142,	3	6
152	Differentiable Architecture Search for Aeroengine Bevel Gear Fault Diagnosis <b>2020</b> ,		6
151	Knowledge Transfer for Rotary Machine Fault Diagnosis. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 8374-8393	4	87
150	Collaborative sparse classification for aero-engine gear hub crack diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 141, 106426	7.8	6
149	An accurate and reliable operational transfer path analysis for transfer path contribution evaluation based on Landweber iterative method. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 025102		1
148	Cyclostationary modeling for local fault diagnosis of planetary gear vibration signals. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 471, 115175	3.9	19
147	Aero-engine bearing fault detection: A clustering low-rank approach. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 138, 106529	7.8	14
146	A Reinforced k-Nearest Neighbors Method With Application to Chatter Identification in High-Speed Milling. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 10844-10855	8.9	14
145	Deep learning algorithms for rotating machinery intelligent diagnosis: An open source benchmark study. <i>ISA Transactions</i> , <b>2020</b> , 107, 224-255	5.5	83
144	Frequency domain spline adaptive filters. <i>Signal Processing</i> , <b>2020</b> , 177, 107752	4.4	8
143	Few-shot transfer learning for intelligent fault diagnosis of machine. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 166, 108202	4.6	46

142	Generalized Gaussian Noise Distribution Enabled Sparse Representation Model for Bearing Fault Diagnosis <b>2020</b> ,		5
141	The sparse and low-rank interpretation of SVD-based denoising for vibration signals <b>2020</b> ,		2
140	Dynamic modeling of planetary gear set with tooth surface wear. <i>Procedia Manufacturing</i> , <b>2020</b> , 49, 49-54	5	4
139	Multi-scale CNN for Multi-sensor Feature Fusion in Helical Gear Fault Detection. <i>Procedia Manufacturing</i> , <b>2020</b> , 49, 89-93	1.5	6
138	An OPR-free Blade Tip Timing Method Based on Blade Spacing Change <b>2020</b> ,		4
137	Interpreting network knowledge with attention mechanism for bearing fault diagnosis. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 97, 106829	7.5	29
136	Hierarchical hyper-Laplacian prior for weak fault feature enhancement. <i>ISA Transactions</i> , <b>2020</b> , 96, 429-443	4.3	12
135	Sparse Multiperiod Group Lasso for Bearing Multifault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 419-431	5.2	15
134	Sparsity-assisted bearing fault diagnosis using multiscale period group lasso. <i>ISA Transactions</i> , <b>2020</b> , 98, 338-348	5.5	10
133	Composite-Graph-Based Sparse Subspace Clustering for Machine Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 1850-1859	5.2	18
132	Effect of angular misalignment on the dynamic characteristics of externally pressurized air journal bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2020</b> , 234, 205-228	1.4	4
131	A parameter estimation based sparse representation approach for mode separation and dispersion compensation of Lamb waves in isotropic plate. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 035020	3.4	16
130	Ensemble deep learning with multi-objective optimization for prognosis of rotating machinery. <i>ISA Transactions</i> , <b>2020</b> , 113, 166-166	5.5	9
129	Blade Tip Timing: from Raw Data to Parameters Identification <b>2019</b> ,		4
128	Nonnegative bounded convolutional sparsity learning algorithm for envelope blind deconvolution <b>2019</b> ,		1
127	Data-driven multiscale sparse representation for bearing fault diagnosis in wind turbine. <i>Wind Energy</i> , <b>2019</b> , 22, 587-604	3.4	5
126	Sparse estimation of propagation distances in Lamb wave inspection. <i>Measurement Science and Technology</i> , <b>2019</b> , 30, 055601	2	8
125	Analysis and Modelling of Non-Fourier Heat Behavior Using the Wavelet Finite Element Method. <i>Materials</i> , <b>2019</b> , 12,	3.5	3

124	A Deep Coupled Network for Health State Assessment of Cutting Tools Based on Fusion of Multisensory Signals. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 6415-6424	11.9	24
123	A Quantitative Intelligent Diagnosis Method for Early Weak Faults of Aviation High-speed Bearings. <i>ISA Transactions</i> , <b>2019</b> , 93, 370-383	5.5	5
122	Fast Nonlinear Chirplet Dictionary-Based Sparse Decomposition for Rotating Machinery Fault Diagnosis Under Nonstationary Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 4736-4745	5.2	5
121	Synthesis versus analysis priors via generalized minimax-concave penalty for sparsity-assisted machinery fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 127, 202-233	7.8	28
120	An enhanced sparse regularization method for impact force identification. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 126, 341-367	7.8	37
119	A weighted multi-scale dictionary learning model and its applications on bearing fault diagnosis. <i>Journal of Sound and Vibration</i> , <b>2019</b> , 446, 429-452	3.9	44
118	Subspace-based MVE for performance degradation assessment of aero-engine bearings with multimodal features. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 124, 298-312	7.8	13
117	Effective finite element model in-loop system of laminated cylindrical structure for multiple inputs and multiple outputs active vibration control. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , <b>2019</b> , 38, 664-683	1.5	1
116	Enhanced Sparse Period-Group Lasso for Bearing Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 2143-2153	8.9	87
115	Machine health monitoring based on locally linear embedding with kernel sparse representation for neighborhood optimization. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 114, 25-34	7.8	38
114	A combined crosstalk cancellation method based on wavelet packet denoising and Welch method for operational transfer path analysis. <i>Measurement Science and Technology</i> , <b>2019</b> , 30, 065011	2	3
113	Physical constraints fused equiangular tight frame method for Blade Tip Timing sensor arrangement. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 145, 841-851 <sup>4.6</sup>	4.6	29
112	Spline adaptive filter with arctangent-momentum strategy for nonlinear system identification. <i>Signal Processing</i> , <b>2019</b> , 164, 99-109	4.4	20
111	Adaptive vibration control on electrohydraulic shaking table system with an expanded frequency range: Theory analysis and experimental study. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 132, 122-137	7.8	15
110	Traveling distance estimation for dispersive Lamb waves through sparse Bayesian learning strategy. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 085008	3.4	10
109	Interval variable step-size spline adaptive filter for the identification of nonlinear block-oriented system. <i>Nonlinear Dynamics</i> , <b>2019</b> , 98, 1629-1643	5	6
108	Convulsive blind source separation in frequency domain with kurtosis maximization by modified conjugate gradient. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 134, 106331	7.8	12
107	Weighted sparse representation based on failure dynamics simulation for planetary gearbox fault diagnosis. <i>Measurement Science and Technology</i> , <b>2019</b> , 30, 045008	2	12



106	Intelligent Time-Domain Parameters Matching for Shock Response Spectrum and Its Experimental Validation in Active Vibration Control Systems. <i>Shock and Vibration</i> , <b>2019</b> , 2019, 1-16	1.1	1
105	A clustering low-rank approach for aero-enging bearing fault detection <b>2019</b> ,		3
104	Deep Transfer Learning Based on Sparse Autoencoder for Remaining Useful Life Prediction of Tool in Manufacturing. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 2416-2425	11.9	193
103	Group sparse regularization for impact force identification in time domain. <i>Journal of Sound and Vibration</i> , <b>2019</b> , 445, 44-63	3.9	39
102	Sparse representation based on parametric impulsive dictionary design for bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 122, 737-753	7.8	55
101	A weighted sparse reconstruction-based ultrasonic guided wave anomaly imaging method for composite laminates. <i>Composite Structures</i> , <b>2019</b> , 209, 233-241	5.3	30
100	Convolutional Sparse Learning for Blind Deconvolution and Application on Impulsive Feature Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 338-349	5.2	21
99	Artificial intelligence for fault diagnosis of rotating machinery: A review. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 108, 33-47	7.8	795
98	Deep Coupling Autoencoder for Fault Diagnosis With Multimodal Sensory Data. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 1137-1145	11.9	139
97	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 7332-7342	8.9	120
96	Chatter detection based on synchrosqueezing transform and statistical indicators in milling process. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 95, 961-972	3.2	24
95	A novel amplitude-independent crack identification method for rotating shaft. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2018</b> , 232, 4098-4112	1.2	8
94	Sparse Deep Stacking Network for Fault Diagnosis of Motor. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 3261-3270	11.9	103
93	Learning Collaborative Sparsity Structure via Nonconvex Optimization for Feature Recognition. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 4417-4430	11.9	17
92	Multiple-harmonic amplitude and phase control method for active noise and vibration reshaping. <i>JVC/Journal of Vibration and Control</i> , <b>2018</b> , 24, 3173-3193	2	8
91	Gear fault diagnosis based on the structured sparsity time-frequency analysis. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 102, 346-363	7.8	56
90	Damage identification for plate-like structures using ultrasonic guided wave based on improved MUSIC method. <i>Composite Structures</i> , <b>2018</b> , 203, 164-171	5.3	43
89	A guided wave dispersion compensation method based on compressed sensing. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 103, 89-104	7.8	55

88	Matching synchrosqueezing transform: A useful tool for characterizing signals with fast varying instantaneous frequency and application to machine fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 100, 242-288	7.8	103
87	Mechanism of Fast Time-Varying Vibration for Rotor-Stator Contact System: With Application to Fault Diagnosis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2018</b> , 140,	1.6	21
86	Bearing Fault Diagnosis Using Hyper-Laplacian Priors and Non-convex Optimization <b>2018</b> ,		1
85	Periodic overlapping group elastic net for fault diagnosis <b>2018</b> ,		2
84	Foreign Object Damage Diagnosis of Aero-Engine Compressor Based on Damping Averaging Built-in Matrix Method <b>2018</b> ,		2
83	Vector minimax concave penalty for sparse representation <b>2018</b> , 83, 165-179		13
82	Sparse Time-Frequency Representation for Incipient Fault Diagnosis of Wind Turbine Drive Train. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 2616-2627	5.2	47
81	A Fourier spectrum-based strain energy damage detection method for beam-like structures in noisy conditions. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 1188-1196	3.5	6
80	Convolutional Discriminative Feature Learning for Induction Motor Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 1350-1359	11.9	176
79	Fault Diagnosis for a Wind Turbine Generator Bearing via Sparse Representation and Shift-Invariant K-SVD. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 1321-1331	11.9	126
78	Compressed-Sensing-Based Periodic Impulsive Feature Detection for Wind Turbine Systems. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 2933-2945	11.9	16
77	Locally Linear Embedding on Grassmann Manifold for Performance Degradation Assessment of Bearings. <i>IEEE Transactions on Reliability</i> , <b>2017</b> , 66, 467-477	4.6	35
76	Weighted low-rank sparse model via nuclear norm minimization for bearing fault detection. <i>Journal of Sound and Vibration</i> , <b>2017</b> , 400, 270-287	3.9	26
75	Early chatter detection in end milling based on multi-feature fusion and $\chi^2$ criterion. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 92, 4387-4397	3.2	43
74	Nonlinear Squeezing Time-Frequency Transform and Application in Rotor Rub-Impact Fault Diagnosis. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2017</b> , 139,	3.3	18
73	Wave propagation of laminated composite plates via GPU-based wavelet finite element method. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 832-843	3.5	7
72	A hybrid multiple damages detection method for plate structures. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 726-736	3.5	7
71	Sparsity-aware tight frame learning with adaptive subspace recognition for multiple fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 94, 499-524	7.8	25

70	Dislocated Time Series Convolutional Neural Architecture: An Intelligent Fault Diagnosis Approach for Electric Machine. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 1310-1320	11.9	215
69	Matching Synchrosqueezing Wavelet Transform and Application to Aeroengine Vibration Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 360-372	5.2	100
68	Effects of Crack on Vibration Characteristics of Mistuned Rotated Blades. <i>Shock and Vibration</i> , <b>2017</b> , 2017, 1-18	1.1	10
67	Damage localization for beams based on the wavelet correlation operator. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 1505-1517	3.5	1
66	Analysis and compensation of reference frequency mismatch in multiple-frequency feedforward active noise and vibration control system. <i>Journal of Sound and Vibration</i> , <b>2017</b> , 409, 145-164	3.9	31
65	The concept and progress of intelligent spindles: A review. <i>International Journal of Machine Tools and Manufacture</i> , <b>2017</b> , 112, 21-52	9.4	139
64	Sparse deconvolution for the large-scale ill-posed inverse problem of impact force reconstruction. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 83, 93-115	7.8	69
63	Sparse representation based on spectral kurtosis for incipient bearing fault diagnosis <b>2017</b> ,		3
62	Discriminative Deep Belief Networks with Ant Colony Optimization for Health Status Assessment of Machine. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 3115-3125	5.2	84
61	Wind Turbine Diagnosis under Variable Speed Conditions Using a Single Sensor Based on the Synchrosqueezing Transform Method. <i>Sensors</i> , <b>2017</b> , 17,	3.8	20
60	Adaptive Compensation of Mismatch in Narrowband Active Noise Equalizer Systems. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2016</b> , 24, 2390-2399	3.6	11
59	Hybrid two-step method of damage detection for plate-like structures. <i>Structural Control and Health Monitoring</i> , <b>2016</b> , 23, 267-285	4.5	34
58	Modeling and active vibration control of a coupling system of structure and actuators. <i>JVC/Journal of Vibration and Control</i> , <b>2016</b> , 22, 382-395	2	12
57	Time-frequency atoms-driven support vector machine method for bearings incipient fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 75, 345-370	7.8	109
56	The hybrid multivariate analysis method for damage detection. <i>Structural Control and Health Monitoring</i> , <b>2016</b> , 23, 123-143	4.5	25
55	Sparse regularization for force identification using dictionaries. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 368, 71-86	3.9	79
54	Nonlocal sparse model with adaptive structural clustering for feature extraction of aero-engine bearings. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 368, 223-248	3.9	23
53	Hermitian Mindlin Plate Wavelet Finite Element Method for Load Identification. <i>Shock and Vibration</i> , <b>2016</b> , 2016, 1-24	1.1	

52	Kurtosis based weighted sparse model with convex optimization technique for bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 80, 349-376	7.8	98
51	Multiple-source multiple-harmonic active vibration control of variable section cylindrical structures: A numerical study. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 81, 461-474	7.8	19
50	A sparse auto-encoder-based deep neural network approach for induction motor faults classification. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2016</b> , 89, 171-178	4.6	411
49	Multivariable wavelet finite element-based vibration model for quantitative crack identification by using particle swarm optimization. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 375, 200-216	3.9	44
48	Condition assessment for automatic tool changer based on sparsity-enabled signal decomposition method. <i>Mechatronics</i> , <b>2015</b> , 31, 50-59	3	22
47	The application of cubic B-spline collocation method in impact force identification. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 64-65, 413-427	7.8	49
46	A Novel Method for Force Identification Based on the Discrete Cosine Transform. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	33
45	Sparse Feature Identification Based on Union of Redundant Dictionary for Wind Turbine Gearbox Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 6594-6605	8.9	114
44	A force identification method using cubic B-spline scaling functions. <i>Journal of Sound and Vibration</i> , <b>2015</b> , 337, 28-44	3.9	54
43	Strain rate influence on nonlinear response of polymer matrix composites. <i>Polymer Composites</i> , <b>2015</b> , 36, 800-810	3	13
42	Crack growth sparse pursuit for wind turbine blade. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 015002	3.4	12
41	. <i>IEEE Transactions on Reliability</i> , <b>2015</b> , 64, 167-181	4.6	21
40	Nonlinear squeezing time-frequency transform for weak signal detection. <i>Signal Processing</i> , <b>2015</b> , 113, 195-210	4.4	55
39	Wave motion analysis in arch structures via wavelet finite element method. <i>Journal of Sound and Vibration</i> , <b>2014</b> , 333, 446-469	3.9	45
38	Wavelet-based numerical analysis: A review and classification. <i>Finite Elements in Analysis and Design</i> , <b>2014</b> , 81, 14-31	2.2	87
37	Matching Demodulation Transform and SynchroSqueezing in Time-Frequency Analysis. <i>IEEE Transactions on Signal Processing</i> , <b>2014</b> , 62, 69-84	4.8	197
36	Modified Hermitian cubic spline wavelet on interval finite element for wave propagation and load identification. <i>Finite Elements in Analysis and Design</i> , <b>2014</b> , 91, 48-58	2.2	17
35	Compressed sensing based on dictionary learning for extracting impulse components. <i>Signal Processing</i> , <b>2014</b> , 96, 94-109	4.4	139

34	Wavelets for fault diagnosis of rotary machines: A review with applications. <i>Signal Processing</i> , <b>2014</b> , 96, 1-15	4.4	822
33	A Stochastic Wavelet Finite Element Method for 1D and 2D Structures Analysis. <i>Shock and Vibration</i> , <b>2014</b> , 2014, 1-15	1.1	2
32	The Analysis of Curved Beam Using B-Spline Wavelet on Interval Finite Element Method. <i>Shock and Vibration</i> , <b>2014</b> , 2014, 1-9	1.1	8
31	Matching Demodulation Transform With Application to Feature Extraction of Rotor Rub-Impact Fault. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2014</b> , 63, 1372-1383	5.2	73
30	Strain Rate Dependent Deformation of a Polymer Matrix Composite with Different Microstructures Subjected to Off-Axis Loading. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-11	1.1	4
29	Mathematical Methods and Modeling in Machine Fault Diagnosis. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-3	1.1	1
28	A new improved Synchrosqueezing Transform based on adaptive short time fourier transform <b>2014</b> ,		3
27	Frequency domain active vibration control of a flexible plate based on neural networks. <i>Frontiers of Mechanical Engineering</i> , <b>2013</b> , 8, 109-117	3.3	6
26	A damage identification approach for plate structures based on frequency measurements. <i>Nondestructive Testing and Evaluation</i> , <b>2013</b> , 28, 321-341	2	21
25	Sparsity-enabled signal decomposition using tunable Q-factor wavelet transform for fault feature extraction of gearbox. <i>Mechanical Systems and Signal Processing</i> , <b>2013</b> , 41, 34-53	7.8	146
24	Remaining life prognostics of rolling bearing based on relative features and multivariable support vector machine. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2013</b> , 227, 2849-2860	1.3	43
23	Multi-fault classification based on wavelet SVM with PSO algorithm to analyze vibration signals from rolling element bearings. <i>Neurocomputing</i> , <b>2013</b> , 99, 399-410	5.4	196
22	A new noise-controlled second-order enhanced stochastic resonance method with its application in wind turbine drivetrain fault diagnosis. <i>Renewable Energy</i> , <b>2013</b> , 60, 7-19	8.1	87
21	Free vibration and buckling analysis of plates using B-spline wavelet on the interval Mindlin element. <i>Applied Mathematical Modelling</i> , <b>2013</b> , 37, 3449-3466	4.5	46
20	Operation reliability assessment for cutting tools by applying a proportional covariate model to condition monitoring information. <i>Sensors</i> , <b>2012</b> , 12, 12964-87	3.8	18
19	A monotonic degradation assessment index of rolling bearings using fuzzy support vector data description and running time. <i>Sensors</i> , <b>2012</b> , 12, 10109-35	3.8	63
18	The analysis of shallow shells based on multivariable wavelet finite element method. <i>Acta Mechanica Sinica</i> , <b>2011</b> , 24, 450-460	2	13
17	The influence of crack breathing and imbalance orientation angle on the characteristics of the critical speed of a cracked rotor. <i>Journal of Sound and Vibration</i> , <b>2011</b> , 330, 2031-2048	3.9	42

16	Reliability estimation for cutting tools based on logistic regression model using vibration signals. <i>Mechanical Systems and Signal Processing</i> , <b>2011</b> , 25, 2526-2537	7.8	102
15	The construction of multivariable Reissner-Mindlin plate elements based on B-spline wavelet on the interval. <i>Structural Engineering and Mechanics</i> , <b>2011</b> , 38, 733-751		11
14	A study of multiscale wavelet-based elements for adaptive finite element analysis. <i>Advances in Engineering Software</i> , <b>2010</b> , 41, 196-205	3.6	37
13	Predicting the elastoplastic response of fiber-reinforced metal matrix composites. <i>Mechanics of Composite Materials</i> , <b>2010</b> , 46, 405-416	1.1	15
12	An ACO-based algorithm for parameter optimization of support vector machines. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 6618-6628	7.8	114
11	Multivariable finite elements based on B-spline wavelet on the interval for thin plate static and vibration analysis. <i>Finite Elements in Analysis and Design</i> , <b>2010</b> , 46, 416-427	2.2	27
10	Numerical solution of Poisson equation with wavelet bases of Hermite cubic splines on the interval. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2009</b> , 30, 1325-1334	3.2	2
9	Sifting process of EMD and its application in rolling element bearing fault diagnosis. <i>Journal of Mechanical Science and Technology</i> , <b>2009</b> , 23, 2000-2007	1.6	24
8	Application of support vector machine for equipment reliability forecasting <b>2008</b> ,		9
7	Multiresolution analysis for finite element method using interpolating wavelet and lifting scheme. <i>Communications in Numerical Methods in Engineering</i> , <b>2007</b> , 24, 1045-1066		5
6	Identification of crack in a rotor system based on wavelet finite element method. <i>Finite Elements in Analysis and Design</i> , <b>2007</b> , 43, 1068-1081	2.2	51
5	The construction of plane elastomechanics and Mindlin plate elements of B-spline wavelet on the interval. <i>Finite Elements in Analysis and Design</i> , <b>2006</b> , 42, 1269-1280	2.2	52
4	The construction of wavelet finite element and its application. <i>Finite Elements in Analysis and Design</i> , <b>2004</b> , 40, 541-554	2.2	110
3	Array focused Lamb wave Hilbert holographic imaging method. <i>Mechanics of Advanced Materials and Structures</i> , 1-15	1.8	0
2	Estimation of Lamb wave propagation by means of Fourier spectral frequency response function. <i>Nondestructive Testing and Evaluation</i> , 1-24	2	2
1	A review of high-velocity impact on fiber-reinforced textile composites: Potential for aero engine applications. <i>International Journal of Mechanical System Dynamics</i> ,		