

Xue-Feng Chen

List of Publications by Citations

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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	Wavelets for fault diagnosis of rotary machines: A review with applications. <i>Signal Processing</i> , 2014 , 96, 1-15	4.4	822
230	Artificial intelligence for fault diagnosis of rotating machinery: A review. <i>Mechanical Systems and Signal Processing</i> , 2018 , 108, 33-47	7.8	795
229	A sparse auto-encoder-based deep neural network approach for induction motor faults classification. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 89, 171-178	4.6	411
228	Dislocated Time Series Convolutional Neural Architecture: An Intelligent Fault Diagnosis Approach for Electric Machine. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 1310-1320	11.9	215
227	Matching Demodulation Transform and SynchroSqueezing in Time-Frequency Analysis. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 69-84	4.8	197
226	Multi-fault classification based on wavelet SVM with PSO algorithm to analyze vibration signals from rolling element bearings. <i>Neurocomputing</i> , 2013 , 99, 399-410	5.4	196
225	Deep Transfer Learning Based on Sparse Autoencoder for Remaining Useful Life Prediction of Tool in Manufacturing. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 2416-2425	11.9	193
224	Convolutional Discriminative Feature Learning for Induction Motor Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 1350-1359	11.9	176
223	Sparsity-enabled signal decomposition using tunable Q-factor wavelet transform for fault feature extraction of gearbox. <i>Mechanical Systems and Signal Processing</i> , 2013 , 41, 34-53	7.8	146
222	Deep Coupling Autoencoder for Fault Diagnosis With Multimodal Sensory Data. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1137-1145	11.9	139
221	Compressed sensing based on dictionary learning for extracting impulse components. <i>Signal Processing</i> , 2014 , 96, 94-109	4.4	139
220	The concept and progress of intelligent spindles: A review. <i>International Journal of Machine Tools and Manufacture</i> , 2017 , 112, 21-52	9.4	139
219	Fault Diagnosis for a Wind Turbine Generator Bearing via Sparse Representation and Shift-Invariant K-SVD. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 1321-1331	11.9	126
218	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7332-7342	8.9	120
217	Sparse Feature Identification Based on Union of Redundant Dictionary for Wind Turbine Gearbox Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6594-6605	8.9	114
216	An ACO-based algorithm for parameter optimization of support vector machines. <i>Expert Systems With Applications</i> , 2010 , 37, 6618-6628	7.8	114
215	The construction of wavelet finite element and its application. <i>Finite Elements in Analysis and Design</i> , 2004 , 40, 541-554	2.2	110

214	Time-frequency atoms-driven support vector machine method for bearings incipient fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2016 , 75, 345-370	7.8	109
213	Sparse Deep Stacking Network for Fault Diagnosis of Motor. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3261-3270	11.9	103
212	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> , 2018 , 100, 242-288	7.8	103
211	Reliability estimation for cutting tools based on logistic regression model using vibration signals. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 2526-2537	7.8	102
210	Matching Synchrosqueezing Wavelet Transform and Application to Aeroengine Vibration Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 360-372	5.2	100
209	Kurtosis based weighted sparse model with convex optimization technique for bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2016 , 80, 349-376	7.8	98
208	Enhanced Sparse Period-Group Lasso for Bearing Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2143-2153	8.9	87
207	Wavelet-based numerical analysis: A review and classification. <i>Finite Elements in Analysis and Design</i> , 2014 , 81, 14-31	2.2	87
206	A new noise-controlled second-order enhanced stochastic resonance method with its application in wind turbine drivetrain fault diagnosis. <i>Renewable Energy</i> , 2013 , 60, 7-19	8.1	87
205	Knowledge Transfer for Rotary Machine Fault Diagnosis. <i>IEEE Sensors Journal</i> , 2020 , 20, 8374-8393	4	87
204	Discriminative Deep Belief Networks with Ant Colony Optimization for Health Status Assessment of Machine. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 3115-3125	5.2	84
203	Deep learning algorithms for rotating machinery intelligent diagnosis: An open source benchmark study. <i>ISA Transactions</i> , 2020 , 107, 224-255	5.5	83
202	Sparse regularization for force identification using dictionaries. <i>Journal of Sound and Vibration</i> , 2016 , 368, 71-86	3.9	79
201	Matching Demodulation Transform With Application to Feature Extraction of Rotor Rub-Impact Fault. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 1372-1383	5.2	73
200	Sparse deconvolution for the large-scale ill-posed inverse problem of impact force reconstruction. <i>Mechanical Systems and Signal Processing</i> , 2017 , 83, 93-115	7.8	69
199	A monotonic degradation assessment index of rolling bearings using fuzzy support vector data description and running time. <i>Sensors</i> , 2012 , 12, 10109-35	3.8	63
198	Gear fault diagnosis based on the structured sparsity time-frequency analysis. <i>Mechanical Systems and Signal Processing</i> , 2018 , 102, 346-363	7.8	56
197	Nonlinear squeezing time-frequency transform for weak signal detection. <i>Signal Processing</i> , 2015 , 113, 195-210	4.4	55

196	Sparse representation based on parametric impulsive dictionary design for bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2019 , 122, 737-753	7.8	55
195	A guided wave dispersion compensation method based on compressed sensing. <i>Mechanical Systems and Signal Processing</i> , 2018 , 103, 89-104	7.8	55
194	A force identification method using cubic B-spline scaling functions. <i>Journal of Sound and Vibration</i> , 2015 , 337, 28-44	3.9	54
193	The construction of plane elastomechanics and Mindlin plate elements of B-spline wavelet on the interval. <i>Finite Elements in Analysis and Design</i> , 2006 , 42, 1269-1280	2.2	52
192	Identification of crack in a rotor system based on wavelet finite element method. <i>Finite Elements in Analysis and Design</i> , 2007 , 43, 1068-1081	2.2	51
191	The application of cubic B-spline collocation method in impact force identification. <i>Mechanical Systems and Signal Processing</i> , 2015 , 64-65, 413-427	7.8	49
190	Sparse Time-Frequency Representation for Incipient Fault Diagnosis of Wind Turbine Drive Train. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 2616-2627	5.2	47
189	Free vibration and buckling analysis of plates using B-spline wavelet on the interval Mindlin element. <i>Applied Mathematical Modelling</i> , 2013 , 37, 3449-3466	4.5	46
188	Few-shot transfer learning for intelligent fault diagnosis of machine. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 166, 108202	4.6	46
187	Wave motion analysis in arch structures via wavelet finite element method. <i>Journal of Sound and Vibration</i> , 2014 , 333, 446-469	3.9	45
186	A weighted multi-scale dictionary learning model and its applications on bearing fault diagnosis. <i>Journal of Sound and Vibration</i> , 2019 , 446, 429-452	3.9	44
185	Multivariable wavelet finite element-based vibration model for quantitative crack identification by using particle swarm optimization. <i>Journal of Sound and Vibration</i> , 2016 , 375, 200-216	3.9	44
184	Early chatter detection in end milling based on multi-feature fusion and 3 σ criterion. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 4387-4397	3.2	43
183	Damage identification for plate-like structures using ultrasonic guided wave based on improved MUSIC method. <i>Composite Structures</i> , 2018 , 203, 164-171	5.3	43
182	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> , 2013 , 227, 2849-2860	1.3	43
181	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> , 2011 , 330, 2031-2048	3.9	42
180	Applications of Unsupervised Deep Transfer Learning to Intelligent Fault Diagnosis: A Survey and Comparative Study. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	40
179	Group sparse regularization for impact force identification in time domain. <i>Journal of Sound and Vibration</i> , 2019 , 445, 44-63	3.9	39

178	Machine health monitoring based on locally linear embedding with kernel sparse representation for neighborhood optimization. <i>Mechanical Systems and Signal Processing</i> , 2019 , 114, 25-34	7.8	38
177	Multireceptive Field Graph Convolutional Networks for Machine Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 12739-12749	8.9	38
176	An enhanced sparse regularization method for impact force identification. <i>Mechanical Systems and Signal Processing</i> , 2019 , 126, 341-367	7.8	37
175	A study of multiscale wavelet-based elements for adaptive finite element analysis. <i>Advances in Engineering Software</i> , 2010 , 41, 196-205	3.6	37
174	Locally Linear Embedding on Grassmann Manifold for Performance Degradation Assessment of Bearings. <i>IEEE Transactions on Reliability</i> , 2017 , 66, 467-477	4.6	35
173	Hybrid two-step method of damage detection for plate-like structures. <i>Structural Control and Health Monitoring</i> , 2016 , 23, 267-285	4.5	34
172	A Novel Method for Force Identification Based on the Discrete Cosine Transform. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015 , 137,	1.6	33
171	Fault-Attention Generative Probabilistic Adversarial Autoencoder for Machine Anomaly Detection. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 7479-7488	11.9	33
170	Analysis and compensation of reference frequency mismatch in multiple-frequency feedforward active noise and vibration control system. <i>Journal of Sound and Vibration</i> , 2017 , 409, 145-164	3.9	31
169	A weighted sparse reconstruction-based ultrasonic guided wave anomaly imaging method for composite laminates. <i>Composite Structures</i> , 2019 , 209, 233-241	5.3	30
168	Physical constraints fused equiangular tight frame method for Blade Tip Timing sensor arrangement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 145, 841-851	4.6	29
167	Interpreting network knowledge with attention mechanism for bearing fault diagnosis. <i>Applied Soft Computing Journal</i> , 2020 , 97, 106829	7.5	29
166	Synthesis versus analysis priors via generalized minimax-concave penalty for sparsity-assisted machinery fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2019 , 127, 202-233	7.8	28
165	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> , 2010 , 46, 416-427	2.2	27
164	Weighted low-rank sparse model via nuclear norm minimization for bearing fault detection. <i>Journal of Sound and Vibration</i> , 2017 , 400, 270-287	3.9	26
163	Sparsity-aware tight frame learning with adaptive subspace recognition for multiple fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2017 , 94, 499-524	7.8	25
162	The hybrid multivariate analysis method for damage detection. <i>Structural Control and Health Monitoring</i> , 2016 , 23, 123-143	4.5	25
161	WaveletKernelNet: An Interpretable Deep Neural Network for Industrial Intelligent Diagnosis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-11	7.3	25

160	A Deep Coupled Network for Health State Assessment of Cutting Tools Based on Fusion of Multisensory Signals. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 6415-6424	11.9	24
159	An Improved Multiple Signal Classification for Nonuniform Sampling in Blade Tip Timing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 7941-7952	5.2	24
158	Chatter detection based on synchrosqueezing transform and statistical indicators in milling process. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 961-972	3.2	24
157	Sifting process of EMD and its application in rolling element bearing fault diagnosis. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 2000-2007	1.6	24
156	Nonlocal sparse model with adaptive structural clustering for feature extraction of aero-engine bearings. <i>Journal of Sound and Vibration</i> , 2016 , 368, 223-248	3.9	23
155	Condition assessment for automatic tool changer based on sparsity-enabled signal decomposition method. <i>Mechatronics</i> , 2015 , 31, 50-59	3	22
154	Adaptive Channel Weighted CNN With Multisensor Fusion for Condition Monitoring of Helicopter Transmission System. <i>IEEE Sensors Journal</i> , 2020 , 20, 8364-8373	4	22
153	An Adaptive Online Blade Health Monitoring Method: From Raw Data to Parameters Identification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 2581-2592	5.2	22
152	Convolutional Sparse Learning for Blind Deconvolution and Application on Impulsive Feature Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 338-349	5.2	21
151	A damage identification approach for plate structures based on frequency measurements. <i>Nondestructive Testing and Evaluation</i> , 2013 , 28, 321-341	2	21
150	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 167-181	4.6	21
149	Domain Adversarial Graph Convolutional Network for Fault Diagnosis Under Variable Working Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	21
148	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> , 2018 , 140,	1.6	21
147	Spline adaptive filter with arctangent-momentum strategy for nonlinear system identification. <i>Signal Processing</i> , 2019 , 164, 99-109	4.4	20
146	Wind Turbine Diagnosis under Variable Speed Conditions Using a Single Sensor Based on the Synchrosqueezing Transform Method. <i>Sensors</i> , 2017 , 17,	3.8	20
145	Cascade Convolutional Neural Network With Progressive Optimization for Motor Fault Diagnosis Under Nonstationary Conditions. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 2511-2521	11.9	20
144	Cyclostationary modeling for local fault diagnosis of planetary gear vibration signals. <i>Journal of Sound and Vibration</i> , 2020 , 471, 115175	3.9	19
143	Multiple-source multiple-harmonic active vibration control of variable section cylindrical structures: A numerical study. <i>Mechanical Systems and Signal Processing</i> , 2016 , 81, 461-474	7.8	19

142	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> , 2017 , 139,	3.3	18
141	Operation reliability assessment for cutting tools by applying a proportional covariate model to condition monitoring information. <i>Sensors</i> , 2012 , 12, 12964-87	3.8	18
140	Composite-Graph-Based Sparse Subspace Clustering for Machine Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 1850-1859	5.2	18
139	Learning Collaborative Sparsity Structure via Nonconvex Optimization for Feature Recognition. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 4417-4430	11.9	17
138	Modified Hermitian cubic spline wavelet on interval finite element for wave propagation and load identification. <i>Finite Elements in Analysis and Design</i> , 2014 , 91, 48-58	2.2	17
137	Compressed-Sensing-Based Periodic Impulsive Feature Detection for Wind Turbine Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 2933-2945	11.9	16
136	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> , 2020 , 29, 035020	3.4	16
135	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> , 2021 , 70, 1-14	5.2	16
134	Hierarchical attention graph convolutional network to fuse multi-sensor signals for remaining useful life prediction. <i>Reliability Engineering and System Safety</i> , 2021 , 215, 107878	6.3	16
133	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> , 2019 , 132, 122-137	7.8	15
132	Predicting the elastoplastic response of fiber-reinforced metal matrix composites. <i>Mechanics of Composite Materials</i> , 2010 , 46, 405-416	1.1	15
131	Sparse Multiperiod Group Lasso for Bearing Multifault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 419-431	5.2	15
130	Deep-Learning-Based Open Set Fault Diagnosis by Extreme Value Theory. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	15
129	Reweighted generalized minimax-concave sparse regularization and application in machinery fault diagnosis. <i>ISA Transactions</i> , 2020 , 105, 320-334	5.5	14
128	Non-convex sparse regularization for impact force identification. <i>Journal of Sound and Vibration</i> , 2020 , 477, 115311	3.9	14
127	Aero-engine bearing fault detection: A clustering low-rank approach. <i>Mechanical Systems and Signal Processing</i> , 2020 , 138, 106529	7.8	14
126	A Reinforced k-Nearest Neighbors Method With Application to Chatter Identification in High-Speed Milling. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 10844-10855	8.9	14
125	Subspace-based MVE for performance degradation assessment of aero-engine bearings with multimodal features. <i>Mechanical Systems and Signal Processing</i> , 2019 , 124, 298-312	7.8	13

124	Strain rate influence on nonlinear response of polymer matrix composites. <i>Polymer Composites</i> , 2015 , 36, 800-810	3	13
123	The analysis of shallow shells based on multivariable wavelet finite element method. <i>Acta Mechanica Solida Sinica</i> , 2011 , 24, 450-460	2	13
122	Conditional Adversarial Domain Adaptation With Discrimination Embedding for Locomotive Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	13
121	Vector minimax concave penalty for sparse representation 2018 , 83, 165-179		13
120	Modeling and active vibration control of a coupling system of structure and actuators. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 382-395	2	12
119	Convulsive blind source separation in frequency domain with kurtosis maximization by modified conjugate gradient. <i>Mechanical Systems and Signal Processing</i> , 2019 , 134, 106331	7.8	12
118	Crack growth sparse pursuit for wind turbine blade. <i>Smart Materials and Structures</i> , 2015 , 24, 015002	3.4	12
117	Weighted sparse representation based on failure dynamics simulation for planetary gearbox fault diagnosis. <i>Measurement Science and Technology</i> , 2019 , 30, 045008	2	12
116	Hierarchical hyper-Laplacian prior for weak fault feature enhancement. <i>ISA Transactions</i> , 2020 , 96, 429-443	4.3	12
115	Ridge-Aware Weighted Sparse Time-Frequency Representation. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 136-149	4.8	12
114	Adaptive Compensation of Mismatch in Narrowband Active Noise Equalizer Systems. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016 , 24, 2390-2399	3.6	11
113	The construction of multivariable Reissner-Mindlin plate elements based on B-spline wavelet on the interval. <i>Structural Engineering and Mechanics</i> , 2011 , 38, 733-751		11
112	Challenges and Opportunities of AI-Enabled Monitoring, Diagnosis & Prognosis: A Review. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021 , 34,	2.5	11
111	Sparse representation theory for support vector machine kernel function selection and its application in high-speed bearing fault diagnosis. <i>ISA Transactions</i> , 2021 , 118, 207-218	5.5	11
110	Effects of Crack on Vibration Characteristics of Mistuned Rotated Blades. <i>Shock and Vibration</i> , 2017 , 2017, 1-18	1.1	10
109	Traveling distance estimation for dispersive Lamb waves through sparse Bayesian learning strategy. <i>Smart Materials and Structures</i> , 2019 , 28, 085008	3.4	10
108	Sparsity-assisted bearing fault diagnosis using multiscale period group lasso. <i>ISA Transactions</i> , 2020 , 98, 338-348	5.5	10
107	A multi-source dense adaptation adversarial network for fault diagnosis of machinery. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	10

106	Conditional Adversarial Domain Generalization With a Single Discriminator for Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-15	5.2	10
105	Application of support vector machine for equipment reliability forecasting 2008 ,		9
104	Ensemble deep learning with multi-objective optimization for prognosis of rotating machinery. <i>ISA Transactions</i> , 2020 , 113, 166-166	5.5	9
103	Adaptive Robust Noise Modeling of Sparse Representation for Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	9
102	Learning from Class-imbalanced Data with a Model-Agnostic Framework for Machine Intelligent Diagnosis. <i>Reliability Engineering and System Safety</i> , 2021 , 216, 107934	6.3	9
101	Impact force reconstruction and localization using nonconvex overlapping group sparsity. <i>Mechanical Systems and Signal Processing</i> , 2022 , 162, 107983	7.8	9
100	FRF-based lamb wave phased array. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108462	7.8	9
99	Sparse estimation of propagation distances in Lamb wave inspection. <i>Measurement Science and Technology</i> , 2019 , 30, 055601	2	8
98	Nonnegative Bounded Convolutional Sparse Learning Method for Envelope Feature Deconvolution. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 8666-8679	5.2	8
97	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> , 2018 , 232, 4098-4112	1.3	8
96	Multiple-harmonic amplitude and phase control method for active noise and vibration reshaping. <i>JVC/Journal of Vibration and Control</i> , 2018 , 24, 3173-3193	2	8
95	The Analysis of Curved Beam Using B-Spline Wavelet on Interval Finite Element Method. <i>Shock and Vibration</i> , 2014 , 2014, 1-9	1.1	8
94	Frequency domain spline adaptive filters. <i>Signal Processing</i> , 2020 , 177, 107752	4.4	8
93	Wave propagation of laminated composite plates via GPU-based wavelet finite element method. <i>Science China Technological Sciences</i> , 2017 , 60, 832-843	3.5	7
92	A hybrid multiple damages detection method for plate structures. <i>Science China Technological Sciences</i> , 2017 , 60, 726-736	3.5	7
91	Sparsity-Assisted Fault Feature Enhancement: Algorithm-Aware Versus Model-Aware. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 7004-7014	5.2	7
90	The emerging graph neural networks for intelligent fault diagnostics and prognostics: A guideline and a benchmark study. <i>Mechanical Systems and Signal Processing</i> , 2022 , 168, 108653	7.8	7
89	A Fourier spectrum-based strain energy damage detection method for beam-like structures in noisy conditions. <i>Science China Technological Sciences</i> , 2017 , 60, 1188-1196	3.5	6

88	Underdetermined convolutive blind source separation in the time-frequency domain based on single source points and experimental validation. <i>Measurement Science and Technology</i> , 2020 , 31, 095001	5	6
87	Interval variable step-size spline adaptive filter for the identification of nonlinear block-oriented system. <i>Nonlinear Dynamics</i> , 2019 , 98, 1629-1643	5	6
86	Frequency domain active vibration control of a flexible plate based on neural networks. <i>Frontiers of Mechanical Engineering</i> , 2013 , 8, 109-117	3.3	6
85	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> , 2020 , 142,	3	6
84	Differentiable Architecture Search for Aeroengine Bevel Gear Fault Diagnosis 2020 ,		6
83	Collaborative sparse classification for aero-engine gear hub crack diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2020 , 141, 106426	7.8	6
82	Multi-scale CNN for Multi-sensor Feature Fusion in Helical Gear Fault Detection. <i>Procedia Manufacturing</i> , 2020 , 49, 89-93	1.5	6
81	Low-rank enhanced convolutional sparse feature detection for accurate diagnosis of gearbox faults. <i>Mechanical Systems and Signal Processing</i> , 2021 , 150, 107215	7.8	6
80	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> , 2021 , 70, 1-11	5.2	6
79	Data-driven multiscale sparse representation for bearing fault diagnosis in wind turbine. <i>Wind Energy</i> , 2019 , 22, 587-604	3.4	5
78	A Quantitative Intelligent Diagnosis Method for Early Weak Faults of Aviation High-speed Bearings. <i>ISA Transactions</i> , 2019 , 93, 370-383	5.5	5
77	Fast Nonlinear Chirplet Dictionary-Based Sparse Decomposition for Rotating Machinery Fault Diagnosis Under Nonstationary Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 4736-4745	5.2	5
76	Impact force identification via sparse regularization with generalized minimax-concave penalty. <i>Journal of Sound and Vibration</i> , 2020 , 484, 115530	3.9	5
75	Multiresolution analysis for finite element method using interpolating wavelet and lifting scheme. <i>Communications in Numerical Methods in Engineering</i> , 2007 , 24, 1045-1066		5
74	Generalized Gaussian Noise Distribution Enabled Sparse Representation Model for Bearing Fault Diagnosis 2020 ,		5
73	Nonlinear dynamic behavior of rotating blade with breathing crack. <i>Frontiers of Mechanical Engineering</i> , 2021 , 16, 196-220	3.3	5
72	Collaborative Double Sparse Period-Group Lasso for Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	5
71	Bayesian Differentiable Architecture Search for Efficient Domain Matching Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	5

70	Adaptive Broad Learning System for High-Efficiency Fault Diagnosis of Rotating Machinery. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	5
69	Fast Sparsity-Assisted Signal Decomposition with Non-Convex Enhancement for Bearing Fault Diagnosis. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	5
68	Blade Tip Timing: from Raw Data to Parameters Identification 2019 ,		4
67	Operational transfer path analysis with crosstalk cancellation using independent component analysis. <i>Journal of Sound and Vibration</i> , 2020 , 473, 115224	3.9	4
66	Strain Rate Dependent Deformation of a Polymer Matrix Composite with Different Microstructures Subjected to Off-Axis Loading. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-11	1.1	4
65	Dynamic modeling of planetary gear set with tooth surface wear. <i>Procedia Manufacturing</i> , 2020 , 49, 49-54	5.5	4
64	An OPR-free Blade Tip Timing Method Based on Blade Spacing Change 2020 ,		4
63	Robust sparse representation model for blade tip timing. <i>Journal of Sound and Vibration</i> , 2021 , 500, 116028	3.9	4
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