

Xue-Feng Chen

List of Publications by Year in descending order

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256
papers

13,331
citations

26626

56
h-index

25787

108
g-index

257
all docs

257
docs citations

257
times ranked

6775
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence for fault diagnosis of rotating machinery: A review. <i>Mechanical Systems and Signal Processing</i> , 2018, 108, 33-47.	8.0	1,401
2	Wavelets for fault diagnosis of rotary machines: A review with applications. <i>Signal Processing</i> , 2014, 96, 1-15.	3.7	1,081
3	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.	5.0	570
4	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.	11.3	329
5	Matching Demodulation Transform and SynchroSqueezing in Time-Frequency Analysis. <i>IEEE Transactions on Signal Processing</i> , 2014, 62, 69-84.	5.3	274
6	Deep learning algorithms for rotating machinery intelligent diagnosis: An open source benchmark study. <i>ISA Transactions</i> , 2020, 107, 224-255.	5.7	271
7	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.	11.3	268
8	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.	5.9	247
9	Convolutional Discriminative Feature Learning for Induction Motor Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 1350-1359.	11.3	236
10	The concept and progress of intelligent spindles: A review. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 112, 21-52.	13.4	201
11	Deep Coupling Autoencoder for Fault Diagnosis With Multimodal Sensory Data. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 1137-1145.	11.3	198
12	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.	8.0	187
13	Nonconvex Sparse Regularization and Convex Optimization for Bearing Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 7332-7342.	7.9	179
14	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.	11.3	177
15	Knowledge Transfer for Rotary Machine Fault Diagnosis. <i>IEEE Sensors Journal</i> , 2020, 20, 8374-8393.	4.7	176
16	Compressed sensing based on dictionary learning for extracting impulse components. <i>Signal Processing</i> , 2014, 96, 94-109.	3.7	162
17	Sparse Deep Stacking Network for Fault Diagnosis of Motor. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 3261-3270.	11.3	155
18	Few-shot transfer learning for intelligent fault diagnosis of machine. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 166, 108202.	5.0	150

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19	Enhanced Sparse Period-Group Lasso for Bearing Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2019, 66, 2143-2153.	7.9	146
20	Sparse Feature Identification Based on Union of Redundant Dictionary for Wind Turbine Gearbox Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2015, 62, 6594-6605.	7.9	144
21	Time-frequency atoms-driven support vector machine method for bearings incipient fault diagnosis. Mechanical Systems and Signal Processing, 2016, 75, 345-370.	8.0	143
22	Multireceptive Field Graph Convolutional Networks for Machine Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2021, 68, 12739-12749.	7.9	143
23	An ACO-based algorithm for parameter optimization of support vector machines. Expert Systems With Applications, 2010, 37, 6618-6628.	7.6	141
24	Matching Synchrosqueezing Wavelet Transform and Application to Aeroengine Vibration Monitoring. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 360-372.	4.7	140
25	Applications of Unsupervised Deep Transfer Learning to Intelligent Fault Diagnosis: A Survey and Comparative Study. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-28.	4.7	137
26	WaveletKernelNet: An Interpretable Deep Neural Network for Industrial Intelligent Diagnosis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2302-2312.	9.3	136
27	Matching synchrosqueezing transform: A useful tool for characterizing signals with fast varying instantaneous frequency and application to machine fault diagnosis. Mechanical Systems and Signal Processing, 2018, 100, 242-288.	8.0	135
28	Kurtosis based weighted sparse model with convex optimization technique for bearing fault diagnosis. Mechanical Systems and Signal Processing, 2016, 80, 349-376.	8.0	125
29	Reliability estimation for cutting tools based on logistic regression model using vibration signals. Mechanical Systems and Signal Processing, 2011, 25, 2526-2537.	8.0	124
30	The construction of wavelet finite element and its application. Finite Elements in Analysis and Design, 2004, 40, 541-554.	3.2	123
31	Wavelet-based numerical analysis: A review and classification. Finite Elements in Analysis and Design, 2014, 81, 14-31.	3.2	119
32	The emerging graph neural networks for intelligent fault diagnostics and prognostics: A guideline and a benchmark study. Mechanical Systems and Signal Processing, 2022, 168, 108653.	8.0	118
33	Sparse regularization for force identification using dictionaries. Journal of Sound and Vibration, 2016, 368, 71-86.	3.9	104
34	Discriminative Deep Belief Networks with Ant Colony Optimization for Health Status Assessment of Machine. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3115-3125.	4.7	101
35	A new noise-controlled second-order enhanced stochastic resonance method with its application in wind turbine drivetrain fault diagnosis. Renewable Energy, 2013, 60, 7-19.	8.9	97
36	Sparse representation based on parametric impulsive dictionary design for bearing fault diagnosis. Mechanical Systems and Signal Processing, 2019, 122, 737-753.	8.0	89

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37	Matching Demodulation Transform With Application to Feature Extraction of Rotor Rub-Impact Fault. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1372-1383.	4.7	88
38	Interpreting network knowledge with attention mechanism for bearing fault diagnosis. Applied Soft Computing Journal, 2020, 97, 106829.	7.2	87
39	Sparse deconvolution for the large-scale ill-posed inverse problem of impact force reconstruction. Mechanical Systems and Signal Processing, 2017, 83, 93-115.	8.0	86
40	A guided wave dispersion compensation method based on compressed sensing. Mechanical Systems and Signal Processing, 2018, 103, 89-104.	8.0	86
41	Hierarchical attention graph convolutional network to fuse multi-sensor signals for remaining useful life prediction. Reliability Engineering and System Safety, 2021, 215, 107878.	8.9	81
42	A Monotonic Degradation Assessment Index of Rolling Bearings Using Fuzzy Support Vector Data Description and Running Time. Sensors, 2012, 12, 10109-10135.	3.8	80
43	Fault-Attention Generative Probabilistic Adversarial Autoencoder for Machine Anomaly Detection. IEEE Transactions on Industrial Informatics, 2020, 16, 7479-7488.	11.3	77
44	Gear fault diagnosis based on the structured sparsity time-frequency analysis. Mechanical Systems and Signal Processing, 2018, 102, 346-363.	8.0	73
45	Nonlinear squeezing time-frequency transform for weak signal detection. Signal Processing, 2015, 113, 195-210.	3.7	71
46	Challenges and Opportunities of AI-Enabled Monitoring, Diagnosis & Prognosis: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	70
47	Deep-Learning-Based Open Set Fault Diagnosis by Extreme Value Theory. IEEE Transactions on Industrial Informatics, 2022, 18, 185-196.	11.3	69
48	The application of cubic B-spline collocation method in impact force identification. Mechanical Systems and Signal Processing, 2015, 64-65, 413-427.	8.0	65
49	Sparse Time-Frequency Representation for Incipient Fault Diagnosis of Wind Turbine Drive Train. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2616-2627.	4.7	64
50	A force identification method using cubic B-spline scaling functions. Journal of Sound and Vibration, 2015, 337, 28-44.	3.9	63
51	Damage identification for plate-like structures using ultrasonic guided wave based on improved MUSIC method. Composite Structures, 2018, 203, 164-171.	5.8	63
52	Domain Adversarial Graph Convolutional Network for Fault Diagnosis Under Variable Working Conditions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	63
53	Early chatter detection in end milling based on multi-feature fusion and \mathcal{J}_f criterion. International Journal of Advanced Manufacturing Technology, 2017, 92, 4387-4397.	3.0	62
54	A weighted multi-scale dictionary learning model and its applications on bearing fault diagnosis. Journal of Sound and Vibration, 2019, 446, 429-452.	3.9	62

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55	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.	3.2	59
56	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.	2.1	58
57	An Improved Multiple Signal Classification for Nonuniform Sampling in Blade Tip Timing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 7941-7952.	4.7	58
58	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	57
59	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.	5.0	57
60	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.	3.2	56
61	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.	8.0	56
62	An enhanced sparse regularization method for impact force identification. <i>Mechanical Systems and Signal Processing</i> , 2019, 126, 341-367.	8.0	56
63	Group sparse regularization for impact force identification in time domain. <i>Journal of Sound and Vibration</i> , 2019, 445, 44-63.	3.9	56
64	Wave motion analysis in arch structures via wavelet finite element method. <i>Journal of Sound and Vibration</i> , 2014, 333, 446-469.	3.9	53
65	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.	11.3	52
66	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.	4.2	51
67	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.	4.7	51
68	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.	8.0	47
69	Intelligent Fault Diagnosis for Planetary Gearbox Using Time-Frequency Representation and Deep Reinforcement Learning. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 985-998.	5.8	47
70	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	46
71	A study of multiscale wavelet-based elements for adaptive finite element analysis. <i>Advances in Engineering Software</i> , 2010, 41, 196-205.	3.8	45
72	A Multisource Dense Adaptation Adversarial Network for Fault Diagnosis of Machinery. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 6298-6307.	7.9	45

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73	A Deep Coupled Network for Health State Assessment of Cutting Tools Based on Fusion of Multisensory Signals. IEEE Transactions on Industrial Informatics, 2019, 15, 6415-6424.	11.3	44
74	Adaptive Channel Weighted CNN With Multisensor Fusion for Condition Monitoring of Helicopter Transmission System. IEEE Sensors Journal, 2020, 20, 8364-8373.	4.7	44
75	Locally Linear Embedding on Grassmann Manifold for Performance Degradation Assessment of Bearings. IEEE Transactions on Reliability, 2017, 66, 467-477.	4.6	43
76	Construction of health indicators for condition monitoring of rotating machinery: A review of the research. Expert Systems With Applications, 2022, 203, 117297.	7.6	42
77	A Novel Method for Force Identification Based on the Discrete Cosine Transform. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	39
78	Hybrid two-step method of damage detection for plate-like structures. Structural Control and Health Monitoring, 2016, 23, 267-285.	4.0	38
79	An Intelligent Fault Diagnosis Method Based on Domain Adaptation and Its Application for Bearings Under Polytropic Working Conditions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	38
80	A Non-Probabilistic Metric Derived From Condition Information for Operational Reliability Assessment of Aero-Engines. IEEE Transactions on Reliability, 2015, 64, 167-181.	4.6	37
81	Analysis and compensation of reference frequency mismatch in multiple-frequency feedforward active noise and vibration control system. Journal of Sound and Vibration, 2017, 409, 145-164.	3.9	37
82	A weighted sparse reconstruction-based ultrasonic guided wave anomaly imaging method for composite laminates. Composite Structures, 2019, 209, 233-241.	5.8	37
83	Cyclostationary modeling for local fault diagnosis of planetary gear vibration signals. Journal of Sound and Vibration, 2020, 471, 115175.	3.9	36
84	A Reinforced k -Nearest Neighbors Method With Application to Chatter Identification in High-Speed Milling. IEEE Transactions on Industrial Electronics, 2020, 67, 10844-10855.	7.9	36
85	Model-driven deep unrolling: Towards interpretable deep learning against noise attacks for intelligent fault diagnosis. ISA Transactions, 2022, 129, 644-662.	5.7	36
86	Reweighted generalized minimax-concave sparse regularization and application in machinery fault diagnosis. ISA Transactions, 2020, 105, 320-334.	5.7	35
87	Chatter detection based on synchrosqueezing transform and statistical indicators in milling process. International Journal of Advanced Manufacturing Technology, 2018, 95, 961-972.	3.0	34
88	Learning from Class-imbalanced Data with a Model-Agnostic Framework for Machine Intelligent Diagnosis. Reliability Engineering and System Safety, 2021, 216, 107934.	8.9	34
89	Spline adaptive filter with arctangent-momentum strategy for nonlinear system identification. Signal Processing, 2019, 164, 99-109.	3.7	33
90	A transferable lithium-ion battery remaining useful life prediction method from cycle-consistency of degradation trend. Journal of Power Sources, 2022, 521, 230975.	7.8	32

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91	Weighted low-rank sparse model via nuclear norm minimization for bearing fault detection. Journal of Sound and Vibration, 2017, 400, 270-287.	3.9	31
92	Non-convex sparse regularization for impact force identification. Journal of Sound and Vibration, 2020, 477, 115311.	3.9	31
93	A damage identification approach for plate structures based on frequency measurements. Nondestructive Testing and Evaluation, 2013, 28, 321-341.	2.1	30
94	Nonlocal sparse model with adaptive structural clustering for feature extraction of aero-engine bearings. Journal of Sound and Vibration, 2016, 368, 223-248.	3.9	29
95	Mechanism of Fast Time-Varying Vibration for Rotor-Stator Contact System: With Application to Fault Diagnosis. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.6	29
96	Conditional Adversarial Domain Adaptation With Discrimination Embedding for Locomotive Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	29
97	Sparse representation theory for support vector machine kernel function selection and its application in high-speed bearing fault diagnosis. ISA Transactions, 2021, 118, 207-218.	5.7	29
98	Sifting process of EMD and its application in rolling element bearing fault diagnosis. Journal of Mechanical Science and Technology, 2009, 23, 2000-2007.	1.5	28
99	Multivariable finite elements based on B-spline wavelet on the interval for thin plate static and vibration analysis. Finite Elements in Analysis and Design, 2010, 46, 416-427.	3.2	28
100	Condition assessment for automatic tool changer based on sparsity-enabled signal decomposition method. Mechatronics, 2015, 31, 50-59.	3.3	28
101	Sparsity-aware tight frame learning with adaptive subspace recognition for multiple fault diagnosis. Mechanical Systems and Signal Processing, 2017, 94, 499-524.	8.0	28
102	The hybrid multivariate analysis method for damage detection. Structural Control and Health Monitoring, 2016, 23, 123-143.	4.0	27
103	Impact force reconstruction and localization using nonconvex overlapping group sparsity. Mechanical Systems and Signal Processing, 2022, 162, 107983.	8.0	27
104	Sparse Multiperiod Group Lasso for Bearing Multifault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 419-431.	4.7	26
105	Wind Turbine Diagnosis under Variable Speed Conditions Using a Single Sensor Based on the Synchronizing Transform Method. Sensors, 2017, 17, 1149.	3.8	25
106	A parameter estimation based sparse representation approach for mode separation and dispersion compensation of Lamb waves in isotropic plate. Smart Materials and Structures, 2020, 29, 035020.	3.5	25
107	Nonlinear Squeezing Time-Frequency Transform and Application in Rotor Rub-Impact Fault Diagnosis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	2.2	24
108	Convolutional Sparse Learning for Blind Deconvolution and Application on Impulsive Feature Detection. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 338-349.	4.7	24

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109	Weighted sparse representation based on failure dynamics simulation for planetary gearbox fault diagnosis. <i>Measurement Science and Technology</i> , 2019, 30, 045008.	2.6	24
110	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.	8.0	23
111	Convulsive blind source separation in frequency domain with kurtosis maximization by modified conjugate gradient. <i>Mechanical Systems and Signal Processing</i> , 2019, 134, 106331.	8.0	23
112	Sparsity-assisted bearing fault diagnosis using multiscale period group lasso. <i>ISA Transactions</i> , 2020, 98, 338-348.	5.7	23
113	Composite-Graph-Based Sparse Subspace Clustering for Machine Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 1850-1859.	4.7	23
114	Nonlinear dynamic behavior of rotating blade with breathing crack. <i>Frontiers of Mechanical Engineering</i> , 2021, 16, 196-220.	4.3	23
115	Rotating blade frequency identification by single-probe blade tip timing. <i>Mechanical Systems and Signal Processing</i> , 2022, 172, 108961.	8.0	23
116	Operation Reliability Assessment for Cutting Tools by Applying a Proportional Covariate Model to Condition Monitoring Information. <i>Sensors</i> , 2012, 12, 12964-12987.	3.8	22
117	Compressed-Sensing-Based Periodic Impulsive Feature Detection for Wind Turbine Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 2933-2945.	11.3	22
118	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.	8.0	22
119	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.	8.0	22
120	Vector minimax concave penalty for sparse representation. , 2018, 83, 165-179.		21
121	Aero-engine bearing fault detection: A clustering low-rank approach. <i>Mechanical Systems and Signal Processing</i> , 2020, 138, 106529.	8.0	21
122	Ridge-Aware Weighted Sparse Time-Frequency Representation. <i>IEEE Transactions on Signal Processing</i> , 2021, 69, 136-149.	5.3	21
123	Blade dynamic strain non-intrusive measurement using L1/2-norm regularization and transmissibility. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 190, 110677.	5.0	21
124	Interpretable Neural Network via Algorithm Unrolling for Mechanical Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-11.	4.7	21
125	Hierarchical hyper-Laplacian prior for weak fault feature enhancement. <i>ISA Transactions</i> , 2020, 96, 429-443.	5.7	20
126	Impact force identification via sparse regularization with generalized minimax-concave penalty. <i>Journal of Sound and Vibration</i> , 2020, 484, 115530.	3.9	20

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127	Adaptive Robust Noise Modeling of Sparse Representation for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	20
128	Memory Residual Regression Autoencoder for Bearing Fault Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	20
129	Fast Sparsity-Assisted Signal Decomposition With Nonconvex Enhancement for Bearing Fault Diagnosis. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2333-2344.	5.8	20
130	Influence of Sliding Friction on the Dynamic Characteristics of a Planetary Gear Set With the Improved Time-Varying Mesh Stiffness. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	2.9	20
131	Ensemble deep learning with multi-objective optimization for prognosis of rotating machinery. ISA Transactions, 2021, 113, 166-174.	5.7	19
132	Sparse reconstruction for blade tip timing signal using generalized minimax-concave penalty. Mechanical Systems and Signal Processing, 2021, 161, 107961.	8.0	19
133	Learning Collaborative Sparsity Structure via Nonconvex Optimization for Feature Recognition. IEEE Transactions on Industrial Informatics, 2018, 14, 4417-4430.	11.3	18
134	Steady-state coupling vibration analysis of shaft-disk-blade system with blade crack. Nonlinear Dynamics, 2021, 105, 61-98.	5.2	18
135	Predicting the elastoplastic response of fiber-reinforced metal matrix composites. Mechanics of Composite Materials, 2010, 46, 405-416.	1.4	17
136	Modified Hermitian cubic spline wavelet on interval finite element for wave propagation and load identification. Finite Elements in Analysis and Design, 2014, 91, 48-58.	3.2	17
137	Effects of Crack on Vibration Characteristics of Mistuned Rotated Blades. Shock and Vibration, 2017, 2017, 1-18.	0.6	17
138	Crack growth sparse pursuit for wind turbine blade. Smart Materials and Structures, 2015, 24, 015002.	3.5	16
139	Terahertz nondestructive quantitative characterization for layer thickness based on sparse representation method. NDT and E International, 2021, 124, 102536.	3.7	16
140	Adaptive Compensation of Mismatch in Narrowband Active Noise Equalizer Systems. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 2390-2399.	5.8	15
141	Data-driven multiscale sparse representation for bearing fault diagnosis in wind turbine. Wind Energy, 2019, 22, 587-604.	4.2	15
142	Dynamic modeling of planetary gear set with tooth surface wear. Procedia Manufacturing, 2020, 49, 49-54.	1.9	15
143	Multi-scale CNN for Multi-sensor Feature Fusion in Helical Gear Fault Detection. Procedia Manufacturing, 2020, 49, 89-93.	1.9	15
144	Conditional Adversarial Domain Generalization With a Single Discriminator for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	15

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145	FRF-based lamb wave phased array. <i>Mechanical Systems and Signal Processing</i> , 2022, 166, 108462.	8.0	15
146	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.	4.7	15
147	Strain rate influence on nonlinear response of polymer matrix composites. <i>Polymer Composites</i> , 2015, 36, 800-810.	4.6	14
148	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.	2.1	14
149	A Quantitative Intelligent Diagnosis Method for Early Weak Faults of Aviation High-speed Bearings. <i>ISA Transactions</i> , 2019, 93, 370-383.	5.7	14
150	Bayesian Differentiable Architecture Search for Efficient Domain Matching Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	4.7	14
151	Adaptive Broad Learning System for High-Efficiency Fault Diagnosis of Rotating Machinery. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	4.7	14
152	The analysis of shallow shells based on multivariable wavelet finite element method. <i>Acta Mechanica Solida Sinica</i> , 2011, 24, 450-460.	1.9	13
153	Traveling distance estimation for dispersive Lamb waves through sparse Bayesian learning strategy. <i>Smart Materials and Structures</i> , 2019, 28, 085008.	3.5	13
154	Frequency domain spline adaptive filters. <i>Signal Processing</i> , 2020, 177, 107752.	3.7	13
155	Sparsity-Assisted Fault Feature Enhancement: Algorithm-Aware Versus Model-Aware. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 7004-7014.	4.7	13
156	A Novel Multiscale Lightweight Fault Diagnosis Model Based on the Idea of Adversarial Learning. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-15.	4.7	13
157	Task-incremental broad learning system for multi-component intelligent fault diagnosis of machinery. <i>Knowledge-Based Systems</i> , 2022, 246, 108730.	7.1	13
158	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.	2.6	12
159	Operational transfer path analysis with crosstalk cancellation using independent component analysis. <i>Journal of Sound and Vibration</i> , 2020, 473, 115224.	3.9	12
160	Low-rank enhanced convolutional sparse feature detection for accurate diagnosis of gearbox faults. <i>Mechanical Systems and Signal Processing</i> , 2021, 150, 107215.	8.0	12
161	Interinstance and Intratemporal Self-Supervised Learning With Few Labeled Data for Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2023, 19, 6502-6512.	11.3	12
162	Interval variable step-size spline adaptive filter for the identification of nonlinear block-oriented system. <i>Nonlinear Dynamics</i> , 2019, 98, 1629-1643.	5.2	11

#	ARTICLE	IF	CITATIONS
163	Collaborative sparse classification for aero-engine's gear hub crack diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2020, 141, 106426.	8.0	11
164	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.	2.6	11
165	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.	1.0	11
166	Automatic tracking of natural frequency in the time-frequency domain for blade tip timing. <i>Journal of Sound and Vibration</i> , 2022, 516, 116522.	3.9	11
167	Biprobes Blade Tip Timing Method for Frequency Identification Based on Active Aliasing Time-Delay Estimation and Dealiasing. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 1939-1948.	7.9	11
168	Application of support vector machine for equipment reliability forecasting. , 2008, , .		10
169	The Analysis of Curved Beam Using B-Spline Wavelet on Interval Finite Element Method. <i>Shock and Vibration</i> , 2014, 2014, 1-9.	0.6	10
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