

# Xuefeng Chen

## List of Publications by Year in descending order

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338  
papers

16,761  
citations

21215

62  
h-index

22488

117  
g-index

339  
all docs

339  
docs citations

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times ranked

9265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromechanical modeling of cyclic elasto-viscoplastic behavior of unidirectional metal matrix composites under elevated temperature. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 3285-3300.	1.5	3
2	Impact force reconstruction and localization using nonconvex overlapping group sparsity. <i>Mechanical Systems and Signal Processing</i> , 2022, 162, 107983.	4.4	27
3	WaveletKernelNet: An Interpretable Deep Neural Network for Industrial Intelligent Diagnosis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 2302-2312.	5.9	136
4	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.	3.7	47
5	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.	4.4	118
6	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.	2.5	21
7	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> , 2022, 189, 110633.	2.5	7
8	Active control of milling chatter considering the coupling effect of spindle-tool and workpiece systems. <i>Mechanical Systems and Signal Processing</i> , 2022, 169, 108769.	4.4	18
9	Real time FFT identification based time-varying chatter frequency mitigation in thin-wall workpiece milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 7403.	1.5	3
10	An improved hydrodynamic/acoustic splitting method for fluid-structure interaction feedback with elastic boundaries. <i>Physics of Fluids</i> , 2022, 34, 023606.	1.6	1
11	Model-driven deep unrolling: Towards interpretable deep learning against noise attacks for intelligent fault diagnosis. <i>ISA Transactions</i> , 2022, 129, 644-662.	3.1	36
12	Task-incremental broad learning system for multi-component intelligent fault diagnosis of machinery. <i>Knowledge-Based Systems</i> , 2022, 246, 108730.	4.0	13
13	Short-time consistent domain adaptation for rolling bearing fault diagnosis under varying working conditions. <i>Measurement Science and Technology</i> , 2022, 33, 075105.	1.4	0
14	Displacement difference feedback control of chatter in milling processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 6053-6066.	1.5	7
15	Parametric prediction model and periodic fluctuation interpretation of unidirectional CFRP edge milling force. <i>Composite Structures</i> , 2022, 287, 115387.	3.1	9
16	Bi-regularization enhanced azimuthal mode analysis method for the aero-engine fan. <i>Mechanical Systems and Signal Processing</i> , 2022, 171, 108921.	4.4	3
17	Convolution enabled transformer via random contrastive regularization for rotating machinery diagnosis under time-varying working conditions. <i>Mechanical Systems and Signal Processing</i> , 2022, 173, 109050.	4.4	16
18	Mesh relationship modeling and dynamic characteristic analysis of external spur gears with gear wear. <i>Frontiers of Mechanical Engineering</i> , 2022, 17, .	2.5	5

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19	Construction of health indicators for condition monitoring of rotating machinery: A review of the research. <i>Expert Systems With Applications</i> , 2022, 203, 117297.	4.4	42
20	Feature Enhancement Based on Regular Sparse Model for Planetary Gearbox Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-16.	2.4	5
21	Broad auto-encoder for machinery intelligent fault diagnosis with incremental fault samples and fault modes. <i>Mechanical Systems and Signal Processing</i> , 2022, 178, 109353.	4.4	11
22	A UMAP-based clustering method for multi-scale damage analysis of laminates. <i>Applied Mathematical Modelling</i> , 2022, 111, 78-93.	2.2	3
23	Matrix failures effect on damage evolution of particle reinforced composites. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 635-647.	1.5	7
24	Conditional Adversarial Domain Adaptation With Discrimination Embedding for Locomotive Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-12.	2.4	29
25	Fuzzy control of milling chatter with piezoelectric actuators embedded to the tool holder. <i>Mechanical Systems and Signal Processing</i> , 2021, 148, 107190.	4.4	28
26	Dynamic modeling and abnormal contact analysis of rolling ball bearings with double half-inner rings. <i>Mechanical Systems and Signal Processing</i> , 2021, 147, 107075.	4.4	10
27	Ensemble deep learning with multi-objective optimization for prognosis of rotating machinery. <i>ISA Transactions</i> , 2021, 113, 166-174.	3.1	19
28	Fault mechanism and dynamic modeling of planetary gear with gear wear. <i>Mechanism and Machine Theory</i> , 2021, 155, 104098.	2.7	71
29	Low-rank enhanced convolutional sparse feature detection for accurate diagnosis of gearbox faults. <i>Mechanical Systems and Signal Processing</i> , 2021, 150, 107215.	4.4	12
30	Robust enhanced trend filtering with unknown noise. <i>Signal Processing</i> , 2021, 180, 107889.	2.1	7
31	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.	2.4	38
32	Ridge-Aware Weighted Sparse Time-Frequency Representation. <i>IEEE Transactions on Signal Processing</i> , 2021, 69, 136-149.	3.2	21
33	Microscale intrinsic properties of hybrid unidirectional/woven composite laminates: Part I experimental tests. <i>Composite Structures</i> , 2021, 262, 113369.	3.1	23
34	Faster Multiscale Dictionary Learning Method With Adaptive Parameter Estimation for Fault Diagnosis of Traction Motor Bearings. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	2.4	8
35	Investigation on the influence of spalling defects on the dynamic performance of planetary gear sets with sliding friction. <i>Tribology International</i> , 2021, 154, 106639.	3.0	37
36	Fast multiline spectral reshaping algorithm for active vibration control. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2021, 40, 481-496.	1.3	3

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37	Blade Crack Detection using Blade Tip Timing. IEEE Transactions on Instrumentation and Measurement, 2021, , 1-1.	2.4	7
38	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.	2.4	137
39	Domain Adversarial Graph Convolutional Network for Fault Diagnosis Under Variable Working Conditions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	63
40	Adaptive Robust Noise Modeling of Sparse Representation for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	20
41	Collaborative Double Sparse Period-Group Lasso for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	9
42	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.	3.1	29
43	Cascade Convolutional Neural Network With Progressive Optimization for Motor Fault Diagnosis Under Nonstationary Conditions. IEEE Transactions on Industrial Informatics, 2021, 17, 2511-2521.	7.2	52
44	Low-dimensional multi-scale Fisher discriminant dictionary learning for intelligent gear-fault diagnosis. Measurement Science and Technology, 2021, 32, 084001.	1.4	2
45	Challenges and Opportunities of AI-Enabled Monitoring, Diagnosis & Prognosis: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	70
46	Rewighted generalized minimax-concave sparse regularization for duct acoustic mode detection with adaptive threshold. Journal of Sound and Vibration, 2021, 506, 116165.	2.1	7
47	Adaptive neighborhood selection based on locally linear embedding for the degradation index construction of traction motor bearing. Measurement Science and Technology, 2021, 32, 115123.	1.4	3
48	Crack propagation monitoring of rotor blades using synchroextracting transform. Journal of Sound and Vibration, 2021, 509, 116253.	2.1	15
49	A deep sequence multi-distribution adversarial model for bearing abnormal condition detection. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109529.	2.5	9
50	A wavelet immersed boundary method for two-variable coupled fluid-structure interactions. Applied Mathematics and Computation, 2021, 405, 126243.	1.4	6
51	Three-dimensional nondestructive characterization of delamination in GFRP by terahertz time-of-flight tomography with sparse Bayesian learning-based spectrum-graph integration strategy. Composites Part B: Engineering, 2021, 225, 109285.	5.9	16
52	Sparse reconstruction for blade tip timing signal using generalized minimax-concave penalty. Mechanical Systems and Signal Processing, 2021, 161, 107961.	4.4	19
53	Convolutional plug-and-play sparse optimization for impulsive blind deconvolution. Mechanical Systems and Signal Processing, 2021, 161, 107877.	4.4	5
54	Terahertz nondestructive quantitative characterization for layer thickness based on sparse representation method. NDT and E International, 2021, 124, 102536.	1.7	16

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55	Multireceptive Field Graph Convolutional Networks for Machine Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2021, 68, 12739-12749.	5.2	143
56	Bayesian Differentiable Architecture Search for Efficient Domain Matching Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	14
57	Adaptive Broad Learning System for High-Efficiency Fault Diagnosis of Rotating Machinery. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	14
58	Model-based detection of soft faults using the smoothed residual for a control system. Measurement Science and Technology, 2021, 32, 015107.	1.4	6
59	Robust Supervised Contrastive Learning for Fault Diagnosis Under Different Noises and Conditions. , 2021, , .		2
60	Hierarchical hyper-Laplacian prior for weak fault feature enhancement. ISA Transactions, 2020, 96, 429-443.	3.1	20
61	Sparse Multiperiod Group Lasso for Bearing Multifault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 419-431.	2.4	26
62	Sparsity-assisted bearing fault diagnosis using multiscale period group lasso. ISA Transactions, 2020, 98, 338-348.	3.1	23
63	Composite-Graph-Based Sparse Subspace Clustering for Machine Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1850-1859.	2.4	23
64	Static and dynamic analysis of cylindrical shell by different kinds of B-spline wavelet finite elements on the interval. Engineering With Computers, 2020, 36, 1903-1914.	3.5	3
65	Knowledge Transfer for Rotary Machine Fault Diagnosis. IEEE Sensors Journal, 2020, 20, 8374-8393.	2.4	176
66	Collaborative sparse classification for aero-engine's gear hub crack diagnosis. Mechanical Systems and Signal Processing, 2020, 141, 106426.	4.4	11
67	Aero-engine bearing fault detection: A clustering low-rank approach. Mechanical Systems and Signal Processing, 2020, 138, 106529.	4.4	21
68	A Reinforced $k$ -Nearest Neighbors Method With Application to Chatter Identification in High-Speed Milling. IEEE Transactions on Industrial Electronics, 2020, 67, 10844-10855.	5.2	36
69	Deep learning algorithms for rotating machinery intelligent diagnosis: An open source benchmark study. ISA Transactions, 2020, 107, 224-255.	3.1	271
70	The sparse and low-rank interpretation of SVD-based denoising for vibration signals. , 2020, , .		2
71	Dynamic modeling of planetary gear set with tooth surface wear. Procedia Manufacturing, 2020, 49, 49-54.	1.9	15
72	Multi-scale CNN for Multi-sensor Feature Fusion in Helical Gear Fault Detection. Procedia Manufacturing, 2020, 49, 89-93.	1.9	15

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73	Rewighted generalized minimax-concave sparse regularization and application in machinery fault diagnosis. ISA Transactions, 2020, 105, 320-334.	3.1	35
74	Nonnegative Bounded Convolutional Sparse Learning Method for Envelope Feature Deconvolution. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8666-8679.	2.4	8
75	An Engineering-Problem-Based Short Experiment Project on Finite Element Method for Undergraduate Students. Education Sciences, 2020, 10, 45.	1.4	4
76	Non-convex sparse regularization for impact force identification. Journal of Sound and Vibration, 2020, 477, 115311.	2.1	31
77	Weak chatter detection in milling based on sparse dictionary. Procedia Manufacturing, 2020, 48, 839-843.	1.9	5
78	Impact force identification via sparse regularization with generalized minimax-concave penalty. Journal of Sound and Vibration, 2020, 484, 115530.	2.1	20
79	Sparsity-Assisted Fault Feature Enhancement: Algorithm-Aware Versus Model-Aware. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7004-7014.	2.4	13
80	Fault-Attention Generative Probabilistic Adversarial Autoencoder for Machine Anomaly Detection. IEEE Transactions on Industrial Informatics, 2020, 16, 7479-7488.	7.2	77
81	Time-varying mesh stiffness calculation of a planetary gear set with the spalling defect under sliding friction. Meccanica, 2020, 55, 245-260.	1.2	17
82	An improvement of time-reassigned synchrosqueezing transform algorithm and its application in mechanical fault diagnosis. Measurement: Journal of the International Measurement Confederation, 2020, 155, 107538.	2.5	21
83	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.	1.8	25
84	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, .	1.7	20
85	Model-based Parameter Estimation Method for Terahertz Signals. , 2020, , .		1
86	Enhanced Sparse Period-Group Lasso for Bearing Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2019, 66, 2143-2153.	5.2	146
87	Dynamic modeling of spindle bearing system and vibration response investigation. Mechanical Systems and Signal Processing, 2019, 114, 486-511.	4.4	55
88	Machine health monitoring based on locally linear embedding with kernel sparse representation for neighborhood optimization. Mechanical Systems and Signal Processing, 2019, 114, 25-34.	4.4	56
89	Time-reassigned synchrosqueezing transform: The algorithm and its applications in mechanical signal processing. Mechanical Systems and Signal Processing, 2019, 117, 255-279.	4.4	137
90	Vibration and stability analysis of rotor-bearing-pedestal system due to clearance fit. Mechanical Systems and Signal Processing, 2019, 133, 106275.	4.4	50

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91	Physical constraints fused equiangular tight frame method for Blade Tip Timing sensor arrangement. Measurement: Journal of the International Measurement Confederation, 2019, 145, 841-851.	2.5	57
92	Model-based error motion prediction and fit clearance optimization for machine tool spindles. Mechanical Systems and Signal Processing, 2019, 133, 106252.	4.4	27
93	Adaptive vibration control on electrohydraulic shaking table system with an expanded frequency range: Theory analysis and experimental study. Mechanical Systems and Signal Processing, 2019, 132, 122-137.	4.4	22
94	Traveling distance estimation for dispersive Lamb waves through sparse Bayesian learning strategy. Smart Materials and Structures, 2019, 28, 085008.	1.8	13
95	Milling chatter control based on asymmetric stiffness. International Journal of Machine Tools and Manufacture, 2019, 147, 103458.	6.2	21
96	Homogenization and Localization of Ratcheting Behavior of Composite Materials and Structures with the Thermal Residual Stress Effect. Materials, 2019, 12, 3048.	1.3	8
97	Evaluate the Fatigue Life of CFRC Subjected to Coupled Thermo-Mechanical Loading. Materials, 2019, 12, 2886.	1.3	2
98	Data-driven multiscale sparse representation for bearing fault diagnosis in wind turbine. Wind Energy, 2019, 22, 587-604.	1.9	15
99	TPA and RCSA based frequency response function modelling for cutting forces compensation. Journal of Sound and Vibration, 2019, 456, 272-288.	2.1	14
100	Lamb wave inspection for composite laminates using a combined method of sparse reconstruction and delay-and-sum. Composite Structures, 2019, 223, 110973.	3.1	39
101	Noise analysis and sources identification in machine tool spindles. CIRP Journal of Manufacturing Science and Technology, 2019, 25, 26-35.	2.3	9
102	Adaptive vibration reshaping based milling chatter suppression. International Journal of Machine Tools and Manufacture, 2019, 141, 30-35.	6.2	27
103	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.	7.2	44
104	Time-Varying Chatter Frequency Characteristics in Thin-Walled Workpiece Milling With B-Spline Wavelet on Interval Finite Element Method. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	8
105	Two Kinds of Finite Element Variables Based on B-Spline Wavelet on Interval for Curved Beam. International Journal of Applied Mechanics, 2019, 11, 1950017.	1.3	5
106	A Quantitative Intelligent Diagnosis Method for Early Weak Faults of Aviation High-speed Bearings. ISA Transactions, 2019, 93, 370-383.	3.1	14
107	Fast Nonlinear Chirplet Dictionary-Based Sparse Decomposition for Rotating Machinery Fault Diagnosis Under Nonstationary Conditions. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4736-4745.	2.4	6
108	Discrete Time-Delay Optimal Control Method for Experimental Active Chatter Suppression and Its Closed-Loop Stability Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	6



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109	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.	4.4	47
110	Evaluating the influence of tooth surface wear on TVMS of planetary gear set. <i>Mechanism and Machine Theory</i> , 2019, 136, 206-223.	2.7	84
111	Model predictive control based active chatter control in milling process. <i>Mechanical Systems and Signal Processing</i> , 2019, 128, 266-281.	4.4	44
112	Dynamic Force Identification in Peripheral Milling Based on CGLS Using Filtered Acceleration Signals and Averaged Transfer Functions. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	1.3	15
113	An enhanced sparse regularization method for impact force identification. <i>Mechanical Systems and Signal Processing</i> , 2019, 126, 341-367.	4.4	56
114	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.	2.1	62
115	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.	4.4	22
116	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> , 2019, 38, 664-683.	1.3	1
117	Intelligent Time-Domain Parameters Matching for Shock Response Spectrum and Its Experimental Validation in Active Vibration Control Systems. <i>Shock and Vibration</i> , 2019, 2019, 1-16.	0.3	2
118	A clustering low-rank approach for aero-enging bearing fault detection. , 2019, , .		4
119	Robust active control based milling chatter suppression with perturbation model via piezoelectric stack actuators. <i>Mechanical Systems and Signal Processing</i> , 2019, 120, 808-835.	4.4	47
120	Enhancing pyroelectric properties in $(\text{Pb}1\hat{\text{a}}\text{€}1.5\text{La})(\text{Zr}0.86\text{Ti}0.14)\text{O}3$ ceramics through composition modulated phase transition. <i>Ceramics International</i> , 2019, 45, 7114-7119.	2.3	19
121	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.	7.2	329
122	Zoom synchrosqueezing transform-based chatter identification in the milling process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1197-1213.	1.5	9
123	Multi harmonic and random stiffness excitation for milling chatter suppression. <i>Mechanical Systems and Signal Processing</i> , 2019, 120, 777-792.	4.4	27
124	A multi-scale model for studying failure mechanisms of composite wind turbine blades. <i>Composite Structures</i> , 2019, 212, 220-229.	3.1	46
125	Group sparse regularization for impact force identification in time domain. <i>Journal of Sound and Vibration</i> , 2019, 445, 44-63.	2.1	56
126	Thermal cycling influences on compressive deformations of laminate composites. <i>Polymer Composites</i> , 2019, 40, 2908-2918.	2.3	6



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127	A chatter mitigation technique in milling based on H $\hat{z}$ -ADDPMS and piezoelectric stack actuators. International Journal of Advanced Manufacturing Technology, 2019, 101, 2233-2248.	1.5	5
128	Detection of rub-impact fault for rotor-stator systems: A novel method based on adaptive chirp mode decomposition. Journal of Sound and Vibration, 2019, 440, 83-99.	2.1	107
129	Multi harmonic spindle speed variation for milling chatter suppression and parameters optimization. Precision Engineering, 2019, 55, 268-274.	1.8	24
130	Sparse Deconvolution for the Inverse Problem of Multiple-Impact Force Identification. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 1-9.	0.3	2
131	Milling stability prediction and adaptive chatter suppression considering helix angle and bending. International Journal of Advanced Manufacturing Technology, 2018, 95, 3665-3677.	1.5	19
132	Convolutional Sparse Learning for Blind Deconvolution and Application on Impulsive Feature Detection. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 338-349.	2.4	24
133	The fatigue life study of polyphenylene sulfide composites filled with continuous glass fibers. Materials Research Express, 2018, 5, 045312.	0.8	1
134	Artificial intelligence for fault diagnosis of rotating machinery: A review. Mechanical Systems and Signal Processing, 2018, 108, 33-47.	4.4	1,401
135	Dielectric and ferroelectric properties of lanthanum-modified lead zirconate stannate titanate (42/40/18) ceramics. Journal of the American Ceramic Society, 2018, 101, 3979-3988.	1.9	12
136	Deep Coupling Autoencoder for Fault Diagnosis With Multimodal Sensory Data. IEEE Transactions on Industrial Informatics, 2018, 14, 1137-1145.	7.2	198
137	Nonconvex Sparse Regularization and Convex Optimization for Bearing Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2018, 65, 7332-7342.	5.2	179
138	Vibration signal correction of unbalanced rotor due to angular speed fluctuation. Mechanical Systems and Signal Processing, 2018, 107, 202-220.	4.4	32
139	Chatter detection based on synchrosqueezing transform and statistical indicators in milling process. International Journal of Advanced Manufacturing Technology, 2018, 95, 961-972.	1.5	34
140	A novel amplitude-independent crack identification method for rotating shaft. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 4098-4112.	1.1	14
141	Sparse Deep Stacking Network for Fault Diagnosis of Motor. IEEE Transactions on Industrial Informatics, 2018, 14, 3261-3270.	7.2	155
142	High-frequency dynamic response of thin plate with uncertain parameter based on average wavelet finite element method (AWFEM). Mechanical Systems and Signal Processing, 2018, 110, 180-192.	4.4	13
143	Learning Collaborative Sparsity Structure via Nonconvex Optimization for Feature Recognition. IEEE Transactions on Industrial Informatics, 2018, 14, 4417-4430.	7.2	18
144	Multiple-harmonic amplitude and phase control method for active noise and vibration reshaping. JVC/Journal of Vibration and Control, 2018, 24, 3173-3193.	1.5	10

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145	Parametric multiphysics finite-volume theory for periodic composites with thermo-electro-elastic phases. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 530-552.	1.4	20
146	Gear fault diagnosis based on the structured sparsity time-frequency analysis. <i>Mechanical Systems and Signal Processing</i> , 2018, 102, 346-363.	4.4	73
147	Mechanical model development of rolling bearing-rotor systems: A review. <i>Mechanical Systems and Signal Processing</i> , 2018, 102, 37-58.	4.4	220
148	Stiffness variation method for milling chatter suppression via piezoelectric stack actuators. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 124, 53-66.	6.2	59
149	A Dynamic Modeling Approach for Spindle Bearing System Supported by Both Angular Contact Ball Bearing and Floating Displacement Bearing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	1.3	21
150	Basic research on machinery fault diagnostics: Past, present, and future trends. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 264-291.	2.5	102
151	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.	4.4	135
152	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, .	1.0	29
153	Milling force identification from acceleration signals using regularization method based on TSVD in peripheral milling. <i>Procedia CIRP</i> , 2018, 77, 18-21.	1.0	12
154	Dynamic modeling of machine tool spindle bearing system and model based diagnosis of bearing fault caused by collision. <i>Procedia CIRP</i> , 2018, 77, 614-617.	1.0	8
155	Model Predictive Control Based Chatter Suppression in Milling Process via Piezoelectric Stack Actuators. <i>Procedia CIRP</i> , 2018, 78, 31-36.	1.0	5
156	Active chatter control in high speed milling processes based on H <sup>∞</sup> almost disturbance decoupling problem. <i>Procedia CIRP</i> , 2018, 78, 37-42.	1.0	1
157	Bearing Fault Diagnosis Using Hyper-Laplacian Priors and Non-convex Optimization. , 2018, , .		1
158	Deep Convolutional Neural Network for Early Disk Crack Diagnosis Under Variable Speed. , 2018, , .		0
159	Periodic overlapping group elastic net for fault diagnosis. , 2018, , .		2
160	Construction and Application of Multivariable Wavelet Finite Element for Flat Shell Analysis. <i>Acta Mechanica Sinica</i> , 2018, 31, 391-404.	1.0	6
161	Vector minimax concave penalty for sparse representation. , 2018, 83, 165-179.		21
162	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.	2.4	64

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163	Three-Dimensional Parametric Finite-Volume Homogenization of Periodic Materials with Multi-Scale Structural Applications. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850045.	1.3	18
164	Mid-frequency dynamic characteristics prediction of thin plate based on B-spline wavelet on interval finite element method. <i>Applied Mathematical Modelling</i> , 2018, 62, 526-541.	2.2	10
165	Predicting dynamic response of stiffened-plate composite structures in a wide-frequency domain based on Composite B-spline Wavelet Elements Method (CBWEM). <i>International Journal of Mechanical Sciences</i> , 2018, 144, 708-722.	3.6	12
166	Damage identification for plate-like structures using ultrasonic guided wave based on improved MUSIC method. <i>Composite Structures</i> , 2018, 203, 164-171.	3.1	63
167	Effective mechanical properties of piezoelectric-piezomagnetic hybrid smart composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1711-1723.	1.4	16
168	A multi-scale modeling scheme for damage analysis of composite structures based on the High-Fidelity Generalized Method of Cells. <i>Composite Structures</i> , 2018, 206, 42-53.	3.1	19
169	The effects of thermal residual stresses and interfacial properties on the transverse behaviors of fiber composites with different microstructures. <i>Science and Engineering of Composite Materials</i> , 2017, 24, 41-51.	0.6	3
170	Numerical simulation of strain rate effect on the inelastic behavior of metal matrix composites. <i>Science and Engineering of Composite Materials</i> , 2017, 24, 279-288.	0.6	3
171	Numerical investigations of microscopic characteristic influences on the mechanical properties of polymer-matrix composites. <i>Polymer Composites</i> , 2017, 38, 2734-2742.	2.3	8
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338	The construction of wavelet finite element and its application. <i>Finite Elements in Analysis and Design</i> , 2004, 40, 541-554.	1.7	123