Zhike Peng

List of Publications by Year
in descending order

206 papers	9,255 citations	38742 50 h-index	48315 88 g-index
207 all docs	207 docs citations	207 times ranked	5626 citing authors

#	Article	IF	Citations
1	Online Piecewise Convex-Optimization Interpretable Weight Learning for Machine Life Cycle Performance Assessment. IEEE Transactions on Neural Networks and Learning Systems, 2024, , 1-13.	11.3	5
2	Interactive Visual Simulation Modeling for Structural Response Prediction and Damage Detection. IEEE Transactions on Industrial Electronics, 2022, 69, 868-878.	7.9	3
3	Identification of Sparse Volterra Systems: An Almost Orthogonal Matching Pursuit Approach. IEEE Transactions on Automatic Control, 2022, 67, 2027-2032.	5.7	4
4	Gini Indices II and III: Two new Sparsity Measures and Their Applications to Machine Condition Monitoring. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1211-1222.	5.8	14
5	Floating wind turbine power performance incorporating equivalent turbulence intensity induced by floater oscillations. Wind Energy, 2022, 25, 260-280.	4.2	6
6	Variational nonlinear component decomposition for fault diagnosis of planetary gearboxes under variable speed conditions. Mechanical Systems and Signal Processing, 2022, 162, 108016.	8.0	29
7	Fully interpretable neural network for locating resonance frequency bands for machine condition monitoring. Mechanical Systems and Signal Processing, 2022, 168, 108673.	8.0	70
8	Multiple Frequency Modulation Components Detection and Decomposition for Rotary Machine Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	1
9	Generalized Gini indices: Complementary sparsity measures to Box-Cox sparsity measures for machine condition monitoring. Mechanical Systems and Signal Processing, 2022, 169, 108751.	8.0	32
10	Interpretable online updated weights: Optimized square envelope spectrum for machine condition monitoring and fault diagnosis. Mechanical Systems and Signal Processing, 2022, 169, 108779.	8.0	33
11	Continuous Health Monitoring of Bearing by Oscillatory Sparsity Indices Under Non Stationary Time Varying Speed Condition. IEEE Sensors Journal, 2022, 22, 4452-4462.	4.7	9
12	Swept-Source Optical Coherence Vibrometer: Principle and Applications. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	0
13	Stimuli-responsive metamaterials with information-driven elastodynamics programming. Matter, 2022, 5, 988-1003.	10.0	12
14	Understanding importance of positive and negative signs of optimized weights used in the sum of weighted normalized Fourier spectrum/envelope spectrum for machine condition monitoring. Mechanical Systems and Signal Processing, 2022, 174, 109094.	8.0	23
15	Microwave Vibrometry: Noncontact Vibration and Deformation Measurement Using Radio Signals. IEEE Instrumentation and Measurement Magazine, 2022, 25, 16-26.	1.6	7
16	Two-level variational chirp component decomposition for capturing intrinsic frequency modulation modes of planetary gearboxes. Mechanical Systems and Signal Processing, 2022, 177, 109182.	8.0	7
17	Multi-scale and full-field vibration measurement via millimetre-wave sensing. Mechanical Systems and Signal Processing, 2022, 177, 109178.	8.0	7
18	OSESgram: Data-Aided Method for Selection of Informative Frequency Bands for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	9

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19	Investigations on the sensitivity of sparsity measures to the sparsity of impulsive signals. Mechanical Systems and Signal Processing, 2022, 178, 109315.	8.0	6
20	Scattering-coded architectured boundary for computational sensing of elastic waves. Cell Reports Physical Science, 2022, 3, 100918.	5.6	3
21	Novel sparse representation degradation modeling for locating informative frequency bands for Machine performance degradation assessment. Mechanical Systems and Signal Processing, 2022, 179, 109372.	8.0	9
22	mmPhone: Sound Recovery Using Millimeter-Wave Radios With Adaptive Fusion Enhanced Vibration Sensing. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 4045-4055.	4.6	3
23	Vital Signs Monitoring via Millimeter-Wave Full-Field Micromotion Sensing. , 2022, , .		0
24	Gearbox fault diagnosis under nonstationary condition using nonlinear chirp components extracted from bearing force. Mechanical Systems and Signal Processing, 2022, 180, 109440.	8.0	10
25	Electrically Activated Soft Robots: Speed Up by Rolling. Soft Robotics, 2021, 8, 611-624.	8.0	15
26	Magnetic levitation using diamagnetism: Mechanism, applications and prospects. Science China Technological Sciences, 2021, 64, 44-58.	4.0	15
27	Theoretical and Experimental Investigations on Spectral Lp/Lq Norm Ratio and Spectral Gini Index for Rotating Machine Health Monitoring. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1074-1086.	5.2	35
28	A hybrid classification autoencoder for semi-supervised fault diagnosis in rotating machinery. Mechanical Systems and Signal Processing, 2021, 149, 107327.	8.0	126
29	Smart metasurface shaft for vibration source identification with a single sensor. Journal of Sound and Vibration, 2021, 493, 115836.	3.9	9
30	Generalized dispersive mode decomposition: Algorithm and applications. Journal of Sound and Vibration, 2021, 492, 115800.	3.9	33
31	Time-Varying Envelope Filtering for Exhibiting Space Bearing Cage Fault Features. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	27
32	Definition of Signal-to-Noise Ratio of Health Indicators and Its Analytic Optimization for Machine Performance Degradation Assessment. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16.	4.7	10
33	Adaptive Weighted Signal Preprocessing Technique for Machine Health Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	34
34	A Comparison of Machine Health Indicators Based on the Impulsiveness of Vibration Signals. Acoustics Australia, 2021, 49, 199-206.	2.4	24
35	Dynamic Degradation Quantification of Wind Turbine High Speed Shaft Bearing Based on Oscillation Based Sparsity Indices. Journal of Physics: Conference Series, 2021, 1880, 012013.	0.4	3
36	Time-Frequency Bandpass Filter with Nonstationary Signal Decomposition Application. Journal of Physics: Conference Series, 2021, 1880, 012003.	0.4	2

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37	Correlation dimension and approximate entropy for machine condition monitoring: Revisited. Mechanical Systems and Signal Processing, 2021, 152, 107497.	8.0	38
38	An Interpretable Denoising Layer for Neural Networks Based on Reproducing Kernel Hilbert Space and its Application in Machine Fault Diagnosis. Chinese Journal of Mechanical Engineering (English)	3.7	10
39	Flexibility-Patterned Liquid-Repelling Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 29092-29100.	8.0	8
40	Sinusoidal FM patterns of fault-related vibration signals for planetary gearbox fault detection under non-stationary conditions. Mechanical Systems and Signal Processing, 2021, 155, 107623.	8.0	12
41	Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. ACS Applied Materials & Interfaces, 2021, 13, 31310-31319.	8.0	14
42	Effect of blade pitch control on dynamic characteristics of a floating offshore wind turbine under platform pitching motion. Ocean Engineering, 2021, 232, 109109.	4.3	6
43	Millimeter-Wave Bat for Mapping and Quantifying Micromotions in Full Field of View. Research, 2021, 2021, 9787484.	5.7	11
44	Feasibility studies of a novel spar-type floating wind turbine for moderate water depths: Hydrodynamic perspective with model test. Ocean Engineering, 2021, 233, 109070.	4.3	11
45	Gearbox fault diagnosis based on bearing dynamic force identification. Journal of Sound and Vibration, 2021, 511, 116360.	3.9	13
46	Box-Cox sparse measures: A new family of sparse measures constructed from kurtosis and negative entropy. Mechanical Systems and Signal Processing, 2021, 160, 107930.	8.0	58
47	Hybrid Pre-Training Strategy for Deep Denoising Neural Networks and Its Application in Machine Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	9
48	Flexible dynamic modeling and analysis of drive train for Offshore Floating Wind Turbine. Renewable Energy, 2020, 145, 1292-1305.	8.9	30
49	Full-range Fourier-domain optical coherence tomography based on Machâ€"Zehnder interferometer. Optics and Lasers in Engineering, 2020, 124, 105794.	3.8	5
50	Parametric identification of time-varying systems from free vibration using intrinsic chirp component decomposition. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 188-205.	3.4	5
51	Performance enhancement of wind energy harvester utilizing wake flow induced by double upstream flat-plates. Applied Energy, 2020, 257, 114034.	10.1	50
52	Rub-Impact Fault Diagnosis of Rotating Machinery Based on 1-D Convolutional Neural Networks. IEEE Sensors Journal, 2020, 20, 8349-8363.	4.7	35
53	Self-Compensating Liquid-Repellent Surfaces with Stratified Morphology. ACS Applied Materials & Interfaces, 2020, 12, 4174-4182.	8.0	9
54	Aerodynamic and aeroelastic characteristics of flexible wind turbine blades under periodic unsteady inflows. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 197, 104057.	3.9	43

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55	Design approaches of performance-scaled rotor for wave basin model tests of floating wind turbines. Renewable Energy, 2020, 148, 573-584.	8.9	28
56	Density-Based Measurement and Manipulation via Magnetic Levitation Enhanced by the Dual-Halbach Array. IEEE Sensors Journal, 2020, 20, 1730-1737.	4.7	9
57	Stiffness-mass-coding metamaterial with broadband tunability for low-frequency vibration isolation. Journal of Sound and Vibration, 2020, 489, 115685.	3.9	26
58	Experimental study on the tower loading characteristics of a floating wind turbine based on wave basin model tests. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 207, 104390.	3.9	10
59	Vision-based vibration measurement by sensing motion of spider silk. Procedia Manufacturing, 2020, 49, 126-131.	1.9	4
60	Detecting the Early Damages in Structures With Nonlinear Output Frequency Response Functions and the CNN-LSTM Model. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9557-9567.	4.7	55
61	Liquid repellency enhancement through flexible microstructures. Science Advances, 2020, 6, eaba9721.	10.3	35
62	Ultra-micro Vibration Measurement Method Using CW Doppler Radar. , 2020, , .		4
63	The relationship between fault-induced impulses and harmonic-cluster with applications to rotating machinery fault diagnosis. Mechanical Systems and Signal Processing, 2020, 144, 106896.	8.0	13
64	A scale independent flexible bearing health monitoring index based on time frequency manifold energy & entropy. Measurement Science and Technology, 2020, 31, 114003.	2.6	26
65	Vision-Based Moving Mass Detection by Time-Varying Structure Vibration Monitoring. IEEE Sensors Journal, 2020, 20, 11566-11577.	4.7	11
66	Randomized resonant metamaterials for single-sensor identification of elastic vibrations. Nature Communications, 2020, 11, 2353.	12.8	28
67	Full-Range Line-Field Optical Coherence Tomography for High-Accuracy Measurements of Optical Lens. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7180-7190.	4.7	8
68	Differential Enhancement Method for Robust and Accurate Heart Rate Monitoring via Microwave Vital Sign Sensing. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7108-7118.	4.7	51
69	Anti-noise frequency estimation performance of Hanning-windowed energy centrobaric method for optical coherence velocimeter. Optics and Lasers in Engineering, 2020, 134, 106250.	3.8	8
70	Iterative nonlinear chirp mode decomposition: A Hilbert-Huang transform-like method in capturing intra-wave modulations of nonlinear responses. Journal of Sound and Vibration, 2020, 485, 115571.	3.9	21
71	Acoustic-Excitation Optical Coherence Vibrometer for Real-Time Microstructure Vibration Measurement and Modal Analysis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7209-7217.	4.7	4
72	The sum of weighted normalized square envelope: A unified framework for kurtosis, negative entropy, Gini index and smoothness index for machine health monitoring. Mechanical Systems and Signal Processing, 2020, 140, 106725.	8.0	123

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73	A Novel Dynamics Analysis Method for Spar-Type Floating Offshore Wind Turbine. China Ocean Engineering, 2020, 34, 99-109.	1.6	9
74	Electrostatic field induced coupling actuation mechanism for dielectric elastomer actuators. Extreme Mechanics Letters, 2020, 35, 100638.	4.1	6
75	Droplet manipulation of hierarchical steel surfaces using femtosecond laser fabrication. Applied Surface Science, 2020, 521, 146474.	6.1	13
76	Sub-Sampled Two-Dimensional SAR Imaging Method Based on MIMO FMCW Radar. , 2020, , .		3
77	Real-time three-dimensional vibration monitoring of rotating shafts using constant-density sinusoidal fringe pattern as tri-axial sensor. Mechanical Systems and Signal Processing, 2019, 115, 132-146.	8.0	9
78	Frequency-domain intrinsic component decomposition for multimodal signals with nonlinear group delays. Signal Processing, 2019, 154, 57-63.	3.7	10
79	Adaptive chirp mode pursuit: Algorithm and applications. Mechanical Systems and Signal Processing, 2019, 116, 566-584.	8.0	112
80	Fork-shaped bluff body for enhancing the performance of galloping-based wind energy harvester. Energy, 2019, 183, 92-105.	8.8	62
81	Modal identification of multi-degree-of-freedom structures based on intrinsic chirp component decomposition method. Applied Mathematics and Mechanics (English Edition), 2019, 40, 1741-1758.	3.6	10
82	Vision-based system for simultaneous monitoring of shaft rotational speed and axial vibration using non-projection composite fringe pattern. Mechanical Systems and Signal Processing, 2019, 120, 765-776.	8.0	28
83	Design of a three degrees-of-freedom biomimetic microphone array based on a coupled circuit. Measurement Science and Technology, 2019, 30, 065101.	2.6	6
84	Separating Multiple Moving Sources by Microphone Array Signals for Wayside Acoustic Fault Diagnosis. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.6	2
85	Three-Dimensional Printed Surfaces Inspired by Bi-Gaussian Stratified Plateaus. ACS Applied Materials & Interfaces, 2019, 11, 20528-20534.	8.0	8
86	Bioinspired Variable Stiffness Dielectric Elastomer Actuators with Large and Tunable Load Capacity. Soft Robotics, 2019, 6, 631-643.	8.0	17
87	Proposal for the Realization of a Single-Detector Acoustic Camera Using a Space-Coiling Anisotropic Metamaterial. Physical Review Applied, 2019, 11, .	3.8	21
88	Bi-Gaussian Stratified Wetting Model on Rough Surfaces. Langmuir, 2019, 35, 5967-5974.	3.5	10
89	Label-free manipulation <i>via</i> the magneto-Archimedes effect: fundamentals, methodology and applications. Materials Horizons, 2019, 6, 1359-1379.	12.2	59
90	Virtual decoupling of mechanical systems considering the mass effect of resilient links: Theoretical and numerical studies. Mechanical Systems and Signal Processing, 2019, 123, 443-454.	8.0	2

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91	High-accuracy fault feature extraction for rolling bearings under time-varying speed conditions using an iterative envelope-tracking filter. Journal of Sound and Vibration, 2019, 448, 211-229.	3.9	61
92	A centrifugal magnetic levitation approach for high-reliability density measurement. Sensors and Actuators B: Chemical, 2019, 287, 64-70.	7.8	18
93	An Effective Accuracy Evaluation Method for LFMCW Radar Displacement Monitoring With Phasor Statistical Analysis. IEEE Sensors Journal, 2019, 19, 12224-12234.	4.7	14
94	Consistent Variable Selection for a Nonparametric Nonlinear System by Inverse and Contour Regressions. IEEE Transactions on Automatic Control, 2019, 64, 2653-2664.	5.7	4
95	Wind shear effect induced by the platform pitch motion of a spar-type floating wind turbine. Renewable Energy, 2019, 135, 1186-1199.	8.9	15
96	A numerical study on the angle of attack to the blade of a horizontal-axis offshore floating wind turbine under static andÂdynamic yawed conditions. Energy, 2019, 168, 1138-1156.	8.8	36
97	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.	3.9	107
98	Warped Variational Mode Decomposition With Application to Vibration Signals of Varying-Speed Rotating Machineries. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2755-2767.	4.7	29
99	Parameterised time-frequency analysis methods and their engineering applications: A review of recent advances. Mechanical Systems and Signal Processing, 2019, 119, 182-221.	8.0	138
100	Vision-Based Measurement System for Instantaneous Rotational Speed Monitoring Using Linearly Varying-Density Fringe Pattern. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1434-1445.	4.7	29
101	Performance improvement of planar dielectric elastomer actuators by magnetic modulating mechanism. Smart Materials and Structures, 2018, 27, 065007.	3.5	6
102	Tunable rotating-mode density measurement using magnetic levitation. Applied Physics Letters, 2018, 112, .	3.3	18
103	Accurate and Robust Displacement Measurement for FMCW Radar Vibration Monitoring. IEEE Sensors Journal, 2018, 18, 1131-1139.	4.7	54
104	Parameterized model based Short-time chirp component decomposition. Signal Processing, 2018, 145, 146-154.	3.7	7
105	The power performance of an offshore floating wind turbine in platform pitching motion. Energy, 2018, 154, 508-521.	8.8	71
106	Doppler Frequency Estimation by Parameterized Time-Frequency Transform and Phase Compensation Technique. IEEE Sensors Journal, 2018, 18, 3734-3744.	4.7	27
107	Nonstationary Signal Denoising Using an Envelope-Tracking Filter. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2004-2015.	5.8	20
108	Non-stationary signal analysis based on general parameterized timeâ€"frequency transform and its application in the feature extraction of a rotary machine. Frontiers of Mechanical Engineering, 2018, 13, 292-300.	4.3	11

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109	Measurement of instantaneous rotational speed using double-sine-varying-density fringe pattern. Mechanical Systems and Signal Processing, 2018, 103, 117-130.	8.0	20
110	Component isolation for multi-component signal analysis using a non-parametric gaussian latent feature model. Mechanical Systems and Signal Processing, 2018, 103, 368-380.	8.0	9
111	Multisegment annular dielectric elastomer actuators for soft robots. Smart Materials and Structures, 2018, 27, 115024.	3.5	28
112	Parameterized model based blind intrinsic chirp source separation. , 2018, 83, 73-82.		9
113	High-precision frequency estimation for FMCW radar applications based on parameterized de-alternating and modified ICCD. Measurement Science and Technology, 2018, 29, 075010.	2.6	3
114	A Fast Rolling Soft Robot Driven by Dielectric Elastomer. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1630-1640.	5.8	85
115	Enhanced directional acoustic sensing with phononic crystal cavity resonance. Applied Physics Letters, 2018, 112, .	3.3	31
116	Nonlinear system identification using Kautz basis expansion-based Volterra–PARAFAC model. Nonlinear Dynamics, 2018, 94, 2277-2287.	5.2	6
117	Arbitrary-directional broadband vibration energy harvesting using magnetically coupled flextensional transducers. Smart Materials and Structures, 2018, 27, 095010.	3.5	29
118	Theoretical and experimental study on dynamic characteristics of V-shaped beams immersed in viscous fluids: From small to finite amplitude. Journal of Fluids and Structures, 2018, 82, 215-244.	3.4	13
119	Y-type three-blade bluff body for wind energy harvesting. Applied Physics Letters, 2018, 112, .	3.3	64
120	On the power coefficient overshoot of an offshore floating wind turbine in surge oscillations. Wind Energy, 2018, 21, 1076-1091.	4.2	34
121	Intrinsic chirp component decomposition by using Fourier Series representation. Signal Processing, 2017, 137, 319-327.	3.7	88
122	A broadband compressive-mode vibration energy harvester enhanced by magnetic force intervention approach. Applied Physics Letters, 2017, 110, .	3.3	77
123	Power fluctuation and power loss of wind turbines due to wind shear and tower shadow. Frontiers of Mechanical Engineering, 2017, 12, 321-332.	4.3	31
124	Accurate Measurement in Doppler Radar Vital Sign Detection Based on Parameterized Demodulation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4483-4492.	4.6	54
125	Nonlinear Chirp Mode Decomposition: A Variational Method. IEEE Transactions on Signal Processing, 2017, 65, 6024-6037.	5.3	213
126	Separation of Overlapped Non-Stationary Signals by Ridge Path Regrouping and Intrinsic Chirp Component Decomposition. IEEE Sensors Journal, 2017, 17, 5994-6005.	4.7	140

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127	Influences of surge motion on the power and thrust characteristics of an offshore floating wind turbine. Energy, 2017, 141, 2054-2068.	8.8	77
128	Chirplet Path Fusion for the Analysis of Time-Varying Frequency-Modulated Signals. IEEE Transactions on Industrial Electronics, 2017, 64, 1370-1380.	7.9	32
129	Static clutter elimination for frequency-modulated continuous-wave radar displacement measurement based on phasor offset compensation. Electronics Letters, 2017, 53, 1491-1493.	1.0	15
130	A novel approach for identification of cascade of Hammerstein model. Nonlinear Dynamics, 2016, 86, 513-522.	5.2	5
131	Parametric Identification of Nonlinear Vibration Systems Via Polynomial Chirplet Transform. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.6	10
132	Adsorption-Induced Surface Effects on the Dynamical Characteristics of Micromechanical Resonant Sensors for In Situ Real-Time Detection. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	10
133	Effects of surface relaxation and reconstruction on the vibration characteristics of nanobeams. Journal Physics D: Applied Physics, 2016, 49, 165304.	2.8	7
134	Nonlinear time-varying vibration system identification using parametric time–frequency transform with spline kernel. Nonlinear Dynamics, 2016, 85, 1679-1694.	5.2	17
135	Dynamical characteristics of fluid-conveying microbeams actuated by electrostatic force. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	4
136	Asymmetry bistability for a coupled dielectric elastomer minimum energy structure. Smart Materials and Structures, 2016, 25, 115023.	3.5	8
137	Time-Varying Frequency-Modulated Component Extraction Based on Parameterized Demodulation and Singular Value Decomposition. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 276-285.	4.7	53
138	Dynamics of suspended microchannel resonators conveying opposite internal fluid flow: Stability, frequency shift and energy dissipation. Journal of Sound and Vibration, 2016, 368, 103-120.	3.9	29
139	Finite Volume Modeling of Gas Flow in Microbearings with Rough Surface Topography. Tribology Transactions, 2016, 59, 99-107.	2.0	8
140	A comprehensive dynamic model to investigate the stability problems of the rotor–bearing system due to multiple excitations. Mechanical Systems and Signal Processing, 2016, 70-71, 1171-1192.	8.0	55
141	Uncertain eigenvalue analysis by the sparse grid stochastic collocation method. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 545-557.	3.4	8
142	Tunable Micro- and Nanomechanical Resonators. Sensors, 2015, 15, 26478-26566.	3.8	75
143	Scale Effect on Tension-Induced Intermodal Coupling in Nanomechanical Resonators. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	11
144	Component Extraction for Non-Stationary Multi-Component Signal Using Parameterized De-chirping and Band-Pass Filter. IEEE Signal Processing Letters, 2015, 22, 1373-1377.	3.6	65

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145	Effect of random surface topography on the gaseous flow in microtubes with an extended slip model. Microfluidics and Nanofluidics, 2015, 18, 897-910.	2.2	11
146	A new nonlinear dynamic model of the rotor-bearing system considering preload and varying contact angle of the bearing. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 821-841.	3.3	60
147	Application of Parameterized Time-Frequency Analysis on Multicomponent Frequency Modulated Signals. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 3169-3180.	4.7	59
148	Wavelet basis expansion-based spatio-temporal Volterra kernels identification for nonlinear distributed parameter systems. Nonlinear Dynamics, 2014, 78, 1179-1192.	5.2	11
149	Frequency-varying group delay estimation using frequency domain polynomial chirplet transform. Mechanical Systems and Signal Processing, 2014, 46, 146-162.	8.0	34
150	Effect of surface layer thickness on buckling and vibration of nonlocal nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 650-654.	2.1	34
151	Electrostatic pull-in instability in MEMS/NEMS: A review. Sensors and Actuators A: Physical, 2014, 214, 187-218.	4.1	432
152	Wavelet basis expansion-based Volterra kernel function identification through multilevel excitations. Nonlinear Dynamics, 2014, 76, 985-999.	5.2	21
153	Steady-state response of a geared rotor system with slant cracked shaft and time-varying mesh stiffness. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 1156-1174.	3.3	20
154	General Parameterized Time-Frequency Transform. IEEE Transactions on Signal Processing, 2014, 62, 2751-2764.	5.3	151
155	Gaseous slip flow in micro-bearings with random rough surface. International Journal of Mechanical Sciences, 2013, 68, 105-113.	6.7	13
156	Stability analysis of a rotor–bearing system with time-varying bearing stiffness due to finite number of balls and unbalanced force. Journal of Sound and Vibration, 2013, 332, 6768-6784.	3.9	91
157	Parametric characteristic of the random vibration response of nonlinear systems. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 267-283.	3.4	6
158	Multicomponent Signal Analysis Based on Polynomial Chirplet Transform. IEEE Transactions on Industrial Electronics, 2013, 60, 3948-3956.	7.9	85
159	Coupled Nonlinear Effects of Random Surface Roughness and Rarefaction on Slip Flow in Ultra-Thin Film Gas Bearing Lubrication. Journal of Tribology, 2012, 134, .	1.9	5
160	Spline-Kernelled Chirplet Transform for the Analysis of Signals With Time-Varying Frequency and Its Application. IEEE Transactions on Industrial Electronics, 2012, 59, 1612-1621.	7.9	115
161	Slip flow and heat transfer in microbearings with fractal surface topographies. International Journal of Heat and Mass Transfer, 2012, 55, 7223-7233.	4.8	13
162	Study of the effects of cubic nonlinear damping on vibration isolations using Harmonic Balance Method. International Journal of Non-Linear Mechanics, 2012, 47, 1073-1080.	2.6	112

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163	Evaluation of transmissibility for a class of nonlinear passive vibration isolators. Frontiers of Mechanical Engineering, 2012, 7, 401-409.	4.3	4
164	Effect of surface roughness on rarefied-gas heat transfer in microbearings. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 789-794.	2.1	8
165	Characterize highly oscillating frequency modulation using generalized Warblet transform. Mechanical Systems and Signal Processing, 2012, 26, 128-140.	8.0	73
166	Timeâ€"frequency data fusion technique with application to vibration signal analysis. Mechanical Systems and Signal Processing, 2012, 29, 164-173.	8.0	24
167	Analysis and design of the force and displacement transmissibility of nonlinear viscous damper based vibration isolation systems. Nonlinear Dynamics, 2012, 67, 2671-2687.	5.2	74
168	Application of support vector machine based on pattern spectrum entropy in fault diagnostics of rolling element bearings. Measurement Science and Technology, 2011, 22, 045708.	2.6	50
169	Polynomial Chirplet Transform With Application to Instantaneous Frequency Estimation. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3222-3229.	4.7	212
170	Nonlinear Dynamic Analysis of Atomic Force Microscopy Under Bounded Noise Parametric Excitation. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1063-1072.	5.8	13
171	The force transmissibility of MDOF structures with a non-linear viscous damping device. International Journal of Non-Linear Mechanics, 2011, 46, 1305-1314.	2.6	34
172	Feasibility study of structural damage detection using NARMAX modelling and Nonlinear Output Frequency Response Function based analysis. Mechanical Systems and Signal Processing, 2011, 25, 1045-1061.	8.0	90
173	Random surface roughness effect on slider microbearing lubrication. Micro and Nano Letters, 2010, 5, 347.	1.3	5
174	The Nonlinear Output Frequency Response Functions of One-Dimensional Chain Type Structures. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	2.2	10
175	The Transmissibility of Vibration Isolators With a Nonlinear Antisymmetric Damping Characteristic. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.6	26
176	On the energy leakage of discrete wavelet transform. Mechanical Systems and Signal Processing, 2009, 23, 330-343.	8.0	67
177	Theoretical study of the effects of nonlinear viscous damping on vibration isolation of sdof systems. Journal of Sound and Vibration, 2009, 323, 352-365.	3.9	127
178	Analysis of Locally Nonlinear MDOF Systems Using Nonlinear Output Frequency Response Functions. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.6	10
179	Comparisons between harmonic balance and nonlinear output frequency response function in nonlinear system analysis. Journal of Sound and Vibration, 2008, 311, 56-73.	3.9	107
180	A novel approach for nonlinearity detection in vibrating systems. Journal of Sound and Vibration, 2008, 314, 603-615.	3.9	38

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