

# Zhike Peng

## List of Publications by Year in descending order

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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	Application of the wavelet transform in machine condition monitoring and fault diagnostics: a review with bibliography. <i>Mechanical Systems and Signal Processing</i> , 2004, 18, 199-221.	8.0	954
2	A comparison study of improved Hilbert-Huang transform and wavelet transform: Application to fault diagnosis for rolling bearing. <i>Mechanical Systems and Signal Processing</i> , 2005, 19, 974-988.	8.0	669
3	Electrostatic pull-in instability in MEMS/NEMS: A review. <i>Sensors and Actuators A: Physical</i> , 2014, 214, 187-218.	4.1	432
4	An improved Hilbert-Huang transform and its application in vibration signal analysis. <i>Journal of Sound and Vibration</i> , 2005, 286, 187-205.	3.9	397
5	Nonlinear Chirp Mode Decomposition: A Variational Method. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 6024-6037.	5.3	213
6	Polynomial Chirplet Transform With Application to Instantaneous Frequency Estimation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011, 60, 3222-3229.	4.7	212
7	VIBRATION SIGNAL ANALYSIS AND FEATURE EXTRACTION BASED ON REASSIGNED WAVELET SCALOGRAM. <i>Journal of Sound and Vibration</i> , 2002, 253, 1087-1100.	3.9	157
8	General Parameterized Time-Frequency Transform. <i>IEEE Transactions on Signal Processing</i> , 2014, 62, 2751-2764.	5.3	151
9	Separation of Overlapped Non-Stationary Signals by Ridge Path Regrouping and Intrinsic Chirp Component Decomposition. <i>IEEE Sensors Journal</i> , 2017, 17, 5994-6005.	4.7	140
10	Parameterised time-frequency analysis methods and their engineering applications: A review of recent advances. <i>Mechanical Systems and Signal Processing</i> , 2019, 119, 182-221.	8.0	138
11	Crack detection using nonlinear output frequency response functions. <i>Journal of Sound and Vibration</i> , 2007, 301, 777-788.	3.9	131
12	Theoretical study of the effects of nonlinear viscous damping on vibration isolation of sdof systems. <i>Journal of Sound and Vibration</i> , 2009, 323, 352-365.	3.9	127
13	A hybrid classification autoencoder for semi-supervised fault diagnosis in rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2021, 149, 107327.	8.0	126
14	The sum of weighted normalized square envelope: A unified framework for kurtosis, negative entropy, Gini index and smoothness index for machine health monitoring. <i>Mechanical Systems and Signal Processing</i> , 2020, 140, 106725.	8.0	123
15	Spline-Kernelled Chirplet Transform for the Analysis of Signals With Time-Varying Frequency and Its Application. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 1612-1621.	7.9	115
16	Study of the effects of cubic nonlinear damping on vibration isolations using Harmonic Balance Method. <i>International Journal of Non-Linear Mechanics</i> , 2012, 47, 1073-1080.	2.6	112
17	Adaptive chirp mode pursuit: Algorithm and applications. <i>Mechanical Systems and Signal Processing</i> , 2019, 116, 566-584.	8.0	112
18	Comparisons between harmonic balance and nonlinear output frequency response function in nonlinear system analysis. <i>Journal of Sound and Vibration</i> , 2008, 311, 56-73.	3.9	107

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19	Detection of rub-impact fault for rotor-stator systems: A novel method based on adaptive chirp mode decomposition. <i>Journal of Sound and Vibration</i> , 2019, 440, 83-99.	3.9	107
20	Detection of the rubbing-caused impacts for rotor-stator fault diagnosis using reassigned scalogram. <i>Mechanical Systems and Signal Processing</i> , 2005, 19, 391-409.	8.0	105
21	Stability analysis of a rotor-bearing system with time-varying bearing stiffness due to finite number of balls and unbalanced force. <i>Journal of Sound and Vibration</i> , 2013, 332, 6768-6784.	3.9	91
22	Feasibility study of structural damage detection using NARMAX modelling and Nonlinear Output Frequency Response Function based analysis. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 1045-1061.	8.0	90
23	Intrinsic chirp component decomposition by using Fourier Series representation. <i>Signal Processing</i> , 2017, 137, 319-327.	3.7	88
24	Multicomponent Signal Analysis Based on Polynomial Chirplet Transform. <i>IEEE Transactions on Industrial Electronics</i> , 2013, 60, 3948-3956.	7.9	85
25	A Fast Rolling Soft Robot Driven by Dielectric Elastomer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 1630-1640.	5.8	85
26	A broadband compressive-mode vibration energy harvester enhanced by magnetic force intervention approach. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	77
27	Influences of surge motion on the power and thrust characteristics of an offshore floating wind turbine. <i>Energy</i> , 2017, 141, 2054-2068.	8.8	77
28	Singularity analysis of the vibration signals by means of wavelet modulus maximal method. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 780-794.	8.0	76
29	Tunable Micro- and Nanomechanical Resonators. <i>Sensors</i> , 2015, 15, 26478-26566.	3.8	75
30	Analysis and design of the force and displacement transmissibility of nonlinear viscous damper based vibration isolation systems. <i>Nonlinear Dynamics</i> , 2012, 67, 2671-2687.	5.2	74
31	Characterize highly oscillating frequency modulation using generalized Warblet transform. <i>Mechanical Systems and Signal Processing</i> , 2012, 26, 128-140.	8.0	73
32	The power performance of an offshore floating wind turbine in platform pitching motion. <i>Energy</i> , 2018, 154, 508-521.	8.8	71
33	Fully interpretable neural network for locating resonance frequency bands for machine condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2022, 168, 108673.	8.0	70
34	On the energy leakage of discrete wavelet transform. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 330-343.	8.0	67
35	Vibration analysis of a cracked rotor using Hilbert-Huang transform. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 3030-3041.	8.0	65
36	Component Extraction for Non-Stationary Multi-Component Signal Using Parameterized De-chirping and Band-Pass Filter. <i>IEEE Signal Processing Letters</i> , 2015, 22, 1373-1377.	3.6	65

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37	Y-type three-blade bluff body for wind energy harvesting. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	64
38	Fork-shaped bluff body for enhancing the performance of galloping-based wind energy harvester. <i>Energy</i> , 2019, 183, 92-105.	8.8	62
39	High-accuracy fault feature extraction for rolling bearings under time-varying speed conditions using an iterative envelope-tracking filter. <i>Journal of Sound and Vibration</i> , 2019, 448, 211-229.	3.9	61
40	A new nonlinear dynamic model of the rotor-bearing system considering preload and varying contact angle of the bearing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 821-841.	3.3	60
41	Application of Parameterized Time-Frequency Analysis on Multicomponent Frequency Modulated Signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 3169-3180.	4.7	59
42	Label-free manipulation via the magneto-Archimedes effect: fundamentals, methodology and applications. <i>Materials Horizons</i> , 2019, 6, 1359-1379.	12.2	59
43	Box-Cox sparse measures: A new family of sparse measures constructed from kurtosis and negative entropy. <i>Mechanical Systems and Signal Processing</i> , 2021, 160, 107930.	8.0	58
44	A comprehensive dynamic model to investigate the stability problems of the rotor-bearing system due to multiple excitations. <i>Mechanical Systems and Signal Processing</i> , 2016, 70-71, 1171-1192.	8.0	55
45	Detecting the Early Damages in Structures With Nonlinear Output Frequency Response Functions and the CNN-LSTM Model. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 9557-9567.	4.7	55
46	Accurate Measurement in Doppler Radar Vital Sign Detection Based on Parameterized Demodulation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 4483-4492.	4.6	54
47	Accurate and Robust Displacement Measurement for FMCW Radar Vibration Monitoring. <i>IEEE Sensors Journal</i> , 2018, 18, 1131-1139.	4.7	54
48	Time-Varying Frequency-Modulated Component Extraction Based on Parameterized Demodulation and Singular Value Decomposition. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 276-285.	4.7	53
49	Analysis of bilinear oscillators under harmonic loading using nonlinear output frequency response functions. <i>International Journal of Mechanical Sciences</i> , 2007, 49, 1213-1225.	6.7	52
50	Resonances and resonant frequencies for a class of nonlinear systems. <i>Journal of Sound and Vibration</i> , 2007, 300, 993-1014.	3.9	51
51	Differential Enhancement Method for Robust and Accurate Heart Rate Monitoring via Microwave Vital Sign Sensing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 7108-7118.	4.7	51
52	Application of support vector machine based on pattern spectrum entropy in fault diagnostics of rolling element bearings. <i>Measurement Science and Technology</i> , 2011, 22, 045708.	2.6	50
53	Performance enhancement of wind energy harvester utilizing wake flow induced by double upstream flat-plates. <i>Applied Energy</i> , 2020, 257, 114034.	10.1	50
54	Numerical analysis of cracked beams using nonlinear output frequency response functions. <i>Computers and Structures</i> , 2008, 86, 1809-1818.	4.4	43

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55	Aerodynamic and aeroelastic characteristics of flexible wind turbine blades under periodic unsteady inflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 197, 104057.	3.9	43
56	IDENTIFICATION OF THE SHAFT ORBIT FOR ROTATING MACHINES USING WAVELET MODULUS MAXIMA. <i>Mechanical Systems and Signal Processing</i> , 2002, 16, 623-635.	8.0	40
57	On the convergence of the Volterra-series representation of the Duffing's oscillators subjected to harmonic excitations. <i>Journal of Sound and Vibration</i> , 2007, 305, 322-332.	3.9	38
58	A novel approach for nonlinearity detection in vibrating systems. <i>Journal of Sound and Vibration</i> , 2008, 314, 603-615.	3.9	38
59	Correlation dimension and approximate entropy for machine condition monitoring: Revisited. <i>Mechanical Systems and Signal Processing</i> , 2021, 152, 107497.	8.0	38
60	A numerical study on the angle of attack to the blade of a horizontal-axis offshore floating wind turbine under static and dynamic yawed conditions. <i>Energy</i> , 2019, 168, 1138-1156.	8.8	36
61	Rub-Impact Fault Diagnosis of Rotating Machinery Based on 1-D Convolutional Neural Networks. <i>IEEE Sensors Journal</i> , 2020, 20, 8349-8363.	4.7	35
62	Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , 2020, 6, eaba9721.	10.3	35
63	Theoretical and Experimental Investigations on Spectral $L_p/L_q$ Norm Ratio and Spectral Gini Index for Rotating Machine Health Monitoring. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 1074-1086.	5.2	35
64	The force transmissibility of MDOF structures with a non-linear viscous damping device. <i>International Journal of Non-Linear Mechanics</i> , 2011, 46, 1305-1314.	2.6	34
65	Frequency-varying group delay estimation using frequency domain polynomial chirplet transform. <i>Mechanical Systems and Signal Processing</i> , 2014, 46, 146-162.	8.0	34
66	Effect of surface layer thickness on buckling and vibration of nonlocal nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 650-654.	2.1	34
67	On the power coefficient overshoot of an offshore floating wind turbine in surge oscillations. <i>Wind Energy</i> , 2018, 21, 1076-1091.	4.2	34
68	Adaptive Weighted Signal Preprocessing Technique for Machine Health Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	4.7	34
69	Non-linear output frequency response functions for multi-input non-linear Volterra systems. <i>International Journal of Control</i> , 2007, 80, 843-855.	1.9	33
70	The effects of nonlinearity on the output frequency response of a passive engine mount. <i>Journal of Sound and Vibration</i> , 2008, 318, 313-328.	3.9	33
71	Generalized dispersive mode decomposition: Algorithm and applications. <i>Journal of Sound and Vibration</i> , 2021, 492, 115800.	3.9	33
72	Interpretable online updated weights: Optimized square envelope spectrum for machine condition monitoring and fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2022, 169, 108779.	8.0	33

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73	Chirplet Path Fusion for the Analysis of Time-Varying Frequency-Modulated Signals. IEEE Transactions on Industrial Electronics, 2017, 64, 1370-1380.	7.9	32
74	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
75	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
76	Enhanced directional acoustic sensing with phononic crystal cavity resonance. Applied Physics Letters, 2018, 112, .	3.3	31
77	Flexible dynamic modeling and analysis of drive train for Offshore Floating Wind Turbine. Renewable Energy, 2020, 145, 1292-1305.	8.9	30
78	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
79	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
80	Arbitrary-directional broadband vibration energy harvesting using magnetically coupled flextensional transducers. Smart Materials and Structures, 2018, 27, 095010.	3.5	29
81	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
82	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
83	Multisegment annular dielectric elastomer actuators for soft robots. Smart Materials and Structures, 2018, 27, 115024.	3.5	28
84	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
85	Design approaches of performance-scaled rotor for wave basin model tests of floating wind turbines. Renewable Energy, 2020, 148, 573-584.	8.9	28
86	Randomized resonant metamaterials for single-sensor identification of elastic vibrations. Nature Communications, 2020, 11, 2353.	12.8	28
87	Doppler Frequency Estimation by Parameterized Time-Frequency Transform and Phase Compensation Technique. IEEE Sensors Journal, 2018, 18, 3734-3744.	4.7	27
88	Time-Varying Envelope Filtering for Exhibiting Space Bearing Cage Fault Features. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	27
89	Nonlinear parameter estimation for multi-degree-of-freedom nonlinear systems using nonlinear output frequency-response functions. Mechanical Systems and Signal Processing, 2008, 22, 1582-1594.	8.0	26
90	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

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91	Stiffness-mass-coding metamaterial with broadband tunability for low-frequency vibration isolation. <i>Journal of Sound and Vibration</i> , 2020, 489, 115685.	3.9	26
92	A scale independent flexible bearing health monitoring index based on time frequency manifold energy & entropy. <i>Measurement Science and Technology</i> , 2020, 31, 114003.	2.6	26
93	Non-linear output frequency response functions of MDOF systems with multiple non-linear components. <i>International Journal of Non-Linear Mechanics</i> , 2007, 42, 941-958.	2.6	24
94	Detecting the position of non-linear component in periodic structures from the system responses to dual sinusoidal excitations. <i>International Journal of Non-Linear Mechanics</i> , 2007, 42, 1074-1083.	2.6	24
95	Time-frequency data fusion technique with application to vibration signal analysis. <i>Mechanical Systems and Signal Processing</i> , 2012, 29, 164-173.	8.0	24
96	A Comparison of Machine Health Indicators Based on the Impulsiveness of Vibration Signals. <i>Acoustics Australia</i> , 2021, 49, 199-206.	2.4	24
97	Design of fuzzy controller for smart structures using genetic algorithms. <i>Smart Materials and Structures</i> , 2003, 12, 979-986.	3.5	23
98	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. <i>Mechanical Systems and Signal Processing</i> , 2022, 174, 109094.	8.0	23
99	Linear parameter estimation for multi-degree-of-freedom nonlinear systems using nonlinear output frequency-response functions. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 3108-3122.	8.0	21
100	Wavelet basis expansion-based Volterra kernel function identification through multilevel excitations. <i>Nonlinear Dynamics</i> , 2014, 76, 985-999.	5.2	21
101	Proposal for the Realization of a Single-Detector Acoustic Camera Using a Space-Coiling Anisotropic Metamaterial. <i>Physical Review Applied</i> , 2019, 11, .	3.8	21
102	Iterative nonlinear chirp mode decomposition: A Hilbert-Huang transform-like method in capturing intra-wave modulations of nonlinear responses. <i>Journal of Sound and Vibration</i> , 2020, 485, 115571.	3.9	21
103	Steady-state response of a geared rotor system with slant cracked shaft and time-varying mesh stiffness. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 1156-1174.	3.3	20
104	Nonstationary Signal Denoising Using an Envelope-Tracking Filter. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2004-2015.	5.8	20
105	Measurement of instantaneous rotational speed using double-sine-varying-density fringe pattern. <i>Mechanical Systems and Signal Processing</i> , 2018, 103, 117-130.	8.0	20
106	An Interpretable Denoising Layer for Neural Networks Based on Reproducing Kernel Hilbert Space and its Application in Machine Fault Diagnosis. <i>Chinese Journal of Mechanical Engineering (English)</i> Tj ETQq0 0 0 rgBT /@verlock 10 Tf 50 13	10	10
107	Tunable rotating-mode density measurement using magnetic levitation. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	18
108	A centrifugal magnetic levitation approach for high-reliability density measurement. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 64-70.	7.8	18



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109	Nonlinear time-varying vibration system identification using parametric time-frequency transform with spline kernel. <i>Nonlinear Dynamics</i> , 2016, 85, 1679-1694.	5.2	17
110	Bioinspired Variable Stiffness Dielectric Elastomer Actuators with Large and Tunable Load Capacity. <i>Soft Robotics</i> , 2019, 6, 631-643.	8.0	17
111	Feature Extraction for Damage Detection in Structures Based on Nonlinearity Analysis. <i>Key Engineering Materials</i> , 0, 413-414, 627-634.	0.4	16
112	Static clutter elimination for frequency-modulated continuous-wave radar displacement measurement based on phasor offset compensation. <i>Electronics Letters</i> , 2017, 53, 1491-1493.	1.0	15
113	Wind shear effect induced by the platform pitch motion of a spar-type floating wind turbine. <i>Renewable Energy</i> , 2019, 135, 1186-1199.	8.9	15
114	Electrically Activated Soft Robots: Speed Up by Rolling. <i>Soft Robotics</i> , 2021, 8, 611-624.	8.0	15
115	Magnetic levitation using diamagnetism: Mechanism, applications and prospects. <i>Science China Technological Sciences</i> , 2021, 64, 44-58.	4.0	15
116	An Effective Accuracy Evaluation Method for LFMCW Radar Displacement Monitoring With Phasor Statistical Analysis. <i>IEEE Sensors Journal</i> , 2019, 19, 12224-12234.	4.7	14
117	Gini Indices II and III: Two new Sparsity Measures and Their Applications to Machine Condition Monitoring. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 1211-1222.	5.8	14
118	Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31310-31319.	8.0	14
119	Nonlinear Dynamic Analysis of Atomic Force Microscopy Under Bounded Noise Parametric Excitation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 1063-1072.	5.8	13
120	Slip flow and heat transfer in microbearings with fractal surface topographies. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 7223-7233.	4.8	13
121	Gaseous slip flow in micro-bearings with random rough surface. <i>International Journal of Mechanical Sciences</i> , 2013, 68, 105-113.	6.7	13
122	Theoretical and experimental study on dynamic characteristics of V-shaped beams immersed in viscous fluids: From small to finite amplitude. <i>Journal of Fluids and Structures</i> , 2018, 82, 215-244.	3.4	13
123	The relationship between fault-induced impulses and harmonic-cluster with applications to rotating machinery fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2020, 144, 106896.	8.0	13
124	Gearbox fault diagnosis based on bearing dynamic force identification. <i>Journal of Sound and Vibration</i> , 2021, 511, 116360.	3.9	13
125	Droplet manipulation of hierarchical steel surfaces using femtosecond laser fabrication. <i>Applied Surface Science</i> , 2020, 521, 146474.	6.1	13
126	Sinusoidal FM patterns of fault-related vibration signals for planetary gearbox fault detection under non-stationary conditions. <i>Mechanical Systems and Signal Processing</i> , 2021, 155, 107623.	8.0	12



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127	Stimuli-responsive metamaterials with information-driven elastodynamics programming. <i>Matter</i> , 2022, 5, 988-1003.	10.0	12
128	Wavelet basis expansion-based spatio-temporal Volterra kernels identification for nonlinear distributed parameter systems. <i>Nonlinear Dynamics</i> , 2014, 78, 1179-1192.	5.2	11
129	Scale Effect on Tension-Induced Intermodal Coupling in Nanomechanical Resonators. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.6	11
130	Effect of random surface topography on the gaseous flow in microtubes with an extended slip model. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 897-910.	2.2	11
131	Non-stationary signal analysis based on general parameterized time-frequency transform and its application in the feature extraction of a rotary machine. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 292-300.	4.3	11
132	Vision-Based Moving Mass Detection by Time-Varying Structure Vibration Monitoring. <i>IEEE Sensors Journal</i> , 2020, 20, 11566-11577.	4.7	11
133	Millimeter-Wave Bat for Mapping and Quantifying Micromotions in Full Field of View. <i>Research</i> , 2021, 2021, 9787484.	5.7	11
134	Feasibility studies of a novel spar-type floating wind turbine for moderate water depths: Hydrodynamic perspective with model test. <i>Ocean Engineering</i> , 2021, 233, 109070.	4.3	11
135	Analysis of Locally Nonlinear MDOF Systems Using Nonlinear Output Frequency Response Functions. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2009, 131, .	1.6	10
136	The Nonlinear Output Frequency Response Functions of One-Dimensional Chain Type Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010, 77, .	2.2	10
137	Parametric Identification of Nonlinear Vibration Systems Via Polynomial Chirplet Transform. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016, 138, .	1.6	10
138	Adsorption-Induced Surface Effects on the Dynamical Characteristics of Micromechanical Resonant Sensors for In Situ Real-Time Detection. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	2.2	10
139	Frequency-domain intrinsic component decomposition for multimodal signals with nonlinear group delays. <i>Signal Processing</i> , 2019, 154, 57-63.	3.7	10
140	Modal identification of multi-degree-of-freedom structures based on intrinsic chirp component decomposition method. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 1741-1758.	3.6	10
141	Bi-Gaussian Stratified Wetting Model on Rough Surfaces. <i>Langmuir</i> , 2019, 35, 5967-5974.	3.5	10
142	Experimental study on the tower loading characteristics of a floating wind turbine based on wave basin model tests. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 207, 104390.	3.9	10
143	Definition of Signal-to-Noise Ratio of Health Indicators and Its Analytic Optimization for Machine Performance Degradation Assessment. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-16.	4.7	10
144	Gearbox fault diagnosis under nonstationary condition using nonlinear chirp components extracted from bearing force. <i>Mechanical Systems and Signal Processing</i> , 2022, 180, 109440.	8.0	10

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145	Component isolation for multi-component signal analysis using a non-parametric gaussian latent feature model. <i>Mechanical Systems and Signal Processing</i> , 2018, 103, 368-380.	8.0	9
146	Parameterized model based blind intrinsic chirp source separation. , 2018, 83, 73-82.		9
147	Real-time three-dimensional vibration monitoring of rotating shafts using constant-density sinusoidal fringe pattern as tri-axial sensor. <i>Mechanical Systems and Signal Processing</i> , 2019, 115, 132-146.	8.0	9
148	Self-Compensating Liquid-Repellent Surfaces with Stratified Morphology. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4174-4182.	8.0	9
149	Density-Based Measurement and Manipulation via Magnetic Levitation Enhanced by the Dual-Halbach Array. <i>IEEE Sensors Journal</i> , 2020, 20, 1730-1737.	4.7	9
150	A Novel Dynamics Analysis Method for Spar-Type Floating Offshore Wind Turbine. <i>China Ocean Engineering</i> , 2020, 34, 99-109.	1.6	9
151	Smart metasurface shaft for vibration source identification with a single sensor. <i>Journal of Sound and Vibration</i> , 2021, 493, 115836.	3.9	9
152	Hybrid Pre-Training Strategy for Deep Denoising Neural Networks and Its Application in Machine Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	4.7	9
153	Continuous Health Monitoring of Bearing by Oscillatory Sparsity Indices Under Non Stationary Time Varying Speed Condition. <i>IEEE Sensors Journal</i> , 2022, 22, 4452-4462.	4.7	9
154	OSSESgram: Data-Aided Method for Selection of Informative Frequency Bands for Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	4.7	9
155	Novel sparse representation degradation modeling for locating informative frequency bands for Machine performance degradation assessment. <i>Mechanical Systems and Signal Processing</i> , 2022, 179, 109372.	8.0	9
156	Effect of surface roughness on rarefied-gas heat transfer in microbearings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 789-794.	2.1	8
157	Uncertain eigenvalue analysis by the sparse grid stochastic collocation method. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 545-557.	3.4	8
158	Asymmetry bistability for a coupled dielectric elastomer minimum energy structure. <i>Smart Materials and Structures</i> , 2016, 25, 115023.	3.5	8
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