

# Zhike Peng

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3399053/zhike-peng-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200  
papers

6,218  
citations

39  
h-index

73  
g-index

207  
ext. papers

7,729  
ext. citations

4.9  
avg, IF

6.39  
L-index

#	Paper	IF	Citations
200	Continuous Health Monitoring of Bearing by Oscillatory Sparsity Indices under Non Stationary Time Varying Speed Condition. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1	4	2
199	Fully interpretable neural network for locating resonance frequency bands for machine condition monitoring. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 168, 108673	7.8	17
198	Generalized Gini indices: Complementary sparsity measures to Box-Cox sparsity measures for machine condition monitoring. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 169, 108751	7.8	9
197	Interpretable online updated weights: Optimized square envelope spectrum for machine condition monitoring and fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 169, 108779	7.8	4
196	Identification of Sparse Volterra Systems: An Almost Orthogonal Matching Pursuit Approach.. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 67, 2027-2032	5.9	0
195	Variational nonlinear component decomposition for fault diagnosis of planetary gearboxes under variable speed conditions. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 162, 108016	7.8	7
194	Swept-Source Optical Coherence Vibrometer: Principle and Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-9	5.2	
193	Stimuli-responsive metamaterials with information-driven elastodynamics programming. <i>Matter</i> , <b>2022</b> , 5, 988-1003	12.7	0
192	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> , <b>2022</b> , 174, 109094	7.8	2
191	Microwave Vibrometry: Noncontact Vibration and Deformation Measurement Using Radio Signals. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2022</b> , 25, 16-26	1.4	2
190	Two-level variational chirp component decomposition for capturing intrinsic frequency modulation modes of planetary gearboxes. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 177, 109182	7.8	0
189	Multi-scale and full-field vibration measurement via millimetre-wave sensing. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 177, 109178	7.8	1
188	OSESgram: Data-Aided Method for Selection of Informative Frequency Bands for Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-10	5.2	1
187	Investigations on the sensitivity of sparsity measures to the sparsity of impulsive signals. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 178, 109315	7.8	1
186	Scattering-coded architected boundary for computational sensing of elastic waves. <i>Cell Reports Physical Science</i> , <b>2022</b> , 100918	6.1	0
185	Novel sparse representation degradation modeling for locating informative frequency bands for Machine performance degradation assessment. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 179, 109372	7.8	0
184	Multiple frequency modulation components detection and decomposition for rotary machine fault diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	0

183	Hybrid Pre-Training Strategy for Deep Denoising Neural Networks and Its Application in Machine Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	3
182	Electrically Activated Soft Robots: Speed Up by Rolling. <i>Soft Robotics</i> , <b>2021</b> , 8, 611-624	9.2	5
181	A Comparison of Machine Health Indicators Based on the Impulsiveness of Vibration Signals. <i>Acoustics Australia</i> , <b>2021</b> , 49, 199-206	1.4	12
180	Dynamic Degradation Quantification of Wind Turbine High Speed Shaft Bearing Based on Oscillation Based Sparsity Indices. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1880, 012013	0.3	1
179	Time-Frequency Bandpass Filter with Nonstationary Signal Decomposition Application. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1880, 012003	0.3	0
178	Correlation dimension and approximate entropy for machine condition monitoring: Revisited. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 152, 107497	7.8	21
177	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 Edition)</i> , <b>2021</b> , 34,	2.5	8
176	Flexibility-Patterned Liquid-Repelling Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 29092-29100	9.5	1
175	Sinusoidal FM patterns of fault-related vibration signals for planetary gearbox fault detection under non-stationary conditions. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 155, 107623	7.8	3
174	Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31310-31319	9.5	4
173	Magnetic levitation using diamagnetism: Mechanism, applications and prospects. <i>Science China Technological Sciences</i> , <b>2021</b> , 64, 44-58	3.5	3
172	Theoretical and Experimental Investigations on Spectral Lp/Lq Norm Ratio and Spectral Gini Index for Rotating Machine Health Monitoring. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 1074-1086	4.9	12
171	A hybrid classification autoencoder for semi-supervised fault diagnosis in rotating machinery. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 149, 107327	7.8	35
170	Smart metasurface shaft for vibration source identification with a single sensor. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 493, 115836	3.9	4
169	Generalized dispersive mode decomposition: Algorithm and applications. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 492, 115800	3.9	14
168	Time-Varying Envelope Filtering for Exhibiting Space Bearing Cage Fault Features. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13	5.2	13
167	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> , <b>2021</b> , 70, 1-16	5.2	3
166	Interactive Visual Simulation Modeling for Structural Response Prediction and Damage Detection. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1

165	Gini Indices II and III: Two New Sparsity Measures and Their Applications to Machine Condition Monitoring. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-1	5.5	7
164	Adaptive Weighted Signal Preprocessing Technique for Machine Health Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	15
163	Effect of blade pitch control on dynamic characteristics of a floating offshore wind turbine under platform pitching motion. <i>Ocean Engineering</i> , <b>2021</b> , 232, 109109	3.9	2
162	Millimeter-Wave Bat for Mapping and Quantifying Micromotions in Full Field of View. <i>Research</i> , <b>2021</b> , 2021, 9787484	7.8	4
161	Feasibility studies of a novel spar-type floating wind turbine for moderate water depths: Hydrodynamic perspective with model test. <i>Ocean Engineering</i> , <b>2021</b> , 233, 109070	3.9	1
160	Gearbox fault diagnosis based on bearing dynamic force identification. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 511, 116360	3.9	1
159	Box-Cox sparse measures: A new family of sparse measures constructed from kurtosis and negative entropy. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 160, 107930	7.8	22
158	The relationship between fault-induced impulses and harmonic-cluster with applications to rotating machinery fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 144, 106896	7.8	4
157	A scale independent flexible bearing health monitoring index based on time frequency manifold energy & entropy. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 114003	2	12
156	Vision-Based Moving Mass Detection by Time-Varying Structure Vibration Monitoring. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 11566-11577	4	3
155	Randomized resonant metamaterials for single-sensor identification of elastic vibrations. <i>Nature Communications</i> , <b>2020</b> , 11, 2353	17.4	13
154	Full-Range Line-Field Optical Coherence Tomography for High-Accuracy Measurements of Optical Lens. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7180-7190	5.2	4
153	Differential Enhancement Method for Robust and Accurate Heart Rate Monitoring via Microwave Vital Sign Sensing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7108-7118	5.2	17
152	Anti-noise frequency estimation performance of Hanning-windowed energy centrobaric method for optical coherence velocimeter. <i>Optics and Lasers in Engineering</i> , <b>2020</b> , 134, 106250	4.6	2
151	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> , <b>2020</b> , 485, 115571	3.9	8
150	Acoustic-Excitation Optical Coherence Vibrometer for Real-Time Microstructure Vibration Measurement and Modal Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7209-7217 <sup>1</sup>	5.2	1
149	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> , <b>2020</b> , 140, 106725	7.8	66
148	A Novel Dynamics Analysis Method for Spar-Type Floating Offshore Wind Turbine. <i>China Ocean Engineering</i> , <b>2020</b> , 34, 99-109	1.1	5

147	Electrostatic field induced coupling actuation mechanism for dielectric elastomer actuators. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 35, 100638	3.9	5
146	Droplet manipulation of hierarchical steel surfaces using femtosecond laser fabrication. <i>Applied Surface Science</i> , <b>2020</b> , 521, 146474	6.7	6
145	Parametric identification of time-varying systems from free vibration using intrinsic chirp component decomposition. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2020</b> , 36, 188-205	2	4
144	Performance enhancement of wind energy harvester utilizing wake flow induced by double upstream flat-plates. <i>Applied Energy</i> , <b>2020</b> , 257, 114034	10.7	26
143	Rub-Impact Fault Diagnosis of Rotating Machinery Based on 1-D Convolutional Neural Networks. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 8349-8363	4	19
142	Self-Compensating Liquid-Repellent Surfaces with Stratified Morphology. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4174-4182	9.5	6
141	Aerodynamic and aeroelastic characteristics of flexible wind turbine blades under periodic unsteady inflows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2020</b> , 197, 104057	3.7	19
140	Design approaches of performance-scaled rotor for wave basin model tests of floating wind turbines. <i>Renewable Energy</i> , <b>2020</b> , 148, 573-584	8.1	12
139	Density-Based Measurement and Manipulation via Magnetic Levitation Enhanced by the Dual-Halbach Array. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 1730-1737	4	5
138	Stiffness-mass-coding metamaterial with broadband tunability for low-frequency vibration isolation. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 489, 115685	3.9	10
137	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> , <b>2020</b> , 207, 104390	3.7	4
136	Vision-based vibration measurement by sensing motion of spider silk. <i>Procedia Manufacturing</i> , <b>2020</b> , 49, 126-131	1.5	4
135	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> , <b>2020</b> , 69, 9557-9567	5.2	19
134	Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , <b>2020</b> , 6, eaba9721	14.3	15
133	Ultra-micro Vibration Measurement Method Using CW Doppler Radar <b>2020</b> ,		2
132	Flexible dynamic modeling and analysis of drive train for Offshore Floating Wind Turbine. <i>Renewable Energy</i> , <b>2020</b> , 145, 1292-1305	8.1	17
131	Full-range Fourier-domain optical coherence tomography based on Mach-Zehnder interferometer. <i>Optics and Lasers in Engineering</i> , <b>2020</b> , 124, 105794	4.6	3
130	Vision-based system for simultaneous monitoring of shaft rotational speed and axial vibration using non-projection composite fringe pattern. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 120, 765-776	7.8	18

129	Design of a three degrees-of-freedom biomimetic microphone array based on a coupled circuit. <i>Measurement Science and Technology</i> , <b>2019</b> , 30, 065101	2	2
128	Separating Multiple Moving Sources by Microphone Array Signals for Wayside Acoustic Fault Diagnosis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2019</b> , 141,	1.6	1
127	Three-Dimensional Printed Surfaces Inspired by Bi-Gaussian Stratified Plateaus. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 20528-20534	9.5	6
126	Bioinspired Variable Stiffness Dielectric Elastomer Actuators with Large and Tunable Load Capacity. <i>Soft Robotics</i> , <b>2019</b> , 6, 631-643	9.2	6
125	Proposal for the Realization of a Single-Detector Acoustic Camera Using a Space-Coiling Anisotropic Metamaterial. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	15
124	Bi-Gaussian Stratified Wetting Model on Rough Surfaces. <i>Langmuir</i> , <b>2019</b> , 35, 5967-5974	4	6
123	Label-free manipulation via the magneto-Archimedes effect: fundamentals, methodology and applications. <i>Materials Horizons</i> , <b>2019</b> , 6, 1359-1379	14.4	35
122	Virtual decoupling of mechanical systems considering the mass effect of resilient links: Theoretical and numerical studies. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 123, 443-454	7.8	2
121	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> , <b>2019</b> , 448, 211-229	3.9	36
120	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> , <b>2019</b> , 115, 132-146	7.8	4
119	Frequency-domain intrinsic component decomposition for multimodal signals with nonlinear group delays. <i>Signal Processing</i> , <b>2019</b> , 154, 57-63	4.4	8
118	Adaptive chirp mode pursuit: Algorithm and applications. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 116, 566-584	7.8	65
117	Fork-shaped bluff body for enhancing the performance of galloping-based wind energy harvester. <i>Energy</i> , <b>2019</b> , 183, 92-105	7.9	29
116	Modal identification of multi-degree-of-freedom structures based on intrinsic chirp component decomposition method. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2019</b> , 40, 1741-1758	3.2	6
115	A centrifugal magnetic levitation approach for high-reliability density measurement. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 287, 64-70	8.5	11
114	An Effective Accuracy Evaluation Method for LFM CW Radar Displacement Monitoring With Phasor Statistical Analysis. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 12224-12234	4	7
113	Consistent Variable Selection for a Nonparametric Nonlinear System by Inverse and Contour Regressions. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 2653-2664	5.9	1
112	Wind shear effect induced by the platform pitch motion of a spar-type floating wind turbine. <i>Renewable Energy</i> , <b>2019</b> , 135, 1186-1199	8.1	10



111	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> , <b>2019</b> , 168, 1138-1156	7.9	19
110	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> , <b>2019</b> , 440, 83-99	3.9	65
109	Warped Variational Mode Decomposition With Application to Vibration Signals of Varying-Speed Rotating Machineries. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 2755-2767	5.2	22
108	Parameterised time-frequency analysis methods and their engineering applications: A review of recent advances. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 119, 182-221	7.8	79
107	Vision-Based Measurement System for Instantaneous Rotational Speed Monitoring Using Linearly Varying-Density Fringe Pattern. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 1434-1445	5.2	19
106	Performance improvement of planar dielectric elastomer actuators by magnetic modulating mechanism. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 065007	3.4	5
105	Tunable rotating-mode density measurement using magnetic levitation. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 142408	3.4	11
104	Accurate and Robust Displacement Measurement for FMCW Radar Vibration Monitoring. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 1131-1139	4	31
103	Parameterized model based Short-time chirp component decomposition. <i>Signal Processing</i> , <b>2018</b> , 145, 146-154	4.4	4
102	The power performance of an offshore floating wind turbine in platform pitching motion. <i>Energy</i> , <b>2018</b> , 154, 508-521	7.9	43
101	Doppler Frequency Estimation by Parameterized Time-Frequency Transform and Phase Compensation Technique. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 3734-3744	4	15
100	Nonstationary Signal Denoising Using an Envelope-Tracking Filter. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 2004-2015	5.5	13
99	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> , <b>2018</b> , 13, 292-300	3.3	4
98	Measurement of instantaneous rotational speed using double-sine-varying-density fringe pattern. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 103, 117-130	7.8	9
97	Nonlinear system identification using Kautz basis expansion-based Volterra-BARAFAC model. <i>Nonlinear Dynamics</i> , <b>2018</b> , 94, 2277-2287	5	5
96	Arbitrary-directional broadband vibration energy harvesting using magnetically coupled flextensional transducers. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 095010	3.4	20
95	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> , <b>2018</b> , 82, 215-244	3.1	5
94	Y-type three-blade bluff body for wind energy harvesting. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 233903	3.4	39

93	On the power coefficient overshoot of an offshore floating wind turbine in surge oscillations. <i>Wind Energy</i> , <b>2018</b> , 21, 1076-1091	3.4	23
92	Component isolation for multi-component signal analysis using a non-parametric gaussian latent feature model. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 103, 368-380	7.8	7
91	Multisegment annular dielectric elastomer actuators for soft robots. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 115024	3.4	16
90	Parameterized model based blind intrinsic chirp source separation <b>2018</b> , 83, 73-82		5
89	High-precision frequency estimation for FMCW radar applications based on parameterized de-alternating and modified ICCD. <i>Measurement Science and Technology</i> , <b>2018</b> , 29, 075010	2	2
88	A Fast Rolling Soft Robot Driven by Dielectric Elastomer. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 1630-1640	5.5	41
87	Enhanced directional acoustic sensing with phononic crystal cavity resonance. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 261902	3.4	20
86	Intrinsic chirp component decomposition by using Fourier Series representation. <i>Signal Processing</i> , <b>2017</b> , 137, 319-327	4.4	66
85	A broadband compressive-mode vibration energy harvester enhanced by magnetic force intervention approach. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 163904	3.4	54
84	Power fluctuation and power loss of wind turbines due to wind shear and tower shadow. <i>Frontiers of Mechanical Engineering</i> , <b>2017</b> , 12, 321-332	3.3	23
83	Accurate Measurement in Doppler Radar Vital Sign Detection Based on Parameterized Demodulation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 4483-4492	4.1	30
82	Nonlinear Chirp Mode Decomposition: A Variational Method. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 6024-6037	4.8	120
81	Separation of Overlapped Non-Stationary Signals by Ridge Path Regrouping and Intrinsic Chirp Component Decomposition. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 5994-6005	4	87
80	Influences of surge motion on the power and thrust characteristics of an offshore floating wind turbine. <i>Energy</i> , <b>2017</b> , 141, 2054-2068	7.9	41
79	Chirplet Path Fusion for the Analysis of Time-Varying Frequency-Modulated Signals. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 1370-1380	8.9	23
78	Static clutter elimination for frequency-modulated continuous-wave radar displacement measurement based on phasor offset compensation. <i>Electronics Letters</i> , <b>2017</b> , 53, 1491-1493	1.1	9
77	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> , <b>2016</b> , 70-71, 1171-1192	7.8	39
76	Dynamical characteristics of fluid-conveying microbeams actuated by electrostatic force. <i>Microfluidics and Nanofluidics</i> , <b>2016</b> , 20, 1	2.8	4



75	Asymmetry bistability for a coupled dielectric elastomer minimum energy structure. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 115023	3.4	6
74	Time-Varying Frequency-Modulated Component Extraction Based on Parameterized Demodulation and Singular Value Decomposition. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 276-285	5.2	42
73	Dynamics of suspended microchannel resonators conveying opposite internal fluid flow: Stability, frequency shift and energy dissipation. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 368, 103-120	3.9	25
72	Finite Volume Modeling of Gas Flow in Microbearings with Rough Surface Topography. <i>Tribology Transactions</i> , <b>2016</b> , 59, 99-107	1.8	6
71	A novel approach for identification of cascade of Hammerstein model. <i>Nonlinear Dynamics</i> , <b>2016</b> , 86, 513-522	5	4
70	Parametric Identification of Nonlinear Vibration Systems Via Polynomial Chirplet Transform. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2016</b> , 138,	1.6	7
69	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> , <b>2016</b> , 83,	2.7	8
68	Effects of surface relaxation and reconstruction on the vibration characteristics of nanobeams. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 165304	3	6
67	Nonlinear time-varying vibration system identification using parametric time-frequency transform with spline kernel. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 1679-1694	5	16
66	Component Extraction for Non-Stationary Multi-Component Signal Using Parameterized De-chirping and Band-Pass Filter. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 1373-1377	3.2	50
65	Effect of random surface topography on the gaseous flow in microtubes with an extended slip model. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 897-910	2.8	8
64	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> , <b>2015</b> , 22, 821-841	3.7	39
63	Uncertain eigenvalue analysis by the sparse grid stochastic collocation method. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2015</b> , 31, 545-557	2	5
62	Tunable micro- and nanomechanical resonators. <i>Sensors</i> , <b>2015</b> , 15, 26478-566	3.8	53
61	Scale Effect on Tension-Induced Intermodal Coupling in Nanomechanical Resonators. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	10
60	Electrostatic pull-in instability in MEMS/NEMS: A review. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 214, 187-218	3.9	339
59	Wavelet basis expansion-based Volterra kernel function identification through multilevel excitations. <i>Nonlinear Dynamics</i> , <b>2014</b> , 76, 985-999	5	19
58	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> , <b>2014</b> , 19, 1156-1174	3.7	15

57	General Parameterized Time-Frequency Transform. <i>IEEE Transactions on Signal Processing</i> , <b>2014</b> , 62, 2751-2764	1.03	18
56	Application of Parameterized Time-Frequency Analysis on Multicomponent Frequency Modulated Signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2014</b> , 63, 3169-3180	5.2	46
55	Wavelet basis expansion-based spatio-temporal Volterra kernels identification for nonlinear distributed parameter systems. <i>Nonlinear Dynamics</i> , <b>2014</b> , 78, 1179-1192	5	10
54	Frequency-varying group delay estimation using frequency domain polynomial chirplet transform. <i>Mechanical Systems and Signal Processing</i> , <b>2014</b> , 46, 146-162	7.8	24
53	Effect of surface layer thickness on buckling and vibration of nonlocal nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 650-654	2.3	31
52	Gaseous slip flow in micro-bearings with random rough surface. <i>International Journal of Mechanical Sciences</i> , <b>2013</b> , 68, 105-113	5.5	10
51	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> , <b>2013</b> , 332, 6768-6784	3.9	67
50	Parametric characteristic of the random vibration response of nonlinear systems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2013</b> , 29, 267-283	2	4
49	Multicomponent Signal Analysis Based on Polynomial Chirplet Transform. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 3948-3956	8.9	64
48	The Fault Characteristics of Planetary Gear System with Tooth Breakage. <i>Key Engineering Materials</i> , <b>2013</b> , 569-570, 489-496	0.4	2
47	Effect of surface roughness on rarefied-gas heat transfer in microbearings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2012</b> , 376, 789-794	2.3	5
46	Characterize highly oscillating frequency modulation using generalized Warblet transform. <i>Mechanical Systems and Signal Processing</i> , <b>2012</b> , 26, 128-140	7.8	53
45	Time-frequency data fusion technique with application to vibration signal analysis. <i>Mechanical Systems and Signal Processing</i> , <b>2012</b> , 29, 164-173	7.8	17
44	Analysis and design of the force and displacement transmissibility of nonlinear viscous damper based vibration isolation systems. <i>Nonlinear Dynamics</i> , <b>2012</b> , 67, 2671-2687	5	61
43	Spline-Kernelled Chirplet Transform for the Analysis of Signals With Time-Varying Frequency and Its Application. <i>IEEE Transactions on Industrial Electronics</i> , <b>2012</b> , 59, 1612-1621	8.9	73
42	Slip flow and heat transfer in microbearings with fractal surface topographies. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 7223-7233	4.9	11
41	Study of the effects of cubic nonlinear damping on vibration isolations using Harmonic Balance Method. <i>International Journal of Non-Linear Mechanics</i> , <b>2012</b> , 47, 1073-1080	2.8	84
40	Evaluation of transmissibility for a class of nonlinear passive vibration isolators. <i>Frontiers of Mechanical Engineering</i> , <b>2012</b> , 7, 401-409	3.3	3

39	Coupled Nonlinear Effects of Random Surface Roughness and Rarefaction on Slip Flow in Ultra-Thin Film Gas Bearing Lubrication. <i>Journal of Tribology</i> , <b>2012</b> , 134,	1.8	4
38	Polynomial Chirplet Transform With Application to Instantaneous Frequency Estimation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2011</b> , 60, 3222-3229	5.2	144
37	Nonlinear Dynamic Analysis of Atomic Force Microscopy Under Bounded Noise Parametric Excitation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2011</b> , 16, 1063-1072	5.5	7
36	The force transmissibility of MDOF structures with a non-linear viscous damping device. <i>International Journal of Non-Linear Mechanics</i> , <b>2011</b> , 46, 1305-1314	2.8	27
35	Application of support vector machine based on pattern spectrum entropy in fault diagnostics of rolling element bearings. <i>Measurement Science and Technology</i> , <b>2011</b> , 22, 045708	2	37
34	Feasibility study of structural damage detection using NARMAX modelling and Nonlinear Output Frequency Response Function based analysis. <i>Mechanical Systems and Signal Processing</i> , <b>2011</b> , 25, 1045-1061	7.8	60
33	The Nonlinear Output Frequency Response Functions of One-Dimensional Chain Type Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2010</b> , 77,	2.7	7
32	The Transmissibility of Vibration Isolators With a Nonlinear Antisymmetric Damping Characteristic. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2010</b> , 132,	1.6	22
31	Random surface roughness effect on slider microbearing lubrication. <i>Micro and Nano Letters</i> , <b>2010</b> , 5, 347	0.9	3
30	Feature Extraction for Damage Detection in Structures Based on Nonlinearity Analysis. <i>Key Engineering Materials</i> , <b>2009</b> , 413-414, 627-634	0.4	10
29	On the energy leakage of discrete wavelet transform. <i>Mechanical Systems and Signal Processing</i> , <b>2009</b> , 23, 330-343	7.8	54
28	Theoretical study of the effects of nonlinear viscous damping on vibration isolation of s dof systems. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 323, 352-365	3.9	110
27	Analysis of Locally Nonlinear MDOF Systems Using Nonlinear Output Frequency Response Functions. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2009</b> , 131,	1.6	8
26	Novel method for detecting the non-linear components in periodic structures. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2008</b> , 222, 903-910	1.3	4
25	An effective method for locating nonlinear components in periodic structures. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 96, 012016	0.3	2
24	Comparisons between harmonic balance and nonlinear output frequency response function in nonlinear system analysis. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 311, 56-73	3.9	83
23	A novel approach for nonlinearity detection in vibrating systems. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 314, 603-615	3.9	35
22	The effects of nonlinearity on the output frequency response of a passive engine mount. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 318, 313-328	3.9	27

21	Numerical analysis of cracked beams using nonlinear output frequency response functions. <i>Computers and Structures</i> , <b>2008</b> , 86, 1809-1818	4.5	34
20	Nonlinear parameter estimation for multi-degree-of-freedom nonlinear systems using nonlinear output frequency-response functions. <i>Mechanical Systems and Signal Processing</i> , <b>2008</b> , 22, 1582-1594	7.8	22
19	Analysis of bilinear oscillators under harmonic loading using nonlinear output frequency response functions. <i>International Journal of Mechanical Sciences</i> , <b>2007</b> , 49, 1213-1225	5.5	45
18	Non-linear output frequency response functions of MDOF systems with multiple non-linear components. <i>International Journal of Non-Linear Mechanics</i> , <b>2007</b> , 42, 941-958	2.8	22
17	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> , <b>2007</b> , 42, 1074-1083	2.8	18
16	Resonances and resonant frequencies for a class of nonlinear systems. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 300, 993-1014	3.9	46
15	Crack detection using nonlinear output frequency response functions. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 301, 777-788	3.9	108
14	On the convergence of the Volterra-series representation of the Duffing oscillators subjected to harmonic excitations. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 305, 322-332	3.9	35
13	Singularity analysis of the vibration signals by means of wavelet modulus maximal method. <i>Mechanical Systems and Signal Processing</i> , <b>2007</b> , 21, 780-794	7.8	63
12	Linear parameter estimation for multi-degree-of-freedom nonlinear systems using nonlinear output frequency-response functions. <i>Mechanical Systems and Signal Processing</i> , <b>2007</b> , 21, 3108-3122	7.8	17
11	Vibration analysis of a cracked rotor using Hilbert-Huang transform. <i>Mechanical Systems and Signal Processing</i> , <b>2007</b> , 21, 3030-3041	7.8	53
10	Non-linear output frequency response functions for multi-input non-linear Volterra systems. <i>International Journal of Control</i> , <b>2007</b> , 80, 843-855	1.5	25
9	Relationship between harmonic balance method and non-linear output frequency response function approach. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2007</b> , 221, 1533-1543	1.3	4
8	An improved Hilbert-Huang transform and its application in vibration signal analysis. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 286, 187-205	3.9	310
7	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> , <b>2005</b> , 19, 974-988	7.8	536
6	Detection of the rubbing-caused impacts for rotor fault diagnosis using reassigned scalogram. <i>Mechanical Systems and Signal Processing</i> , <b>2005</b> , 19, 391-409	7.8	89
5	Application of the wavelet transform in machine condition monitoring and fault diagnostics: a review with bibliography. <i>Mechanical Systems and Signal Processing</i> , <b>2004</b> , 18, 199-221	7.8	755
4	Design of fuzzy controller for smart structures using genetic algorithms. <i>Smart Materials and Structures</i> , <b>2003</b> , 12, 979-986	3.4	18

3	VIBRATION SIGNAL ANALYSIS AND FEATURE EXTRACTION BASED ON REASSIGNED WAVELET SCALOGRAM. <i>Journal of Sound and Vibration</i> , <b>2002</b> , 253, 1087-1100	3.9	119
2	IDENTIFICATION OF THE SHAFT ORBIT FOR ROTATING MACHINES USING WAVELET MODULUS MAXIMA. <i>Mechanical Systems and Signal Processing</i> , <b>2002</b> , 16, 623-635	7.8	36
1	Identification of forced time-varying systems via intrinsic chirp component decomposition. <i>JVC/Journal of Vibration and Control</i> ,107754632210931	2	