

Zhike Peng

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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	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	7.8	755
199	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	7.8	536
198	Electrostatic pull-in instability in MEMS/NEMS: A review. <i>Sensors and Actuators A: Physical</i> , 2014 , 214, 187-218	3.9	339
197	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	310
196	Polynomial Chirplet Transform With Application to Instantaneous Frequency Estimation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 3222-3229	5.2	144
195	Nonlinear Chirp Mode Decomposition: A Variational Method. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 6024-6037	4.8	120
194	VIBRATION SIGNAL ANALYSIS AND FEATURE EXTRACTION BASED ON REASSIGNED WAVELET SCALOGRAM. <i>Journal of Sound and Vibration</i> , 2002 , 253, 1087-1100	3.9	119
193	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	110
192	Crack detection using nonlinear output frequency response functions. <i>Journal of Sound and Vibration</i> , 2007 , 301, 777-788	3.9	108
191	General Parameterized Time-Frequency Transform. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2751-2764	4.103	103
190	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	7.8	89
189	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	87
188	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	2.8	84
187	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	83
186	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	7.8	79
185	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	8.9	73
184	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	67

183	Intrinsic chirp component decomposition by using Fourier Series representation. <i>Signal Processing</i> , 2017 , 137, 319-327	4.4	66
182	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	7.8	66
181	Adaptive chirp mode pursuit: Algorithm and applications. <i>Mechanical Systems and Signal Processing</i> , 2019 , 116, 566-584	7.8	65
180	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	65
179	Multicomponent Signal Analysis Based on Polynomial Chirplet Transform. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 3948-3956	8.9	64
178	Singularity analysis of the vibration signals by means of wavelet modulus maximal method. <i>Mechanical Systems and Signal Processing</i> , 2007 , 21, 780-794	7.8	63
177	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	61
176	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	7.8	60
175	A broadband compressive-mode vibration energy harvester enhanced by magnetic force intervention approach. <i>Applied Physics Letters</i> , 2017 , 110, 163904	3.4	54
174	On the energy leakage of discrete wavelet transform. <i>Mechanical Systems and Signal Processing</i> , 2009 , 23, 330-343	7.8	54
173	Characterize highly oscillating frequency modulation using generalized Warblet transform. <i>Mechanical Systems and Signal Processing</i> , 2012 , 26, 128-140	7.8	53
172	Tunable micro- and nanomechanical resonators. <i>Sensors</i> , 2015 , 15, 26478-566	3.8	53
171	Vibration analysis of a cracked rotor using Hilbert-Huang transform. <i>Mechanical Systems and Signal Processing</i> , 2007 , 21, 3030-3041	7.8	53
170	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	3.2	50
169	Application of Parameterized Time-Frequency Analysis on Multicomponent Frequency Modulated Signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 3169-3180	5.2	46
168	Resonances and resonant frequencies for a class of nonlinear systems. <i>Journal of Sound and Vibration</i> , 2007 , 300, 993-1014	3.9	46
167	Analysis of bilinear oscillators under harmonic loading using nonlinear output frequency response functions. <i>International Journal of Mechanical Sciences</i> , 2007 , 49, 1213-1225	5.5	45
166	The power performance of an offshore floating wind turbine in platform pitching motion. <i>Energy</i> , 2018 , 154, 508-521	7.9	43

165	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	5.2	42
164	Influences of surge motion on the power and thrust characteristics of an offshore floating wind turbine. <i>Energy</i> , 2017 , 141, 2054-2068	7.9	41
163	A Fast Rolling Soft Robot Driven by Dielectric Elastomer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 1630-1640	5.5	41
162	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	7.8	39
161	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	3.7	39
160	Y-type three-blade bluff body for wind energy harvesting. <i>Applied Physics Letters</i> , 2018 , 112, 233903	3.4	39
159	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	37
158	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	36
157	IDENTIFICATION OF THE SHAFT ORBIT FOR ROTATING MACHINES USING WAVELET MODULUS MAXIMA. <i>Mechanical Systems and Signal Processing</i> , 2002 , 16, 623-635	7.8	36
156	Label-free manipulation via the magneto-Archimedes effect: fundamentals, methodology and applications. <i>Materials Horizons</i> , 2019 , 6, 1359-1379	14.4	35
155	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	35
154	A novel approach for nonlinearity detection in vibrating systems. <i>Journal of Sound and Vibration</i> , 2008 , 314, 603-615	3.9	35
153	A hybrid classification autoencoder for semi-supervised fault diagnosis in rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2021 , 149, 107327	7.8	35
152	Numerical analysis of cracked beams using nonlinear output frequency response functions. <i>Computers and Structures</i> , 2008 , 86, 1809-1818	4.5	34
151	Accurate and Robust Displacement Measurement for FMCW Radar Vibration Monitoring. <i>IEEE Sensors Journal</i> , 2018 , 18, 1131-1139	4	31
150	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	2.3	31
149	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	4.1	30
148	Fork-shaped bluff body for enhancing the performance of galloping-based wind energy harvester. <i>Energy</i> , 2019 , 183, 92-105	7.9	29

147	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	2.8	27
146	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	27
145	Performance enhancement of wind energy harvester utilizing wake flow induced by double upstream flat-plates. <i>Applied Energy</i> , 2020 , 257, 114034	10.7	26
144	Dynamics of suspended microchannel resonators conveying opposite internal fluid flow: Stability, frequency shift and energy dissipation. <i>Journal of Sound and Vibration</i> , 2016 , 368, 103-120	3.9	25
143	Non-linear output frequency response functions for multi-input non-linear Volterra systems. <i>International Journal of Control</i> , 2007 , 80, 843-855	1.5	25
142	Frequency-varying group delay estimation using frequency domain polynomial chirplet transform. <i>Mechanical Systems and Signal Processing</i> , 2014 , 46, 146-162	7.8	24
141	Power fluctuation and power loss of wind turbines due to wind shear and tower shadow. <i>Frontiers of Mechanical Engineering</i> , 2017 , 12, 321-332	3.3	23
140	On the power coefficient overshoot of an offshore floating wind turbine in surge oscillations. <i>Wind Energy</i> , 2018 , 21, 1076-1091	3.4	23
139	Chirplet Path Fusion for the Analysis of Time-Varying Frequency-Modulated Signals. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1370-1380	8.9	23
138	The Transmissibility of Vibration Isolators With a Nonlinear Antisymmetric Damping Characteristic. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010 , 132,	1.6	22
137	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	2.8	22
136	Nonlinear parameter estimation for multi-degree-of-freedom nonlinear systems using nonlinear output frequency-response functions. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 1582-1594	7.8	22
135	Warped Variational Mode Decomposition With Application to Vibration Signals of Varying-Speed Rotating Machineries. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 2755-2767	5.2	22
134	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	7.8	22
133	Correlation dimension and approximate entropy for machine condition monitoring: Revisited. <i>Mechanical Systems and Signal Processing</i> , 2021 , 152, 107497	7.8	21
132	Arbitrary-directional broadband vibration energy harvesting using magnetically coupled flextensional transducers. <i>Smart Materials and Structures</i> , 2018 , 27, 095010	3.4	20
131	Enhanced directional acoustic sensing with phononic crystal cavity resonance. <i>Applied Physics Letters</i> , 2018 , 112, 261902	3.4	20
130	Vision-Based Measurement System for Instantaneous Rotational Speed Monitoring Using Linearly Varying-Density Fringe Pattern. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 1434-1445	5.2	19

129	Wavelet basis expansion-based Volterra kernel function identification through multilevel excitations. <i>Nonlinear Dynamics</i> , 2014 , 76, 985-999	5	19
128	Rub-Impact Fault Diagnosis of Rotating Machinery Based on 1-D Convolutional Neural Networks. <i>IEEE Sensors Journal</i> , 2020 , 20, 8349-8363	4	19
127	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	3.7	19
126	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	5.2	19
125	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	7.9	19
124	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> , 2019 , 120, 765-776	7.8	18
123	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	2.8	18
122	Design of fuzzy controller for smart structures using genetic algorithms. <i>Smart Materials and Structures</i> , 2003 , 12, 979-986	3.4	18
121	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	5.2	17
120	Time-frequency data fusion technique with application to vibration signal analysis. <i>Mechanical Systems and Signal Processing</i> , 2012 , 29, 164-173	7.8	17
119	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	7.8	17
118	Fully interpretable neural network for locating resonance frequency bands for machine condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2022 , 168, 108673	7.8	17
117	Flexible dynamic modeling and analysis of drive train for Offshore Floating Wind Turbine. <i>Renewable Energy</i> , 2020 , 145, 1292-1305	8.1	17
116	Nonlinear time-varying vibration system identification using parametric time-frequency transform with spline kernel. <i>Nonlinear Dynamics</i> , 2016 , 85, 1679-1694	5	16
115	Multisegment annular dielectric elastomer actuators for soft robots. <i>Smart Materials and Structures</i> , 2018 , 27, 115024	3.4	16
114	Proposal for the Realization of a Single-Detector Acoustic Camera Using a Space-Coiling Anisotropic Metamaterial. <i>Physical Review Applied</i> , 2019 , 11,	4.3	15
113	Doppler Frequency Estimation by Parameterized Time-Frequency Transform and Phase Compensation Technique. <i>IEEE Sensors Journal</i> , 2018 , 18, 3734-3744	4	15
112	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	3.7	15

111	Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , 2020 , 6, eaba9721	14.3	15
110	Adaptive Weighted Signal Preprocessing Technique for Machine Health Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	15
109	Generalized dispersive mode decomposition: Algorithm and applications. <i>Journal of Sound and Vibration</i> , 2021 , 492, 115800	3.9	14
108	Randomized resonant metamaterials for single-sensor identification of elastic vibrations. <i>Nature Communications</i> , 2020 , 11, 2353	17.4	13
107	Nonstationary Signal Denoising Using an Envelope-Tracking Filter. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2004-2015	5.5	13
106	Time-Varying Envelope Filtering for Exhibiting Space Bearing Cage Fault Features. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-13	5.2	13
105	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	12
104	Design approaches of performance-scaled rotor for wave basin model tests of floating wind turbines. <i>Renewable Energy</i> , 2020 , 148, 573-584	8.1	12
103	A Comparison of Machine Health Indicators Based on the Impulsiveness of Vibration Signals. <i>Acoustics Australia</i> , 2021 , 49, 199-206	1.4	12
102	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> , 2021 , 18, 1074-1086	4.9	12
101	Tunable rotating-mode density measurement using magnetic levitation. <i>Applied Physics Letters</i> , 2018 , 112, 142408	3.4	11
100	Slip flow and heat transfer in microbearings with fractal surface topographies. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7223-7233	4.9	11
99	A centrifugal magnetic levitation approach for high-reliability density measurement. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 64-70	8.5	11
98	Gaseous slip flow in micro-bearings with random rough surface. <i>International Journal of Mechanical Sciences</i> , 2013 , 68, 105-113	5.5	10
97	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	10
96	Wavelet basis expansion-based spatio-temporal Volterra kernels identification for nonlinear distributed parameter systems. <i>Nonlinear Dynamics</i> , 2014 , 78, 1179-1192	5	10
95	Feature Extraction for Damage Detection in Structures Based on Nonlinearity Analysis. <i>Key Engineering Materials</i> , 2009 , 413-414, 627-634	0.4	10
94	Stiffness-mass-coding metamaterial with broadband tunability for low-frequency vibration isolation. <i>Journal of Sound and Vibration</i> , 2020 , 489, 115685	3.9	10

93	Wind shear effect induced by the platform pitch motion of a spar-type floating wind turbine. <i>Renewable Energy</i> , 2019 , 135, 1186-1199	8.1	10
92	Measurement of instantaneous rotational speed using double-sine-varying-density fringe pattern. <i>Mechanical Systems and Signal Processing</i> , 2018 , 103, 117-130	7.8	9
91	Static clutter elimination for frequency-modulated continuous-wave radar displacement measurement based on phasor offset compensation. <i>Electronics Letters</i> , 2017 , 53, 1491-1493	1.1	9
90	Generalized Gini indices: Complementary sparsity measures to Box-Cox sparsity measures for machine condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2022 , 169, 108751	7.8	9
89	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	2.8	8
88	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	8
87	Frequency-domain intrinsic component decomposition for multimodal signals with nonlinear group delays. <i>Signal Processing</i> , 2019 , 154, 57-63	4.4	8
86	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	8
85	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> , 2021 , 34,	2.5	8
84	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,	2.7	8
83	Nonlinear Dynamic Analysis of Atomic Force Microscopy Under Bounded Noise Parametric Excitation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 1063-1072	5.5	7
82	The Nonlinear Output Frequency Response Functions of One-Dimensional Chain Type Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010 , 77,	2.7	7
81	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	7
80	An Effective Accuracy Evaluation Method for LFM CW Radar Displacement Monitoring With Phasor Statistical Analysis. <i>IEEE Sensors Journal</i> , 2019 , 19, 12224-12234	4	7
79	Gini Indices II and III: Two New Sparsity Measures and Their Applications to Machine Condition Monitoring. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	7
78	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	7.8	7
77	Variational nonlinear component decomposition for fault diagnosis of planetary gearboxes under variable speed conditions. <i>Mechanical Systems and Signal Processing</i> , 2022 , 162, 108016	7.8	7
76	Three-Dimensional Printed Surfaces Inspired by Bi-Gaussian Stratified Plateaus. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20528-20534	9.5	6

75	Bioinspired Variable Stiffness Dielectric Elastomer Actuators with Large and Tunable Load Capacity. <i>Soft Robotics</i> , 2019 , 6, 631-643	9.2	6
74	Bi-Gaussian Stratified Wetting Model on Rough Surfaces. <i>Langmuir</i> , 2019 , 35, 5967-5974	4	6
73	Asymmetry bistability for a coupled dielectric elastomer minimum energy structure. <i>Smart Materials and Structures</i> , 2016 , 25, 115023	3.4	6
72	Finite Volume Modeling of Gas Flow in Microbearings with Rough Surface Topography. <i>Tribology Transactions</i> , 2016 , 59, 99-107	1.8	6
71	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	3.2	6
70	Droplet manipulation of hierarchical steel surfaces using femtosecond laser fabrication. <i>Applied Surface Science</i> , 2020 , 521, 146474	6.7	6
69	Self-Compensating Liquid-Repellent Surfaces with Stratified Morphology. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4174-4182	9.5	6
68	Effects of surface relaxation and reconstruction on the vibration characteristics of nanobeams. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 165304	3	6
67	A Novel Dynamics Analysis Method for Spar-Type Floating Offshore Wind Turbine. <i>China Ocean Engineering</i> , 2020 , 34, 99-109	1.1	5
66	Electrostatic field induced coupling actuation mechanism for dielectric elastomer actuators. <i>Extreme Mechanics Letters</i> , 2020 , 35, 100638	3.9	5
65	Performance improvement of planar dielectric elastomer actuators by magnetic modulating mechanism. <i>Smart Materials and Structures</i> , 2018 , 27, 065007	3.4	5
64	Nonlinear system identification using Kautz basis expansion-based Volterra-BARAFAC model. <i>Nonlinear Dynamics</i> , 2018 , 94, 2277-2287	5	5
63	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	3.1	5
62	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	2.3	5
61	Uncertain eigenvalue analysis by the sparse grid stochastic collocation method. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015 , 31, 545-557	2	5
60	Density-Based Measurement and Manipulation via Magnetic Levitation Enhanced by the Dual-Halbach Array. <i>IEEE Sensors Journal</i> , 2020 , 20, 1730-1737	4	5
59	Electrically Activated Soft Robots: Speed Up by Rolling. <i>Soft Robotics</i> , 2021 , 8, 611-624	9.2	5
58	Parameterized model based blind intrinsic chirp source separation 2018 , 83, 73-82		5

57	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	7.8	4
56	Full-Range Line-Field Optical Coherence Tomography for High-Accuracy Measurements of Optical Lens. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 7180-7190	5.2	4
55	Parameterized model based Short-time chirp component decomposition. <i>Signal Processing</i> , 2018 , 145, 146-154	4.4	4
54	Non-stationary signal analysis based on general parameterized timefrequency transform and its application in the feature extraction of a rotary machine. <i>Frontiers of Mechanical Engineering</i> , 2018 , 13, 292-300	3.3	4
53	Dynamical characteristics of fluid-conveying microbeams actuated by electrostatic force. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	4
52	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	7.8	4
51	Parametric characteristic of the random vibration response of nonlinear systems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013 , 29, 267-283	2	4
50	Coupled Nonlinear Effects of Random Surface Roughness and Rarefaction on Slip Flow in Ultra-Thin Film Gas Bearing Lubrication. <i>Journal of Tribology</i> , 2012 , 134,	1.8	4
49	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> , 2008 , 222, 903-910	1.3	4
48	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> , 2007 , 221, 1533-1543	1.3	4
47	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	7.8	4
46	Parametric identification of time-varying systems from free vibration using intrinsic chirp component decomposition. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020 , 36, 188-205	2	4
45	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	3.7	4
44	Vision-based vibration measurement by sensing motion of spider silk. <i>Procedia Manufacturing</i> , 2020 , 49, 126-131	1.5	4
43	Biomimetic Water-Repelling Surfaces with Robustly Flexible Structures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31310-31319	9.5	4
42	A novel approach for identification of cascade of Hammerstein model. <i>Nonlinear Dynamics</i> , 2016 , 86, 513-522	5	4
41	Smart metasurface shaft for vibration source identification with a single sensor. <i>Journal of Sound and Vibration</i> , 2021 , 493, 115836	3.9	4
40	Millimeter-Wave Bat for Mapping and Quantifying Micromotions in Full Field of View. <i>Research</i> , 2021 , 2021, 9787484	7.8	4

39	Vision-Based Moving Mass Detection by Time-Varying Structure Vibration Monitoring. <i>IEEE Sensors Journal</i> , 2020 , 20, 11566-11577	4	3
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