

# Qingbo He

## List of Publications by Citations

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147  
papers

3,465  
citations

35  
h-index

54  
g-index

160  
ext. papers

4,169  
ext. citations

4  
avg. IF

6.3  
L-index

#	Paper	IF	Citations
147	Energy-Fluctuated Multiscale Feature Learning With Deep ConvNet for Intelligent Spindle Bearing Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 1926-1935	5.2	242
146	A review of stochastic resonance in rotating machine fault detection. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 116, 230-260	7.8	179
145	Multiscale noise tuning of stochastic resonance for enhanced fault diagnosis in rotating machines. <i>Mechanical Systems and Signal Processing</i> , <b>2012</b> , 28, 443-457	7.8	106
144	Subspace-based gearbox condition monitoring by kernel principal component analysis. <i>Mechanical Systems and Signal Processing</i> , <b>2007</b> , 21, 1755-1772	7.8	104
143	Effects of multiscale noise tuning on stochastic resonance for weak signal detection <b>2012</b> , 22, 614-621		93
142	Vibration signal classification by wavelet packet energy flow manifold learning. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 1881-1894	3.9	87
141	Effects of underdamped step-varying second-order stochastic resonance for weak signal detection <b>2015</b> , 36, 93-103		85
140	Adaptive Multiscale Noise Tuning Stochastic Resonance for Health Diagnosis of Rolling Element Bearings. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2015</b> , 64, 564-577	5.2	82
139	Stochastic resonance with WoodsBaxton potential for rolling element bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2014</b> , 45, 488-503	7.8	81
138	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2012</b> , 61, 1218-1230	5.2	78
137	A fusion feature and its improvement based on locality preserving projections for rolling element bearing fault classification. <i>Journal of Sound and Vibration</i> , <b>2015</b> , 335, 367-383	3.9	76
136	Wayside acoustic diagnosis of defective train bearings based on signal resampling and information enhancement. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 5635-5649	3.9	75
135	Machine condition monitoring using principal component representations. <i>Mechanical Systems and Signal Processing</i> , <b>2009</b> , 23, 446-466	7.8	73
134	Sequential Multiscale Noise Tuning Stochastic Resonance for Train Bearing Fault Diagnosis in an Embedded System. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2014</b> , 63, 106-116	5.2	68
133	Rotating machine fault diagnosis through enhanced stochastic resonance by full-wave signal construction. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 85, 82-97	7.8	63
132	Fault diagnosis of rotating machines based on the EMD manifold. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 135, 106443	7.8	60
131	TimeFrequency manifold for nonlinear feature extraction in machinery fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2013</b> , 35, 200-218	7.8	59

130	Fault diagnosis of motor bearing with speed fluctuation via angular resampling of transient sound signals. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 385, 16-32	3.9	59
129	Structure damage localization with ultrasonic guided waves based on a time-frequency method. <i>Signal Processing</i> , <b>2014</b> , 96, 21-28	4.4	57
128	Online Fault Diagnosis of Motor Bearing via Stochastic-Resonance-Based Adaptive Filter in an Embedded System. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1111-1122	7.3	55
127	Multi-Scale Stochastic Resonance Spectrogram for fault diagnosis of rolling element bearings. <i>Journal of Sound and Vibration</i> , <b>2018</b> , 420, 174-184	3.9	55
126	Time-frequency manifold sparse reconstruction: A novel method for bearing fault feature extraction. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 80, 392-413	7.8	54
125	A fast and adaptive varying-scale morphological analysis method for rolling element bearing fault diagnosis. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2013</b> , 227, 1362-1370	1.3	51
124	Sparse representation based on local time-frequency template matching for bearing transient fault feature extraction. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 370, 424-443	3.9	49
123	Enhanced Rotating Machine Fault Diagnosis Based on Time-Delayed Feedback Stochastic Resonance. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	48
122	Bearing fault diagnosis of a permanent magnet synchronous motor via a fast and online order analysis method in an embedded system. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 113, 36-49	7.8	46
121	An improved multiscale noise tuning of stochastic resonance for identifying multiple transient faults in rolling element bearings. <i>Journal of Sound and Vibration</i> , <b>2014</b> , 333, 7401-7421	3.9	44
120	Multiscale slope feature extraction for rotating machinery fault diagnosis using wavelet analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2013</b> , 46, 497-505	4.6	44
119	Wavelet Packet Envelope Manifold for Fault Diagnosis of Rolling Element Bearings. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 2515-2526	5.2	44
118	Detection of signal transients using independent component analysis and its application in gearbox condition monitoring. <i>Mechanical Systems and Signal Processing</i> , <b>2007</b> , 21, 2056-2071	7.8	43
117	Vibration sensor data denoising using a time-frequency manifold for machinery fault diagnosis. <i>Sensors</i> , <b>2013</b> , 14, 382-402	3.8	39
116	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 2538-2550	5.2	39
115	Time-varying singular value decomposition for periodic transient identification in bearing fault diagnosis. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 379, 213-231	3.9	39
114	Sparse Signal Reconstruction Based on Time-frequency Manifold for Rolling Element Bearing Fault Signature Enhancement. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 482-491	5.2	37
113	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

112	Note: signal amplification and filtering with a tristable stochastic resonance cantilever. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 026110	1.7	35
111	Fast time-frequency manifold learning and its reconstruction for transient feature extraction in rotating machinery fault diagnosis. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 141, 380-395	4.6	32
110	Time-frequency manifold correlation matching for periodic fault identification in rotating machines. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 2611-2626	3.9	31
109	Machine fault signature analysis by midpoint-based empirical mode decomposition. <i>Measurement Science and Technology</i> , <b>2011</b> , 22, 015702	2	29
108	Multi-bearing weak defect detection for wayside acoustic diagnosis based on a time-varying spatial filtering rearrangement. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 100, 224-241	7.8	27
107	Stochastic Resonance in an Underdamped System with Pinning Potential for Weak Signal Detection. <i>Sensors</i> , <b>2015</b> , 15, 21169-95	3.8	26
106	Doppler effect reduction based on time-domain interpolation resampling for wayside acoustic defective bearing detector system. <i>Mechanical Systems and Signal Processing</i> , <b>2014</b> , 46, 253-271	7.8	26
105	Automatic fault diagnosis of rotating machines by time-scale manifold ridge analysis. <i>Mechanical Systems and Signal Processing</i> , <b>2013</b> , 40, 237-256	7.8	26
104	. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 8287-8296	4	25
103	Periodic fault signal enhancement in rotating machine vibrations via stochastic resonance. <i>JVC/Journal of Vibration and Control</i> , <b>2016</b> , 22, 4227-4246	2	24
102	Complementary multi-mode low-frequency vibration energy harvesting with chiral piezoelectric structure. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 213901	3.4	24
101	Separating mixed multi-component signal with an application in mechanical watch movement <b>2008</b> , 18, 1013-1028		23
100	Vibration Characteristics of Rolling Element Bearings with Different Radial Clearances for Condition Monitoring of Wind Turbine. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4731	2.6	23
99	Doppler Effect removal based on instantaneous frequency estimation and time domain re-sampling for wayside acoustic defective bearing detector system. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2014</b> , 50, 346-355	4.6	22
98	Multiscale envelope manifold for enhanced fault diagnosis of rotating machines. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 52-53, 376-392	7.8	21
97	The Doppler Effect based acoustic source separation for a wayside train bearing monitoring system. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 361, 307-329	3.9	20
96	Study on intra-wave frequency modulation phenomenon in detection of rub-impact fault. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 122, 342-363	7.8	20
95	Enhanced directional acoustic sensing with phononic crystal cavity resonance. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 261902	3.4	20

94	Doppler Shift Removal Based on Instantaneous Frequency Estimation for Wayside Fault Diagnosis of Train Bearings. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2014</b> , 136,	1.6	19
93	Multiscale noise tuning stochastic resonance enhances weak signal detection in a circuitry system. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 115001	2	19
92	A computer-vision-based rotating speed estimation method for motor bearing fault diagnosis. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 065012	2	18
91	Wayside bearing fault diagnosis based on a data-driven Doppler effect eliminator and transient model analysis. <i>Sensors</i> , <b>2014</b> , 14, 8096-125	3.8	18
90	Exchanged ridge demodulation of time-scale manifold for enhanced fault diagnosis of rotating machinery. <i>Journal of Sound and Vibration</i> , <b>2014</b> , 333, 2450-2464	3.9	18
89	Dual-directionally tunable metamaterial for low-frequency vibration isolation. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 021907	3.4	17
88	Multi-bearing defect detection with trackside acoustic signal based on a pseudo time-frequency analysis and Dopplerlet filter. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 70-71, 176-200	7.8	17
87	A new synthetic detection technique for trackside acoustic identification of railroad roller bearing defects. <i>Applied Acoustics</i> , <b>2014</b> , 85, 69-81	3.1	17
86	Rolling Bearing Localized Defect Evaluation by Multiscale Signature via Empirical Mode Decomposition. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2012</b> , 134,	1.6	17
85	Phase Space Feature Based on Independent Component Analysis for Machine Health Diagnosis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2012</b> , 134,	1.6	16
84	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
83	Stochastic Resonance with a Joint Woods-Saxon and Gaussian Potential for Bearing Fault Diagnosis. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-17	1.1	15
82	Doppler Correction Using Short-Time MUSIC and Angle Interpolation Resampling for Wayside Acoustic Defective Bearing Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 671-680	5.2	14
81	Automatic bearing fault diagnosis of permanent magnet synchronous generators in wind turbines subjected to noise interference. <i>Measurement Science and Technology</i> , <b>2018</b> , 29, 025002	2	14
80	Transient Feature Extraction Based on Time-Frequency Manifold Image Synthesis for Machinery Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 4242-4252	5.2	13
79	Randomized resonant metamaterials for single-sensor identification of elastic vibrations. <i>Nature Communications</i> , <b>2020</b> , 11, 2353	17.4	13
78	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
77	Doppler effect reduction scheme via acceleration-based Dopplerlet transform and resampling method for the wayside acoustic defective bearing detector system. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2014</b> , 228, 3356-3373	1.3	12

76	Note: On-line weak signal detection via adaptive stochastic resonance. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 066111	1.7	12
75	Effectiveness of PEMFC historical state and operating mode in PEMFC prognosis. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 32355-32366	6.7	11
74	Wayside acoustic defective bearing detection based on improved Dopplerlet transform and Doppler transient matching. <i>Applied Acoustics</i> , <b>2016</b> , 101, 141-155	3.1	11
73	Improved regression models for ventilation estimation based on chest and abdomen movements. <i>Physiological Measurement</i> , <b>2012</b> , 33, 79-93	2.9	11
72	Machine Fault Classification Based on Local Discriminant Bases and Locality Preserving Projections. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-12	1.1	10
71	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
70	Manifold Sensing-Based Convolution Sparse Self-Learning for Defective Bearing Morphological Feature Extraction. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 3069-3078	11.9	10
69	Transient feature self-enhancement via shift-invariant manifold sparse learning for rolling bearing health diagnosis. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 148, 106957	4.6	9
68	De-noising of wayside acoustic signal from train bearings based on variable digital filtering. <i>Applied Acoustics</i> , <b>2014</b> , 83, 127-140	3.1	9
67	Oscillation based permutation entropy calculation as a dynamic nonlinear feature for health monitoring of rolling element bearing. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 172, 108891	4.6	9
66	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
65	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
64	Empirical mode decomposition applied to tissue artifact removal from respiratory signal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 3624-7	0.9	7
63	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
62	A novel method for polymer electrolyte membrane fuel cell fault diagnosis using 2D data. <i>Journal of Power Sources</i> , <b>2021</b> , 482, 228894	8.9	7
61	Tachless bearing fault detection based on adaptive impulse extraction in the time domain under fluctuant speed. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 074004	2	6
60	Doppler distortion correction based on microphone array and matching pursuit algorithm for a wayside train bearing monitoring system. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 105006	2	6
59	Online Doppler Effect Elimination Based on Unequal Time Interval Sampling for Wayside Acoustic Bearing Fault Detecting System. <i>Sensors</i> , <b>2015</b> , 15, 21075-98	3.8	6

58	Out-of-resonance vibration modulation of ultrasound with a nonlinear oscillator for microcrack detection in a cantilever beam. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 171903	3.4	6
57	An approach for fault diagnosis of bearings using wavelet-based fractal analysis <b>2010</b> ,		6
56	Fibonacci array-based focused acoustic camera for estimating multiple moving sound sources. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 478, 115351	3.9	5
55	Nonstationary weak signal detection based on normalization stochastic resonance with varying parameters. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2016</b> , 41, 621-632	1	5
54	Time-frequency manifold for gear fault signature analysis <b>2011</b> ,		5
53	Time-Varying Motion Filtering for Vision-Based Nonstationary Vibration Measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 3907-3916	5.2	5
52	Long-Term Performance Prediction of PEMFC Based on LASSO-ESN. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	5
51	Sensitive Feature Extraction of Telemetry Vibration Signal Based on Referenced Manifold Spatial Fusion Learning. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7281-7294	5.2	4
50	Wayside Bearing Fault Diagnosis Based on Envelope Analysis Paved with Time-Domain Interpolation Resampling and Weighted-Correlation-Coefficient-Guided Stochastic Resonance. <i>Shock and Vibration</i> , <b>2017</b> , 2017, 1-17	1.1	4
49	Time-frequency manifold histogram matching for transient signal detection <b>2015</b> ,		4
48	Discriminant locality preserving projection chart for statistical monitoring of manufacturing processes. <i>International Journal of Production Research</i> , <b>2014</b> , 52, 5286-5300	7.8	4
47	Development of statistical regression models for ventilation estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 1266-9	0.9	4
46	Vision-based vibration measurement by sensing motion of spider silk. <i>Procedia Manufacturing</i> , <b>2020</b> , 49, 126-131	1.5	4
45	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
44	Vision-Based Moving Mass Detection by Time-Varying Structure Vibration Monitoring. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 11566-11577	4	3
43	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
42	Combining Spatial Filtering and Sparse Filtering for Coaxial-Moving Sound Source Separation, Enhancement and Fault Diagnosis. <i>IEEE Access</i> , <b>2019</b> , 7, 25150-25162	3.5	3
41	Parametric Doppler correction analysis for wayside acoustic bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 166, 108375	7.8	3



40	Frequency-shift vibro-acoustic modulation driven by low-frequency broadband excitations in a bistable cantilever oscillator. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 037002	2	2
39	Nonlinear Damage Localization in Structures Using Nonlinear Vibration Modulation of Ultrasonic-Guided Waves. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2017</b> , 139,	1.6	2
38	Doppler Distortion Removal in Wayside Circular Microphone Array Signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 1238-1251	5.2	2
37	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
36	Feature Clustering Analysis Using Reference Model towards Rolling Bearing Performance Degradation Assessment. <i>Shock and Vibration</i> , <b>2020</b> , 2020, 1-14	1.1	2
35	Assessing the severity of fatigue crack using acoustics modulated by hysteretic vibration for a cantilever beam. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 370, 306-318	3.9	2
34	Feature-difference sparse filtering for bearing health monitoring <b>2018</b> ,		2
33	A new method of feature extraction for gearbox vibration signals <b>2010</b> ,		2
32	MECHANICAL WATCH SIGNATURE ANALYSIS BASED ON WAVELET DECOMPOSITION. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , <b>2009</b> , 07, 491-512	0.9	2
31	Origami-based adjustable sound-absorbing metamaterial. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 057092	0.2	2
30	Fault Diagnosis of Motor Bearing by Analyzing a Video Clip. <i>Mathematical Problems in Engineering</i> , <b>2016</b> , 2016, 1-11	1.1	2
29	Two-class model based on nonlinear manifold learning for bearing health monitoring <b>2016</b> ,		2
28	IC Curve-Based Lithium-Ion Battery SOC Estimation at High Rate Charging Current. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-9	5.2	2
27	Time-Frequency Manifold for Machinery Fault Diagnosis. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2017</b> , 131-154	0.3	1
26	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
25	Time-scale manifold and its ridge analysis for machine fault diagnosis <b>2012</b> ,		1
24	<b>2012</b> ,		1
23	Bearing defect diagnosis by stochastic resonance with parameter tuning <b>2011</b> ,		1



22	Bearing Defect Diagnosis by Stochastic Resonance Based on Woods-Saxon Potential. <i>Lecture Notes in Mechanical Engineering</i> , <b>2015</b> , 99-108	0.4	1
21	Machinery Fault Signal Reconstruction Using Time-Frequency Manifold. <i>Lecture Notes in Mechanical Engineering</i> , <b>2015</b> , 777-787	0.4	1
20	Multi-scale Manifold for Machinery Fault Diagnosis. <i>Lecture Notes in Mechanical Engineering</i> , <b>2015</b> , 203-204	0.4	1
19	Doppler distortion removal based on Dopplerlet transform and re-sampling for wayside fault diagnosis of train bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2020</b> , 095440622096956	1.3	1
18	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
17	An Evaluation Method for Feature Selection in Proton Exchange Membrane Fuel Cell Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
16	Gearbox fault diagnosis based on bearing dynamic force identification. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 511, 116360	3.9	1
15	Gearbox Condition Monitoring Using Sparse Filtering and Parameterized Time-Frequency Analysis. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 105-113	0.4	1
14	An iterative morphological difference product wavelet for weak fault feature extraction in rolling bearing fault diagnosis. <i>Structural Health Monitoring</i> , 147592172210863	4.4	1
13	Signal separation and correction with multiple Doppler acoustic sources for wayside fault diagnosis of train bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2017</b> , 231, 2664-2680	1.3	0
12	Doppler distortion elimination using short-time sparse singular value decomposition strategy for wayside acoustic source fault diagnosis. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2019</b> , 233, 5499-5514	1.3	0
11	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
10	Time-Frequency Bandpass Filter with Nonstationary Signal Decomposition Application. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1880, 012003	0.3	0
9	A novel diversiform stochastic resonance of a domain wall and its performance at different states. <i>Modern Physics Letters B</i> , <b>2016</b> , 30, 1650167	1.6	0
8	Transient Signal Analysis Using Parallel Time-Frequency Manifold Filtering for Bearing Health Diagnosis. <i>IEEE Access</i> , <b>2019</b> , 7, 175277-175289	3.5	0
7	Stimuli-responsive metamaterials with information-driven elastodynamics programming. <i>Matter</i> , <b>2022</b> , 5, 988-1003	12.7	0
6	Scattering-coded architected boundary for computational sensing of elastic waves. <i>Cell Reports Physical Science</i> , <b>2022</b> , 100918	6.1	0
5	Midpoint-based empirical decomposition for nonlinear trend estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 2228-31	0.9	0

4	A Novel Method for Periodical Impulses Detection and Its Applications in Rubbing Fault Diagnosis. <i>Smart Innovation, Systems and Technologies</i> , <b>2020</b> , 747-759	0.5
3	Health Status Identification of Connecting Rod Bearing Based on Support Vector Machine. <i>International Federation for Information Processing</i> , <b>2011</b> , 206-214	
2	Evaluation of Lithium-Ion Battery Pack Capacity Consistency Using One-Dimensional Magnetic Field Scanning. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-10	5.2
1	Dynamic mass isolation method utilized in self-moving precision positioning stage for improved speed performance. <i>Review of Scientific Instruments</i> , <b>2022</b> , 93, 055004	1.7