

Yanyang Zi

List of Publications by Year in descending order

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112
papers

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citations

136885

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all docs

112
docs citations

112
times ranked

3409
citing authors

#	ARTICLE	IF	CITATIONS
1	Causal Disentanglement: A Generalized Bearing Fault Diagnostic Framework in Continuous Degradation Mode. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6250-6262.	7.2	9
2	Whitening-Net: A Generalized Network to Diagnose the Faults Among Different Machines and Conditions. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5845-5858.	7.2	15
3	Blade damage monitoring method base on frequency domain statistical index of shaft's random vibration. Mechanical Systems and Signal Processing, 2022, 165, 108351.	4.4	13
4	Incremental Novelty Identification From Initially One-Class Learning to Unknown Abnormality Classification. IEEE Transactions on Industrial Electronics, 2022, 69, 7394-7404.	5.2	18
5	Inverse design strategies for buckling-guided assembly of 3D surfaces based on topology optimization. Extreme Mechanics Letters, 2022, 51, 101582.	2.0	9
6	A multi-branch redundant adversarial net for intelligent fault diagnosis of multiple components under drastically variable speeds. ISA Transactions, 2022, 129, 540-554.	3.1	4
7	Health Indicator Construction Method of Bearings Based on Wasserstein Dual-Domain Adversarial Networks Under Normal Data Only. IEEE Transactions on Industrial Electronics, 2022, 69, 10615-10624.	5.2	13
8	A Dual-Guided Adaptive Decomposition Method of Fault Information and Fault Sensitivity for Multi-Component Fault Diagnosis Under Varying Speeds. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	2.4	8
9	Optimal Placement of Sensors Based on Data Fusion for Condition Monitoring of Pulley Group under Speed Variation Condition. Machines, 2022, 10, 148.	1.2	0
10	A Current Signal-Based Adaptive Semisupervised Framework for Bearing Faults Diagnosis in Drivetrains. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	7
11	Multi-scale and multi-pooling sparse filtering: A simple and effective representation learning method for intelligent fault diagnosis. Neurocomputing, 2021, 451, 138-151.	3.5	6
12	A Novel Multitask Adversarial Network via Redundant Lifting for Multicomponent Intelligent Fault Detection Under Sharp Speed Variation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	19
13	A Bilateral Second-Order Synchrosqueezing Transform and Application to Vibration Monitoring of Aerospace Engine. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	2.4	9
14	A novel unknown-input and single-output approach to extract vibration patterns via a roving continuous random excitation. ISA Transactions, 2021, , .	3.1	0
15	A Local Weighted Multi-instance Multi-label Network for Fault Diagnosis of Rolling Bearings Using Encoder Signal. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	2.4	12
16	The Next Failure Time Prediction of Escalators via Deep Neural Network with Dynamic Time Warping Preprocessing. Applied Sciences (Switzerland), 2020, 10, 5622.	1.3	4
17	An energy time-convexity second-order synchrosqueezing transform and application in weak fault diagnosis of rolling bearings in an aerospace engine. Measurement Science and Technology, 2020, 31, 125105.	1.4	9
18	Performance-guided maintenance policy and optimization for transmission system of shipborne antenna with multiple components. Ocean Engineering, 2020, 199, 106903.	1.9	7

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19	A modified SOM method based on nonlinear neural weight updating for bearing fault identification in variable speed condition. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 1901-1912.	0.7	5
20	An Inverse Design Method of Buckling-Guided Assembly for Ribbon-Type 3D Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	13
21	A comprehensive investigation of lithium-ion battery degradation performance at different discharge rates. <i>Journal of Power Sources</i> , 2019, 443, 227108.	4.0	30
22	Lithium-ion Battery SOH Estimation and Fault Diagnosis with Missing Data. , 2019, , .		11
23	A New Concept of Instantaneous Whirling Speed for Cracked Rotor's Axis Orbit. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4120.	1.3	6
24	Post-nonlinear blind source separation with kurtosis constraints using augmented Lagrangian particle swarm optimization and its application to mechanical systems. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 2246-2260.	1.5	6
25	Optimization-Based Approach for the Inverse Design of Ribbon-Shaped Three-Dimensional Structures Assembled Through Compressive Buckling. <i>Physical Review Applied</i> , 2019, 11, .	1.5	20
26	A Novel Underdetermined Blind Source Separation Method and Its Application to Source Contribution Quantitative Estimation. <i>Sensors</i> , 2019, 19, 1413.	2.1	9
27	Intelligent Diagnosis of V-Type Marine Diesel Engines Based on Multifeatures Extracted From Instantaneous Crankshaft Speed. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 722-740.	2.4	27
28	A novel vibration modeling method for a rotating blade with breathing cracks. <i>Science China Technological Sciences</i> , 2019, 62, 333-348.	2.0	26
29	Mechanism explanation and experimental verification of a new modulation frequency characteristic in a disturbed crack rotor. <i>Nonlinear Dynamics</i> , 2019, 95, 597-616.	2.7	7
30	Switching State-Space Degradation Model With Recursive Filter/Smoother for Prognostics of Remaining Useful Life. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 822-832.	7.2	44
31	A Fault Detection and Health Monitoring Scheme for Ship Propulsion Systems Using SVM Technique. <i>IEEE Access</i> , 2018, 6, 16207-16215.	2.6	24
32	Effects of unbalance on the nonlinear dynamics of rotors with transverse cracks. <i>Nonlinear Dynamics</i> , 2018, 91, 2755-2772.	2.7	23
33	Phase-based spectrum analysis method for identifying weak harmonics. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 5585-5596.	1.5	5
34	Enhancement of fault vibration signature analysis for rotary machines using an improved wavelet-based periodic group-sparse signal estimation technique. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 941-951.	1.1	9
35	LiftingNet: A Novel Deep Learning Network With Layerwise Feature Learning From Noisy Mechanical Data for Fault Classification. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 4973-4982.	5.2	204
36	Material analysis of the fatigue mechanism of rollers in tapered roller bearings. <i>Science China Technological Sciences</i> , 2018, 61, 1003-1011.	2.0	4

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37	Sparsity-based signal extraction using dual Q-factors for gearbox fault detection. ISA Transactions, 2018, 79, 147-160.	3.1	42
38	Modified breathing mechanism model and phase waterfall plot diagnostic method for cracked rotors. Journal of Mechanical Science and Technology, 2018, 32, 2527-2539.	0.7	10
39	A sensor-dependent vibration data driven fault identification method via autonomous variational mode decomposition for transmission system of shipborne antenna. Sensors and Actuators A: Physical, 2018, 279, 376-389.	2.0	11
40	Reprogrammable 3D Mesostructures Through Compressive Buckling of Thin Films with Prestrained Shape Memory Polymer. Acta Mechanica Solida Sinica, 2018, 31, 589-598.	1.0	17
41	A 3D nonlinear finite element method for the dynamic analysis of rotating rotor with a transverse crack. Science China Technological Sciences, 2017, 60, 219-231.	2.0	4
42	Multiple fault separation and detection by joint subspace learning for the health assessment of wind turbine gearboxes. Frontiers of Mechanical Engineering, 2017, 12, 333-347.	2.5	5
43	Repetitive transients extraction algorithm for detecting bearing faults. Mechanical Systems and Signal Processing, 2017, 84, 227-244.	4.4	61
44	Wavelet Transform Based on Inner Product for Fault Diagnosis of Rotating Machinery. Smart Sensors, Measurement and Instrumentation, 2017, , 65-91.	0.4	8
45	Multi-domain description method for bearing fault recognition in varying speed condition. , 2016, , .		2
46	Improved Ensemble Superwavelet Transform for Vibration-Based Machinery Fault Diagnosis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	1.3	9
47	Fault diagnosis from visualization perspective using stream statistics. , 2016, , .		1
48	A GKPCA-NHSMM based methodology for accurate RUL prognostics of nonlinear mechanical system with multistate deterioration. , 2016, , .		2
49	Multifractal entropy based adaptive multiwavelet construction and its application for mechanical compound-fault diagnosis. Mechanical Systems and Signal Processing, 2016, 76-77, 742-758.	4.4	64
50	Data-driven mono-component feature identification via modified nonlocal means and MEWT for mechanical drivetrain fault diagnosis. Mechanical Systems and Signal Processing, 2016, 80, 533-552.	4.4	23
51	Detection of faults in rotating machinery using periodic time-frequency sparsity. Journal of Sound and Vibration, 2016, 382, 357-378.	2.1	57
52	Damped SVD for operational transfer path analysis. , 2016, , .		0
53	Sparsity-based algorithm for detecting faults in rotating machines. Mechanical Systems and Signal Processing, 2016, 72-73, 46-64.	4.4	118
54	A Two-Stage Data-Driven-Based Prognostic Approach for Bearing Degradation Problem. IEEE Transactions on Industrial Informatics, 2016, 12, 924-932.	7.2	251

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55	Slider Dynamics and Wear Behaviors at Subnano-Clearance Head-Disk Interface. IEEE Transactions on Magnetics, 2016, 52, 1-9.	1.2	3
56	An <i>In Situ</i> Measurement Method for Electric Potential at Head-Disk Interface Using a Thermal Asperity Sensor. IEEE Transactions on Magnetics, 2016, 52, 1-6.	1.2	2
57	Generator bearing fault diagnosis for wind turbine via empirical wavelet transform using measured vibration signals. Renewable Energy, 2016, 89, 80-92.	4.3	305
58	Mono-component feature extraction for mechanical fault diagnosis using modified empirical wavelet transform via data-driven adaptive Fourier spectrum segment. Mechanical Systems and Signal Processing, 2016, 72-73, 160-183.	4.4	127
59	Customized maximal-overlap multiwavelet denoising with data-driven group threshold for condition monitoring of rolling mill drivetrain. Mechanical Systems and Signal Processing, 2016, 68-69, 44-67.	4.4	21
60	Wavelet transform based on inner product in fault diagnosis of rotating machinery: A review. Mechanical Systems and Signal Processing, 2016, 70-71, 1-35.	4.4	379
61	An Enhanced Data Visualization Method for Diesel Engine Malfunction Classification Using Multi-Sensor Signals. Sensors, 2015, 15, 26675-26693.	2.1	10
62	A Comparative Study on Multiwavelet Construction Methods and Customized Multiwavelet Library for Mechanical Fault Detection. Shock and Vibration, 2015, 2015, 1-12.	0.3	4
63	The Instability of Angstrom-Scale Head-Disk Interface Induced by Electrostatic Force. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	1
64	An integrated Bayesian approach to prognostics of the remaining useful life and its application on bearing degradation problem. , 2015, , .		4
65	Effects of multiple cracks on the forced response of centrifugal impellers. Mechanical Systems and Signal Processing, 2015, 60-61, 326-343.	4.4	19
66	Reduced-order modeling for rotating rotor-bearing systems with cracked impellers using three-dimensional finite element models. Journal of Sound and Vibration, 2015, 355, 305-321.	2.1	11
67	Mesh stiffness calculation using an accumulated integral potential energy method and dynamic analysis of helical gears. Mechanism and Machine Theory, 2015, 92, 447-463.	2.7	141
68	Weak fault signature extraction of rotating machinery using flexible analytic wavelet transform. Mechanical Systems and Signal Processing, 2015, 64-65, 162-187.	4.4	104
69	A 3D finite element-based model order reduction method for parametric resonance and whirling analysis of anisotropic rotor-bearing systems. Journal of Sound and Vibration, 2015, 359, 116-135.	2.1	38
70	Automatic fault feature extraction of mechanical anomaly on induction motor bearing using ensemble super-wavelet transform. Mechanical Systems and Signal Processing, 2015, 54-55, 457-480.	4.4	164
71	Planetary gearbox condition monitoring of ship-based satellite communication antennas using ensemble multiwavelet analysis method. Mechanical Systems and Signal Processing, 2015, 54-55, 277-292.	4.4	26
72	Incipient-signature identification of mechanical anomalies in a ship-borne satellite antenna system using an ensemble multiwavelet. Measurement Science and Technology, 2014, 25, 105006.	1.4	5

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73	Periodic Impulsive Fault Feature Extraction of Rotating Machinery Using Dual-Tree Rational Dilation Complex Wavelet Transform. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2014, 136, .	1.3	12
74	Sparsity-assisted signal representation for rotating machinery fault diagnosis using the tunable Q-factor wavelet transform with overlapping group shrinkage. , 2014, , .		5
75	Construction of customized redundant multiwavelet via increasing multiplicity for fault detection of rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2014, 42, 206-224.	4.4	12
76	Multiwavelet transform and its applications in mechanical fault diagnosis – A review. <i>Mechanical Systems and Signal Processing</i> , 2014, 43, 1-24.	4.4	110
77	A novel approach to machining condition monitoring of deep hole boring. <i>International Journal of Machine Tools and Manufacture</i> , 2014, 77, 27-33.	6.2	25
78	Wind turbine fault detection using multiwavelet denoising with the data-driven block threshold. <i>Applied Acoustics</i> , 2014, 77, 122-129.	1.7	56
79	Maximal-overlap adaptive multiwavelet for detecting transient vibration responses from dynamic signal of rotating machineries. <i>Science China Technological Sciences</i> , 2014, 57, 136-150.	2.0	3
80	A data-driven threshold for wavelet sliding window denoising in mechanical fault detection. <i>Science China Technological Sciences</i> , 2014, 57, 589-597.	2.0	19
81	Reduced-order modeling for mistuned centrifugal impellers with crack damages. <i>Journal of Sound and Vibration</i> , 2014, 333, 6979-6995.	2.1	17
82	An improved time-varying mesh stiffness algorithm and dynamic modeling of gear-rotor system with tooth root crack. <i>Engineering Failure Analysis</i> , 2014, 42, 157-177.	1.8	148
83	An accelerated wear model for magnetic heads with respect to sensory data. , 2014, , .		0
84	Tunable Q-factor wavelet transform denoising with neighboring coefficients and its application to rotating machinery fault diagnosis. <i>Science China Technological Sciences</i> , 2013, 56, 1956-1965.	2.0	59
85	A pseudo wavelet system-based vibration signature extracting method for rotating machinery fault detection. <i>Science China Technological Sciences</i> , 2013, 56, 1294-1306.	2.0	16
86	Detecting of transient vibration signatures using an improved fast spatial – spectral ensemble kurtosis kurtogram and its applications to mechanical signature analysis of short duration data from rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 1-37.	4.4	89
87	Adaptive redundant multiwavelet denoising with improved neighboring coefficients for gearbox fault detection. <i>Mechanical Systems and Signal Processing</i> , 2013, 38, 549-568.	4.4	29
88	Construction and selection of lifting-based multiwavelets for mechanical fault detection. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 571-588.	4.4	13
89	Compound faults detection of rotating machinery using improved adaptive redundant lifting multiwavelet. <i>Mechanical Systems and Signal Processing</i> , 2013, 38, 36-54.	4.4	66
90	Ensemble Noise-Reconstructed Empirical Mode Decomposition for Mechanical Fault Detection. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.0	16

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91	Customized Multiwavelets for Planetary Gearbox Fault Detection Based on Vibration Sensor Signals. <i>Sensors</i> , 2013, 13, 1183-1209.	2.1	28
92	Customized lifting multiwavelet packet information entropy for equipment condition identification. <i>Smart Materials and Structures</i> , 2013, 22, 095022.	1.8	9
93	Improved spectral kurtosis with adaptive redundant multiwavelet packet and its applications for rotating machinery fault detection. <i>Measurement Science and Technology</i> , 2012, 23, 045608.	1.4	28
94	Fault feature extraction of gearbox by using overcomplete rational dilation discrete wavelet transform on signals measured from vibration sensors. <i>Mechanical Systems and Signal Processing</i> , 2012, 33, 275-298.	4.4	107
95	Construction of adaptive redundant multiwavelet packet and its application to compound faults detection of rotating machinery. <i>Science China Technological Sciences</i> , 2012, 55, 2083-2090.	2.0	28
96	Multiwavelet denoising with improved neighboring coefficients for application on rolling bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 285-304.	4.4	86
97	A demodulating approach based on local mean decomposition and its applications in mechanical fault diagnosis. <i>Measurement Science and Technology</i> , 2011, 22, 055704.	1.4	68
98	Enhancement of signal denoising and multiple fault signatures detecting in rotating machinery using dual-tree complex wavelet transform. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 119-137.	4.4	206
99	A multidimensional hybrid intelligent method for gear fault diagnosis. <i>Expert Systems With Applications</i> , 2010, 37, 1419-1430.	4.4	192
100	Gear fault detection using customized multiwavelet lifting schemes. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 1509-1528.	4.4	54
101	A Comparative Study on the Local Mean Decomposition and Empirical Mode Decomposition and Their Applications to Rotating Machinery Health Diagnosis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010, 132, .	1.0	154
102	Multiwavelet construction via an adaptive symmetric lifting scheme and its applications for rotating machinery fault diagnosis. <i>Measurement Science and Technology</i> , 2009, 20, 045103.	1.4	38
103	Application of an intelligent classification method to mechanical fault diagnosis. <i>Expert Systems With Applications</i> , 2009, 36, 9941-9948.	4.4	219
104	The principle of second generation wavelet for milling cutter breakage detection. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1312-1322.	0.9	11
105	Gearbox fault diagnosis of rolling mills using multiwavelet sliding window neighboring coefficient denoising and optimal blind deconvolution. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 2801-2809.	0.9	20
106	Sifting process of EMD and its application in rolling element bearing fault diagnosis. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 2000-2007.	0.7	28
107	Adaptive multiwavelets via two-scale similarity transforms for rotating machinery fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 1490-1508.	4.4	41
108	Fault diagnosis of rotating machinery based on a new hybrid clustering algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 35, 968-977.	1.5	35

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109	Rotating machinery fault diagnosis using signal-adapted lifting scheme. Mechanical Systems and Signal Processing, 2008, 22, 542-556.	4.4	32
110	Application of support vector machine for equipment reliability forecasting. , 2008, , .		10
111	An effective approach to rolling bearing diagnosis based on Adaptive Redundant Second-Generation Wavelet. International Journal of Materials and Product Technology, 2008, 33, 65.	0.1	3
112	Fault diagnosis of rotating machinery based on improved wavelet package transform and SVMs ensemble. Mechanical Systems and Signal Processing, 2007, 21, 688-705.	4.4	340