Zhibin Zhao

List of Publications by Year
in descending order

66 papers	3,009 citations	201674 27 h-index	197818 49 g-index
66 all docs	66 docs citations	66 times ranked	1655 citing authors

#	Article	IF	Citations
1	Deep-Learning-Based Open Set Fault Diagnosis by Extreme Value Theory. IEEE Transactions on Industrial Informatics, 2022, 18, 185-196.	11.3	69
2	WaveletKernelNet: An Interpretable Deep Neural Network for Industrial Intelligent Diagnosis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2302-2312.	9.3	136
3	Fast Sparsity-Assisted Signal Decomposition With Nonconvex Enhancement for Bearing Fault Diagnosis. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2333-2344.	5.8	20
4	Monitoring on triboelectric nanogenerator and deep learning method. Nano Energy, 2022, 92, 106698.	16.0	46
5	A transferable lithium-ion battery remaining useful life prediction method from cycle-consistency of degradation trend. Journal of Power Sources, 2022, 521, 230975.	7.8	32
6	Model-driven deep unrolling: Towards interpretable deep learning against noise attacks for intelligent fault diagnosis. ISA Transactions, 2022, 129, 644-662.	5.7	36
7	Analysis of an adaptive lead weighted ResNet for multiclass classification of 12-lead ECGs. Physiological Measurement, 2022, 43, 034001.	2.1	6
8	Short-time consistent domain adaptation for rolling bearing fault diagnosis under varying working conditions. Measurement Science and Technology, 2022, 33, 075105.	2.6	0
9	Interpretable Neural Network via Algorithm Unrolling for Mechanical Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	21
10	Deep learning-enabled real-time personal handwriting electronic skin with dynamic thermoregulating ability. Npj Flexible Electronics, 2022, 6, .	10.7	23
11	Conditional Adversarial Domain Adaptation With Discrimination Embedding for Locomotive Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	29
12	Robust enhanced trend filtering with unknown noise. Signal Processing, 2021, 180, 107889.	3.7	7
13	Faster Multiscale Dictionary Learning Method With Adaptive Parameter Estimation for Fault Diagnosis of Traction Motor Bearings. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	8
14	Applications of Unsupervised Deep Transfer Learning to Intelligent Fault Diagnosis: A Survey and Comparative Study. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-28.	4.7	137
15	Domain Adversarial Graph Convolutional Network for Fault Diagnosis Under Variable Working Conditions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	63
16	Conditional Adversarial Domain Generalization With a Single Discriminator for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	15
17	A U-Net-Based Approach for Tool Wear Area Detection and Identification. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	20
18	Low-dimensional multi-scale Fisher discriminant dictionary learning for intelligent gear-fault diagnosis. Measurement Science and Technology, 2021, 32, 084001.	2.6	2

#	Article	IF	Citations
19	Machine Anomaly Detection under Changing Working Condition with Syncretic Self-Regression Auto-Encoder. , 2021, , .		1
20	Challenges and Opportunities of AI-Enabled Monitoring, Diagnosis & Prognosis: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	70
21	Multi-Scale Convolutional Gated Recurrent Unit Networks for Tool Wear Prediction in Smart Manufacturing. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	10
22	Hierarchical attention graph convolutional network to fuse multi-sensor signals for remaining useful life prediction. Reliability Engineering and System Safety, 2021, 215, 107878.	8.9	81
23	Learning from Class-imbalanced Data with a Model-Agnostic Framework for Machine Intelligent Diagnosis. Reliability Engineering and System Safety, 2021, 216, 107934.	8.9	34
24	Multireceptive Field Graph Convolutional Networks for Machine Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2021, 68, 12739-12749.	7.9	143
25	Bayesian Differentiable Architecture Search for Efficient Domain Matching Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	14
26	Denoising Fused Wavelets Net for Aeroengine Bevel Gear Fault Diagnosis. , 2021, , .		1
27	Weighted Basis Pursuit Denoising Algorithm and Its Application in Gear Fault Diagnosis. , 2021, , .		1
28	Hierarchical hyper-Laplacian prior for weak fault feature enhancement. ISA Transactions, 2020, 96, 429-443.	5.7	20
29	Sparse Multiperiod Group Lasso for Bearing Multifault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 419-431.	4.7	26
30	Sparsity-assisted bearing fault diagnosis using multiscale period group lasso. ISA Transactions, 2020, 98, 338-348.	5.7	23
31	Deep learning algorithms for rotating machinery intelligent diagnosis: An open source benchmark study. ISA Transactions, 2020, 107, 224-255.	5.7	271
32	Few-shot transfer learning for intelligent fault diagnosis of machine. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108202.	5.0	150
33	The sparse and low-rank interpretation of SVD-based denoising for vibration signals. , 2020, , .		2
34	Multi-scale CNN for Multi-sensor Feature Fusion in Helical Gear Fault Detection. Procedia Manufacturing, 2020, 49, 89-93.	1.9	15
35	Ss-InfoGAN for Class-Imbalance Classification of Bearing Faults. Procedia Manufacturing, 2020, 49, 99-104.	1.9	13
36	Particle-Laden Droplet-Driven Triboelectric Nanogenerator for Real-Time Sediment Monitoring Using a Deep Learning Method. ACS Applied Materials & Interfaces, 2020, 12, 38192-38201.	8.0	38

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37	Interpreting network knowledge with attention mechanism for bearing fault diagnosis. Applied Soft Computing Journal, 2020, 97, 106829.	7.2	87
38	Time series clustering to examine presence of decrement in Parkinsonâ€™s finger-tapping bradykinesia. , 2020, 2020, 780-783.		2
39	Adaptive Channel Weighted CNN With Multisensor Fusion for Condition Monitoring of Helicopter Transmission System. IEEE Sensors Journal, 2020, 20, 8364-8373.	4.7	44
40	The discerning eye of computer vision: Can it measure Parkinson's finger tap bradykinesia?. Journal of the Neurological Sciences, 2020, 416, 117003.	0.6	56
41	Sparsity-Assisted Fault Feature Enhancement: Algorithm-Aware Versus Model-Aware. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7004-7014.	4.7	13
42	Fault-Attention Generative Probabilistic Adversarial Autoencoder for Machine Anomaly Detection. IEEE Transactions on Industrial Informatics, 2020, 16, 7479-7488.	11.3	77
43	An Adaptive Online Blade Health Monitoring Method: From Raw Data to Parameters Identification. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2581-2592.	4.7	51
44	Differentiable Architecture Search for Aeroengine Bevel Gear Fault Diagnosis. , 2020, , .		9
45	Coupling Deep Models and Extreme Value Theory for Open Set Fault Diagnosis. , 2020, , .		1
46	Enhanced Sparse Period-Group Lasso for Bearing Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2019, 66, 2143-2153.	7.9	146
47	Physical constraints fused equiangular tight frame method for Blade Tip Timing sensor arrangement. Measurement: Journal of the International Measurement Confederation, 2019, 145, 841-851.	5.0	57
48	Interval variable step-size spline adaptive filter for the identification of nonlinear block-oriented system. Nonlinear Dynamics, 2019, 98, 1629-1643.	5.2	11
49	Blade Tip Timing: from Raw Data to Parameters Identification. , 2019, , .		6
50	Dataâ€driven multiscale sparse representation for bearing fault diagnosis in wind turbine. Wind Energy, 2019, 22, 587-604.	4.2	15
51	A weighted multi-scale dictionary learning model and its applications on bearing fault diagnosis. Journal of Sound and Vibration, 2019, 446, 429-452.	3.9	62
52	Nanogenerators: Robust Working Mechanism of Water Dropletâ€Đriven Triboelectric Nanogenerator: Triboelectric Output versus Dynamic Motion of Water Droplet (Adv. Mater. Interfaces 24/2019). Advanced Materials Interfaces, 2019, 6, 1970150.	3.7	1
53	Robust Working Mechanism of Water Dropletâ€Đriven Triboelectric Nanogenerator: Triboelectric Output versus Dynamic Motion of Water Droplet. Advanced Materials Interfaces, 2019, 6, 1901547.	3.7	27
54	Deep Transfer Learning Based on Sparse Autoencoder for Remaining Useful Life Prediction of Tool in Manufacturing. IEEE Transactions on Industrial Informatics, 2019, 15, 2416-2425.	11.3	329

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55	Group sparse regularization for impact force identification in time domain. Journal of Sound and Vibration, 2019, 445, 44-63.	3.9	56
56	Sparse Deep Stacking Network for Fault Diagnosis of Motor. IEEE Transactions on Industrial Informatics, 2018, 14, 3261-3270.	11.3	155
57	Bearing Fault Diagnosis Using Hyper-Laplacian Priors and Non-convex Optimization. , 2018, , .		1
58	Periodic overlapping group elastic net for fault diagnosis. , 2018, , .		2
59	Foreign Object Damage Diagnosis of Aero-Engine Compressor Based on Damping Averaging Built-in Matrix Method. , 2018, , .		3
60	Matching Synchrosqueezing Wavelet Transform and Application to Aeroengine Vibration Monitoring. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 360-372.	4.7	140
61	Data-driven discriminative K-SVD for bearing fault diagnosis. , 2017, , .		3
62	Feature ensemble learning using stacked denoising autoencoders for induction motor fault diagnosis. , 2017, , .		6
63	TQWT-based multi-scale dictionary learning for rotating machinery fault diagnosis. , 2017, , .		6
64	Wind Turbine Diagnosis under Variable Speed Conditions Using a Single Sensor Based on the Synchrosqueezing Transform Method. Sensors, 2017, 17, 1149.	3.8	25
65	Probabilistic Remaining Useful Life Prediction Based on Deep Convolutional Neural Network. SSRN Electronic Journal, 0, , .	0.4	13
66	Adaptive lead weighted ResNet trained with different duration signals for classifying 12-lead ECGs. , 0, , .		22