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 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
2	Deep learning algorithms for rotating machinery intelligent diagnosis: An open source benchmark study. ISA Transactions, 2020, 107, 224-255.	5.7	271
3	Sparse Deep Stacking Network for Fault Diagnosis of Motor. IEEE Transactions on Industrial Informatics, 2018, 14, 3261-3270.	11.3	155
4	Few-shot transfer learning for intelligent fault diagnosis of machine. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108202.	5.0	150
5	Enhanced Sparse Period-Group Lasso for Bearing Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2019, 66, 2143-2153.	7.9	146
6	Multireceptive Field Graph Convolutional Networks for Machine Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2021, 68, 12739-12749.	7.9	143
7	Matching Synchrosqueezing Wavelet Transform and Application to Aeroengine Vibration Monitoring. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 360-372.	4.7	140
8	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
9	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
10	Interpreting network knowledge with attention mechanism for bearing fault diagnosis. Applied Soft Computing Journal, 2020, 97, 106829.	7.2	87
11	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
12	Fault-Attention Generative Probabilistic Adversarial Autoencoder for Machine Anomaly Detection. IEEE Transactions on Industrial Informatics, 2020, 16, 7479-7488.	11.3	77
13	Challenges and Opportunities of AI-Enabled Monitoring, Diagnosis & Prognosis: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	70
14	Deep-Learning-Based Open Set Fault Diagnosis by Extreme Value Theory. IEEE Transactions on Industrial Informatics, 2022, 18, 185-196.	11.3	69
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	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
17	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
18	Group sparse regularization for impact force identification in time domain. Journal of Sound and Vibration, 2019, 445, 44-63.	3.9	56

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19	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
20	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
21	Monitoring on triboelectric nanogenerator and deep learning method. Nano Energy, 2022, 92, 106698.	16.0	46
22	Adaptive Channel Weighted CNN With Multisensor Fusion for Condition Monitoring of Helicopter Transmission System. IEEE Sensors Journal, 2020, 20, 8364-8373.	4.7	44
23	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
24	Model-driven deep unrolling: Towards interpretable deep learning against noise attacks for intelligent fault diagnosis. ISA Transactions, 2022, 129, 644-662.	5.7	36
25	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
26	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
27	Conditional Adversarial Domain Adaptation With Discrimination Embedding for Locomotive Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	29
28	Robust Working Mechanism of Water Dropletâ€Driven Triboelectric Nanogenerator: Triboelectric Output versus Dynamic Motion of Water Droplet. Advanced Materials Interfaces, 2019, 6, 1901547.	3.7	27
29	Sparse Multiperiod Group Lasso for Bearing Multifault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 419-431.	4.7	26
30	Wind Turbine Diagnosis under Variable Speed Conditions Using a Single Sensor Based on the Synchrosqueezing Transform Method. Sensors, 2017, 17, 1149.	3.8	25
31	Sparsity-assisted bearing fault diagnosis using multiscale period group lasso. ISA Transactions, 2020, 98, 338-348.	5.7	23
32	Deep learning-enabled real-time personal handwriting electronic skin with dynamic thermoregulating ability. Npj Flexible Electronics, 2022, 6, .	10.7	23
33	Adaptive lead weighted ResNet trained with different duration signals for classifying 12-lead ECGs. , 0, , .		22
34	Interpretable Neural Network via Algorithm Unrolling for Mechanical Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	21
35	Hierarchical hyper-Laplacian prior for weak fault feature enhancement. ISA Transactions, 2020, 96, 429-443.	5.7	20
36	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

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37	Fast Sparsity-Assisted Signal Decomposition With Nonconvex Enhancement for Bearing Fault Diagnosis. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2333-2344.	5.8	20
38	Dataâ€driven multiscale sparse representation for bearing fault diagnosis in wind turbine. Wind Energy, 2019, 22, 587-604.	4.2	15
39	Multi-scale CNN for Multi-sensor Feature Fusion in Helical Gear Fault Detection. Procedia Manufacturing, 2020, 49, 89-93.	1.9	15
40	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
41	Bayesian Differentiable Architecture Search for Efficient Domain Matching Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	14
42	Ss-InfoGAN for Class-Imbalance Classification of Bearing Faults. Procedia Manufacturing, 2020, 49, 99-104.	1.9	13
43	Sparsity-Assisted Fault Feature Enhancement: Algorithm-Aware Versus Model-Aware. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7004-7014.	4.7	13
44	Probabilistic Remaining Useful Life Prediction Based on Deep Convolutional Neural Network. SSRN Electronic Journal, 0, , .	0.4	13
45	Interval variable step-size spline adaptive filter for the identification of nonlinear block-oriented system. Nonlinear Dynamics, 2019, 98, 1629-1643.	5.2	11
46	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
47	Differentiable Architecture Search for Aeroengine Bevel Gear Fault Diagnosis. , 2020, , .		9
48	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
49	Robust enhanced trend filtering with unknown noise. Signal Processing, 2021, 180, 107889.	3.7	7
50	Feature ensemble learning using stacked denoising autoencoders for induction motor fault diagnosis. , 2017, , .		6
51	TQWT-based multi-scale dictionary learning for rotating machinery fault diagnosis. , 2017, , .		6
52	Blade Tip Timing: from Raw Data to Parameters Identification. , 2019, , .		6
53	Analysis of an adaptive lead weighted ResNet for multiclass classification of 12-lead ECGs. Physiological Measurement, 2022, 43, 034001.	2.1	6
54	Data-driven discriminative K-SVD for bearing fault diagnosis. , 2017, , .		3

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55	Foreign Object Damage Diagnosis of Aero-Engine Compressor Based on Damping Averaging Built-in Matrix Method. , 2018, , .		3
56	Periodic overlapping group elastic net for fault diagnosis. , 2018, , .		2
57	The sparse and low-rank interpretation of SVD-based denoising for vibration signals. , 2020, , .		2
58	Time series clustering to examine presence of decrement in Parkinsonâ€™s finger-tapping bradykinesia. , 2020, 2020, 780-783.		2
59	Low-dimensional multi-scale Fisher discriminant dictionary learning for intelligent gear-fault diagnosis. Measurement Science and Technology, 2021, 32, 084001.	2.6	2
60	Bearing Fault Diagnosis Using Hyper-Laplacian Priors and Non-convex Optimization. , 2018, , .		1
61	Nanogenerators: Robust Working Mechanism of Water Dropletâ€Driven Triboelectric Nanogenerator: Triboelectric Output versus Dynamic Motion of Water Droplet (Adv. Mater. Interfaces 24/2019). Advanced Materials Interfaces, 2019, 6, 1970150.	3.7	1
62	Machine Anomaly Detection under Changing Working Condition with Syncretic Self-Regression Auto-Encoder. , 2021, , .		1
63	Coupling Deep Models and Extreme Value Theory for Open Set Fault Diagnosis. , 2020, , .		1
64	Denoising Fused Wavelets Net for Aeroengine Bevel Gear Fault Diagnosis. , 2021, , .		1
65	Weighted Basis Pursuit Denoising Algorithm and Its Application in Gear Fault Diagnosis. , 2021, , .		1
66	Short-time consistent domain adaptation for rolling bearing fault diagnosis under varying working conditions. Measurement Science and Technology, 2022, 33, 075105.	2.6	0