Weihua Li

List of Publications by Year
in descending order

74	3,972	218381	189595
papers	citations	26 h-index	50 g-index

74	74	74	2489
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multisensor Feature Fusion for Bearing Fault Diagnosis Using Sparse Autoencoder and Deep Belief Network. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1693-1702.	2.4	670
2	A perspective survey on deep transfer learning for fault diagnosis in industrial scenarios: Theories, applications and challenges. Mechanical Systems and Signal Processing, 2022, 167, 108487.	4.4	304
3	A deep learning method for bearing fault diagnosis based on Cyclic Spectral Coherence and Convolutional Neural Networks. Mechanical Systems and Signal Processing, 2020, 140, 106683.	4.4	285
4	Bearing performance degradation assessment using long short-term memory recurrent network. Computers in Industry, 2019, 106, 14-29.	5.7	233
5	Mechanical fault diagnosis using Convolutional Neural Networks and Extreme Learning Machine. Mechanical Systems and Signal Processing, 2019, 133, 106272.	4.4	214
6	State-of-charge estimation of lithium-ion batteries using LSTM and UKF. Energy, 2020, 201, 117664.	4.5	204
7	Intelligent Fault Diagnosis for Rotary Machinery Using Transferable Convolutional Neural Network. IEEE Transactions on Industrial Informatics, 2020, 16, 339-349.	7.2	197
8	Domain Adversarial Transfer Network for Cross-Domain Fault Diagnosis of Rotary Machinery. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8702-8712.	2.4	158
9	Deep Decoupling Convolutional Neural Network for Intelligent Compound Fault Diagnosis. IEEE Access, 2019, 7, 1848-1858.	2.6	150
10	A Novel Weighted Adversarial Transfer Network for Partial Domain Fault Diagnosis of Machinery. IEEE Transactions on Industrial Informatics, 2021, 17, 1753-1762.	7.2	110
11	A Two-Stage Transfer Adversarial Network for Intelligent Fault Diagnosis of Rotating Machinery With Multiple New Faults. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1591-1601.	3.7	109
12	Feature Denoising and Nearestâ€“Farthest Distance Preserving Projection for Machine Fault Diagnosis. IEEE Transactions on Industrial Informatics, 2016, 12, 393-404.	7.2	96
13	Semisupervised Distance-Preserving Self-Organizing Map for Machine-Defect Detection and Classification. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 869-879.	2.4	92
14	A Deep Adversarial Transfer Learning Network for Machinery Emerging Fault Detection. IEEE Sensors Journal, 2020, 20, 8413-8422.	2.4	75
15	A Robust Weight-Shared Capsule Network for Intelligent Machinery Fault Diagnosis. IEEE Transactions on Industrial Informatics, 2020, 16, 6466-6475.	7.2	75
16	A novel order tracking method for wind turbine planetary gearbox vibration analysis based on discrete spectrum correction technique. Renewable Energy, 2016, 87, 364-375.	4.3	71
17	Deep Adversarial Capsule Network for Compound Fault Diagnosis of Machinery Toward Multidomain Generalization Task. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	71
18	Deep Ensemble Capsule Network for Intelligent Compound Fault Diagnosis Using Multisensory Data. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2304-2314.	2.4	68

#	Article	IF	Citations
19	Deep Semi-supervised Domain Generalization Network for Rotary Machinery Fault Diagnosis under Variable Speed. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	2.4	63
20	Feature extraction and classification of gear faults using principal component analysis. Journal of Quality in Maintenance Engineering, 2003, 9, 132-143.	1.0	52
21	Enhanced generative adversarial network for extremely imbalanced fault diagnosis of rotating machine. Measurement: Journal of the International Measurement Confederation, 2021, 180, 109467.	2.5	47
22	Numerical study on steam injection in a turbocompound diesel engine for waste heat recovery. Applied Energy, 2017, 185, 506-518.	5.1	44
23	Frequency response model and mechanism for wind turbine planetary gear train vibration analysis. IET Renewable Power Generation, 2017, 11, 425-432.	1.7	42
24	Regrouping particle swarm optimization based variable neural network for gearbox fault diagnosis. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3671-3680.	0.8	33
25	Dual-Attention Generative Adversarial Networks for Fault Diagnosis Under the Class-Imbalanced Conditions. IEEE Sensors Journal, 2022, 22, 1474-1485.	2.4	32
26	A triple acceleration method for topology optimization. Structural and Multidisciplinary Optimization, 2019, 60, 727-744.	1.7	28
27	Federated Transfer Learning for Bearing Fault Diagnosis With Discrepancy-Based Weighted Federated Averaging. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	28
28	Machine fault classification using deep belief network. , 2016, , .		27
29	Characterization of two-stage turbine system under steady and pulsating flow conditions. Energy, 2018, 148, 407-423.	4.5	26
30	Unsteady characteristic and flow mechanism of a scroll compressor with novel discharge port for electric vehicle air conditioning. International Journal of Refrigeration, 2020, 118, 403-414.	1.8	26
31	Multiscale Convolutional Neural Network With Feature Alignment for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	25
32	Bearing degradation assessment based on weibull distribution and deep belief network. , 2016, , .		22
33	Manifold Sparse Auto-Encoder for Machine Fault Diagnosis. IEEE Sensors Journal, 2020, 20, 8328-8335.	2.4	22
34	Deepâ€learningâ€based guided wave detection for liquidâ€level state in porcelain bushing type terminal. Structural Control and Health Monitoring, 2021, 28, .	1.9	21
35	Wavelet transform based convolutional neural network for gearbox fault classification. , 2017, , .		20
36	Adaptive Robust Noise Modeling of Sparse Representation for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	20

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37	Bearing Condition Recognition and Degradation Assessment under Varying Running Conditions Using NPE and SOM. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	15
38	Gearbox fault classification using S-transform and convolutional neural network. , 2016, , .		15
39	KERNEL PRINCIPAL COMPONENT ANALYSIS AND ITS APPLICATION IN GEAR FAULT DIAGNOSIS. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2003, 39, 65.	0.7	14
40	Federated Learning for Bearing Fault Diagnosis with Dynamic Weighted Averaging. , 2021, , .		13
41	Deep Learning With Emerging New Labels for Fault Diagnosis. IEEE Access, 2019, 7, 6279-6287.	2.6	12
42	Space-time model and spectrum mechanism on vibration signal for planetary gear drive. Mechanical Systems and Signal Processing, 2019, 129, 164-185.	4.4	12
43	A Firefly Neural Network and Its Application in Bearing Fault Diagnosis. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 99.	0.7	11
44	An Intelligent Compound Fault Diagnosis Method Using One-Dimensional Deep Convolutional Neural Network With Multi-Label Classifier. , 2019, , .		10
45	Intelligent Fault Diagnosis for Bearing Dataset Using Adversarial Transfer Learning based on Stacked Auto-Encoder. Procedia Manufacturing, 2020, 49, 75-80.	1.9	10
46	Feature-Guided Spatial Attention Upsampling for Real-Time Stereo Matching Network. IEEE MultiMedia, 2021, 28, 38-47.	1.5	9
47	Simultaneous fault type and severity identification using a two-branch domain adaptation network. Measurement Science and Technology, 2021, 32, 094014.	1.4	9
48	Federated Transfer Learning for Bearing Fault Diagnosis Based on Averaging Shared Layers. , 2021, , .		8
49	Generalized Gaussian Noise Distribution Enabled Sparse Representation Model for Bearing Fault Diagnosis. , 2020, , .		7
50	Characteristic and regulation method of parallel turbocompound engine with steam injection for waste heat recovery. Energy, 2020, 208, 118422.	4.5	7
51	A Transferable Capsule Network for Decoupling Compound Fault of Machinery. , 2020, , .		7
52	Dynamic Distribution Adaptation Based Transfer Network for Cross Domain Bearing Fault Diagnosis. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	7
53	Gear Incipient Fault Diagnosis Using Graph Theory and Transductive Support Vector Machine. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2010, 46, 82.	0.7	7
54	Unsteady Flow Loss Mechanism and Aerodynamic Improvement of Two-Stage Turbine under Pulsating Conditions. Entropy, 2019, 21, 985.	1.1	5

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55	An approach for mechanical fault classification based on generalized discriminant analysis. Frontiers of Mechanical Engineering in China, 2006, 1, 292-298.	0.4	4
56	Envelope analysis by wavelet-filter based spectral kurtosis for bearing health monitoring. , 2013, , .		4
57	Guest Editorial Special Issue on Smart Sensing and Artificial Intelligence-Enabled Data Analytics for Health Monitoring of Engineering Systems. IEEE Sensors Journal, 2020, 20, 8203-8203.	2.4	4
58	Deep Feature-aligned Convolutional Neural Network for Machinery Fault Diagnosis. , 2020, , .		4
59	Gearbox pitting detection using linear discriminant analysis and distance preserving self-organizing map. , 2012, , .		3
60	Deep Self-Supervised Domain Adaptation Network for Fault Diagnosis of Rotating Machine With Unlabeled Data. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	3
61	Regrouping Particle Swarm Optimization-Based Neural Network for Bearing Fault Diagnosis. , 2017, , .		2
62	A Global-Local Dynamic Adversarial Network for Intelligent Fault Diagnosis of Spindle Bearing. , 2021, , .		2
63	Behavior Decision Model With Situation Assessment for Intelligent Vehicles Based on Vehicle-to-Everything Information. Transportation Research Record, 2022, 2676, 508-519.	1.0	2
64	Intelligent Cross-domain Fault Diagnosis For Rotating Machinery Using Multiscale Adversarial Convolutional Neural Network. , 2022, , .		2
65	Anti-Noise Performance and Parameter Estimation Accuracy of FFT and FT Discrete Spectrum Correction. , 2009, , .		1
66	Gear incipient fault prognosis using Density-adjustable Spectral Clustering and Transductive SVM. , 2012, , .		1
67	Mathematical Methods and Modeling in Machine Fault Diagnosis. Mathematical Problems in Engineering, 2014, 2014, 1-3.	0.6	1
68	Dynamic modeling of Gearbox Based on Virtual-physical Interaction. , 2021, , .		1
69	Fault diagnosis using rough sets and BP networks. , 2010, , .		0
70	Bearing fault classification using firefly clustering. , 2015, , .		0
71	Electric vehicle battery temperature measuring method based on magnetic nanoparticles. , 2018, , .		0
72	Correction to: Dynamic Distribution Adaptation Based Transfer Network for Cross Domain Bearing Fault Diagnosis. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	0

#	Article	IF	Citations
73	GEARBOX CONDITION MONITORING USING FEATURE SAMPLES AND PRINCIPAL COMPONENT ANALYSIS. , 2008, , .		0
74	Engine Misfire Condition Recognition Based on Nearest and Farthest Distance Preserving Projection. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 156.	0.7	0