Yaguo Lei

List of Publications by Year in Descending Order

106 papers	12,726 citations	50 h-index	112 g-index
118 ext. papers	16,440 ext. citations	5.9 avg, IF	7.31 L-index

#	Paper	IF	Citations
106	Special feature on rotating machinery condition monitoring by connecting physics-based and data-driven methods. *Measurement Science and Technology*, **2022**, 33, 010103	2	1
105	Nonlinear degradation modeling and prognostics: A Box-Cox transformation perspective. *Reliability Engineering and System Safety*, **2022**, 217, 108120	6.3	5
104	Bearing fault diagnosis method based on adaptive maximum cyclostationarity blind deconvolution. *Mechanical Systems and Signal Processing*, **2022**, 162, 108018	7.8	33
103	A self-data-driven method for remaining useful life prediction of wind turbines considering continuously varying speeds. *Mechanical Systems and Signal Processing*, **2022**, 165, 108315	7.8	2
102	A label description space embedded model for zero-shot intelligent diagnosis of mechanical compound faults. *Mechanical Systems and Signal Processing*, **2022**, 162, 108036	7.8	6
101	Multi-source transfer learning network to complement knowledge for intelligent diagnosis of machines with unseen faults. *Mechanical Systems and Signal Processing*, **2022**, 162, 108095	7.8	21
100	Online joint replacement-order optimization driven by a nonlinear ensemble remaining useful life prediction method. *Mechanical Systems and Signal Processing*, **2022**, 173, 109053	7.8	3
99	Severity Level Diagnosis of Parkinson□ Disease by Ensemble K-Nearest Neighbor Under Imbalanced Data. *Expert Systems With Applications*, **2021**, 189, 116113	7.8	2
98	Multiscale Convolutional Attention Network for Predicting Remaining Useful Life of Machinery. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 7496-7504	8.9	44
97	Distribution-Invariant Deep Belief Network for Intelligent Fault Diagnosis of Machines Under New Working Conditions. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 2617-2625	8.9	33
96	Remaining useful life prediction based on a multi-sensor data fusion model. *Reliability Engineering and System Safety*, **2021**, 208, 107249	6.3	22
95	An Optimal Transport-embedded Similarity Measure for Diagnostic Knowledge Transferability Analytics across Machines. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	6
94	Transfer Relation Network for Fault Diagnosis of Rotating Machinery With Small Data. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	7
93	Deep partial transfer learning network: A method to selectively transfer diagnostic knowledge across related machines. *Mechanical Systems and Signal Processing*, **2021**, 156, 107618	7.8	15
92	Accurate identification of Parkinson□ disease by distinctive features and ensemble decision trees. *Biomedical Signal Processing and Control*, **2021**, 69, 102860	4.9	2
91	Degradation modeling and remaining useful life prediction for dependent competing failure processes. *Reliability Engineering and System Safety*, **2021**, 212, 107638	6.3	24
90	Multi-Sensor Data-Driven Remaining Useful Life Prediction of Semi-Observable Systems. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 11482-11491	8.9	6

89	Adaptive Knowledge Transfer by Continual Weighted Updating of Filter Kernels for Few-shot Fault Diagnosis of Machines. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	9
88	Joint maintenance and spare parts inventory optimization for multi-unit systems considering imperfect maintenance actions. *Reliability Engineering and System Safety*, **2020**, 202, 106994	6.3	18
87	Recurrent convolutional neural network: A new framework for remaining useful life prediction of machinery. *Neurocomputing*, **2020**, 379, 117-129	5.4	73
86	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 9747-9757	8.9	63
85	Applications of machine learning to machine fault diagnosis: A review and roadmap. *Mechanical Systems and Signal Processing*, **2020**, 138, 106587	7.8	556
84	A Hybrid Prognostics Approach for Estimating Remaining Useful Life of Rolling Element Bearings. *IEEE Transactions on Reliability*, **2020**, 69, 401-412	4.6	314
83	An Incorrect Data Detection Method for Big Data Cleaning of Machinery Condition Monitoring. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2326-2336	8.9	42
82	A phenomenological model for investigating unequal planet load sharing in epicyclic gearboxes. *Mechanical Systems and Signal Processing*, **2020**, 135, 106414	7.8	12
81	Deep separable convolutional network for remaining useful life prediction of machinery. *Mechanical Systems and Signal Processing*, **2019**, 134, 106330	7.8	102
80	A Wiener-Process-Model-Based Method for Remaining Useful Life Prediction Considering Unit-to-Unit Variability. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 2092-2101	8.9	79
79	Remaining useful life prediction of machinery under time-varying operating conditions based on a two-factor state-space model. *Reliability Engineering and System Safety*, **2019**, 186, 88-100	6.3	39
78	Remaining Useful Life Prediction Based on Deep Residual Attention Network **2019**,		1
77	Design, modeling and experimental verification of circular Halbach electromagnetic energy harvesting from bearing motion. *Energy Conversion and Management*, **2019**, 180, 811-821	10.6	58
76	An intelligent fault diagnosis approach based on transfer learning from laboratory bearings to locomotive bearings. *Mechanical Systems and Signal Processing*, **2019**, 122, 692-706	7.8	317
75	Applications of stochastic resonance to machinery fault detection: A review and tutorial. *Mechanical Systems and Signal Processing*, **2019**, 122, 502-536	7.8	123
74	. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 7316-7325	8.9	418
73	Degradation data analysis and remaining useful life estimation: A review on Wiener-process-based methods. *European Journal of Operational Research*, **2018**, 271, 775-796	5.6	231
72	Machinery health indicator construction based on convolutional neural networks considering trend burr. *Neurocomputing*, **2018**, 292, 142-150	5.4	115

71	A probability distribution model of tooth pits for evaluating time-varying mesh stiffness of pitting gears. *Mechanical Systems and Signal Processing*, **2018**, 106, 355-366	7.8	50
70	Deep normalized convolutional neural network for imbalanced fault classification of machinery and its understanding via visualization. *Mechanical Systems and Signal Processing*, **2018**, 110, 349-367	7.8	278
69	Instantaneous speed jitter detection via encoder signal and its application for the diagnosis of planetary gearbox. *Mechanical Systems and Signal Processing*, **2018**, 98, 16-31	7.8	68
68	A neural network constructed by deep learning technique and its application to intelligent fault diagnosis of machines. *Neurocomputing*, **2018**, 272, 619-628	5.4	273
67	Machinery health prognostics: A systematic review from data acquisition to RUL prediction. *Mechanical Systems and Signal Processing*, **2018**, 104, 799-834	7.8	758
66	Repetitive transient extraction for machinery fault diagnosis using multiscale fractional order entropy infogram. *Mechanical Systems and Signal Processing*, **2018**, 103, 312-326	7.8	48
65	A Transfer Learning Method for Intelligent Fault Diagnosis from Laboratory Machines to Real-Case Machines **2018**,		10
64	A LOF-Based Method for Abnormal Segment Detection in Machinery Condition Monitoring **2018**,		6
63	A fault diagnosis method of rolling element bearings based on CEEMDAN. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2017**, 231, 1804-1815	1.3	39
62	A recurrent neural network based health indicator for remaining useful life prediction of bearings. *Neurocomputing*, **2017**, 240, 98-109	5.4	517
61	An underdamped stochastic resonance method with stable-state matching for incipient fault diagnosis of rolling element bearings. *Mechanical Systems and Signal Processing*, **2017**, 94, 148-164	7.8	98
60	Remaining Useful Life Prediction Based on a General Expression of Stochastic Process Models. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 5709-5718	8.9	59
59	Application of an improved maximum correlated kurtosis deconvolution method for fault diagnosis of rolling element bearings. *Mechanical Systems and Signal Processing*, **2017**, 92, 173-195	7.8	159
58	Fault Diagnosis of Rotating Machinery Based on Empirical Mode Decomposition. *Smart Sensors, Measurement and Instrumentation*, **2017**, 259-292	0.3	9
57	An improved fusion prognostics method for remaining useful life prediction of bearings **2017**,		6
56	Weak signal detection based on underdamped multistable stochastic resonance **2017**,		1
55	An adaptive unsaturated bistable stochastic resonance method and its application in mechanical fault diagnosis. *Mechanical Systems and Signal Processing*, **2017**, 84, 731-746	7.8	155
54	Deep convolution feature learning for health indicator construction of bearings **2017**,		14

53	A Distance Metric Learning Based Health Indicator for Health Prognostics of Bearings **2017**,		2
52	Intelligent fault diagnosis of rotating machinery using locally connected restricted boltzmann machine in big data era **2017**,		3
51	Signal processing and feature extraction **2017**, 17-66		6
50	Individual intelligent method-based fault diagnosis **2017**, 67-174		7
49	Hybrid intelligent fault diagnosis methods **2017**, 231-280		
48	Clustering algorithm based fault diagnosis **2017**, 175-229		3
47	Remaining useful life prediction **2017**, 281-358		13
46	Incipient Fault Detection for Rolling Element Bearings under Varying Speed Conditions. *Materials*, **2017**, 10,	3.5	10
45	A new model for calculating time-varying gearmesh stiffness. *Vibroengineering PROCEDIA*, **2017**, 14, 334-339	0.4	7
44	Stochastic resonance subject to multiplicative and additive noise: The influence of potential asymmetries. *Physical Review E*, **2016**, 94, 052214	2.4	60
43	A method of automatic feature extraction from massive vibration signals of machines **2016**,		2
42	Deep neural networks: A promising tool for fault characteristic mining and intelligent diagnosis of rotating machinery with massive data. *Mechanical Systems and Signal Processing*, **2016**, 72-73, 303-315	7.8	912
41	Phenomenological models of vibration signals for condition monitoring and fault diagnosis of epicyclic gearboxes. *Journal of Sound and Vibration*, **2016**, 369, 266-281	3.9	50
40	. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 3137-3147	8.9	661
39	Envelope harmonic-to-noise ratio for periodic impulses detection and its application to bearing diagnosis. *Measurement: Journal of the International Measurement Confederation*, **2016**, 91, 385-397	4.6	92
38	Reconstruction independent component analysis-based methods for intelligent fault diagnosis **2016**,		3
37	A New Method Based on Stochastic Process Models for Machine Remaining Useful Life Prediction. *IEEE Transactions on Instrumentation and Measurement*, **2016**, 65, 2671-2684	5.2	124
36	A Model-Based Method for Remaining Useful Life Prediction of Machinery. *IEEE Transactions on Reliability*, **2016**, 65, 1314-1326	4.6	234

35	Periodicity-based kurtogram for random impulse resistance. *Measurement Science and Technology*, **2015**, 26, 085011	2	29
34	Health condition identification of multi-stage planetary gearboxes using a mRVM-based method. *Mechanical Systems and Signal Processing*, **2015**, 60-61, 289-300	7.8	61
33	. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 7762-7773	8.9	261
32	Structural Dynamical Monitoring and Fault Diagnosis. *Shock and Vibration*, **2015**, 2015, 1-3	1.1	10
31	Early Fault Diagnosis of Bearings Using an Improved Spectral Kurtosis by Maximum Correlated Kurtosis Deconvolution. *Sensors*, **2015**, 15, 29363-77	3.8	67
30	Two new features for condition monitoring and fault diagnosis of planetary gearboxes. *JVC/Journal of Vibration and Control*, **2015**, 21, 755-764	2	34
29	A nonlinear degradation model based method for remaining useful life prediction of rolling element bearings **2015**,		5
28	Fault Detection of Planetary Gearboxes Based on an Adaptive Ensemble Empirical Mode Decomposition. *Lecture Notes in Mechanical Engineering*, **2015**, 837-848	0.4	1
27	Condition monitoring and fault diagnosis of planetary gearboxes: A review. *Measurement: Journal of the International Measurement Confederation*, **2014**, 48, 292-305	4.6	419
26	An enhanced stochastic resonance method for weak feature extraction from vibration signals in bearing fault detection. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2014**, 228, 815-827	1.3	24
25	A particle filtering-based approach for remaining useful life predication of rolling element bearings **2014**,		1
24	A data-driven multiplicative fault diagnosis approach for automation processes. *ISA Transactions*, **2014**, 53, 1436-45	5.5	44
23	Chatter identification in end milling process using wavelet packets and Hilbert□Huang transform. *International Journal of Machine Tools and Manufacture*, **2013**, 69, 11-19	9.4	140
22	Planetary gearbox fault diagnosis using an adaptive stochastic resonance method. *Mechanical Systems and Signal Processing*, **2013**, 38, 113-124	7.8	206
21	A review on empirical mode decomposition in fault diagnosis of rotating machinery. *Mechanical Systems and Signal Processing*, **2013**, 35, 108-126	7.8	1046
20	A tacho-less order tracking technique for large speed variations. *Mechanical Systems and Signal Processing*, **2013**, 40, 76-90	7.8	93
19	Fault diagnosis of rotating machinery based on an adaptive ensemble empirical mode decomposition. *Sensors*, **2013**, 13, 16950-64	3.8	64
18	Tacholess envelope order analysis and its application to fault detection of rolling element bearings with varying speeds. *Sensors*, **2013**, 13, 10856-75	3.8	100

17	A KPI-related multiplicative fault diagnosis scheme for industrial processes **2013**,		5
16	Fault detection of planetary gearboxes using new diagnostic parameters. *Measurement Science and Technology*, **2012**, 23, 055605	2	93
15	A method based on multi-sensor data fusion for fault detection of planetary gearboxes. *Sensors*, **2012**, 12, 2005-17	3.8	77
14	Time-Varying Meshing Stiffness Calculation and Vibration Analysis for a 16DOF Dynamic Model With Linear Crack Growth in a Pinion. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2012**, 134,	1.6	78
13	Application of an improved kurtogram method for fault diagnosis of rolling element bearings. *Mechanical Systems and Signal Processing*, **2011**, 25, 1738-1749	7.8	311
12	EEMD method and WNN for fault diagnosis of locomotive roller bearings. *Expert Systems With Applications*, **2011**, 38, 7334-7341	7.8	222
11	A multidimensional hybrid intelligent method for gear fault diagnosis. *Expert Systems With Applications*, **2010**, 37, 1419-1430	7.8	149
10	A Combination of WKNN to Fault Diagnosis of Rolling Element Bearings. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2009**, 131,	1.6	21
9	Application of an intelligent classification method to mechanical fault diagnosis. *Expert Systems With Applications*, **2009**, 36, 9941-9948	7.8	163
8	Application of the EEMD method to rotor fault diagnosis of rotating machinery. *Mechanical Systems and Signal Processing*, **2009**, 23, 1327-1338	7.8	374
7	Gear crack level identification based on weighted K nearest neighbor classification algorithm. *Mechanical Systems and Signal Processing*, **2009**, 23, 1535-1547	7.8	167
6	Fault diagnosis of rotating machinery using an improved HHT based on EEMD and sensitive IMFs. *Measurement Science and Technology*, **2009**, 20, 125701	2	117
5	Application of a Novel Hybrid Intelligent Method to Compound Fault Diagnosis of Locomotive Roller Bearings. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2008**, 130,	1.6	34
4	A new approach to intelligent fault diagnosis of rotating machinery. *Expert Systems With Applications*, **2008**, 35, 1593-1600	7.8	252
3	Fault diagnosis of rotating machinery based on a new hybrid clustering algorithm. *International Journal of Advanced Manufacturing Technology*, **2008**, 35, 968-977	3.2	28
2	New clustering algorithm-based fault diagnosis using compensation distance evaluation technique. *Mechanical Systems and Signal Processing*, **2008**, 22, 419-435	7.8	207
1	Fault diagnosis of rotating machinery based on multiple ANFIS combination with GAs. *Mechanical Systems and Signal Processing*, **2007**, 21, 2280-2294	7.8	271