

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A review on empirical mode decomposition in fault diagnosis of rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2013 , 35, 108-126	7.8	1046
105	Deep neural networks: A promising tool for fault characteristic mining and intelligent diagnosis of rotating machinery with massive data. <i>Mechanical Systems and Signal Processing</i> , 2016 , 72-73, 303-315	7.8	912
104	Machinery health prognostics: A systematic review from data acquisition to RUL prediction. <i>Mechanical Systems and Signal Processing</i> , 2018 , 104, 799-834	7.8	758
103	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3137-3147	8.9	661
102	Applications of machine learning to machine fault diagnosis: A review and roadmap. <i>Mechanical Systems and Signal Processing</i> , 2020 , 138, 106587	7.8	556
101	A recurrent neural network based health indicator for remaining useful life prediction of bearings. <i>Neurocomputing</i> , 2017 , 240, 98-109	5.4	517
100	Condition monitoring and fault diagnosis of planetary gearboxes: A review. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 48, 292-305	4.6	419
99	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7316-7325	8.9	418
98	Application of the EEMD method to rotor fault diagnosis of rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2009 , 23, 1327-1338	7.8	374
97	An intelligent fault diagnosis approach based on transfer learning from laboratory bearings to locomotive bearings. <i>Mechanical Systems and Signal Processing</i> , 2019 , 122, 692-706	7.8	317
96	A Hybrid Prognostics Approach for Estimating Remaining Useful Life of Rolling Element Bearings. <i>IEEE Transactions on Reliability</i> , 2020 , 69, 401-412	4.6	314
95	Application of an improved kurtogram method for fault diagnosis of rolling element bearings. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 1738-1749	7.8	311
94	Deep normalized convolutional neural network for imbalanced fault classification of machinery and its understanding via visualization. <i>Mechanical Systems and Signal Processing</i> , 2018 , 110, 349-367	7.8	278
93	A neural network constructed by deep learning technique and its application to intelligent fault diagnosis of machines. <i>Neurocomputing</i> , 2018 , 272, 619-628	5.4	273
92	Fault diagnosis of rotating machinery based on multiple ANFIS combination with GAs. <i>Mechanical Systems and Signal Processing</i> , 2007 , 21, 2280-2294	7.8	271
91	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 7762-7773	8.9	261
90	A new approach to intelligent fault diagnosis of rotating machinery. <i>Expert Systems With Applications</i> , 2008 , 35, 1593-1600	7.8	252

89	A Model-Based Method for Remaining Useful Life Prediction of Machinery. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 1314-1326	4.6	234
88	Degradation data analysis and remaining useful life estimation: A review on Wiener-process-based methods. <i>European Journal of Operational Research</i> , 2018 , 271, 775-796	5.6	231
87	EEMD method and WNN for fault diagnosis of locomotive roller bearings. <i>Expert Systems With Applications</i> , 2011 , 38, 7334-7341	7.8	222
86	New clustering algorithm-based fault diagnosis using compensation distance evaluation technique. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 419-435	7.8	207
85	Planetary gearbox fault diagnosis using an adaptive stochastic resonance method. <i>Mechanical Systems and Signal Processing</i> , 2013 , 38, 113-124	7.8	206
84	Gear crack level identification based on weighted K nearest neighbor classification algorithm. <i>Mechanical Systems and Signal Processing</i> , 2009 , 23, 1535-1547	7.8	167
83	Application of an intelligent classification method to mechanical fault diagnosis. <i>Expert Systems With Applications</i> , 2009 , 36, 9941-9948	7.8	163
82	Application of an improved maximum correlated kurtosis deconvolution method for fault diagnosis of rolling element bearings. <i>Mechanical Systems and Signal Processing</i> , 2017 , 92, 173-195	7.8	159
81	An adaptive unsaturated bistable stochastic resonance method and its application in mechanical fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2017 , 84, 731-746	7.8	155
80	A multidimensional hybrid intelligent method for gear fault diagnosis. <i>Expert Systems With Applications</i> , 2010 , 37, 1419-1430	7.8	149
79	Chatter identification in end milling process using wavelet packets and Hilbert-Huang transform. <i>International Journal of Machine Tools and Manufacture</i> , 2013 , 69, 11-19	9.4	140
78	A New Method Based on Stochastic Process Models for Machine Remaining Useful Life Prediction. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 2671-2684	5.2	124
77	Applications of stochastic resonance to machinery fault detection: A review and tutorial. <i>Mechanical Systems and Signal Processing</i> , 2019 , 122, 502-536	7.8	123
76	Fault diagnosis of rotating machinery using an improved HHT based on EEMD and sensitive IMFs. <i>Measurement Science and Technology</i> , 2009 , 20, 125701	2	117
75	Machinery health indicator construction based on convolutional neural networks considering trend burr. <i>Neurocomputing</i> , 2018 , 292, 142-150	5.4	115
74	Deep separable convolutional network for remaining useful life prediction of machinery. <i>Mechanical Systems and Signal Processing</i> , 2019 , 134, 106330	7.8	102
73	Tacholless envelope order analysis and its application to fault detection of rolling element bearings with varying speeds. <i>Sensors</i> , 2013 , 13, 10856-75	3.8	100
72	An underdamped stochastic resonance method with stable-state matching for incipient fault diagnosis of rolling element bearings. <i>Mechanical Systems and Signal Processing</i> , 2017 , 94, 148-164	7.8	98

71	Fault detection of planetary gearboxes using new diagnostic parameters. <i>Measurement Science and Technology</i> , 2012 , 23, 055605	2	93
70	A tachometerless order tracking technique for large speed variations. <i>Mechanical Systems and Signal Processing</i> , 2013 , 40, 76-90	7.8	93
69	Envelope harmonic-to-noise ratio for periodic impulses detection and its application to bearing diagnosis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 91, 385-397	4.6	92
68	A Wiener-Process-Model-Based Method for Remaining Useful Life Prediction Considering Unit-to-Unit Variability. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2092-2101	8.9	79
67	Time-Varying Meshing Stiffness Calculation and Vibration Analysis for a 16DOF Dynamic Model With Linear Crack Growth in a Pinion. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2012 , 134,	1.6	78
66	A method based on multi-sensor data fusion for fault detection of planetary gearboxes. <i>Sensors</i> , 2012 , 12, 2005-17	3.8	77
65	Recurrent convolutional neural network: A new framework for remaining useful life prediction of machinery. <i>Neurocomputing</i> , 2020 , 379, 117-129	5.4	73
64	Instantaneous speed jitter detection via encoder signal and its application for the diagnosis of planetary gearbox. <i>Mechanical Systems and Signal Processing</i> , 2018 , 98, 16-31	7.8	68
63	Early Fault Diagnosis of Bearings Using an Improved Spectral Kurtosis by Maximum Correlated Kurtosis Deconvolution. <i>Sensors</i> , 2015 , 15, 29363-77	3.8	67
62	Fault diagnosis of rotating machinery based on an adaptive ensemble empirical mode decomposition. <i>Sensors</i> , 2013 , 13, 16950-64	3.8	64
61	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9747-9757	8.9	63
60	Health condition identification of multi-stage planetary gearboxes using a mRVM-based method. <i>Mechanical Systems and Signal Processing</i> , 2015 , 60-61, 289-300	7.8	61
59	Stochastic resonance subject to multiplicative and additive noise: The influence of potential asymmetries. <i>Physical Review E</i> , 2016 , 94, 052214	2.4	60
58	Remaining Useful Life Prediction Based on a General Expression of Stochastic Process Models. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5709-5718	8.9	59
57	Design, modeling and experimental verification of circular Halbach electromagnetic energy harvesting from bearing motion. <i>Energy Conversion and Management</i> , 2019 , 180, 811-821	10.6	58
56	A probability distribution model of tooth pits for evaluating time-varying mesh stiffness of pitting gears. <i>Mechanical Systems and Signal Processing</i> , 2018 , 106, 355-366	7.8	50
55	Phenomenological models of vibration signals for condition monitoring and fault diagnosis of epicyclic gearboxes. <i>Journal of Sound and Vibration</i> , 2016 , 369, 266-281	3.9	50
54	Repetitive transient extraction for machinery fault diagnosis using multiscale fractional order entropy infogram. <i>Mechanical Systems and Signal Processing</i> , 2018 , 103, 312-326	7.8	48

53	A data-driven multiplicative fault diagnosis approach for automation processes. <i>ISA Transactions</i> , 2014 , 53, 1436-45	5.5	44
52	Multiscale Convolutional Attention Network for Predicting Remaining Useful Life of Machinery. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 7496-7504	8.9	44
51	An Incorrect Data Detection Method for Big Data Cleaning of Machinery Condition Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2326-2336	8.9	42
50	A fault diagnosis method of rolling element bearings based on CEEMDAN. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017 , 231, 1804-1813	1.3	39
49	Remaining useful life prediction of machinery under time-varying operating conditions based on a two-factor state-space model. <i>Reliability Engineering and System Safety</i> , 2019 , 186, 88-100	6.3	39
48	Two new features for condition monitoring and fault diagnosis of planetary gearboxes. <i>JVC/Journal of Vibration and Control</i> , 2015 , 21, 755-764	2	34
47	Application of a Novel Hybrid Intelligent Method to Compound Fault Diagnosis of Locomotive Roller Bearings. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2008 , 130,	1.6	34
46	Distribution-Invariant Deep Belief Network for Intelligent Fault Diagnosis of Machines Under New Working Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2617-2625	8.9	33
45	Bearing fault diagnosis method based on adaptive maximum cyclostationarity blind deconvolution. <i>Mechanical Systems and Signal Processing</i> , 2022 , 162, 108018	7.8	33
44	Periodicity-based kurtogram for random impulse resistance. <i>Measurement Science and Technology</i> , 2015 , 26, 085011	2	29
43	Fault diagnosis of rotating machinery based on a new hybrid clustering algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2008 , 35, 968-977	3.2	28
42	An enhanced stochastic resonance method for weak feature extraction from vibration signals in bearing fault detection. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014 , 228, 815-827	1.3	24
41	Degradation modeling and remaining useful life prediction for dependent competing failure processes. <i>Reliability Engineering and System Safety</i> , 2021 , 212, 107638	6.3	24
40	Remaining useful life prediction based on a multi-sensor data fusion model. <i>Reliability Engineering and System Safety</i> , 2021 , 208, 107249	6.3	22
39	A Combination of WKNN to Fault Diagnosis of Rolling Element Bearings. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2009 , 131,	1.6	21
38	Multi-source transfer learning network to complement knowledge for intelligent diagnosis of machines with unseen faults. <i>Mechanical Systems and Signal Processing</i> , 2022 , 162, 108095	7.8	21
37	Joint maintenance and spare parts inventory optimization for multi-unit systems considering imperfect maintenance actions. <i>Reliability Engineering and System Safety</i> , 2020 , 202, 106994	6.3	18
36	Deep partial transfer learning network: A method to selectively transfer diagnostic knowledge across related machines. <i>Mechanical Systems and Signal Processing</i> , 2021 , 156, 107618	7.8	15

35	Deep convolution feature learning for health indicator construction of bearings 2017 ,		14
34	Remaining useful life prediction 2017 , 281-358		13
33	A phenomenological model for investigating unequal planet load sharing in epicyclic gearboxes. <i>Mechanical Systems and Signal Processing</i> , 2020 , 135, 106414	7.8	12
32	Incipient Fault Detection for Rolling Element Bearings under Varying Speed Conditions. <i>Materials</i> , 2017 , 10,	3.5	10
31	Structural Dynamical Monitoring and Fault Diagnosis. <i>Shock and Vibration</i> , 2015 , 2015, 1-3	1.1	10
30	A Transfer Learning Method for Intelligent Fault Diagnosis from Laboratory Machines to Real-Case Machines 2018 ,		10
29	Fault Diagnosis of Rotating Machinery Based on Empirical Mode Decomposition. <i>Smart Sensors, Measurement and Instrumentation</i> , 2017 , 259-292	0.3	9
28	Adaptive Knowledge Transfer by Continual Weighted Updating of Filter Kernels for Few-shot Fault Diagnosis of Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	9
27	Individual intelligent method-based fault diagnosis 2017 , 67-174		7
26	A new model for calculating time-varying gearmesh stiffness. <i>Vibroengineering PROCEDIA</i> , 2017 , 14, 334-339	0.4	7
25	Transfer Relation Network for Fault Diagnosis of Rotating Machinery With Small Data. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	7
24	An improved fusion prognostics method for remaining useful life prediction of bearings 2017 ,		6
23	Signal processing and feature extraction 2017 , 17-66		6
22	An Optimal Transport-embedded Similarity Measure for Diagnostic Knowledge Transferability Analytics across Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	6
21	A LOF-Based Method for Abnormal Segment Detection in Machinery Condition Monitoring 2018 ,		6
20	Multi-Sensor Data-Driven Remaining Useful Life Prediction of Semi-Observable Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 11482-11491	8.9	6
19	A label description space embedded model for zero-shot intelligent diagnosis of mechanical compound faults. <i>Mechanical Systems and Signal Processing</i> , 2022 , 162, 108036	7.8	6
18	A nonlinear degradation model based method for remaining useful life prediction of rolling element bearings 2015 ,		5

17	A KPI-related multiplicative fault diagnosis scheme for industrial processes 2013 ,		5
16	Nonlinear degradation modeling and prognostics: A Box-Cox transformation perspective. <i>Reliability Engineering and System Safety</i> , 2022 , 217, 108120	6.3	5
15	Intelligent fault diagnosis of rotating machinery using locally connected restricted boltzmann machine in big data era 2017 ,		3
14	Clustering algorithmBased fault diagnosis 2017 , 175-229		3
13	Reconstruction independent component analysis-based methods for intelligent fault diagnosis 2016 ,		3
12	Online joint replacement-order optimization driven by a nonlinear ensemble remaining useful life prediction method. <i>Mechanical Systems and Signal Processing</i> , 2022 , 173, 109053	7.8	3
11	A method of automatic feature extraction from massive vibration signals of machines 2016 ,		2
10	A Distance Metric Learning Based Health Indicator for Health Prognostics of Bearings 2017 ,		2
9	Severity Level Diagnosis of Parkinson's Disease by Ensemble K-Nearest Neighbor Under Imbalanced Data. <i>Expert Systems With Applications</i> , 2021 , 189, 116113	7.8	2
8	Accurate identification of Parkinson's disease by distinctive features and ensemble decision trees. <i>Biomedical Signal Processing and Control</i> , 2021 , 69, 102860	4.9	2
7	A self-data-driven method for remaining useful life prediction of wind turbines considering continuously varying speeds. <i>Mechanical Systems and Signal Processing</i> , 2022 , 165, 108315	7.8	2
6	Weak signal detection based on underdamped multistable stochastic resonance 2017 ,		1
5	A particle filtering-based approach for remaining useful life predication of rolling element bearings 2014 ,		1
4	Special feature on rotating machinery condition monitoring by connecting physics-based and data-driven methods. <i>Measurement Science and Technology</i> , 2022 , 33, 010103	2	1
3	Fault Detection of Planetary Gearboxes Based on an Adaptive Ensemble Empirical Mode Decomposition. <i>Lecture Notes in Mechanical Engineering</i> , 2015 , 837-848	0.4	1
2	Remaining Useful Life Prediction Based on Deep Residual Attention Network 2019 ,		1
1	Hybrid intelligent fault diagnosis methods 2017 , 231-280		