

David He

List of Publications by Year in descending order

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78
papers

2,887
citations

186209

28
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175177

52
g-index

79
all docs

79
docs citations

79
times ranked

2694
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning Based Approach for Bearing Fault Diagnosis. IEEE Transactions on Industry Applications, 2017, 53, 3057-3065.	3.3	318
2	Using Deep Learning-Based Approach to Predict Remaining Useful Life of Rotating Components. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 11-20.	5.9	305
3	Rotational Machine Health Monitoring and Fault Detection Using EMD-Based Acoustic Emission Feature Quantification. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 990-1001.	2.4	164
4	A Directed Acyclic Graph Network Combined With CNN and LSTM for Remaining Useful Life Prediction. IEEE Access, 2019, 7, 75464-75475.	2.6	157
5	Gearbox Tooth Cut Fault Diagnostics Using Acoustic Emission and Vibration Sensors – A Comparative Study. Sensors, 2014, 14, 1372-1393.	2.1	94
6	Low speed bearing fault diagnosis using acoustic emission sensors. Applied Acoustics, 2016, 105, 35-44.	1.7	89
7	Plastic Bearing Fault Diagnosis Based on a Two-Step Data Mining Approach. IEEE Transactions on Industrial Electronics, 2012, , 1-1.	5.2	76
8	Data Mining Based Full Ceramic Bearing Fault Diagnostic System Using AE Sensors. IEEE Transactions on Neural Networks, 2011, 22, 2022-2031.	4.8	75
9	Fault features extraction for bearing prognostics. Journal of Intelligent Manufacturing, 2012, 23, 313-321.	4.4	73
10	Online particle-contaminated lubrication oil condition monitoring and remaining useful life prediction for wind turbines. Wind Energy, 2015, 18, 1131-1149.	1.9	73
11	Equipment health diagnosis and prognosis using hidden semi-Markov models. International Journal of Advanced Manufacturing Technology, 2006, 30, 738-749.	1.5	69
12	Gear Pitting Fault Diagnosis Using Integrated CNN and GRU Network with Both Vibration and Acoustic Emission Signals. Applied Sciences (Switzerland), 2019, 9, 768.	1.3	68
13	Semi-supervised gear fault diagnosis using raw vibration signal based on deep learning. Chinese Journal of Aeronautics, 2020, 33, 418-426.	2.8	65
14	A new hybrid deep signal processing approach for bearing fault diagnosis using vibration signals. Neurocomputing, 2020, 396, 542-555.	3.5	64
15	Gear pitting fault diagnosis with mixed operating conditions based on adaptive 1D separable convolution with residual connection. Mechanical Systems and Signal Processing, 2020, 142, 106740.	4.4	60
16	On the Use of a Single Piezoelectric Strain Sensor for Wind Turbine Planetary Gearbox Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2015, 62, 6585-6593.	5.2	58
17	Joint statistical design of double sampling and s charts. European Journal of Operational Research, 2006, 168, 122-142.	3.5	54
18	Remaining Useful Life Prediction of Hybrid Ceramic Bearings Using an Integrated Deep Learning and Particle Filter Approach. Applied Sciences (Switzerland), 2017, 7, 649.	1.3	53

#	ARTICLE	IF	CITATIONS
19	Construction of double samplings-control charts for agile manufacturing. Quality and Reliability Engineering International, 2002, 18, 343-355.	1.4	51
20	System Failure Analysis Through Counters of Petri Net Models. Quality and Reliability Engineering International, 2004, 20, 317-335.	1.4	47
21	Detection of Pitting in Gears Using a Deep Sparse Autoencoder. Applied Sciences (Switzerland), 2017, 7, 515.	1.3	45
22	Unsupervised rotating machinery fault diagnosis method based on integrated SAE+DBN and a binary processor. Journal of Intelligent Manufacturing, 2020, 31, 1899-1916.	4.4	45
23	Solving then-job 3-stage flexible flowshop scheduling problem using an agent-based approach. International Journal of Production Research, 2004, 42, 777-799.	4.9	36
24	The effect of surface roughness of the substrate on fatigue life of coated aluminum alloy by micro-arc oxidation. Journal of Alloys and Compounds, 2018, 765, 1018-1025.	2.8	33
25	Multivariate multiple sampling charts. IIE Transactions, 2005, 37, 509-521.	2.1	32
26	Fatigue Life Estimation of Medium-Carbon Steel with Different Surface Roughness. Applied Sciences (Switzerland), 2017, 7, 338.	1.3	31
27	A Bayesian Optimization AdaBN-DCNN Method With Self-Optimized Structure and Hyperparameters for Domain Adaptation Remaining Useful Life Prediction. IEEE Access, 2020, 8, 41482-41501.	2.6	31
28	A new method to classify railway vehicle axle fatigue crack AE signal. Applied Acoustics, 2018, 131, 174-185.	1.7	29
29	Gear Fault Location Detection for Split Torque Gearbox Using AE Sensors. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1308-1317.	3.3	27
30	Planetary gearbox fault diagnostic method using acoustic emission sensors. IET Science, Measurement and Technology, 2015, 9, 936-944.	0.9	27
31	Scheduling manufacturing systems in an agile environment. Robotics and Computer-Integrated Manufacturing, 2001, 17, 87-97.	6.1	26
32	Vibration-based wind turbine planetary gearbox fault diagnosis using spectral averaging. Wind Energy, 2016, 19, 1733-1747.	1.9	26
33	A Novel Method for Early Gear Pitting Fault Diagnosis Using Stacked SAE and GBRBM. Sensors, 2019, 19, 758.	2.1	26
34	Online condition monitoring and remaining useful life prediction of particle contaminated lubrication oil. , 2013, , .		22
35	Influence of duty cycle on fatigue life of AA2024 with thin coating fabricated by micro-arc oxidation. Surface and Coatings Technology, 2019, 360, 347-357.	2.2	22
36	Bearing fault diagnosis based on a new acoustic emission sensor technique. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2015, 229, 105-118.	0.6	21

#	ARTICLE	IF	CITATIONS
37	Rolling bearing fault severity identification using deep sparse auto-encoder network with noise added sample expansion. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2017, 231, 666-679.	0.6	21
38	On the Use of Spectral Averaging of Acoustic Emission Signals for Bearing Fault Diagnostics. Journal of Vibration and Acoustics, Transactions of the ASME, 2014, 136, .	1.0	20
39	A Method to Decompose the Streamed Acoustic Emission Signals for Detecting Embedded Fatigue Crack Signals. Applied Sciences (Switzerland), 2018, 8, 7.	1.3	20
40	Quantification of condition indicator performance on a split torque gearbox. Journal of Intelligent Manufacturing, 2012, 23, 213-220.	4.4	19
41	A Reliability-Based Robust Design Method for the Sealing of Slipper-Swash Plate Friction Pair in Hydraulic Piston Pump. IEEE Transactions on Reliability, 2018, 67, 459-469.	3.5	19
42	A domain adaptation model for early gear pitting fault diagnosis based on deep transfer learning network. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 168-182.	0.6	19
43	Development and Validation of Bearing Diagnostic and Prognostic Tools using HUMS Condition Indicators. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	18
44	Mechanism of residual stress and surface roughness of substrate on fatigue behavior of micro-arc oxidation coated AA7075-T6 alloy. Surface and Coatings Technology, 2019, 380, 125014.	2.2	18
45	Fatigue life of micro-arc oxidation coated AA2024-T3 and AA7075-T6 alloys. International Journal of Fatigue, 2019, 124, 493-502.	2.8	18
46	Residual stress relaxation and duty cycle on high cycle fatigue life of micro-arc oxidation coated AA7075-T6 alloy. International Journal of Fatigue, 2020, 130, 105283.	2.8	18
47	Wind turbine planetary gearbox feature extraction and fault diagnosis using a deep-learning-based approach. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 303-316.	0.6	15
48	Gear pitting fault diagnosis using raw acoustic emission signal based on deep learning. Eksploatacja i Niezawodnosc, 2019, 21, 403-410.	1.1	15
49	Domain Adaptation Remaining Useful Life Prediction Method Based on AdaBN-DCNN. , 2019, , .		14
50	Application of the condition based maintenance checking system for aircrafts. Journal of Intelligent Manufacturing, 2012, 23, 277-288.	4.4	13
51	Experimental study of dynamic strain for gear tooth using fiber Bragg gratings and piezoelectric strain sensors. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 3992-4003.	1.1	13
52	Use of Paris Law for Prediction of Component Remaining Life. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	11
53	Stochastic modeling of damage physics for mechanical component prognostics using condition indicators. Journal of Intelligent Manufacturing, 2012, 23, 221-226.	4.4	11
54	Gear pitting fault diagnosis using disentangled features from unsupervised deep learning. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 719-730.	0.6	11

#	ARTICLE	IF	CITATIONS
55	Development of a new acoustic emission based fault diagnosis tool for gearbox. , 2013, , .		9
56	Full ceramic bearing fault diagnosis using LAMSTAR neural network. , 2013, , .		9
57	Development of an Efficient Prognostic Estimator. Journal of Failure Analysis and Prevention, 2015, 15, 129-138.	0.5	9
58	A New Signal Processing and Feature Extraction Approach for Bearing Fault Diagnosis using AE Sensors. Journal of Failure Analysis and Prevention, 2016, 16, 821-827.	0.5	9
59	Statistical Analysis and Fatigue Life Estimations for Quenched and Tempered Steel at Different Tempering Temperatures. Metals, 2017, 7, 312.	1.0	7
60	Early Gear Pitting Fault Diagnosis Based on Bi-directional LSTM. , 2019, , .		7
61	Development of Regime Recognition Tools for Usage Monitoring. , 2007, , .		6
62	A nonsmooth IMC method for mechanical systems with backlash. Journal of Control Theory and Applications, 2013, 11, 600-607.	0.8	5
63	Simultaneous bearing fault diagnosis and severity detection using a LAMSTAR network-based approach. IET Science, Measurement and Technology, 2018, 12, 893-901.	0.9	5
64	A Particle Filtering Based Approach for Gear Prognostics. , 2013, , 257-266.		5
65	DSP based module for processing vibration signals of rotation machinery. , 2017, , .		4
66	Using Long Short Term Memory Based Approaches for Carbon Steel Fatigue Remaining Useful Life Prediction. , 2018, , .		4
67	A Hybrid Deep Learning Based Approach for Remaining Useful Life Estimation. , 2019, , .		4
68	A dynamic mode decomposition based deep learning technique for prognostics. Journal of Intelligent Manufacturing, 2023, 34, 2207-2224.	4.4	4
69	A new vibration signal processing method for gearbox fault detection. , 2011, , .		3
70	A New Spectral Average-Based Bearing Fault Diagnostic Approach. Journal of Failure Analysis and Prevention, 2014, 14, 354.	0.5	2
71	Unsupervised Gear Fault Diagnosis Using Raw Vibration Signal Based on Deep Learning. , 2018, , .		2
72	Stationary random vibration of a viscoelastic Timoshenko cantilever beam under diverse random processes. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 849-861.	1.1	2

#	ARTICLE	IF	CITATIONS
73	Development and evaluation of AE based condition indicators for full ceramic bearing fault diagnosis. , 2011, , .		1
74	Investigation on full ceramic bearing fault diagnostics using vibration and AE sensors. , 2012, , .		1
75	Nonsmooth identification of mechanical systems with backlash-like hysteresis. Journal of Control Theory and Applications, 2013, 11, 477-482.	0.8	1
76	PSO Optimized ANN Diagnosis of Early Gear Pitting. , 2018, , .		0
77	Gear pitting fault diagnosis using disentangled features from unsupervised deep learning. , 2018, , .		0
78	Expected Maintenance Actions for Imperfect Production Processes Using a Markovian Approach. , 2020, , .		0