Joo-Ho Choi

List of Publications by Year
in descending order

42	1,277	567281 15	377865 34
papers	citations	h-index	g-index

43	43	43	1127
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Practical options for selecting data-driven or physics-based prognostics algorithms with reviews. Reliability Engineering and System Safety, 2015, 133, 223-236.	8.9	312
2	Prognostics 101: A tutorial for particle filter-based prognostics algorithm using Matlab. Reliability Engineering and System Safety, 2013, 115, 161-169.	8.9	241
3	Gear fault diagnosis using transmission error and ensemble empirical mode decomposition. Mechanical Systems and Signal Processing, 2018, 108, 262-275.	8.0	107
4	Prognostics and Health Management of Engineering Systems. , 2017, , .		93
5	Model-Based Fault Diagnosis of a Planetary Gear: A Novel Approach Using Transmission Error. IEEE Transactions on Reliability, 2016, 65, 1830-1841.	4.6	52
6	A Framework for Prognostics and Health Management Applications toward Smart Manufacturing Systems. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 535-554.	4.9	44
7	Identification of correlated damage parameters under noise and bias using Bayesian inference. Structural Health Monitoring, 2012, 11, 293-303.	7.5	41
8	Convolutional neural network for gear fault diagnosis based on signal segmentation approach. Structural Health Monitoring, 2019, 18, 1401-1415.	7.5	39
9	Diagnostics 101: A Tutorial for Fault Diagnostics of Rolling Element Bearing Using Envelope Analysis in MATLAB. Applied Sciences (Switzerland), 2020, 10, 7302.	2.5	36
10	Prediction of remaining useful life by data augmentation technique based on dynamic time warping. Mechanical Systems and Signal Processing, 2020, 136, 106486.	8.0	31
11	A Novel Prognostics Approach Using Shifting Kernel Particle Filter of Li-Ion Batteries Under State Changes. IEEE Transactions on Industrial Electronics, 2021, 68, 3485-3493.	7.9	31
12	Frequency energy shift method for bearing fault prognosis using microphone sensor. Mechanical Systems and Signal Processing, 2021, 147, 107068.	8.0	27
13	Prediction of remaining useful life under different conditions using accelerated life testing data. Journal of Mechanical Science and Technology, 2018, 32, 2497-2507.	1.5	21
14	Metamodel for Efficient Estimation of Capacity-Fade Uncertainty in Li-Ion Batteries for Electric Vehicles. Energies, 2015, 8, 5538-5554.	3.1	19
15	A Tutorial for Feature Engineering in the Prognostics and Health Management of Gears and Bearings. Applied Sciences (Switzerland), 2020, 10, 5639.	2.5	19
16	Feature extraction for bearing prognostics using weighted correlation of fault frequencies over cycles. Structural Health Monitoring, 2020, 19, 1808-1820.	7.5	17
17	A Comparative Study of Fault Diagnosis for Train Door System: Traditional versus Deep Learning Approaches. Sensors, 2019, 19, 5160.	3.8	16
18	Remaining useful life prediction of rolling element bearings using degradation feature based on amplitude decrease at specific frequencies. Structural Health Monitoring, 2018, 17, 1095-1109.	7.5	15

#	Article	IF	Citations
19	Challenges and Opportunities of System-Level Prognostics. Sensors, 2021, 21, 7655.	3.8	13
20	Improved MCMC method for parameter estimation based on marginal probability density function. Journal of Mechanical Science and Technology, 2013, 27, 1771-1779.	1.5	12
21	Transfer Learning-Based Fault Diagnosis under Data Deficiency. Applied Sciences (Switzerland), 2020, 10, 7768.	2.5	12
22	An efficient method for fatigue reliability analysis accounting for scatter of fatigue test data. International Journal of Precision Engineering and Manufacturing, 2010, 11, 429-437.	2.2	9
23	Statistical aspects in neural network for the purpose of prognostics. Journal of Mechanical Science and Technology, 2015, 29, 1369-1375.	1.5	8
24	Inspection schedule for prognostics with uncertainty management. Reliability Engineering and System Safety, 2022, 222, 108391.	8.9	8
25	Remaining useful life prediction of reaction wheel motor in satellites. JMST Advances, 2019, 1, 219-226.	1.9	7
26	Machine Health Assessment Based on an Anomaly Indicator Using a Generative Adversarial Network. International Journal of Precision Engineering and Manufacturing, 2021, 22, 1113-1124.	2.2	6
27	A Study Toward Appropriate Architecture of System-Level Prognostics: Physics-Based and Data-Driven Approaches. IEEE Access, 2021, 9, 157960-157972.	4.2	6
28	Statistical calibration and validation of elasto-plastic insertion analysis in pyrotechnically actuated devices. Structural and Multidisciplinary Optimization, 2016, 54, 1573-1585.	3.5	5
29	A study on robust optimization of layered plates bonding process based on inverse analysis. Journal of Materials Processing Technology, 2008, 201, 261-266.	6.3	4
30	Probabilistic analysis of rattle occurrence in the gap of automotive interior parts. Journal of Mechanical Science and Technology, 2014, 28, 3991-3996.	1.5	4
31	Tutorial for Prognostics and Health Management of Gears and Bearings : Advanced Signal Processing Technique. Transactions of the Korean Society of Mechanical Engineers, A, 2018, 42, 1119-1131.	0.2	4
32	A Robust Health Indicator for Rotating Machinery Under Time-Varying Operating Conditions. IEEE Access, 2022, 10, 4993-5001.	4.2	4
33	Teaching a Verification and Validation Course Using Simulations and Experiments With Paper Helicopters. Journal of Verification, Validation and Uncertainty Quantification, 2016, 1, .	0.4	3
34	Information Value-Based Fault Diagnosis of Train Door System under Multiple Operating Conditions. Sensors, 2020, 20, 3952.	3.8	3
35	Development of a Fatigue Model for Low Alloy Steels Using a Cycle-Dependent Cohesive Zone Law. Advances in Mechanical Engineering, 2014, 6, 124037.	1.6	2
36	Modified Reliability Centered Maintenance Analysis Considering Probability of Detection. Journal of Aerospace Information Systems, 2020, 17, 240-247.	1.4	2

#	Article	IF	Citations
37	A novel health indicator for a linear motion guide based on the frequency energy tracking method. Measurement: Journal of the International Measurement Confederation, 2022, 199, 111544.	5.0	2
38	Model-based diagnosis of gear fault under variable loading condition. , 2013, , .		1
39	Comparative Study for Inspection Planning of Aircraft Structural Components. International Journal of Aeronautical and Space Sciences, 2021, 22, 328-337.	2.0	1
40	Notice of Retraction On-line model-based prognosis for crack growth under variable amplitude loading. , 2013, , .		0
41	Study on Inverse Approach to Validation of Viscoplastic Model of Sn37Pb Solder and Identification of Model Parameters. Transactions of the Korean Society of Mechanical Engineers, A, 2010, 34, 1377-1384.	0.2	0
42	Study on Attributes of Prognostics Methods. , 2017, , 243-279.		0