Byeong-Keun Choi

List of Publications by Year
in descending order

35 papers	943 citations	840776 11 h-index	454955 30 g-index
37 all docs	37 docs citations	37 times ranked	958 citing authors

#	Article	IF	Citations
1	Functionalized carbon nanotubeâ€“cellulose nanocrystal (CNTâ€“CNC) composite buckypaper via various methods for improved hydrophilicity performance and behavior. Applied Nanoscience (Switzerland), 2022, 12, 3353-3362.	3.1	4
2	A Study on Deep Learning Application of Vibration Data and Visualization of Defects for Predictive Maintenance of Gravity Acceleration Equipment. Applied Sciences (Switzerland), 2021, 11, 1564.	2.5	14
3	Experimental Study on the Enhanced Thermal Performance of Two-Phase Closed Thermosyphon Using Mechanical and Chemical Treated MWCNTs Nanofluids. Microgravity Science and Technology, 2021, 33, 1.	1.4	3
4	Performance Improvement of Feature-Based Fault Classification for Rotor System. International Journal of Precision Engineering and Manufacturing, 2020, 21, 1065-1074.	2.2	6
5	A Simple Approach for Heat Transfer Enhancement of Carbon Nanofluids in Aqueous Media. Journal of Nanoscience and Nanotechnology, 2020, 20, 2337-2343.	0.9	10
6	Composition Dependence of the Î² Phase Stability and Mechanical Properties of Tiâ€“Nb Thin Films. Journal of Nanoscience and Nanotechnology, 2019, 19, 3627-3630.	0.9	0
7	Artificial intelligence-based machine learning considering flow and temperature of the pipeline for leak early detection using acoustic emission. Engineering Fracture Mechanics, 2019, 210, 381-392.	4.3	46
8	Feature-based Trend Monitoring of Vibration Signals According to Severity of Gear Tooth Breakage. Transactions of the Korean Society for Noise and Vibration Engineering, 2019, 29, 199-205.	0.4	4
9	Forced Convective Heat Transfer of Aqueous Al₂O₃ Nanofluid Through Shell and Tube Heat Exchanger. Journal of Nanoscience and Nanotechnology, 2018, 18, 1730-1740.	0.9	6
10	Phase Stability and Properties of Ti-Nb-Zr Thin Films and Their Dependence on Zr Addition. Materials, 2018, 11, 1361.	2.9	8
11	Surface Modification of Graphene Nanoparticles by Acid Treatment and Grinding Process. Journal of Nanoscience and Nanotechnology, 2018, 18, 645-650.	0.9	9
12	Failure analysis and structural improvement for cracked circular finned tube. Engineering Failure Analysis, 2018, 92, 95-106.	4.0	4
13	Degradation Trend Estimation and Prognostics for Low Speed Gear Lifetime. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1099-1105.	2.2	8
14	Effect of Substrate Roughness on Adhesion and Structural Properties of Tiâ€“Ni Shape Memory Alloy Thin Film. Journal of Nanoscience and Nanotechnology, 2018, 18, 6201-6205.	0.9	4
15	Distance and Density Similarity Based Enhanced<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi>k</mml:mi></mml:mrow></mml:math>-NN Classifier for Improving Fault Diagnosis Performance of Bearings. Shock and Vibration, 2016, 2016, 1-11.	0.6	8
16	Structural and vibration analysis considering the flow velocity of the heat exchanger. International Journal of Precision Engineering and Manufacturing, 2016, 17, 725-732.	2.2	8
17	Bearing life prognosis based on monotonic feature selection and similarity modeling. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 3183-3193.	2.1	17
18	FULL SCALE EXPERIMENT AND NUMERICAL ANALYSIS FOR THE PERFORMANCE OF HEAT EXCHANGER IN MOLTEN CARBONATE FUEL CELLS. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 799-810.	0.8	0

#	Article	IF	Citations
19	Envelope analysis with a genetic algorithm-based adaptive filter bank for bearing fault detection. Journal of the Acoustical Society of America, 2015, 138, EL65-EL70.	1.1	26
20	Enhanced DET-Based Fault Signature Analysis for Reliable Diagnosis of Single and Multiple-Combined Bearing Defects. Shock and Vibration, 2015, 2015, 1-10.	0.6	5
21	Reliable Fault Diagnosis for Low-Speed Bearings Using Individually Trained Support Vector Machines With Kernel Discriminative Feature Analysis. IEEE Transactions on Power Electronics, 2015, 30, 2786-2797.	7.9	209
22	Robust condition monitoring of rolling element bearings using de-noising and envelope analysis with signal decomposition techniques. Expert Systems With Applications, 2015, 42, 9024-9032.	7.6	66
23	Real-time and energy-efficient bearing fault diagnosis using discriminative wavelet-based fault features on a multi-core system. , 2015, , .		0
24	Condition monitoring of naturally damaged slow speed slewing bearing based on ensemble empirical mode decomposition. Journal of Mechanical Science and Technology, 2013, 27, 2253-2262.	1.5	58
25	Optimum design of simple rotor system supported by journal bearing using enhanced genetic algorithm. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1583-1589.	2.2	3
26	Evaluation of the use of envelope analysis and DWT on AE signals generated from degrading shafts. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1683-1690.	3.5	17
27	Integrated approach for diagnostics and prognostics of HP LNG pump based on health state probability estimation. Journal of Mechanical Science and Technology, 2012, 26, 3571-3585.	1.5	7
28	Detection of faults in gearboxes using acoustic emission signal. Journal of Mechanical Science and Technology, 2011, 25, 1279-1286.	1.5	32
29	Application of nonlinear integer programming for vibration reduction optimum design of ship structure. Journal of Mechanical Science and Technology, 2009, 23, 2085-2096.	1.5	2
30	Fault diagnosis of low speed bearing based on relevance vector machine and support vector machine. Expert Systems With Applications, 2009, 36, 7252-7261.	7.6	270
31	Development of integrated evolutionary optimization algorithm and its application to optimum design of ship structures. Journal of Mechanical Science and Technology, 2008, 22, 1313-1322.	1.5	6
32	Optimum shape design of rotating shaft by ESO method. Journal of Mechanical Science and Technology, 2007, 21, 1039-1047.	1.5	12
33	Diagnosis of cryogenic pump-motor systems using vibration and current signature analysis. Journal of Mechanical Science and Technology, 2006, 20, 972-980.	1.5	3
34	Pattern optimization of intentional blade mistuning for the reduction of the forced response using genetic algorithm. Journal of Mechanical Science and Technology, 2003, 17, 966-977.	0.4	8
35	Optimum design of short journal bearings by artificial life algorithm. Tribology International, 2001, 34, 427-435.	5.9	55