

Fengshou Gu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9530520/fengshou-gu-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

269
papers

4,149
citations

34
h-index

55
g-index

308
ext. papers

5,060
ext. citations

3.1
avg, IF

5.97
L-index

#	Paper	IF	Citations
269	Gear Health Monitoring and RUL Prediction Based on MSB Analysis. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	3
268	A novel method of parameter identification and state of charge estimation for lithium-ion battery energy storage system. <i>Journal of Energy Storage</i> , 2022 , 49, 104124	7.8	1
267	Structural vibration mode identification from high-speed camera footages using an adaptive spatial filtering approach. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108422	7.8	3
266	Vibration characteristics and condition monitoring of internal radial clearance within a ball bearing in a gear-shaft-bearing system. <i>Mechanical Systems and Signal Processing</i> , 2022 , 165, 108280	7.8	8
265	Torsional vibration responses of the engine crankshaft-gearbox coupled system with misfire and breathing slant crack based on instantaneous angular speed. <i>Mechanical Systems and Signal Processing</i> , 2022 , 173, 109052	7.8	1
264	The estimation method of normalized Nonlinear Output Frequency Response Functions with only response signals under stochastic excitation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022 , 111, 106416	3.7	0
263	Informative singular value decomposition and its application in fault detection of planetary gearbox. <i>Measurement Science and Technology</i> , 2022 , 33, 085010	2	1
262	Investigations on improved Gini indices for bearing fault feature characterization and condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2022 , 176, 109165	7.8	5
261	Investigation of Spur Gear Dynamics with Gear Mesh Impacts Induced by Tooth Wear. <i>Journal of Physics: Conference Series</i> , 2022 , 2184, 012039	0.3	
260	Enhanced bearing fault diagnosis using integral envelope spectrum from spectral coherence normalized with feature energy. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 189, 110448	4.6	3
259	Improved cyclostationary analysis method based on TKEO and its application on the faults diagnosis of induction motors. <i>ISA Transactions</i> , 2021 ,	5.5	3
258	Transient impulses enhancement based on adaptive multi-scale improved differential filter and its application in rotating machines fault diagnosis. <i>ISA Transactions</i> , 2021 ,	5.5	4
257	Fault Diagnosis of Rolling Bearing Using Improved Wavelet Threshold Denoising and Fast Spectral Correlation Analysis. <i>Shock and Vibration</i> , 2021 , 2021, 1-10	1.1	1
256	The Investigation into the Tribological Impact of Alternative Fuels on Engines Based on Acoustic Emission. <i>Energies</i> , 2021 , 14, 2315	3.1	1
255	Modelling non-Gaussian surfaces and misalignment for condition monitoring of journal bearings. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 174, 108983	4.6	7
254	Evaluation model of mesh stiffness for spur gear with tooth tip chipping fault. <i>Mechanism and Machine Theory</i> , 2021 , 158, 104238	4	8
253	Autocorrelated Envelopes for early fault detection of rolling bearings. <i>Mechanical Systems and Signal Processing</i> , 2021 , 146, 106990	7.8	26

252	A Normalized Frequency-Domain Energy Operator for Broken Rotor Bar Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	9
251	Modelling Acoustic Emissions induced by dynamic fluid-asperity shearing in hydrodynamic lubrication regime. <i>Tribology International</i> , 2021 , 153, 106590	4.9	11
250	Analytical and experimental investigation of vibration characteristics induced by tribofilm-asperity interactions in hydrodynamic journal bearings. <i>Mechanical Systems and Signal Processing</i> , 2021 , 150, 107227	7.8	15
249	Vibration responses of rotor systems in diesel multiple units under dynamic spatial misalignments and base motions. <i>Journal of Sound and Vibration</i> , 2021 , 492, 115817	3.9	3
248	Model updating for rotor-discs system and its application in dynamic coefficients identification of journal bearings. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 173, 108645	4.6	3
247	A phase linearisation based modulation signal bispectrum for analysing cyclostationary bearing signals. <i>Structural Health Monitoring</i> , 2021 , 20, 1231-1246	4.4	6
246	A Comparative Study of Local Heat Treatment for Enhancing Overall Mechanical Properties of Clinched Joints. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 1347-1355	1.6	4
245	Wavelet Package Denoising of Acoustic Emission Signals for Lubrication Oil Monitoring in Engine Systems. <i>Mechanisms and Machine Science</i> , 2021 , 69-80	0.3	
244	Comparative Study of Vibration and Acoustic Emission Strategies Applied on Monitoring of Diesel Engine Fault. <i>Mechanisms and Machine Science</i> , 2021 , 310-319	0.3	
243	Helicopter Planet Bearing Fault Diagnosis Based on Modulation Signal Bispectrum Analysis. <i>Mechanisms and Machine Science</i> , 2021 , 784-797	0.3	
242	Vibration Signature Analysis for Broken Rotor Bar Diagnosis in Induction Motors Based on Cyclic Modulation Spectrum. <i>Mechanisms and Machine Science</i> , 2021 , 616-626	0.3	
241	Reciprocating Compressor Fault Diagnosis Based on Airborne Acoustic Signal: Comparison Study Between Modulation Signal Bi-spectrum and Teager Energy Spectrum Method. <i>Mechanisms and Machine Science</i> , 2021 , 683-699	0.3	
240	Spindle Status Monitoring and Fault Feature Information Acquisition Based on Rotor Sensing. <i>Mechanisms and Machine Science</i> , 2021 , 809-829	0.3	
239	Experimental Research on Additive-Manufacturing Metamaterials Applied to Vibration Mitigation. <i>Mechanisms and Machine Science</i> , 2021 , 23-28	0.3	1
238	Dynamic Models for Local Faults on Rolling Element Bearings: A Review. <i>Mechanisms and Machine Science</i> , 2021 , 217-227	0.3	
237	An Experiment Study of Acoustic Emission Generated by Dynamic Fluid Asperity Shearing. <i>Mechanisms and Machine Science</i> , 2021 , 14-22	0.3	
236	Hybrid model for the analysis of the modal properties of a ball screw vibration system. <i>Journal of Mechanical Science and Technology</i> , 2021 , 35, 461-470	1.6	4
235	Acoustics Based Monitoring and Diagnostics for the Progressive Deterioration of Helical Gearboxes. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021 , 34,	2.5	3

234	Optimal frequency band selection using blind and targeted features for spectral coherence-based bearing diagnostics: A comparative study. <i>ISA Transactions</i> , 2021 ,	5.5	7
233	Investigation Into Periodic Signal-Based Dithering Modulations for Suppression Sideband Vibro-Acoustics in PMSM Used by Electric Vehicles. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1787-1796	5.4	0
232	On-rotor electromagnetic energy harvester for powering a wireless condition monitoring system on bogie frames. <i>Energy Conversion and Management</i> , 2021 , 243, 114413	10.6	11
231	A review on online state of charge and state of health estimation for lithium-ion batteries in electric vehicles. <i>Energy Reports</i> , 2021 , 7, 5141-5161	4.6	21
230	Numerical Modelling of Vibration Responses of Helical Gears under Progressive Tooth Wear for Condition Monitoring. <i>Mathematics</i> , 2021 , 9, 213	2.3	5
229	A Numerical Analysis of Internal Radial Clearances on Affecting Vibration of Rolling Element Bearings with Local Defects. <i>Mechanisms and Machine Science</i> , 2021 , 1-13	0.3	
228	Vibration Based Virtual Sensing of Nitrogen Oxide Emission in CI Engines. <i>Mechanisms and Machine Science</i> , 2021 , 596-606	0.3	
227	Application of Teager Energy for Broken Rotor bar Fault Detection Based on the Motor Current Signature Analysis. <i>Mechanisms and Machine Science</i> , 2021 , 523-533	0.3	
226	An accurate instantaneous angular speed estimation method based on a dual detector setup. <i>Mechanical Systems and Signal Processing</i> , 2020 , 140, 106674	7.8	2
225	Locating Sensors in Large-Scale Engineering Systems for Fault Isolation Based on Fault Feature Reduction. <i>Journal of the Franklin Institute</i> , 2020 , 357, 8181-8202	4	6
224	Predicting the Dynamic Response of Dual-Rotor System Subject to Interval Parametric Uncertainties Based on the Non-Intrusive Metamodel. <i>Mathematics</i> , 2020 , 8, 736	2.3	9
223	Object-Based Thermal Image Segmentation for Fault Diagnosis of Reciprocating Compressors. <i>Sensors</i> , 2020 , 20,	3.8	9
222	Model Based IAS Analysis for Fault Detection and Diagnosis of IC Engine Powertrains. <i>Energies</i> , 2020 , 13, 565	3.1	4
221	Fault detection for planetary gearbox based on an enhanced average filter and modulation signal bispectrum analysis. <i>ISA Transactions</i> , 2020 , 101, 408-420	5.5	26
220	Online Bearing Clearance Monitoring Based on an Accurate Vibration Analysis. <i>Energies</i> , 2020 , 13, 389	3.1	17
219	A Novel Method for the Dynamic Coefficients Identification of Journal Bearings Using Kalman Filter. <i>Sensors</i> , 2020 , 20,	3.8	7
218	A Bearing Fault Diagnosis Using a Support Vector Machine Optimised by the Self-Regulating Particle Swarm. <i>Shock and Vibration</i> , 2020 , 2020, 1-11	1.1	3
217	Fault Diagnosis of Planetary Gearbox Based on Adaptive Order Bispectrum Slice and Fault Characteristics Energy Ratio Analysis. <i>Sensors</i> , 2020 , 20,	3.8	5

216	Field Identification of Dynamic Coefficients of Journal Bearings on Flexible Rotor-Bearing System. <i>Smart Innovation, Systems and Technologies, 2020, 1273-1284</i>	0.5	
215	Bond Graph Modelling for Condition Monitoring of Induction Motors. <i>Smart Innovation, Systems and Technologies, 2020, 511-523</i>	0.5	0
214	Operational Modal Analysis in the Presence of Pulse Train and Harmonics Based on SSI. <i>Smart Innovation, Systems and Technologies, 2020, 115-134</i>	0.5	0
213	Condition Monitoring of Reciprocating Compressor Based on Acoustic Imaging. <i>Smart Innovation, Systems and Technologies, 2020, 977-983</i>	0.5	1
212	Condition Monitoring of Lubricant Shortage for Gearboxes Based on Compressed Thermal Images. <i>Smart Innovation, Systems and Technologies, 2020, 927-938</i>	0.5	
211	Modulation Signal Bispectrum Based Monitoring of Tooth Surface Wear for Modification Spiral Bevel Gear. <i>Smart Innovation, Systems and Technologies, 2020, 717-729</i>	0.5	
210	A Componential Coding Neural Network Based Signal Modelling for Condition Monitoring. <i>Smart Innovation, Systems and Technologies, 2020, 559-572</i>	0.5	
209	Rolling Element Bearing Fault Diagnosis Based on the Wavelet Packet Transform and Time-Delay Correlation Demodulation Analysis. <i>Smart Innovation, Systems and Technologies, 2020, 1195-1203</i>	0.5	1
208	Modelling of Spur Gear Dynamic Behaviours with Tooth Surface Wear. <i>Smart Innovation, Systems and Technologies, 2020, 1437-1449</i>	0.5	1
207	Analysis of nonlinear vibration energy harvesters using a complex dynamic frequency method. <i>International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 1555-1562</i>	0.4	0
206	Envelope Ensemble Average of Largest Amplitude Impact Transients for Diagnosing Rolling Element Defects in Bearings. <i>Smart Innovation, Systems and Technologies, 2020, 1151-1162</i>	0.5	
205	Vibrations Based Lubricity Condition Monitoring of Journal Bearings. <i>Smart Innovation, Systems and Technologies, 2020, 883-892</i>	0.5	
204	Effect of Surface Wear on Friction of Spur Gears. <i>Smart Innovation, Systems and Technologies, 2020, 631-646</i>	0.5	0
203	Vibration Monitoring of the Gradual Worn in Journal Bearings. <i>Smart Innovation, Systems and Technologies, 2020, 597-607</i>	0.5	
202	An Evaluating Study of Using Thermal Imaging and Convolutional Neural Network for Fault Diagnosis of Reciprocating Compressors. <i>Smart Innovation, Systems and Technologies, 2020, 1495-1503</i>	0.5	1
201	Multiple-Model Fault Diagnosis Method for Gas Turbine Based on Soft Switch. <i>Smart Innovation, Systems and Technologies, 2020, 363-375</i>	0.5	1
200	An Investigation into the Sensor Placement of a Marine Engine Lubrication System for Condition Monitoring. <i>Smart Innovation, Systems and Technologies, 2020, 573-582</i>	0.5	2
199	Fault Diagnosis of Reciprocating Compressor Using Empirical Mode Decomposition-Based Teager Energy Spectrum of Airborne Acoustic Signal. <i>Smart Innovation, Systems and Technologies, 2020, 939-952</i>	0.5	3

198	Operational Modal Analysis of Y25 Bogie via Stochastic Subspace Identification for the Condition Monitoring of Primary Suspension Systems. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 166-181	0.4	2
197	Modulation Signal Bispectrum Analysis of Motor Current Signals for Condition Monitoring of Electromechanical Systems. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 566-581	0.4	2
196	Response analysis of an accelerating unbalanced rotating system with both random and interval variables. <i>Journal of Sound and Vibration</i> , 2020 , 466, 115047	3.9	56
195	Dynamics analysis of a hollow-shaft rotor system with an open crack under model uncertainties. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 83, 105102	3.7	11
194	Nonlinear vibration analysis of a rotor system with parallel and angular misalignments under uncertainty via a Legendre collocation approach. <i>International Journal of Mechanics and Materials in Design</i> , 2020 , 16, 557-568	2.5	8
193	An enhanced modulation signal bispectrum analysis for bearing fault detection based on non-Gaussian noise suppression. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 151, 107240	4.6	13
192	Vibration Characteristics of Rolling Element Bearings with Different Radial Clearances for Condition Monitoring of Wind Turbine. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4731	2.6	23
191	An investigation into tool dynamics adaptation for chatter stability enhancement in the turning of flexible workpieces. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 111, 3259-3271	3.2	1
190	The Enhancement of Weak Bearing Fault Signatures by Stochastic Resonance with a Novel Potential Function. <i>Energies</i> , 2020 , 13, 6348	3.1	1
189	Global orbit of a complicated nonlinear system with the global dynamic frequency method. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020 , 146134842091919	1.5	
188	Modeling a Mechanical Molecular Spring Isolator with High-Static-Low-Dynamic-Stiffness Properties. <i>Shock and Vibration</i> , 2020 , 2020, 1-9	1.1	2
187	Vibration Response of the Planetary Gears with a Float Sun Gear and Influences of the Dynamic Parameters. <i>Shock and Vibration</i> , 2020 , 2020, 1-17	1.1	1
186	Correlation signal subset-based stochastic subspace identification for an online identification of railway vehicle suspension systems. <i>Vehicle System Dynamics</i> , 2020 , 58, 569-589	2.8	5
185	. <i>IEEE Access</i> , 2020 , 8, 66228-66242	3.5	3
184	An Improved Cyclic Modulation Spectral Analysis Based on the CWT and Its Application on Broken Rotor Bar Fault Diagnosis for Induction Motors. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3902	2.6	16
183	A Novel Fault Detection Method for Rolling Bearings Based on Non-Stationary Vibration Signature Analysis. <i>Sensors</i> , 2019 , 19,	3.8	23
182	Monitoring nonstationary and dynamic trends for practical process fault diagnosis. <i>Control Engineering Practice</i> , 2019 , 84, 139-158	3.9	13
181	Self-piercing riveting of aluminium-titanium alloy sheet materials. <i>Journal of Materials Processing Technology</i> , 2019 , 268, 192-200	5.3	16

180	A Performance Evaluation of Two Bispectrum Analysis Methods Applied to Electrical Current Signals for Monitoring Induction Motor-Driven Systems. <i>Energies</i> , 2019 , 12, 1438	3.1	16
179	Fault Identification for a Closed-Loop Control System Based on an Improved Deep Neural Network. <i>Sensors</i> , 2019 , 19,	3.8	6
178	Fault feature extraction for rolling element bearing diagnosis based on a multi-stage noise reduction method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 139, 226-235	4.6	28
177	An Investigation into the Acoustic Emissions of Internal Combustion Engines with Modelling and Wavelet Package Analysis for Monitoring Lubrication Conditions. <i>Energies</i> , 2019 , 12, 640	3.1	9
176	An Approach to Reducing Input Parameter Volume for Fault Classifiers. <i>International Journal of Automation and Computing</i> , 2019 , 16, 199-212	3.5	1
175	An Introduction of a Robust OMA Method: CoS-SSI and Its Performance Evaluation through the Simulation and a Case Study. <i>Shock and Vibration</i> , 2019 , 2019, 1-14	1.1	5
174	Extraction of the largest amplitude impact transients for diagnosing rolling element defects in bearings. <i>Mechanical Systems and Signal Processing</i> , 2019 , 116, 796-815	7.8	9
173	Dynamic modeling and chatter analysis of a spindle-workpiece-tailstock system for the turning of flexible parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 3007-3015	3.2	9
172	Dynamic Modeling and Structural Optimization of a Bistable Electromagnetic Vibration Energy Harvester. <i>Energies</i> , 2019 , 12, 2410	3.1	4
171	Effect of foam copper interlayer on the mechanical properties and fretting wear of sandwich clinched joints. <i>Journal of Materials Processing Technology</i> , 2019 , 274, 116285	5.3	9
170	Monitoring Nonstationary Processes Using Stationary Subspace Analysis and Fractional Integration Order Estimation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6486-6504	3.9	9
169	Fault Identification of Broken Rotor Bars in Induction Motors Using an Improved Cyclic Modulation Spectral Analysis. <i>Energies</i> , 2019 , 12, 3279	3.1	16
168	Effects of Bounded Uncertainties on the Dynamic Characteristics of an Overhung Rotor System with Rubbing Fault. <i>Energies</i> , 2019 , 12, 4365	3.1	6
167	Modulation Sideband Separation Using the Teager-Kaiser Energy Operator for Rotor Fault Diagnostics of Induction Motors. <i>Energies</i> , 2019 , 12, 4437	3.1	9
166	Autocorrelation Ensemble Average of Larger Amplitude Impact Transients for the Fault Diagnosis of Rolling Element Bearings. <i>Energies</i> , 2019 , 12, 4740	3.1	1
165	The Influences of Gradual Wears and Bearing Clearance of Gear Transmission on Dynamic Responses. <i>Energies</i> , 2019 , 12, 4731	3.1	3
164	Motor Current Signal Analysis Based on Machine Learning for Centrifugal Pump Fault Diagnosis 2019 ,		3
163	Airborne Acoustic Signature Analysis for Fault Diagnosis of Reciprocating Compressors Using Modulation Signal Bi-spectrum 2019 ,		6

162	Broken Rotor Bar Detection Using Mathematical Morphology Based on Instantaneous Induction Motor Electrical Signals Analysis 2019 ,		1
161	Fault Diagnosis of Broken Rotor Bar in AC Induction Motor based on A Qualitative Simulation Approach 2019 ,		1
160	Exploiting Bayesian networks for fault isolation: A diagnostic case study of diesel fuel injection system. <i>ISA Transactions</i> , 2019 , 86, 276-286	5.5	14
159	Tribological behaviour diagnostic and fault detection of mechanical seals based on acoustic emission measurements. <i>Friction</i> , 2019 , 7, 572-586	5.6	6
158	Study on failure mechanism of mechanical clinching in aluminium sheet materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 96, 3057-3068	3.2	22
157	Modelling acoustic emissions generated by tribological behaviour of mechanical seals for condition monitoring and fault detection. <i>Tribology International</i> , 2018 , 125, 46-58	4.9	15
156	A robust detector for rolling element bearing condition monitoring based on the modulation signal bispectrum and its performance evaluation against the Kurtogram. <i>Mechanical Systems and Signal Processing</i> , 2018 , 100, 167-187	7.8	60
155	Characterizing acoustic emission signals for the online monitoring of a fluid magnetic abrasives finishing process. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018 , 232, 2079-2087	1.3	3
154	A Sparse Modulation Signal Bispectrum Analysis Method for Rolling Element Bearing Diagnosis. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-12	1.1	4
153	The influence of rolling bearing clearances on diagnostic signatures based on a numerical simulation and experimental evaluation. <i>International Journal of Hydromechatronics</i> , 2018 , 1, 16	4.2	12
152	Clinch-bonded hybrid joining for similar and dissimilar copper alloy, aluminium alloy and galvanised steel sheets. <i>Thin-Walled Structures</i> , 2018 , 131, 393-403	4.7	27
151	Model-based chatter stability prediction and detection for the turning of a flexible workpiece. <i>Mechanical Systems and Signal Processing</i> , 2018 , 100, 814-826	7.8	39
150	A Gas Path Fault Contribution Matrix for Marine Gas Turbine Diagnosis Based on a Multiple Model Fault Detection and Isolation Approach. <i>Energies</i> , 2018 , 11, 3316	3.1	5
149	A Review on Energy Harvesting Supplying Wireless Sensor Nodes for Machine Condition Monitoring 2018 ,		2
148	Empirical Mode Decomposition of Motor Current Signatures for Centrifugal Pump Diagnostics 2018 ,		3
147	Detection and Diagnosis of Centrifugal Pump Bearing Faults Based on the Envelope Analysis of Airborne Sound Signals 2018 ,		3
146	Energy Harvesting Technologies for Achieving Self-Powered Wireless Sensor Networks in Machine Condition Monitoring: A Review. <i>Sensors</i> , 2018 , 18,	3.8	90
145	Early Fault Diagnosis for Planetary Gearbox Based Wavelet Packet Energy and Modulation Signal Bispectrum Analysis. <i>Sensors</i> , 2018 , 18,	3.8	22

144	Diagnosing Lubricant Shortages in Gearboxes Using Instantaneous Phases from Electrical Signals 2018,		2
143	Effect of friction coefficients on the dynamic response of gear systems. <i>Frontiers of Mechanical Engineering</i> , 2017 , 12, 397-405	3.3	4
142	Fretting behavior of self-piercing riveted joints in titanium sheet materials. <i>Journal of Materials Processing Technology</i> , 2017 , 249, 246-254	5.3	14
141	Gear wear monitoring by modulation signal bispectrum based on motor current signal analysis. <i>Mechanical Systems and Signal Processing</i> , 2017 , 94, 202-213	7.8	60
140	Fault detection of rolling element bearings using the frequency shift and envelope based compressive sensing 2017,		2
139	Fault diagnosis of centrifugal pumps based on the intrinsic time-scale decomposition of motor current signals 2017,		4
138	An Improved Multiobjective Particle Swarm Optimization Algorithm Using Minimum Distance of Point to Line. <i>Shock and Vibration</i> , 2017 , 2017, 1-16	1.1	4
137	Investigation of reductions in motor efficiency and power factor caused by stator faults when operated from an inverter drive under open loop and sensorless vector modes. <i>Systems Science and Control Engineering</i> , 2017 , 5, 361-379	2	4
136	Investigation into the Vibrational Responses of Cylinder Liners in an IC Engine Fueled with Biodiesel. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 717	2.6	7
135	Helical gear wear monitoring: Modelling and experimental validation. <i>Mechanism and Machine Theory</i> , 2017 , 117, 210-229	4	40
134	Investigation into the dynamic response of cylinder liners in an IC engine based on a validated finite-element model. <i>Systems Science and Control Engineering</i> , 2017 , 5, 56-69	2	4
133	Modulation signal bispectrum analysis of electric signals for the detection and diagnosis of compound faults in induction motors with sensorless drives. <i>Systems Science and Control Engineering</i> , 2017 , 5, 252-267	2	6
132	Influence of heat treatment on mechanical properties of clinched joints in titanium alloy sheets. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 3349-3361	3.2	15
131	Monitoring gearbox using a wireless temperature node powered by thermal energy harvesting module 2017,		3
130	Early detection of rolling bearing faults using an auto-correlated envelope ensemble average 2017,		1
129	Planetary gear fault diagnosis based on instantaneous angular speed analysis 2017,		5
128	The validation of an ACS-SSI based online condition monitoring for railway vehicle suspension systems using a SIMPACK model 2017,		2
127	Wavelet packet analysis and empirical mode decomposition for the fault diagnosis of reciprocating compressors 2017,		4

126	The identification of shaft current induced defects on rolling bearings in wind turbine generators 2017 ,		1
125	An Improved Lubrication Model between Piston Rings and Cylinder Liners with Consideration of Liner Dynamic Deformations. <i>Energies</i> , 2017 , 10, 2122	3.1	7
124	Gear Wear Process Monitoring Using a Sideband Estimator Based on Modulation Signal Bispectrum. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 274	2.6	21
123	Investigation of reductions in motor efficiency caused by stator faults when operated from an inverter drive 2016 ,		1
122	Detection and diagnosis of compound faults in induction motors using electric signals from variable speed drives 2016 ,		6
121	An investigation of electrical motor parameters in a sensorless variable speed drive for machine fault diagnosis 2016 ,		3
120	An investigation of the orthogonal outputs from an on-rotor MEMS accelerometer for reciprocating compressor condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2016 , 76-77, 228-241	7.8	24
119	Influence of heat treatment on fatigue performances for self-piercing riveting similar and dissimilar titanium, aluminium and copper alloys. <i>Materials and Design</i> , 2016 , 97, 108-117	8.1	25
118	Modelling, Testing and Analysis of a Regenerative Hydraulic Shock Absorber System. <i>Energies</i> , 2016 , 9, 386	3.1	26
117	Frictional effects on the dynamic responses of gear systems and the diagnostics of tooth breakages. <i>Systems Science and Control Engineering</i> , 2016 , 4, 270-284	2	5
116	Implementation of envelope analysis on a wireless condition monitoring system for bearing fault diagnosis. <i>International Journal of Automation and Computing</i> , 2015 , 12, 14-24	3.5	17
115	Combustion Noise Analysis for Combustion and Fuels Diagnosis of a Compression Ignition Diesel Engine Operating with Biodiesels. <i>Combustion Science and Technology</i> , 2015 , 187, 1974-1992	1.5	2
114	The detection of lubricating oil viscosity changes in gearbox transmission systems driven by sensorless variable speed drives using electrical supply parameters. <i>Journal of Physics: Conference Series</i> , 2015 , 628, 012078	0.3	1
113	Influence of sheet thickness on fatigue behavior and fretting of self-piercing riveted joints in aluminum alloy 5052. <i>Materials and Design</i> , 2015 , 87, 1010-1017	8.1	37
112	A new method of accurate broken rotor bar diagnosis based on modulation signal bispectrum analysis of motor current signals. <i>Mechanical Systems and Signal Processing</i> , 2015 , 50-51, 400-413	7.8	79
111	A novel procedure for diagnosing multiple faults in rotating machinery. <i>ISA Transactions</i> , 2015 , 55, 208-185	3.5	42
110	Self-piercing riveting of similar and dissimilar metal sheets of aluminum alloy and copper alloy. <i>Materials & Design</i> , 2015 , 65, 923-933		53
109	The Detection of Shaft Misalignments Using Motor Current Signals from a Sensorless Variable Speed Drive. <i>Mechanisms and Machine Science</i> , 2015 , 173-182	0.3	1

108	An investigation of a hypocycloid mechanism based twin-rotor piston engine. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015 , 229, 106-115	1.3	4
107	Achieving high bit rate logical stochastic resonance in a bistable system by adjusting parameters. <i>Chinese Physics B</i> , 2015 , 24, 110502	1.2	4
106	An Improved Optimal Slip Ratio Prediction considering Tyre Inflation Pressure Changes. <i>Journal of Control Science and Engineering</i> , 2015 , 2015, 1-8	1.2	5
105	Characterizing the Dynamic Response of a Chassis Frame in a Heavy-Duty Dump Vehicle Based on an Improved Stochastic System Identification. <i>Shock and Vibration</i> , 2015 , 2015, 1-15	1.1	5
104	Modeling the Relationship between Vibration Features and Condition Parameters Using Relevance Vector Machines for Health Monitoring of Rolling Element Bearings under Varying Operation Conditions. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-10	1.1	7
103	Self-piercing riveting of similar and dissimilar titanium sheet materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 80, 2105-2115	3.2	30
102	Vehicle Suspension Performance Analysis Based on Full Vehicle Model for Condition Monitoring Development. <i>Mechanisms and Machine Science</i> , 2015 , 495-505	0.3	
101	Diagnosis of combination faults in a planetary gearbox using a modulation signal bispectrum based sideband estimator 2015 ,		5
100	Investigation of motor current signature analysis to detect motor resistance imbalances 2015 ,		1
99	Characterisation of acoustic emissions for the frictional effect in engines using wavelets based multi-resolution analysis 2015 ,		6
98	A study of diagnostic signatures of a deep groove ball bearing based on a nonlinear dynamic model 2015 ,		3
97	Detection and diagnosis of motor stator faults using electric signals from variable speed drives 2015 ,		4
96	Investigation of Motor Current Signature Analysis in Detecting Unbalanced Motor Windings of an Induction Motor with Sensorless Vector Control Drive. <i>Mechanisms and Machine Science</i> , 2015 , 801-810	0.3	4
95	Mechanical properties of extensible die clinched joints in titanium sheet materials. <i>Materials & Design</i> , 2015 , 71, 26-35		79
94	A Novel Method to Improve the Resolution of Envelope Spectrum for Bearing Fault Diagnosis Based on a Wireless Sensor Node. <i>Mechanisms and Machine Science</i> , 2015 , 765-775	0.3	2
93	A Weak Signal Detection Method Based on Stochastic Resonances and Its Application to the Fault Diagnosis of Critical Mechanical Components. <i>Decision Engineering</i> , 2015 , 95-114	0.1	1
92	A review of numerical analysis of friction stir welding. <i>Progress in Materials Science</i> , 2014 , 65, 1-66	42.2	299
91	Numerical and experimental investigations of extensible die clinching. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 74, 1229-1236	3.2	63

90	Fault diagnosis of reciprocating compressors using relevance vector machines with a genetic algorithm based on vibration data 2014 ,		5
89	The recovery of weak impulsive signals based on stochastic resonance and moving least squares fitting. <i>Sensors</i> , 2014 , 14, 13692-707	3.8	10
88	Emission Characteristics of a CI Engine Running with a Range of Biodiesel Feedstocks. <i>Energies</i> , 2014 , 7, 334-350	3.1	48
87	Modelling and validation of a regenerative shock absorber system 2014 ,		5
86	A study of the suspension system for the diagnosis of dynamic characteristics 2014 ,		3
85	Prediction and Analysis of Engine Friction Power of a Diesel Engine Influenced by Engine Speed, Load, and Lubricant Viscosity. <i>Advances in Tribology</i> , 2014 , 2014, 1-9	1.6	5
84	Investigations of strength and energy absorption of clinched joints. <i>Computational Materials Science</i> , 2014 , 94, 58-65	3.2	75
83	Numerical and experimental investigations of self-piercing riveting. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 69, 715-721	3.2	30
82	Novelty detection methods for online health monitoring and post data analysis of turbopumps. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 1933-1942	1.6	7
81	Thermal image enhancement using bi-dimensional empirical mode decomposition in combination with relevance vector machine for rotating machinery fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2013 , 38, 601-614	7.8	84
80	Fault diagnosis of motor drives using stator current signal analysis based on dynamic time warping. <i>Mechanical Systems and Signal Processing</i> , 2013 , 34, 191-202	7.8	55
79	LHV predication models and LHV effect on the performance of CI engine running with biodiesel blends. <i>Energy Conversion and Management</i> , 2013 , 71, 217-226	10.6	31
78	Combustion and performance characteristics of CI (compression ignition) engine running with biodiesel. <i>Energy</i> , 2013 , 51, 101-115	7.9	111
77	Acoustic measurements for the combustion diagnosis of diesel engines fuelled with biodiesels. <i>Measurement Science and Technology</i> , 2013 , 24, 055005	2	6
76	Fatigue Behaviour of Fastening Joints of Sheet Materials and Finite Element Analysis. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 658219	1.2	8
75	A Study of Motor Bearing Fault Diagnosis using Modulation Signal Bispectrum Analysis of Motor Current Signals. <i>Journal of Signal and Information Processing</i> , 2013 , 04, 72-79	0.6	9
74	Water injection effects on the performance and emission characteristics of a CI engine operating with biodiesel. <i>Renewable Energy</i> , 2012 , 37, 333-344	8.1	99
73	Recent development in finite element analysis of self-piercing riveted joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 58, 643-649	3.2	50

72	Two Stage Helical Gearbox Fault Detection and Diagnosis based on Continuous Wavelet Transformation of Time Synchronous Averaged Vibration Signals. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012083	0.3	4
71	Phase-compensation-based dynamic time warping for fault diagnosis using the motor current signal. <i>Measurement Science and Technology</i> , 2012 , 23, 055601	2	7
70	A clamping force measurement system for monitoring the condition of bolted joints on railway track joints and points. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012021	0.3	2
69	Application of novelty detection methods to health monitoring and typical fault diagnosis of a turbopump. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012128	0.3	3
68	Enhancement detection of characteristic signal using stochastic resonance by adding a harmonic excitation. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012046	0.3	2
67	Fault detection and diagnosis using Principal Component Analysis of vibration data from a reciprocating compressor 2012 ,		29
66	Modern techniques for condition monitoring of railway vehicle dynamics. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012016	0.3	50
65	Diagnosis of Centrifugal Pump Faults Using Vibration Methods. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012139	0.3	12
64	Fault Detection of Reciprocating Compressors using a Model from Principles Component Analysis of Vibrations. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012133	0.3	8
63	An investigation of the acoustic characteristics of a compression ignition engine operating with biodiesel blends. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012015	0.3	7
62	Stability Analysis of a Turbocharger Rotor System Supported on Floating Ring Bearings. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012032	0.3	5
61	Electrical Motor Current Signal Analysis using a Modulation Signal Bispectrum for the Fault Diagnosis of a Gearbox Downstream. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012050	0.3	4
60	A Comparative Study of the Monitoring of a Self Aligning Spherical Journal using Surface Vibration, Airborne Sound and Acoustic Emission. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012035	0.3	2
59	Bearing defect detection and diagnosis using a time encoded signal processing and pattern recognition method. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012036	0.3	0
58	A Comparison of Different Techniques for Induction Motor Rotor Fault Diagnosis. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012066	0.3	17
57	Modelling and simulation of dynamic wheel-rail interaction using a roller rig. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012060	0.3	1
56	A comparative study of misalignment detection using a novel Wireless Sensor with conventional Wired Sensors. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012049	0.3	10
55	Application of Phase Space Warping on Damage Tracking for Bearing Fault. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012025	0.3	4

54	Gear Transmission Fault Diagnosis Based on the Bispectrum Analysis of Induction Motor Current Signatures. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2012 , 48, 84	1.3	19
53	Gear Fault Signal Detection based on an Adaptive Fractional Fourier Transform Filter. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012022	0.3	3
52	PITTING DAMAGE LEVELS ESTIMATION FOR PLANETARY GEAR SETS BASED ON MODEL SIMULATION AND GREY RELATIONAL ANALYSIS. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2011 , 35, 403-417	1.1	30
51	Feature Selection and Fault Classification of Reciprocating Compressors using a Genetic Algorithm and a Probabilistic Neural Network. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012112	0.3	5
50	Fault Prognosis and Diagnosis of an Automotive Rear Axle Gear Using a RBF-BP Neural Network. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012063	0.3	7
49	Electrical Motor Current Signal Analysis using a Dynamic Time Warping Method for Fault Diagnosis. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012093	0.3	2
48	Modelling of Outer and Inner Film Oil Pressure for Floating Ring Bearing Clearance in Turbochargers. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012021	0.3	3
47	Electrical motor current signal analysis using a modified bispectrum for fault diagnosis of downstream mechanical equipment. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 360-372	7.8	85
46	A Novel Transform Demodulation Algorithm for Motor Incipient Fault Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 480-487	5.2	29
45	Predictive control strategies used to solve challenges related to modern railway vehicles 2011 ,		2
44	A novel feature selection algorithm for high-dimensional condition monitoring data. <i>International Journal of Condition Monitoring</i> , 2011 , 1, 33-43	0.1	1
43	Turbopump Condition Monitoring Using Incremental Clustering and One-class Support Vector Machine. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2011 , 24, 474	2.5	2
42	Emission Behavior of a CI Engine Running by Biodiesel under Transient Conditions 2010 ,		2
41	Diesel engine fuel injection monitoring using acoustic measurements and independent component analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2010 , 43, 1376-1386	4.6	88
40	Prediction of antilock braking system condition with the vehicle stationary using a model-based approach. <i>International Journal of Automotive Technology</i> , 2010 , 11, 363-373	1.6	1
39	Prediction models for density and viscosity of biodiesel and their effects on fuel supply system in CI engines. <i>Renewable Energy</i> , 2010 , 35, 2752-2760	8.1	130
38	Modelling acoustic emissions generated by sliding friction. <i>Wear</i> , 2010 , 268, 811-815	3.5	49
37	Application of novel polar representation method for monitoring minor engine condition variations. <i>Mechanical Systems and Signal Processing</i> , 2010 , 24, 841-843	7.8	10

36	Acoustic monitoring of engine fuel injection based on adaptive filtering techniques. <i>Applied Acoustics</i> , 2010 , 71, 1132-1141	3.1	41
35	Diesel Engine Valve Clearance Detection Using Acoustic Emission. <i>Advances in Mechanical Engineering</i> , 2010 , 2, 495741	1.2	20
34	Instantaneous angular speed and power for the diagnosis of single-stage, double-acting reciprocating compressor. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2009 , 223, 95-114	1.4	3
33	Bispectrum of stator phase current for fault detection of induction motor. <i>ISA Transactions</i> , 2009 , 48, 378-82	5.5	17
32	Detecting the crankshaft torsional vibration of diesel engines for combustion related diagnosis. <i>Journal of Sound and Vibration</i> , 2009 , 321, 1171-1185	3.9	86
31	Instantaneous phase variation (IPV) for rotor bar fault detection and diagnosis 2008 ,		2
30	Monitoring of diesel engine combustions based on the acoustic source characterisation of the exhaust system. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 1465-1480	7.8	36
29	Numerical simulation and experimental study of a two-stage reciprocating compressor for condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 374-389	7.8	91
28	Integration of multiple platforms for real-time remote model-based condition monitoring. <i>Computers in Industry</i> , 2007 , 58, 531-538	11.6	4
27	Internal combustion engine lubricating oil condition monitoring based on vibro-acoustic measurements. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2007 , 49, 715-718	1.3	9
26	A Hybrid Model with a Weighted Voting Scheme for Feature Selection in Machinery Condition Monitoring 2007 ,		1
25	An Investigation Into the Control of the Combustion Instability Using Acoustic Resonator for a Jet Engine 2006 , 1531		
24	Automatic Fault Detection Using a Model-Based Approach in the Frequency Domain 2006 , 849		
23	Detection of engine valve faults by vibration signals measured on the cylinder head. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2006 , 220, 379-386	1.4	27
22	An investigation of the effects of measurement noise in the use of instantaneous angular speed for machine diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 1444-1460	7.8	68
21	A validated model for the prediction of rotor bar failure in squirrel-cage motors using instantaneous angular speed. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 1572-1589	7.8	33
20	The measurement of instantaneous angular speed. <i>Mechanical Systems and Signal Processing</i> , 2005 , 19, 786-805	7.8	109
19	The development of an adaptive threshold for model-based fault detection of a nonlinear electro-hydraulic system. <i>Control Engineering Practice</i> , 2005 , 13, 1357-1367	3.9	63

18	Instantaneous angular speed monitoring of electric motors. <i>Journal of Quality in Maintenance Engineering</i> , 2004 , 10, 123-135	1.1	18
17	Componential coding in the condition monitoring of electrical machines Part 2: Application to a conventional machine and a novel machine. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2003 , 217, 901-915	1.3	1
16	Componential coding in the condition monitoring of electrical machines Part 1: Principles and illustrations using simulated typical faults. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2003 , 217, 883-899	1.3	2
15	A Novel Electrostatic Method of Ultrafine PM Control Suitable for Low Exhaust Temperature Applications 2003 ,		2
14	Gear tooth stiffness reduction measurement using modal analysis and its use in wear fault severity assessment of spur gears. <i>NDT and E International</i> , 2003 , 36, 357-372	4.1	55
13	Acoustic based condition monitoring of a diesel engine using self-organising map networks. <i>Applied Acoustics</i> , 2002 , 63, 699-711	3.1	17
12	The on-line detection of engine misfire at low speed using multiple feature fusion with fuzzy pattern recognition. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2002 , 216, 391-402	1.4	11
11	A STUDY OF THE NOISE FROM DIESEL ENGINES USING THE INDEPENDENT COMPONENT ANALYSIS. <i>Mechanical Systems and Signal Processing</i> , 2001 , 15, 1165-1184	7.8	71
10	The Exploitation of Instantaneous Angular Speed for Condition Monitoring of Electric Motors 2001 , 311-318		12
9	The Condition Monitoring of Diesel Engines Using Acoustic Measurements Part 2: Fault Detection and Diagnosis 2000 ,		17
8	The Condition Monitoring of Diesel Engines Using Acoustic Measurements Part 1: Acoustic Characteristics of the Engine and Representation of the Acoustic Signals 2000 ,		21
7	Orthogonal On-Rotor Sensing Vibrations for Condition Monitoring of Rotating Machines		5
6	Modulation signal bispectrum with optimized wavelet packet denoising for rolling bearing fault diagnosis. <i>Structural Health Monitoring</i> ,147592172110182	4.4	6
5	Extraction of local and global features by a convolutional neural network with short-term memory network for diagnosing bearing faults. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> ,095440622110165	1.3	1
4	A multi-objective flexible job-shop cell scheduling problem with sequence-dependent family setup times and intercellular transportation by improved NSGA-II. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> ,095440542110446	2.4	4
3	A Triboelectric Piston-Cylinder Assembly with Condition-Monitoring and Self-Powering Capabilities. <i>Energy Technology</i> ,2200014	3.5	
2	An iterative morphological difference product wavelet for weak fault feature extraction in rolling bearing fault diagnosis. <i>Structural Health Monitoring</i> ,147592172210863	4.4	1
1	A Modulation Signal Bispectrum Enhanced Squared Envelope for the detection and diagnosis of compound epicyclic gear faults. <i>Structural Health Monitoring</i> ,147592172210985	4.4	0

