

Fengshou Gu

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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.

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	A review of numerical analysis of friction stir welding. <i>Progress in Materials Science</i> , 2014 , 65, 1-66	42.2	299
268	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
267	Combustion and performance characteristics of CI (compression ignition) engine running with biodiesel. <i>Energy</i> , 2013 , 51, 101-115	7.9	111
266	The measurement of instantaneous angular speed. <i>Mechanical Systems and Signal Processing</i> , 2005 , 19, 786-805	7.8	109
265	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
264	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
263	Energy Harvesting Technologies for Achieving Self-Powered Wireless Sensor Networks in Machine Condition Monitoring: A Review. <i>Sensors</i> , 2018 , 18,	3.8	90
262	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
261	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
260	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
259	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
258	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
257	Mechanical properties of extensible die clinched joints in titanium sheet materials. <i>Materials & Design</i> , 2015 , 71, 26-35		79
256	Investigations of strength and energy absorption of clinched joints. <i>Computational Materials Science</i> , 2014 , 94, 58-65	3.2	75
255	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
254	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
253	Numerical and experimental investigations of extensible die clinching. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 74, 1229-1236	3.2	63

252	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
251	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
250	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
249	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
248	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
247	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
246	Self-piercing riveting of similar and dissimilar metal sheets of aluminum alloy and copper alloy. <i>Materials & Design</i> , 2015 , 65, 923-933		53
245	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
244	Modern techniques for condition monitoring of railway vehicle dynamics. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012016	0.3	50
243	Modelling acoustic emissions generated by sliding friction. <i>Wear</i> , 2010 , 268, 811-815	3.5	49
242	Emission Characteristics of a CI Engine Running with a Range of Biodiesel Feedstocks. <i>Energies</i> , 2014 , 7, 334-350	3.1	48
241	A novel procedure for diagnosing multiple faults in rotating machinery. <i>ISA Transactions</i> , 2015 , 55, 208-185	3.5	42
240	Acoustic monitoring of engine fuel injection based on adaptive filtering techniques. <i>Applied Acoustics</i> , 2010 , 71, 1132-1141	3.1	41
239	Helical gear wear monitoring: Modelling and experimental validation. <i>Mechanism and Machine Theory</i> , 2017 , 117, 210-229	4	40
238	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
237	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
236	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
235	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

234	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
233	Numerical and experimental investigations of self-piercing riveting. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 69, 715-721	3.2	30
232	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
231	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
230	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
229	Fault detection and diagnosis using Principal Component Analysis of vibration data from a reciprocating compressor 2012 ,		29
228	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
227	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
226	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
225	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
224	Modelling, Testing and Analysis of a Regenerative Hydraulic Shock Absorber System. <i>Energies</i> , 2016 , 9, 386	3.1	26
223	Autocorrelated Envelopes for early fault detection of rolling bearings. <i>Mechanical Systems and Signal Processing</i> , 2021 , 146, 106990	7.8	26
222	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
221	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
220	A Novel Fault Detection Method for Rolling Bearings Based on Non-Stationary Vibration Signature Analysis. <i>Sensors</i> , 2019 , 19,	3.8	23
219	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
218	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
217	Early Fault Diagnosis for Planetary Gearbox Based Wavelet Packet Energy and Modulation Signal Bispectrum Analysis. <i>Sensors</i> , 2018 , 18,	3.8	22

216	Gear Wear Process Monitoring Using a Sideband Estimator Based on Modulation Signal Bispectrum. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 274	2.6	21
215	The Condition Monitoring of Diesel Engines Using Acoustic Measurements Part 1: Acoustic Characteristics of the Engine and Representation of the Acoustic Signals 2000 ,		21
214	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
213	Diesel Engine Valve Clearance Detection Using Acoustic Emission. <i>Advances in Mechanical Engineering</i> , 2010 , 2, 495741	1.2	20
212	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
211	Instantaneous angular speed monitoring of electric motors. <i>Journal of Quality in Maintenance Engineering</i> , 2004 , 10, 123-135	1.1	18
210	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
209	Online Bearing Clearance Monitoring Based on an Accurate Vibration Analysis. <i>Energies</i> , 2020 , 13, 389	3.1	17
208	Bispectrum of stator phase current for fault detection of induction motor. <i>ISA Transactions</i> , 2009 , 48, 378-82	5.5	17
207	A Comparison of Different Techniques for Induction Motor Rotor Fault Diagnosis. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012066	0.3	17
206	Acoustic based condition monitoring of a diesel engine using self-organising map networks. <i>Applied Acoustics</i> , 2002 , 63, 699-711	3.1	17
205	The Condition Monitoring of Diesel Engines Using Acoustic Measurements Part 2: Fault Detection and Diagnosis 2000 ,		17
204	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
203	Self-piercing riveting of aluminium-lithium alloy sheet materials. <i>Journal of Materials Processing Technology</i> , 2019 , 268, 192-200	5.3	16
202	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
201	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
200	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
199	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

198	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
197	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
196	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
195	Monitoring nonstationary and dynamic trends for practical process fault diagnosis. <i>Control Engineering Practice</i> , 2019 , 84, 139-158	3.9	13
194	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
193	The influence of rolling bearing clearances on diagnostic signatures based on a numerical simulation and experimental evaluation. <i>International Journal of Hydromechanics</i> , 2018 , 1, 16	4.2	12
192	Diagnosis of Centrifugal Pump Faults Using Vibration Methods. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012139	0.3	12
191	The Exploitation of Instantaneous Angular Speed for Condition Monitoring of Electric Motors 2001 , 311-318		12
190	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
189	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
188	Modelling Acoustic Emissions induced by dynamic fluid-asperity shearing in hydrodynamic lubrication regime. <i>Tribology International</i> , 2021 , 153, 106590	4.9	11
187	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
186	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
185	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
184	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
183	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
182	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
181	Object-Based Thermal Image Segmentation for Fault Diagnosis of Reciprocating Compressors. <i>Sensors</i> , 2020 , 20,	3.8	9

180	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
179	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
178	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
177	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
176	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
175	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
174	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
173	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
172	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
171	Fatigue Behaviour of Fastening Joints of Sheet Materials and Finite Element Analysis. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 658219	1.2	8
170	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
169	Evaluation model of mesh stiffness for spur gear with tooth tip chipping fault. <i>Mechanism and Machine Theory</i> , 2021 , 158, 104238	4	8
168	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
167	A Novel Method for the Dynamic Coefficients Identification of Journal Bearings Using Kalman Filter. <i>Sensors</i> , 2020 , 20,	3.8	7
166	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
165	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
164	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
163	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

162	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
161	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
160	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
159	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
158	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
157	Fault Identification for a Closed-Loop Control System Based on an Improved Deep Neural Network. <i>Sensors</i> , 2019 , 19,	3.8	6
156	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
155	Detection and diagnosis of compound faults in induction motors using electric signals from variable speed drives 2016 ,		6
154	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
153	Characterisation of acoustic emissions for the frictional effect in engines using wavelets based multi-resolution analysis 2015 ,		6
152	Acoustic measurements for the combustion diagnosis of diesel engines fuelled with biodiesels. <i>Measurement Science and Technology</i> , 2013 , 24, 055005	2	6
151	Modulation signal bispectrum with optimized wavelet packet denoising for rolling bearing fault diagnosis. <i>Structural Health Monitoring</i> ,147592172110182	4.4	6
150	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
149	Airborne Acoustic Signature Analysis for Fault Diagnosis of Reciprocating Compressors Using Modulation Signal Bi-spectrum 2019 ,		6
148	Tribological behaviour diagnostic and fault detection of mechanical seals based on acoustic emission measurements. <i>Friction</i> , 2019 , 7, 572-586	5.6	6
147	A phase linearisationBased modulation signal bispectrum for analysing cyclostationary bearing signals. <i>Structural Health Monitoring</i> , 2021 , 20, 1231-1246	4.4	6
146	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
145	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

144	Planetary gear fault diagnosis based on instantaneous angular speed analysis 2017 ,		5
143	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
142	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
141	Diagnosis of combination faults in a planetary gearbox using a modulation signal bispectrum based sideband estimator 2015 ,		5
140	Fault diagnosis of reciprocating compressors using relevance vector machines with a genetic algorithm based on vibration data 2014 ,		5
139	Modelling and validation of a regenerative shock absorber system 2014 ,		5
138	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
137	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
136	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
135	Orthogonal On-Rotor Sensing Vibrations for Condition Monitoring of Rotating Machines		5
134	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
133	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
132	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
131	Numerical Modelling of Vibration Responses of Helical Gears under Progressive Tooth Wear for Condition Monitoring. <i>Mathematics</i> , 2021 , 9, 213	2.3	5
130	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
129	Effect of friction coefficients on the dynamic response of gear systems. <i>Frontiers of Mechanical Engineering</i> , 2017 , 12, 397-405	3.3	4
128	Fault diagnosis of centrifugal pumps based on the intrinsic time-scale decomposition of motor current signals 2017 ,		4
127	Model Based IAS Analysis for Fault Detection and Diagnosis of IC Engine Powertrains. <i>Energies</i> , 2020 , 13, 565	3.1	4

126	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
125	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
124	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
123	Dynamic Modeling and Structural Optimization of a Bistable Electromagnetic Vibration Energy Harvester. <i>Energies</i> , 2019 , 12, 2410	3.1	4
122	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
121	Wavelet packet analysis and empirical mode decomposition for the fault diagnosis of reciprocating compressors 2017 ,		4
120	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}	1.3	4
119	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
118	Detection and diagnosis of motor stator faults using electric signals from variable speed drives 2015 ,		4
117	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
116	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
115	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
114	Application of Phase Space Warping on Damage Tracking for Bearing Fault. <i>Journal of Physics: Conference Series</i> , 2012 , 364, 012025	0.3	4
113	Integration of multiple platforms for real-time remote model-based condition monitoring. <i>Computers in Industry</i> , 2007 , 58, 531-538	11.6	4
112	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
111	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
110	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
109	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

108	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
107	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
106	An investigation of electrical motor parameters in a sensorless variable speed drive for machine fault diagnosis 2016 ,		3
105	Monitoring gearbox using a wireless temperature node powered by thermal energy harvesting module 2017 ,		3
104	A study of diagnostic signatures of a deep groove ball bearing based on a nonlinear dynamic model 2015 ,		3
103	A study of the suspension system for the diagnosis of dynamic characteristics 2014 ,		3
102	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
101	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
100	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
99	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
98	Gear Health Monitoring and RUL Prediction Based on MSB Analysis. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	3
97	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
96	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
95	Fault Diagnosis of Reciprocating Compressor Using Empirical Mode Decomposition-Based Teager Energy Spectrum of Airborne Acoustic Signal. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 939-952 ^{0.5}		3
94	The Influences of Gradual Wears and Bearing Clearance of Gear Transmission on Dynamic Responses. <i>Energies</i> , 2019 , 12, 4731	3.1	3
93	Motor Current Signal Analysis Based on Machine Learning for Centrifugal Pump Fault Diagnosis 2019 ,		3
92	. <i>IEEE Access</i> , 2020 , 8, 66228-66242	3.5	3
91	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

90	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
89	Empirical Mode Decomposition of Motor Current Signatures for Centrifugal Pump Diagnostics 2018 ,		3
88	Detection and Diagnosis of Centrifugal Pump Bearing Faults Based on the Envelope Analysis of Airborne Sound Signals 2018 ,		3
87	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
86	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
85	Fault detection of rolling element bearings using the frequency shift and envelope based compressive sensing 2017 ,		2
84	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
83	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
82	The validation of an ACS-SSI based online condition monitoring for railway vehicle suspension systems using a SIMPACK model 2017 ,		2
81	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
80	Emission Behavior of a CI Engine Running by Biodiesel under Transient Conditions 2010 ,		2
79	Predictive control strategies used to solve challenges related to modern railway vehicles 2011 ,		2
78	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
77	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
76	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
75	Instantaneous phase variation (IPV) for rotor bar fault detection and diagnosis 2008 ,		2
74	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
73	A Novel Electrostatic Method of Ultrafine PM Control Suitable for Low Exhaust Temperature Applications 2003 ,		2

72	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
71	An Investigation into the Sensor Placement of a Marine Engine Lubrication System for Condition Monitoring. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 573-582	0.5	2
70	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
69	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
68	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
67	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
66	A Review on Energy Harvesting Supplying Wireless Sensor Nodes for Machine Condition Monitoring 2018 ,		2
65	Diagnosing Lubricant Shortages in Gearboxes Using Instantaneous Phases from Electrical Signals 2018 ,		2
64	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
63	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
62	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
61	Investigation of reductions in motor efficiency caused by stator faults when operated from an inverter drive 2016 ,		1
60	Early detection of rolling bearing faults using an auto-correlated envelope ensemble average 2017 ,		1
59	The identification of shaft current induced defects on rolling bearings in wind turbine generators 2017 ,		1
58	Investigation of motor current signature analysis to detect motor resistance imbalances 2015 ,		1
57	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
56	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
55	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

54	A Hybrid Model with a Weighted Voting Scheme for Feature Selection in Machinery Condition Monitoring 2007 ,		1
53	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
52	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
51	Condition Monitoring of Reciprocating Compressor Based on Acoustic Imaging. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 977-983	0.5	1
50	Rolling Element Bearing Fault Diagnosis Based on the Wavelet Packet Transform and Time-Delay Correlation Demodulation Analysis. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 1195-1203	0.5	1
49	Modelling of Spur Gear Dynamic Behaviours with Tooth Surface Wear. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 1437-1449	0.5	1
48	An Evaluating Study of Using Thermal Imaging and Convolutional Neural Network for Fault Diagnosis of Reciprocating Compressors. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 1495-1503	0.5	1
47	Multiple-Model Fault Diagnosis Method for Gas Turbine Based on Soft Switch. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 363-375	0.5	1
46	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
45	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
44	The Enhancement of Weak Bearing Fault Signatures by Stochastic Resonance with a Novel Potential Function. <i>Energies</i> , 2020 , 13, 6348	3.1	1
43	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
42	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
41	The Investigation into the Tribological Impact of Alternative Fuels on Engines Based on Acoustic Emission. <i>Energies</i> , 2021 , 14, 2315	3.1	1
40	Extraction of local and global features by a convolutional neural network and long 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
39	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
38	Broken Rotor Bar Detection Using Mathematical Morphology Based on Instantaneous Induction Motor Electrical Signals Analysis 2019 ,		1
37	Fault Diagnosis of Broken Rotor Bar in AC Induction Motor based on A Qualitative Simulation Approach 2019 ,		1

36	Experimental Research on Additive-Manufacturing Metamaterials Applied to Vibration Mitigation. <i>Mechanisms and Machine Science</i> , 2021 , 23-28	0.3	1
35	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
34	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
33	Informative singular value decomposition and its application in fault detection of planetary gearbox. <i>Measurement Science and Technology</i> , 2022 , 33, 085010	2	1
32	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
31	Bond Graph Modelling for Condition Monitoring of Induction Motors. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 511-523	0.5	0
30	Operational Modal Analysis in the Presence of Pulse Train and Harmonics Based on SSI. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 115-134	0.5	0
29	Analysis of nonlinear vibration energy harvesters using a complex dynamic frequency method. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2020 , 64, 1555-1562	0.4	0
28	Effect of Surface Wear on Friction of Spur Gears. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 631-646	0.4	0
27	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
26	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
25	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
24	Vehicle Suspension Performance Analysis Based on Full Vehicle Model for Condition Monitoring Development. <i>Mechanisms and Machine Science</i> , 2015 , 495-505	0.3	
23	An Investigation Into the Control of the Combustion Instability Using Acoustic Resonator for a Jet Engine 2006 , 1531		
22	Automatic Fault Detection Using a Model-Based Approach in the Frequency Domain 2006 , 849		
21	Field Identification of Dynamic Coefficients of Journal Bearings on Flexible Rotor-Bearing System. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 1273-1284	0.5	
20	Condition Monitoring of Lubricant Shortage for Gearboxes Based on Compressed Thermal Images. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 927-938	0.5	
19	Modulation Signal Bispectrum Based Monitoring of Tooth Surface Wear for Modification Spiral Bevel Gear. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 717-729	0.5	

18	A Componential Coding Neural Network Based Signal Modelling for Condition Monitoring. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 559-572	0.5
17	Envelope Ensemble Average of Largest Amplitude Impact Transients for Diagnosing Rolling Element Defects in Bearings. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 1151-1162	0.5
16	Vibrations Based Lubricity Condition Monitoring of Journal Bearings. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 883-892	0.5
15	Vibration Monitoring of the Gradual Worn in Journal Bearings. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 597-607	0.5
14	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
13	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
12	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
11	Helicopter Planet Bearing Fault Diagnosis Based on Modulation Signal Bispectrum Analysis. <i>Mechanisms and Machine Science</i> , 2021 , 784-797	0.3
10	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
9	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
8	Spindle Status Monitoring and Fault Feature Information Acquisition Based on Rotor Sensing. <i>Mechanisms and Machine Science</i> , 2021 , 809-829	0.3
7	Dynamic Models for Local Faults on Rolling Element Bearings: A Review. <i>Mechanisms and Machine Science</i> , 2021 , 217-227	0.3
6	An Experiment Study of Acoustic Emission Generated by Dynamic Fluid Asperity Shearing. <i>Mechanisms and Machine Science</i> , 2021 , 14-22	0.3
5	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
4	Vibration Based Virtual Sensing of Nitrogen Oxide Emission in CI Engines. <i>Mechanisms and Machine Science</i> , 2021 , 596-606	0.3
3	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
2	A Triboelectric Piston-Cylinder Assembly with Condition-Monitoring and Self-Powering Capabilities. <i>Energy Technology</i> , 2200014	3.5
1	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

