## Andrew Ball

List of Publications by Year in descending order

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ΔΝΟΦΕΊΛΙ ΒΛΙΙ

#	Article	IF	CITATIONS
1	A review of numerical analysis of friction stir welding. Progress in Materials Science, 2014, 65, 1-66.	32.8	386
2	An approach to fault diagnosis of reciprocating compressor valves using Teager–Kaiser energy operator and deep belief networks. Expert Systems With Applications, 2014, 41, 4113-4122.	7.6	327
3	A review on online state of charge and state of health estimation for lithium-ion batteries in electric vehicles. Energy Reports, 2021, 7, 5141-5161.	5.1	166
4	Mechanical properties of extensible die clinched joints in titanium sheet materials. Materials & Design, 2015, 71, 26-35.	5.1	89
5	Gear wear monitoring by modulation signal bispectrum based on motor current signal analysis. Mechanical Systems and Signal Processing, 2017, 94, 202-213.	8.0	86
6	Response analysis of an accelerating unbalanced rotating system with both random and interval variables. Journal of Sound and Vibration, 2020, 466, 115047.	3.9	75
7	Modelling acoustic emissions generated by sliding friction. Wear, 2010, 268, 811-815.	3.1	69
8	Emission Characteristics of a CI Engine Running with a Range of Biodiesel Feedstocks. Energies, 2014, 7, 334-350.	3.1	65
9	Self-piercing riveting of similar and dissimilar metal sheets of aluminum alloy and copper alloy. Materials & Design, 2015, 65, 923-933.	5.1	63
10	Helical gear wear monitoring: Modelling and experimental validation. Mechanism and Machine Theory, 2017, 117, 210-229.	4.5	59
11	Influence of sheet thickness on fatigue behavior and fretting of self-piercing riveted joints in aluminum alloy 5052. Materials and Design, 2015, 87, 1010-1017.	7.0	58
12	Autocorrelated Envelopes for early fault detection of rolling bearings. Mechanical Systems and Signal Processing, 2021, 146, 106990.	8.0	52
13	Vibration characteristics and condition monitoring of internal radial clearance within a ball bearing in a gear-shaft-bearing system. Mechanical Systems and Signal Processing, 2022, 165, 108280.	8.0	48
14	Self-piercing riveting of similar and dissimilar titanium sheet materials. International Journal of Advanced Manufacturing Technology, 2015, 80, 2105-2115.	3.0	45
15	Fault detection for planetary gearbox based on an enhanced average filter and modulation signal bispectrum analysis. ISA Transactions, 2020, 101, 408-420.	5.7	45
16	Vibration Characteristics of Rolling Element Bearings with Different Radial Clearances for Condition Monitoring of Wind Turbine. Applied Sciences (Switzerland), 2020, 10, 4731.	2.5	37
17	Numerical and experimental investigations of self-piercing riveting. International Journal of Advanced Manufacturing Technology, 2013, 69, 715-721.	3.0	36
18	Modelling, Testing and Analysis of a Regenerative Hydraulic Shock Absorber System. Energies, 2016, 9, 386.	3.1	34

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19	Self-piercing riveting of aluminium–lithium alloy sheet materials. Journal of Materials Processing Technology, 2019, 268, 192-200.	6.3	32
20	Fretting behavior of self-piercing riveted joints in titanium sheet materials. Journal of Materials Processing Technology, 2017, 249, 246-254.	6.3	31
21	Influence of heat treatment on fatigue performances for self-piercing riveting similar and dissimilar titanium, aluminium and copper alloys. Materials and Design, 2016, 97, 108-117.	7.0	29
22	Single and combined fault diagnosis of reciprocating compressor valves using a hybrid deep belief network. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 3767-3780.	2.1	28
23	Gear Wear Process Monitoring Using a Sideband Estimator Based on Modulation Signal Bispectrum. Applied Sciences (Switzerland), 2017, 7, 274.	2.5	27
24	Early Fault Diagnosis for Planetary Gearbox Based Wavelet Packet Energy and Modulation Signal Bispectrum Analysis. Sensors, 2018, 18, 2908.	3.8	26
25	Diesel Engine Valve Clearance Detection Using Acoustic Emission. Advances in Mechanical Engineering, 2010, 2, 495741.	1.6	26
26	A Performance Evaluation of Two Bispectrum Analysis Methods Applied to Electrical Current Signals for Monitoring Induction Motor-Driven Systems. Energies, 2019, 12, 1438.	3.1	23
27	A Normalized Frequency-Domain Energy Operator for Broken Rotor Bar Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	19
28	The influence of rolling bearing clearances on diagnostic signatures based on a numerical simulation and experimental evaluation. International Journal of Hydromechatronics, 2018, 1, 16.	2.3	18
29	Modulation Sideband Separation Using the Teager–Kaiser Energy Operator for Rotor Fault Diagnostics of Induction Motors. Energies, 2019, 12, 4437.	3.1	16
30	Object-Based Thermal Image Segmentation for Fault Diagnosis of Reciprocating Compressors. Sensors, 2020, 20, 3436.	3.8	15
31	Modelling Acoustic Emissions induced by dynamic fluid-asperity shearing in hydrodynamic lubrication regime. Tribology International, 2021, 153, 106590.	5.9	15
32	Vibration health monitoring of rolling bearings under variable speed conditions by novel demodulation technique. Structural Control and Health Monitoring, 2021, 28, e2672.	4.0	15
33	Effect of foam copper interlayer on the mechanical properties and fretting wear of sandwich clinched joints. Journal of Materials Processing Technology, 2019, 274, 116285.	6.3	14
34	Novel Higher-Order Spectral Cross-Correlation Technologies for Vibration Sensor-Based Diagnosis of Gearboxes. Sensors, 2020, 20, 5131.	3.8	14
35	Extraction of the largest amplitude impact transients for diagnosing rolling element defects in bearings. Mechanical Systems and Signal Processing, 2019, 116, 796-815.	8.0	12
36	Dynamic Modeling and Structural Optimization of a Bistable Electromagnetic Vibration Energy Harvester. Energies, 2019, 12, 2410.	3.1	12

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37	Numerical Modelling of Vibration Responses of Helical Gears under Progressive Tooth Wear for Condition Monitoring. Mathematics, 2021, 9, 213.	2.2	12
38	An Investigation into the Acoustic Emissions of Internal Combustion Engines with Modelling and Wavelet Package Analysis for Monitoring Lubrication Conditions. Energies, 2019, 12, 640.	3.1	10
39	Novel Method for Vibration Sensor-Based Instantaneous Defect Frequency Estimation for Rolling Bearings Under Non-Stationary Conditions. Sensors, 2020, 20, 5201.	3.8	10
40	Model Based IAS Analysis for Fault Detection and Diagnosis of IC Engine Powertrains. Energies, 2020, 13, 565.	3.1	8
41	Novel Instantaneous Wavelet Bicoherence for Vibration Fault Detection in Gear Systems. Energies, 2021, 14, 6811.	3.1	8
42	Effects of Bounded Uncertainties on the Dynamic Characteristics of an Overhung Rotor System with Rubbing Fault. Energies, 2019, 12, 4365.	3.1	7
43	Novel Fault Identification for Electromechanical Systems via Spectral Technique and Electrical Data Processing. Electronics (Switzerland), 2020, 9, 1560.	3.1	6
44	Novel Prediction of Diagnosis Effectiveness for Adaptation of the Spectral Kurtosis Technology to Varying Operating Conditions. Sensors, 2021, 21, 6913.	3.8	6
45	Analysis of nonlinear vibration energy harvesters using a complex dynamic frequency method. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 1555-1562.	0.6	4
46	Autocorrelation Ensemble Average of Larger Amplitude Impact Transients for the Fault Diagnosis of Rolling Element Bearings. Energies, 2019, 12, 4740.	3.1	3
47	The Investigation into the Tribological Impact of Alternative Fuels on Engines Based on Acoustic Emission. Energies, 2021, 14, 2315.	3.1	1
48	Fault Diagnosis of Reciprocating Compressors Based on Thermal Imaging and Support Vector Machines. Mechanisms and Machine Science, 2021, , 206-216.	0.5	0
49	Dynamic Models for Local Faults on Rolling Element Bearings: A Review. Mechanisms and Machine Science, 2021, , 217-227.	0.5	0
50	Investigation of Spur Gear Dynamics with Gear MeshImpacts Induced by Tooth Wear. Journal of Physics: Conference Series, 2022, 2184, 012039.	0.4	0