

# Andrew Ball

## List of Publications by Citations

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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.

50  
papers

1,440  
citations

20  
h-index

37  
g-index

51  
ext. papers

1,779  
ext. citations

4.5  
avg, IF

5.19  
L-index

#	Paper	IF	Citations
50	A review of numerical analysis of friction stir welding. <i>Progress in Materials Science</i> , <b>2014</b> , 65, 1-66	42.2	299
49	An approach to fault diagnosis of reciprocating compressor valves using Teager-Kaiser energy operator and deep belief networks. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 4113-4122	7.8	257
48	Mechanical properties of extensible die clinched joints in titanium sheet materials. <i>Materials &amp; Design</i> , <b>2015</b> , 71, 26-35		79
47	Gear wear monitoring by modulation signal bispectrum based on motor current signal analysis. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 94, 202-213	7.8	60
46	Response analysis of an accelerating unbalanced rotating system with both random and interval variables. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 466, 115047	3.9	56
45	Self-piercing riveting of similar and dissimilar metal sheets of aluminum alloy and copper alloy. <i>Materials &amp; Design</i> , <b>2015</b> , 65, 923-933		53
44	Modelling acoustic emissions generated by sliding friction. <i>Wear</i> , <b>2010</b> , 268, 811-815	3.5	49
43	Emission Characteristics of a CI Engine Running with a Range of Biodiesel Feedstocks. <i>Energies</i> , <b>2014</b> , 7, 334-350	3.1	48
42	Helical gear wear monitoring: Modelling and experimental validation. <i>Mechanism and Machine Theory</i> , <b>2017</b> , 117, 210-229	4	40
41	Influence of sheet thickness on fatigue behavior and fretting of self-piercing riveted joints in aluminum alloy 5052. <i>Materials and Design</i> , <b>2015</b> , 87, 1010-1017	8.1	37
40	Numerical and experimental investigations of self-piercing riveting. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2013</b> , 69, 715-721	3.2	30
39	Self-piercing riveting of similar and dissimilar titanium sheet materials. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 80, 2105-2115	3.2	30
38	Fault detection for planetary gearbox based on an enhanced average filter and modulation signal bispectrum analysis. <i>ISA Transactions</i> , <b>2020</b> , 101, 408-420	5.5	26
37	Modelling, Testing and Analysis of a Regenerative Hydraulic Shock Absorber System. <i>Energies</i> , <b>2016</b> , 9, 386	3.1	26
36	Autocorrelated Envelopes for early fault detection of rolling bearings. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 146, 106990	7.8	26
35	Influence of heat treatment on fatigue performances for self-piercing riveting similar and dissimilar titanium, aluminium and copper alloys. <i>Materials and Design</i> , <b>2016</b> , 97, 108-117	8.1	25
34	Vibration Characteristics of Rolling Element Bearings with Different Radial Clearances for Condition Monitoring of Wind Turbine. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4731	2.6	23

33	Early Fault Diagnosis for Planetary Gearbox Based Wavelet Packet Energy and Modulation Signal Bispectrum Analysis. <i>Sensors</i> , <b>2018</b> , 18,	3.8	22
32	Gear Wear Process Monitoring Using a Sideband Estimator Based on Modulation Signal Bispectrum. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 274	2.6	21
31	A review on online state of charge and state of health estimation for lithium-ion batteries in electric vehicles. <i>Energy Reports</i> , <b>2021</b> , 7, 5141-5161	4.6	21
30	Diesel Engine Valve Clearance Detection Using Acoustic Emission. <i>Advances in Mechanical Engineering</i> , <b>2010</b> , 2, 495741	1.2	20
29	Self-piercing riveting of aluminium-lithium alloy sheet materials. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 268, 192-200	5.3	16
28	A Performance Evaluation of Two Bispectrum Analysis Methods Applied to Electrical Current Signals for Monitoring Induction Motor-Driven Systems. <i>Energies</i> , <b>2019</b> , 12, 1438	3.1	16
27	Single and combined fault diagnosis of reciprocating compressor valves using a hybrid deep belief network. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2018</b> , 232, 3767-3780	1.3	16
26	Fretting behavior of self-piercing riveted joints in titanium sheet materials. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 249, 246-254	5.3	14
25	The influence of rolling bearing clearances on diagnostic signatures based on a numerical simulation and experimental evaluation. <i>International Journal of Hydromechatronics</i> , <b>2018</b> , 1, 16	4.2	12
24	Modelling Acoustic Emissions induced by dynamic fluid-asperity shearing in hydrodynamic lubrication regime. <i>Tribology International</i> , <b>2021</b> , 153, 106590	4.9	11
23	An Investigation into the Acoustic Emissions of Internal Combustion Engines with Modelling and Wavelet Package Analysis for Monitoring Lubrication Conditions. <i>Energies</i> , <b>2019</b> , 12, 640	3.1	9
22	Object-Based Thermal Image Segmentation for Fault Diagnosis of Reciprocating Compressors. <i>Sensors</i> , <b>2020</b> , 20,	3.8	9
21	Extraction of the largest amplitude impact transients for diagnosing rolling element defects in bearings. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 116, 796-815	7.8	9
20	Effect of foam copper interlayer on the mechanical properties and fretting wear of sandwich clinched joints. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 274, 116285	5.3	9
19	Modulation Sideband Separation Using the Teager-Kaiser Energy Operator for Rotor Fault Diagnostics of Induction Motors. <i>Energies</i> , <b>2019</b> , 12, 4437	3.1	9
18	A Normalized Frequency-Domain Energy Operator for Broken Rotor Bar Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-10	5.2	9
17	Novel Higher-Order Spectral Cross-Correlation Technologies for Vibration Sensor-Based Diagnosis of Gearboxes. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
16	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> , <b>2022</b> , 165, 108280	7.8	8

15	Effects of Bounded Uncertainties on the Dynamic Characteristics of an Overhung Rotor System with Rubbing Fault. <i>Energies</i> , <b>2019</b> , 12, 4365	3.1	6
14	Numerical Modelling of Vibration Responses of Helical Gears under Progressive Tooth Wear for Condition Monitoring. <i>Mathematics</i> , <b>2021</b> , 9, 213	2.3	5
13	Model Based IAS Analysis for Fault Detection and Diagnosis of IC Engine Powertrains. <i>Energies</i> , <b>2020</b> , 13, 565	3.1	4
12	Dynamic Modeling and Structural Optimization of a Bistable Electromagnetic Vibration Energy Harvester. <i>Energies</i> , <b>2019</b> , 12, 2410	3.1	4
11	Novel Fault Identification for Electromechanical Systems via Spectral Technique and Electrical Data Processing. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1560	2.6	4
10	Vibration health monitoring of rolling bearings under variable speed conditions by novel demodulation technique. <i>Structural Control and Health Monitoring</i> , <b>2021</b> , 28, e2672	4.5	4
9	Novel Instantaneous Wavelet Bicoherence for Vibration Fault Detection in Gear Systems. <i>Energies</i> , <b>2021</b> , 14, 6811	3.1	3
8	Novel Method for Vibration Sensor-Based Instantaneous Defect Frequency Estimation for Rolling Bearings Under Non-Stationary Conditions. <i>Sensors</i> , <b>2020</b> , 20,	3.8	2
7	The Investigation into the Tribological Impact of Alternative Fuels on Engines Based on Acoustic Emission. <i>Energies</i> , <b>2021</b> , 14, 2315	3.1	1
6	Autocorrelation Ensemble Average of Larger Amplitude Impact Transients for the Fault Diagnosis of Rolling Element Bearings. <i>Energies</i> , <b>2019</b> , 12, 4740	3.1	1
5	Analysis of nonlinear vibration energy harvesters using a complex dynamic frequency method. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2020</b> , 64, 1555-1562	0.4	0
4	Fault Diagnosis of Reciprocating Compressors Based on Thermal Imaging and Support Vector Machines. <i>Mechanisms and Machine Science</i> , <b>2021</b> , 206-216	0.3	
3	Dynamic Models for Local Faults on Rolling Element Bearings: A Review. <i>Mechanisms and Machine Science</i> , <b>2021</b> , 217-227	0.3	
2	A Numerical Analysis of Internal Radial Clearances on Affecting Vibration of Rolling Element Bearings with Local Defects. <i>Mechanisms and Machine Science</i> , <b>2021</b> , 1-13	0.3	
1	Investigation of Spur Gear Dynamics with Gear Mesh Impacts Induced by Tooth Wear. <i>Journal of Physics: Conference Series</i> , <b>2022</b> , 2184, 012039	0.3	