

# Muhannad Al-Waily

## List of Publications by Year in Descending Order

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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.

35  
papers

315  
citations

10  
h-index

16  
g-index

41  
ext. papers

389  
ext. citations

0.6  
avg, IF

4.27  
L-index

#	Paper	IF	Citations
35	Analytical and numerical flexural properties of polymeric porous functionally graded (PFGM) sandwich beams. <i>Journal of Achievements in Materials and Manufacturing Engineering</i> , <b>2022</b> , 110, 5-10	0.5	3
34	Steady state heat conduction <b>2022</b> , 515-568		
33	Application of finite element to the vibration problems <b>2022</b> , 467-514		
32	Energy methods in vibrations <b>2022</b> , 165-237		
31	Water hammer phenomenon in pumping stations: A stability investigation based on root locus. <i>Open Engineering</i> , <b>2022</b> , 12, 254-262	1.7	2
30	Flow parameters effect on water hammer stability in hydraulic system by using state-space method. <i>Open Engineering</i> , <b>2022</b> , 12, 215-226	1.7	2
29	Free vibration analysis of imperfect functionally graded sandwich plates: analytical and experimental investigation. <i>Archives of Materials Science and Engineering</i> , <b>2021</b> , 111, 49-65	0.6	6
28	Optimisation Design of Functionally Graded Sandwich Plate with Porous Metal Core for Buckling Characterisations. <i>Pertanika Journal of Science and Technology</i> , <b>2021</b> , 29,	1.1	3
27	Energy balance modelling of high velocity impact effect on composite plate structures. <i>Archives of Materials Science and Engineering</i> , <b>2021</b> , 111, 14-33	0.6	4
26	Analytical and Numerical Investigations of Mechanical Vibration in the Vertical Direction of a Human Body in a Driving Vehicle using Biomechanical Vibration Model. <i>Pertanika Journal of Science and Technology</i> , <b>2021</b> , 29,	1.1	3
25	Optimization design of vibration characterizations for functionally graded porous metal sandwich plate structure. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	4
24	Analytical and numerical investigation of buckling load of functionally graded materials with porous metal of sandwich plate. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	2
23	Creep characterization of various prosthetic and orthotics composite materials with nanoparticles using an experimental program and an artificial neural network. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	2
22	Numerical Investigation of Mechanical Behavior for Lattice Structure with Effect of Different Nanomaterial Types. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1094, 012172	0.4	6
21	A Critical Review of Recent Research of Free Vibration and Stability of Functionally Graded Materials of Sandwich Plate. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1094, 012081	0.4	11
20	A Finite Element Simulation of Nano Effects on Stress Distribution in a Below Knee Prosthetic. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1067, 012141	0.4	6
19	Analytical and Numerical Investigation of Free Vibration Behavior for Sandwich Plate with Functionally Graded Porous Metal Core. <i>Pertanika Journal of Science and Technology</i> , <b>2021</b> , 29,	1.1	5

18	Impact and Mechanical Properties Modifying for Below Knee Prosthesis Socket Laminations by using Natural Kenaf Fiber. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1973, 012168	0.3	4
17	A new method for measurement the residual stresses in friction stir welding. <i>Archives of Materials Science and Engineering</i> , <b>2021</b> , 112, 63-69	0.6	4
16	An Analytical Investigation of Thermal Buckling Behavior of Composite Plates Reinforced by Carbon Nano Particles. <i>Engineering Journal</i> , <b>2020</b> , 24, 11-21	1.8	35
15	Microclimate Energy Considerations in Building Design for Arid Regions. <i>Nature Environment and Pollution Technology</i> , <b>2020</b> , 19, 1125-1131	1.2	2
14	Numerical and Experimental Analysis to Predict Life of Removable Partial Denture. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 870, 012149	0.4	17
13	NUMERICAL MODELING FOR MECHANICAL CHARACTERISTICS STUDY OF DIFFERENT MATERIALS ARTIFICIAL HIP JOINT WITH INCLINATION AND GAIT CYCLE ANGLE EFFECT. <i>Journal of Mechanical Engineering Research and Developments (discontinued)</i> , <b>2019</b> , 42, 79-93	1.6	27
12	Experimental Testing and Theoretical Prediction of Fiber Optical Cable for Fault Detection and Identification. <i>Journal of Engineering and Applied Sciences</i> , <b>2019</b> , 14, 430-438	1.3	29
11	EFFECT OF NANO ZINC OXIDE ON TENSILE PROPERTIES OF NATURAL RUBBER COMPOSITE. <i>Maallat Al-kfiat Al-handasiyyat</i> , <b>2018</b> , 9, 77-90	1.6	5
10	Dissimilar Aluminium Alloys Welding by Friction Stir Processing and Reverse Rotation Friction Stir Processing. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 454, 012059	0.4	14
9	Optimization CFD study of erosion in 3D elbow during transportation of crude oil contaminated with sand particles. <i>International Journal of Engineering and Technology(UAE)</i> , <b>2018</b> , 7, 1420	0.8	25
8	Effects of Temperature on the Characterisation of a New Design for a Non-Articulated Prosthetic Foot. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 433, 012064	0.4	19
7	An Investigation to the Effects of Impact Strength on Laminated Notched Composites used in Prosthetic Sockets Manufacturing. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>928</b> , 022081	0.4	21
6	Fatigue Characterization for Composite Materials used in Artificial Socket Prostheses with the Adding of Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>928</b> , 022107	0.4	20
5	Ogden model for characterising and simulation of PPHR Rubber under different strain rates. <i>Australian Journal of Mechanical Engineering</i> , 1-15	1	4
4	Improvement of Buckling Behavior of Composite Plates Reinforced with Hybrids Nanomaterials Additives. <i>Materials Science Forum</i> , <b>1039</b> , 23-41	0.4	5
3	Investigation into the Distribution of Erosion-Corrosion in the Furnace Tubes of Oil Refineries. <i>Materials Science Forum</i> , <b>1039</b> , 165-181	0.4	4
2	Effect of SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> Hybrid Nano Materials on Fatigue Behavior for Laminated Composite Materials Used to Manufacture Artificial Socket Prostheses. <i>Materials Science Forum</i> , <b>1039</b> , 493-509	0.4	4
1	The Mechanical Properties of the Lower Limb Socket Material Using Natural Fibers: A Review. <i>Materials Science Forum</i> , <b>1039</b> , 473-492	0.4	5

