

# Muhannad Al-Waily

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

532  
citations

840585

11  
h-index

887953

17  
g-index

41  
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41  
docs citations

41  
times ranked

41  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Analytical Investigation of Thermal Buckling Behavior of Composite Plates Reinforced by Carbon Nano Particles. <i>Engineering Journal</i> , 2020, 24, 11-21.	0.5	45
2	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> , 2019, 42, 79-93.	0.7	34
3	Experimental Testing and Theoretical Prediction of Fiber Optical Cable for Fault Detection and Identification. <i>Journal of Engineering and Applied Sciences</i> , 2019, 14, 430-438.	0.2	34
4	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> , 2018, 433, 012064.	0.3	32
5	Fatigue Characterization for Composite Materials used in Artificial Socket Prostheses with the Adding of Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 928, 022107.	0.3	31
6	Numerical and Experimental Analysis to Predict Life of Removable Partial Denture. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 870, 012149.	0.3	30
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> , 0, 928, 022081.	0.3	30
8	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> , 2018, 7, 1420.	0.2	28
9	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> , 2021, 1094, 012081.	0.3	22
10	Dissimilar Aluminium Alloys Welding by Friction Stir Processing and Reverse Rotation Friction Stir Processing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 454, 012059.	0.3	21
11	A review of use of nanoparticle additives in lubricants to improve its tribological properties. <i>Materials Today: Proceedings</i> , 2022, 52, 1442-1450.	0.9	19
12	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> , 2021, 29, .	0.3	14
13	The Mechanical Properties of the Lower Limb Socket Material Using Natural Fibers: A Review. <i>Materials Science Forum</i> , 0, 1039, 473-492.	0.3	14
14	Impact and Mechanical Properties Modifying for Below Knee Prosthesis Socket Laminations by using Natural Kenaf Fiber. <i>Journal of Physics: Conference Series</i> , 2021, 1973, 012168.	0.3	13
15	Ogden model for characterising and simulation of PPHR Rubber under different strain rates. <i>Australian Journal of Mechanical Engineering</i> , 2023, 21, 911-925.	1.5	12
16	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> , 0, 1039, 493-509.	0.3	12
17	Analytical and numerical investigation of buckling load of functionally graded materials with porous metal of sandwich plate. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	11
18	Improvement of Buckling Behavior of Composite Plates Reinforced with Hybrids Nanomaterials Additives. <i>Materials Science Forum</i> , 0, 1039, 23-41.	0.3	11

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19	Free vibration analysis of imperfect functionally graded sandwich plates: analytical and experimental investigation. Archives of Materials Science and Engineering, 2021, 111, 49-65.	0.7	10
20	A Finite Element Simulation of Nano Effects on Stress Distribution in a Below Knee Prosthetic. IOP Conference Series: Materials Science and Engineering, 2021, 1067, 012141.	0.3	9
21	Analytical and Numerical Investigations of Mechanical Vibration in the Vertical Direction of a Human Body in a Driving Vehicle using Biomechanical Vibration Model. Pertanika Journal of Science and Technology, 2021, 29, .	0.3	8
22	Optimisation Design of Functionally Graded Sandwich Plate with Porous Metal Core for Buckling Characterisations. Pertanika Journal of Science and Technology, 2021, 29, .	0.3	8
23	Simulation of gait cycle in sagittal plane for above-knee prosthesis. AIP Conference Proceedings, 2022, , .	0.3	8
24	Experimental and Numerical Flexural Properties of Sandwich Structure with Functionally Graded Porous Materials. Engineering and Technology Journal, 2022, 40, 137-147.	0.4	8
25	Numerical Investigation of Mechanical Behavior for Lattice Structure with Effect of Different Nanomaterial Types. IOP Conference Series: Materials Science and Engineering, 2021, 1094, 012172.	0.3	7
26	EFFECT OF NANO ZINC OXIDE ON TENSILE PROPERTIES OF NATURAL RUBBER COMPOSITE. Ma'Yalla'— Al-k'fa'— Al-handasiyya'—, 2018, 9, 77-90.	0.1	7
27	Free vibration analysis of rectangular plates with cracked holes. AIP Conference Proceedings, 2022, , .	0.3	7
28	Investigation into the Distribution of Erosion-Corrosion in the Furnace Tubes of Oil Refineries. Materials Science Forum, 0, 1039, 165-181.	0.3	6
29	A Review Study on Measurement and Evaluation of Prosthesis Testing Platform during Gait Cycle within Sagittal Plane. , 2021, , .		6
30	Creep characterization of various prosthetic and orthotics composite materials with nanoparticles using an experimental program and an artificial neural network. Materials Today: Proceedings, 2021, , .	0.9	5
31	Analytical and numerical flexural properties of polymeric porous functionally graded (PFGM) sandwich beams. Journal of Achievements in Materials and Manufacturing Engineering, 2022, 110, 5-10.	0.2	5
32	Energy balance modelling of high velocity impact effect on composite plate structures. Archives of Materials Science and Engineering, 2021, 111, 14-33.	0.7	4
33	Water hammer phenomenon in pumping stations: A stability investigation based on root locus. Open Engineering, 2022, 12, 254-262.	0.7	4
34	Flow parameters effect on water hammer stability in hydraulic system by using state-space method. Open Engineering, 2022, 12, 215-226.	0.7	4
35	A new method for measurement the residual stresses in friction stir welding. Archives of Materials Science and Engineering, 2021, 112, 63-69.	0.7	4
36	Microclimate Energy Considerations in Building Design for Arid Regions. Nature Environment and Pollution Technology, 2020, 19, 1125-1131.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Three-dimensional fluid-thermal-structure multiphysics interaction simulation model of aluminium extrusion process. Journal of Mechanical Engineering and Sciences, 2021, 15, 8253-8261.	0.3	0
38	Steady state heat conduction. , 2022, , 515-568.		0
39	Application of finite element to the vibration problems. , 2022, , 467-514.		0
40	Energy methods in vibrations. , 2022, , 165-237.		0