Mohammed T Hayajneh

List of Publications by Year
in descending order

50 papers	1,370 citations	471061 17 h-index	360668 35 g-index
52 all docs	52 docs citations	52 times ranked	1163 citing authors

#	Article	IF	Citations
1	A fuzzy multi-criteria decision making model for supplier selection. Expert Systems With Applications, 2011, 38, 8384-8391.	4.4	291
2	Prediction of density, porosity and hardness in aluminumâ€“copper-based composite materials using artificial neural network. Journal of Materials Processing Technology, 2009, 209, 894-899.	3.1	137
3	Wear behavior of Alâ€“Mgâ€“Cuâ€“based composites containing SiC particles. Tribology International, 2009, 42, 1230-1238.	3.0	129
4	Prediction of tribological behavior of aluminumâ€“copper based composite using artificial neural network. Journal of Alloys and Compounds, 2009, 470, 584-588.	2.8	74
5	Artificial neural network modeling of the drilling process of self-lubricated aluminum/alumina/graphite hybrid composites synthesized by powder metallurgy technique. Journal of Alloys and Compounds, 2009, 478, 559-565.	2.8	60
6	Investigating the mechanical thermal and polymer interfacial characteristics of Jordanian lignocellulosic fibers to demonstrate their capabilities for sustainable green materials. Journal of Cleaner Production, 2019, 241, 118256.	4.6	58
7	Wear behavior of Alâ€“Cu and Alâ€“Cu/SiC components produced by powder metallurgy. Journal of Materials Science, 2008, 43, 5368-5375.	1.7	50
8	Mechanical performance, thermal stability and morphological analysis of date palm fiber reinforced polypropylene composites toward functional bio-products. Cellulose, 2022, 29, 3293-3309.	2.4	48
9	A hierarchy weighting preferences model to optimise green composite characteristics for better sustainable bio-products. International Journal of Sustainable Engineering, 2021, 14, 1043-1048.	1.9	45
10	Re-evaluation of the basic mechanics of orthogonal metal cutting: velocity diagram, virtual work equation and upper-bound theorem. International Journal of Machine Tools and Manufacture, 2001, 41, 393-418.	6.2	43
11	Dielectric relaxation of mediterranean lignocellulosic fibers for sustainable functional biomaterials. Materials Chemistry and Physics, 2019, 229, 174-182.	2.0	40
12	HOLE QUALITY IN DEEP HOLE DRILLING. Materials and Manufacturing Processes, 2001, 16, 147-164.	2.7	30
13	Tribological and mechanical fracture performance of Mediterranean lignocellulosic fiber reinforced polypropylene composites. Polymer Composites, 2021, 42, 5501-5511.	2.3	26
14	Hybrid green organic/inorganic filler polypropylene composites: Morphological study and mechanical performance investigations. E-Polymers, 2021, 21, 710-721.	1.3	25
15	Physical and Mechanical Inherent Characteristic Investigations of Various Jordanian Natural Fiber Species to Reveal Their Potential for Green Biomaterials. Journal of Natural Fibers, 2022, 19, 7199-7212.	1.7	25
16	Eco-material selection using fuzzy TOPSIS method. International Journal of Sustainable Engineering, 0, , 1-13.	1.9	22
17	Fuzzy logic controller for overhead cranes. Engineering Computations, 2006, 23, 84-98.	0.7	20
18	Corrosion investigation of zincâ"aluminum alloy matrix (ZA-27) reinforced with alumina (Al₂O₃) and fly ash. Particulate Science and Technology, 2017, 35, 439-447.	1.1	19

#	Article	IF	Citations
19	Investigation of mechanical and tribological properties of hybrid green eggshells and graphite-reinforced aluminum composites. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	19
20	Revealing the intrinsic dielectric properties of mediterranean green fiber composites for sustainable functional products. Journal of Industrial Textiles, 2022, 51, 7732S-7754S.	1.1	16
21	Corrosion Resistance of TiO2-ZrO2 Nanocomposite Thin Films Spin Coated on AISI 304 Stainless Steel in 3.5 wt. % NaCl Solution. Materials Research, 2019, 22, .	0.6	13
22	Applying Taguchi method to study the wear behaviour of ZA-27 alloy-based composites reinforced with SiC nanoparticles. International Journal of Cast Metals Research, 2019, 32, 229-241.	0.5	12
23	The Effect of Graphite Particles Addition on the Surface Finish of Machined Al-4 Wt.% Mg Alloys. Journal of Materials Engineering and Performance, 2001, 10, 521-525.	1.2	11
24	A modified PID controller (PIÏƒÎ²D). Journal of the Franklin Institute, 2002, 339, 543-553.	1.9	11
25	Tribological investigation of Zamak alloys reinforced with alumina (Al₂O₃) and fly ash. Particulate Science and Technology, 2016, 34, 317-323.	1.1	11
26	Effects of Waste Eggshells addition on Microstructures, Mechanical and Tribological Properties of Green Metal Matrix Composite. Science and Engineering of Composite Materials, 2019, 26, 423-434.	0.6	11
27	Stress failure interface of cellulosic composite beam for more reliable industrial design. International Journal on Interactive Design and Manufacturing, 2022, 16, 1727-1738.	1.3	11
28	The Effect of the Increase in Graphite Volumetric Percentage on the Strength and Hardness of Al-4 Weight Percent Mg-Graphite Composites. Journal of Materials Engineering and Performance, 2002, 11, 250-255.	1.2	9
29	Statistical Analysis of the Effects of Machining Parameters and Workpiece Hardness on the Surface Finish of Machined Medium Carbon Steel. Journal of Materials Engineering and Performance, 2001, 10, 282-289.	1.2	8
30	Modeling Surface Finish in End Milling Using Fuzzy Subtractive Clustering-Based System Identification Method. Materials and Manufacturing Processes, 2003, 18, 653-665.	2.7	8
31	An investigation of bell mouthing in precision hole machining with self-piloting tools. International Journal of Advanced Manufacturing Technology, 2009, 43, 22-32.	1.5	8
32	Monitoring defects of ceramic tiles using fuzzy subtractive clustering-based system identification method. Soft Computing, 2010, 14, 615-626.	2.1	6
33	Dynamic modelling and analysis of whirling motion in BTA deep hole boring process. International Journal of Machining and Machinability of Materials, 2011, 10, 48.	0.1	6
34	Synthesis and characterization of ZA-27/SiC nanocomposites and study of its anticorrosion performance in a 3.5% NaCl medium. Anti-Corrosion Methods and Materials, 2020, 67, 321-329.	0.6	6
35	Enhancement the Corrosion Resistance of AISI 304 Stainless Steel by Nanocomposite Gelatin-Titanium Dioxide Coatings. Manufacturing Technology, 2019, 19, 759-766.	0.2	6
36	FUZZY CLUSTERING MODELLING FOR SURFACE FINISH PREDICTION IN FINE TURNING PROCESS. Machining Science and Technology, 2005, 9, 437-451.	1.4	5

#	Article	IF	Citations
37	Modelling the machinability of self-lubricated aluminium/alumina/graphite hybrid composites using a fuzzy subtractive clustering-based system identification method. International Journal of Machining and Machinability of Materials, 2008, 3, 252.	0.1	5
38	Modelling decision making under risk and uncertainty by novel utility measures. International Journal of Applied Decision Sciences, 2015, 8, 179.	0.2	5
39	The corrosion behavior of AISI 304 stainless steel spin coated with ZrO₂-gelatin nanocomposites. Materials Research Express, 2019, 6, 0965c4.	0.8	5
40	Corrosion evaluation of nanocomposite gelatin-forsterite coating applied on AISI 316 L stainless steel. Materials Research Express, 2019, 6, 116431.	0.8	4
41	Effects of machining parameters and reinforcement content on thrust force during drilling of hybrid composites. Materialpruefung/Materials Testing, 2016, 58, 280-284.	0.8	4
42	Reductions of pendulations of overhead cranes under the effect of air resistance by a cable manipulation manner. , 2008, , .		3
43	Prediction and controlling of roundness during the BTA deep hole drilling process: Experimental investigations and fuzzy modeling. Materialpruefung/Materials Testing, 2017, 59, 284-289.	0.8	3
44	Hybrid material performance assessment for rocket propulsion. Journal of the Mechanical Behavior of Materials, 2022, 31, 160-169.	0.7	3
45	SANDWICH STRUCTURE DELAMINATION OF RESIN TRANSFER MOLDING. Materials and Manufacturing Processes, 2001, 16, 27-45.	2.7	2
46	Series Resistance Compensation in PTAT Temperature Sensors and Bandgap Reference Circuits. International Journal of Electronics, 2004, 91, 259-269.	0.9	2
47	Development of a CAD/CAM system for simulating closed forging process using finiteâ€element method. Engineering Computations, 2009, 26, 302-312.	0.7	2
48	Mechanical Properties and Corrosion Behavior of Stir Casted Composites of ZA-27 Alloy Reinforced with Al2O3 Nanoparticles. Protection of Metals and Physical Chemistry of Surfaces, 2021, 57, 974-983.	0.3	2
49	A Fuzzy Gain Scheduling Scheme for the PIÏƒD Controllers. International Journal of Modelling and Simulation, 2004, 24, 8-12.	2.3	0
50	An Investigation for the Potential of Improving the Performance of Pattern Making Process in Steel Foundries: Case Study. Applied Mechanics and Materials, 0, 575, 900-904.	0.2	0