Khaled Giasin

List of Publications by Year
in descending order

107 papers	3,057 citations	147726 31 h-index	223716 46 g-index
109 all docs	109 docs citations	109 times ranked	1215 citing authors

#	Article	IF	Citations
1	Assessment of Surface Integrity and Dust While Drilling of GLAREÂ® FMLs. Lecture Notes in Mechanical Engineering, 2022, , 93-102.	0.3	0
2	Synthesis and characterization of mechanically alloyed nanostructured ternary titanium based alloy for bio-medical applications. Journal of Materials Research and Technology, 2022, 16, 88-101.	2.6	20
3	Investigation into the fatigue properties of flax fibre epoxy composites and hybrid composites based on flax and glass fibres. Composite Structures, 2022, 281, 115046.	3.1	25
4	Tool wear, surface roughness, cutting temperature and chips morphology evaluation of Al/TiN coated carbide cutting tools in milling of Cuâ€"Bâ€"CrC based ceramic matrix composites. Journal of Materials Research and Technology, 2022, 16, 1243-1259.	2.6	55
5	A Soft Computing-Based Analysis of Cutting Rate and Recast Layer Thickness for AZ31 Alloy on WEDM Using RSM-MOPSO. Materials, 2022, 15, 635.	1.3	19
6	Hand and Abrasive Flow Polished Tungsten Carbide Die: Optimization of Surface Roughness, Polishing Time and Comparative Analysis in Wire Drawing. Materials, 2022, 15, 1287.	1.3	12
7	Influence of extrusion parameters on drilling machinability of AZ31 magnesium alloy. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 2082-2094.	1.4	10
8	A Comparative Study to Predict Bearing Degradation Using Discrete Wavelet Transform (DWT), Tabular Generative Adversarial Networks (TGAN) and Machine Learning Models. Machines, 2022, 10, 176.	1.2	27
9	Development of an Oxide Layer on Al 6061 Using Plasma Arc Electrolytic Oxidation in Silicate-Based Electrolyte. Materials, 2022, 15, 1616.	1.3	2
10	Multi-Response Optimization of Al2O3 Nanopowder-Mixed Wire Electrical Discharge Machining Process Parameters of Nitinol Shape Memory Alloy. Materials, 2022, 15, 2018.	1.3	21
11	Estimation, optimization and analysis based investigation of the energy consumption in machinability of ceramic-based metal matrix composite materials. Journal of Materials Research and Technology, 2022, 17, 2987-2998.	2.6	31
12	Performance of MQL and Nano-MQL Lubrication in Machining ER7 Steel for Train Wheel Applications. Lubricants, 2022, 10, 48.	1.2	32
13	Deployment of Interpretive Structural Modeling in Barriers to Industry 4.0: A Case of Small and Medium Enterprises. Journal of Risk and Financial Management, 2022, 15, 171.	1.1	9
14	Evaluation of the Mechanical Properties and Drilling of Glass Bead/Fiber-Reinforced Polyamide 66 (PA66)-Based Hybrid Polymer Composites. Materials, 2022, 15, 2765.	1.3	12
15	Effect of mixing method and particle size on hardness and compressive strength of aluminium based metal matrix composite prepared through powder metallurgy route. Journal of Materials Research and Technology, 2022, 18, 282-292.	2.6	46
16	Experimental investigations and prediction of WEDMed surface of nitinol SMA using SinGAN andÂDenseNet deep learning model. Journal of Materials Research and Technology, 2022, 18, 325-337.	2.6	26
17	Investigation of machinability of Tiâ€"B-SiCp reinforced Cu hybrid composites in dry turning. Journal of Materials Research and Technology, 2022, 18, 1474-1487.	2.6	12
18	Experimental investigation on the effect of dry and multi-jet cryogenic cooling on the machinability and hole accuracy of CFRP composites. Journal of Materials Research and Technology, 2022, 18, 1772-1783.	2.6	17

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19	Effect of Fibre Orientation on Impact Damage Resistance of S2/FM94 Glass Fibre Composites for Aerospace Applications: An Experimental Evaluation and Numerical Validation. Polymers, 2022, 14, 95.	2.0	13
20	Mechanistic modeling of cutting forces in high-speed microturning of titanium alloy with consideration of nose radius. International Journal of Advanced Manufacturing Technology, 2022, 119, 2393-2408.	1.5	4
21	Coaxiality error analysis and optimization of cylindrical parts of CNC turning process. International Journal of Advanced Manufacturing Technology, 2022, 120, 6617-6634.	1.5	7
22	One Factor at a Time Analysis to Modify Potting Technique for Manufacturing of Bubble-Free High-Voltage Polyester Insulated Automotive Coils. Designs, 2022, 6, 44.	1.3	2
23	Tool wear prediction in face milling of stainless steel using singular generative adversarial network and LSTM deep learning models. International Journal of Advanced Manufacturing Technology, 2022, 121, 723-736.	1.5	39
24	Machining parameter optimization and experimental investigations of nano-graphene mixed electrical discharge machining of nitinol shape memory alloy. Journal of Materials Research and Technology, 2022, 19, 653-668.	2.6	41
25	Optimization of Bead Morphology for GMAW-Based Wire-Arc Additive Manufacturing of 2.25 Cr-1.0 Mo Steel Using Metal-Cored Wires. Applied Sciences (Switzerland), 2022, 12, 5060.	1.3	20
26	Evaluation of Mechanical and Tribological Aspect of Self-Lubricating Cu-6Gr Composites Reinforced with SiC–WC Hybrid Particles. Nanomaterials, 2022, 12, 2154.	1.9	12
27	Recent Advances in Bipedal Walking Robots: Review of Gait, Drive, Sensors and Control Systems. Sensors, 2022, 22, 4440.	2.1	30
28	Assessment of Hole Quality, Thermal Analysis, and Chip Formation during Dry Drilling Process of Gray Cast Iron ASTM A48. Eng, 2022, 3, 301-310.	1.2	1
29	Experimental Investigation of Effect of Fiber Length on Mechanical, Wear, and Morphological Behavior of Silane-Treated Pineapple Leaf Fiber Reinforced Polymer Composites. Fibers, 2022, 10, 56.	1.8	32
30	Parametric Optimization and Influence of Near-Dry WEDM Variables on Nitinol Shape Memory Alloy. Micromachines, 2022, 13, 1026.	1.4	12
31	Plant-mediated synthesis of NiO(II) from Lantana camara flowers: a study of photo-catalytic, electrochemical, and biological activities. Journal of Materials Research and Technology, 2022, 19, 4543-4556.	2.6	6
32	Microstructural investigation and hole quality evaluation in S2/FM94 glass-fibre composites under dry and cryogenic conditions. Journal of Reinforced Plastics and Composites, 2021, 40, 273-293.	1.6	28
33	Effect of Tool Coating and Cutting Parameters on Surface Roughness and Burr Formation during Micromilling of Inconel 718. Metals, 2021, 11, 167.	1.0	26
34	Effect of Seawater Ageing on Fracture Toughness of Stitched Glass Fiber/Epoxy Laminates for Marine Applications. Journal of Marine Science and Engineering, 2021, 9, 196.	1.2	13
35	Effect of Cryogenic Grinding on Fatigue Life of Additively Manufactured Maraging Steel. Materials, 2021, 14, 1245.	1.3	16
36	Experimental Analysis and Optimization of EDM Parameters on HcHcr Steel in Context with Different Electrodes and Dielectric Fluids Using Hybrid Taguchi-Based PCA-Utility and CRITIC-Utility Approaches. Metals, 2021, 11, 419.	1.0	70

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37	Establishing the Relationship between Cutting Speed and Output Parameters in Belt Grinding on Steels, Aluminum and Nickel Alloys: Development of Recommendations. Materials, 2021, 14, 1974.	1.3	5
38	Multi-spindle drilling of Al2024 alloy and the effect of TiAlN and TiSiN-coated carbide drills for productivity improvement. International Journal of Advanced Manufacturing Technology, 2021, 114, 3047-3056.	1.5	9
39	The effects of through tool cryogenic machining on the hole quality in GLAREÂ® fibre metal laminates. Journal of Manufacturing Processes, 2021, 64, 996-1012.	2.8	29
40	Effect of cutting parameters on thrust force, torque, hole quality and dust generation during drilling of GLARE 2B laminates. Composite Structures, 2021, 261, 113562.	3.1	21
41	Evaluation of Cutting-Tool Coating on the Surface Roughness and Hole Dimensional Tolerances during Drilling of Al6061-T651 Alloy. Materials, 2021, 14, 1783.	1.3	41
42	Parametric Optimization for Cutting Forces and Material Removal Rate in the Turning of AISI 5140. Machines, 2021, 9, 90.	1.2	25
43	The Effect of Zn and Znâ€"WO3 Composites Nano-Coatings Deposition on Hardness and Corrosion Resistance in Steel Substrate. Materials, 2021, 14, 2253.	1.3	15
44	Effect of Cutting Parameters and Tool Geometry on the Performance Analysis of One-Shot Drilling Process of AA2024-T3. Metals, 2021, 11, 854.	1.0	18
45	The effect of cryogenic machining of S2 glass fibre composite on the hole form and dimensional tolerances. International Journal of Advanced Manufacturing Technology, 2021, 115, 125-140.	1.5	28
46	Analysis of Hole Quality and Chips Formation in the Dry Drilling Process of Al7075-T6. Metals, 2021, 11, 891.	1.0	19
47	Evaluation of the Surface Defects and Dimensional Tolerances in Multi-Hole Drilling of AA5083, AA6061, and AA2024. Applied Sciences (Switzerland), 2021, 11, 4285.	1.3	8
48	Measurement of Micro Burr and Slot Widths through Image Processing: Comparison of Manual and Automated Measurements in Micro-Milling. Sensors, 2021, 21, 4432.	2.1	25
49	Electrodeposition Based Preparation of Znâ€"Ni Alloy and Znâ€"Niâ€"WC Nano-Composite Coatings for Corrosion-Resistant Applications. Coatings, 2021, 11, 712.	1.2	26
50	Optimization Study on Surface Roughness and Tribological Behavior of Recycled Cast Iron Reinforced Bronze MMCs Produced by Hot Pressing. Materials, 2021, 14, 3364.	1.3	13
51	Optimization of Activated Tungsten Inert Gas Welding Process Parameters Using Heat Transfer Search Algorithm: With Experimental Validation Using Case Studies. Metals, 2021, 11, 981.	1.0	29
52	Prediction of Transient Temperature Distributions for Laser Welding of Dissimilar Metals. Applied Sciences (Switzerland), 2021, 11, 5829.	1.3	11
53	Surface Roughness Evaluation in Thin EN AW-6086-T6 Alloy Plates after Face Milling Process with Different Strategies. Materials, 2021, 14, 3036.	1.3	18
54	Analysis of Microstructure and Mechanical Properties of Bismuth-Doped SAC305 Lead-Free Solder Alloy at High Temperature. Metals, 2021, 11, 1077.	1.0	7

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55	Tribological Aspects, Optimization and Analysis of Cu-B-CrC Composites Fabricated by Powder Metallurgy. Materials, 2021, 14, 4217.	1.3	41
56	The Effect of TiN-, TiCN-, TiAlN-, and TiSiN Coated Tools on the Surface Defects and Geometric Tolerances of Holes in Multi-Spindle Drilling of Al2024 Alloy. Metals, 2021, 11, 1103.	1.0	7
57	Corrosion Behaviour of High-Strength Al 7005 Alloy and Its Composites Reinforced with Industrial Waste-Based Fly Ash and Glass Fibre: Comparison of Stir Cast and Extrusion Conditions. Materials, 2021, 14, 3929.	1.3	26
58	Prioritizing Energy-Intensive Machining Operations and Gauging the Influence of Electric Parameters: An Industrial Case Study. Energies, 2021, 14, 4761.	1.6	39
59	Managing Risks in the Improved Model of Rolling Mill Loading: A Case Study. Journal of Risk and Financial Management, 2021, 14, 359.	1.1	3
60	Relationship between Pressure and Output Parameters in Belt Grinding of Steels and Nickel Alloy. Materials, 2021, 14, 4704.	1.3	4
61	Experimental investigation of selective laser melting parameters for higher surface quality and microhardness properties: taguchi and super ranking concept approaches. Journal of Materials Research and Technology, 2021, 14, 2586-2600.	2.6	22
62	Towards Analysis and Optimization for Contact Zone Temperature Changes and Specific Wear Rate of Metal Matrix Composite Materials Produced from Recycled Waste. Materials, 2021, 14, 5145.	1.3	11
63	Experimental Investigations and Pareto Optimization of Fiber Laser Cutting Process of Ti6Al4V. Metals, 2021, 11, 1461.	1.0	28
64	Image Processing of Mg-Al-Sn Alloy Microstructures for Determining Phase Ratios and Grain Size and Correction with Manual Measurement. Materials, 2021, 14, 5095.	1.3	19
65	Experimental investigations and optimization of MWCNTs-mixed WEDM process parameters of nitinol shape memory alloy. Journal of Materials Research and Technology, 2021, 15, 2152-2169.	2.6	46
66	Experimental investigation on welding of 2.25 Cr-1.0 Mo steel with regulated metal deposition and GMAW technique incorporating metal-cored wires. Journal of Materials Research and Technology, 2021, 15, 1007-1016.	2.6	14
67	Experimental investigation and optimization of compression moulding parameters for MWCNT/glass/kevlar/epoxy composites on mechanical and tribological properties. Journal of Materials Research and Technology, 2021, 15, 327-341.	2.6	32
68	Intelligent System to Analyze Data About Powered Wheelchair Drivers. Advances in Intelligent Systems and Computing, 2021, , 584-593.	0.5	4
69	A Review of Indirect Tool Condition Monitoring Systems and Decision-Making Methods in Turning: Critical Analysis and Trends. Sensors, 2021, 21, 108.	2.1	148
70	Numerical Investigation of Microchannel Heat Sink with Trefoil Shape Ribs. Energies, 2021, 14, 6764.	1.6	13
71	Elucidating the Effect of Step Cooling Heat Treatment on the Properties of 2.25 Crâ€"1.0 Mo Steel Welded with a Combination of GMAW Techniques Incorporating Metal-Cored Wires. Materials, 2021, 14, 6033.	1.3	7
72	An Innovative Agile Model of Smart Leanâ€"Green Approach for Sustainability Enhancement in Industry 4.0. Journal of Open Innovation: Technology, Market, and Complexity, 2021, 7, 215.	2.6	37

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73	Low velocity impact (LVI) and flexure-after-impact (FAI) behaviours of rotationally moulded sandwich structures. Journal of Materials Research and Technology, 2021, 15, 3915-3927.	2.6	8
74	Modelling and Analysis of Surface Evolution on Turning of Hard-to-Cut CLARM 30NiCrMoV14 Steel Alloy. Metals, 2021, 11, 1751.	1.0	9
75	Optimization and Modeling of Material Removal Rate in Wire-EDM of Silicon Particle Reinforced Al6061 Composite. Materials, 2021, 14, 6420.	1.3	18
76	An Agile System to Enhance Productivity through a Modified Value Stream Mapping Approach in Industry 4.0: A Novel Approach. Sustainability, 2021, 13, 11997.	1.6	24
77	Skull Thickness Calculation Using Thermal Analysis and Finite Elements. Applied Sciences (Switzerland), 2021, 11, 10483.	1.3	8
78	Study of a Multicriterion Decision-Making Approach to the MQL Turning of AISI 304 Steel Using Hybrid Nanocutting Fluid. Materials, 2021, 14, 7207.	1.3	30
79	Investigation on microstructure, mechanical, and tribological performance of Cu base hybrid composite materials. Journal of Materials Research and Technology, 2021, 15, 6990-7003.	2.6	39
80	Corrosion Resistance and Surface Bioactivity of Ti6Al4V Alloy after Finish Turning under Ecological Cutting Conditions. Materials, 2021, 14, 6917.	1.3	11
81	Analysis and Optimization of Dimensional Accuracy and Porosity of High Impact Polystyrene Material Printed by FDM Process: PSO, JAYA, Rao, and Bald Eagle Search Algorithms. Materials, 2021, 14, 7479.	1.3	9
82	Integration of Fuzzy AHP and Fuzzy TOPSIS Methods for Wire Electric Discharge Machining of Titanium (Ti6Al4V) Alloy Using RSM. Materials, 2021, 14, 7408.	1.3	35
83	Product Quality Planning in Laser Metal Processing Based on Open Innovation Using Quality Function Deployment. Journal of Open Innovation: Technology, Market, and Complexity, 2021, 7, 240.	2.6	3
84	A review: drilling performance and hole quality of aluminium alloys for aerospace applications. Journal of Materials Research and Technology, 2020, 9, 12484-12500.	2.6	131
85	Modeling of Cutting Parameters and Tool Geometry for Multi-Criteria Optimization of Surface Roughness and Vibration via Response Surface Methodology in Turning of AISI 5140 Steel. Materials, 2020, 13, 4242.	1.3	80
86	Machinability of Al2024, Al6061, and Al5083 alloys using multi-hole simultaneous drilling approach. Journal of Materials Research and Technology, 2020, 9, 10991-11002.	2.6	38
87	Machine Learning Modelling and Feature Engineering in Seismology Experiment. Sensors, 2020, 20, 4228.	2.1	8
88	Feasibility of tool configuration and the effect of tool material, and tool geometry in multi-hole simultaneous drilling of Al2024. International Journal of Advanced Manufacturing Technology, 2020, 111, 861-879.	1.5	28
89	An Intelligent Monitoring System for a Crude Oil Distillation Column. , 2020, , .		2
90	Optimization and Analysis of Surface Roughness, Flank Wear and 5 Different Sensorial Data via Tool Condition Monitoring System in Turning of AISI 5140. Sensors, 2020, 20, 4377.	2.1	78

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91	Performance Analysis of Multi-Spindle Drilling of Al2024 with TiN and TiCN Coated Drills Using Experimental and Artificial Neural Networks Technique. Applied Sciences (Switzerland), 2020, 10, 8633.	1.3	20
92	The effect of cutting tool coating on the form and dimensional errors of machined holes in GLAREÂ® fibre metal laminates. International Journal of Advanced Manufacturing Technology, 2020, 107, 2817-2832.	1.5	35
93	Multi-hole simultaneous drilling of aluminium alloy: A preliminary study and evaluation against one-shot drilling process. Journal of Materials Research and Technology, 2020, 9, 3994-4006.	2.6	17
94	Optimization and Modeling of Process Parameters in Multi-Hole Simultaneous Drilling Using Taguchi Method and Fuzzy Logic Approach. Materials, 2020, 13, 680.	1.3	61
95	Recent advances in drilling of carbon fiberâ€"reinforced polymers for aerospace applications: a review. International Journal of Advanced Manufacturing Technology, 2019, 105, 2289-2308.	1.5	151
96	Performance of SAC305 and SAC305-0.4La lead free electronic solders at high temperature. Soldering and Surface Mount Technology, 2019, 31, 250-260.	0.9	17
97	A review: microstructure and properties of tin-silver-copper lead-free solder series for the applications of electronics. Soldering and Surface Mount Technology, 2019, 32, 115-126.	0.9	16
98	Effect of machining parameters and cutting tool coating on hole quality in dry drilling of fibre metal laminates. Composite Structures, 2019, 212, 159-174.	3.1	46
99	The effect of drilling parameters, cooling technology, and fiber orientation on hole perpendicularity error in fiber metal laminates. International Journal of Advanced Manufacturing Technology, 2018, 97, 4081-4099.	1.5	35
100	Microstructural investigation of drilling induced damage in fibre metal laminates constituents. Composites Part A: Applied Science and Manufacturing, 2017, 97, 166-178.	3.8	39
101	An Investigation of burrs, chip formation, hole size, circularity and delamination during drilling operation of GLARE using ANOVA. Composite Structures, 2017, 159, 745-760.	3.1	93
102	3D Finite Element Modelling of Cutting Forces in Drilling Fibre Metal Laminates and Experimental Hole Quality Analysis. Applied Composite Materials, 2017, 24, 113-137.	1.3	51
103	Evaluation of Workpiece Temperature during Drilling of GLARE Fiber Metal Laminates Using Infrared Techniques: Effect of Cutting Parameters, Fiber Orientation and Spray Mist Application. Materials, 2016, 9, 622.	1.3	41
104	Evaluation of cryogenic cooling and minimum quantity lubrication effects on machining GLARE laminates using design of experiments. Journal of Cleaner Production, 2016, 135, 533-548.	4.6	76
105	Assessment of cutting forces and hole quality in drilling Al2024 aluminium alloy: experimental and finite element study. International Journal of Advanced Manufacturing Technology, 2016, 87, 2041-2061.	1.5	72
106	The effects of minimum quantity lubrication and cryogenic liquid nitrogen cooling on drilled hole quality in GLARE fibre metal laminates. Materials and Design, 2016, 89, 996-1006.	3.3	49
107	An experimental study on drilling of unidirectional GLARE fibre metal laminates. Composite Structures, 2015, 133, 794-808.	3.1	81