

Khaled Giasin

List of Publications by Year in descending order

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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	Recent advances in drilling of carbon fiber-reinforced polymers for aerospace applications: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2289-2308.	1.5	151
2	A Review of Indirect Tool Condition Monitoring Systems and Decision-Making Methods in Turning: Critical Analysis and Trends. <i>Sensors</i> , 2021, 21, 108.	2.1	148
3	A review: drilling performance and hole quality of aluminium alloys for aerospace applications. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12484-12500.	2.6	131
4	An Investigation of burrs, chip formation, hole size, circularity and delamination during drilling operation of GLARE using ANOVA. <i>Composite Structures</i> , 2017, 159, 745-760.	3.1	93
5	An experimental study on drilling of unidirectional GLARE fibre metal laminates. <i>Composite Structures</i> , 2015, 133, 794-808.	3.1	81
6	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. <i>Materials</i> , 2020, 13, 4242.	1.3	80
7	Optimization and Analysis of Surface Roughness, Flank Wear and 5 Different Sensorial Data via Tool Condition Monitoring System in Turning of AISI 5140. <i>Sensors</i> , 2020, 20, 4377.	2.1	78
8	Evaluation of cryogenic cooling and minimum quantity lubrication effects on machining GLARE laminates using design of experiments. <i>Journal of Cleaner Production</i> , 2016, 135, 533-548.	4.6	76
9	Assessment of cutting forces and hole quality in drilling Al2024 aluminium alloy: experimental and finite element study. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 2041-2061.	1.5	72
10	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. <i>Metals</i> , 2021, 11, 419.	1.0	70
11	Optimization and Modeling of Process Parameters in Multi-Hole Simultaneous Drilling Using Taguchi Method and Fuzzy Logic Approach. <i>Materials</i> , 2020, 13, 680.	1.3	61
12	Tool wear, surface roughness, cutting temperature and chips morphology evaluation of Al/TiN coated carbide cutting tools in milling of Cu-Ba-CrC based ceramic matrix composites. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1243-1259.	2.6	55
13	3D Finite Element Modelling of Cutting Forces in Drilling Fibre Metal Laminates and Experimental Hole Quality Analysis. <i>Applied Composite Materials</i> , 2017, 24, 113-137.	1.3	51
14	The effects of minimum quantity lubrication and cryogenic liquid nitrogen cooling on drilled hole quality in GLARE fibre metal laminates. <i>Materials and Design</i> , 2016, 89, 996-1006.	3.3	49
15	Effect of machining parameters and cutting tool coating on hole quality in dry drilling of fibre metal laminates. <i>Composite Structures</i> , 2019, 212, 159-174.	3.1	46
16	Experimental investigations and optimization of MWCNTs-mixed WEDM process parameters of nitinol shape memory alloy. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2152-2169.	2.6	46
17	Effect of mixing method and particle size on hardness and compressive strength of aluminium based metal matrix composite prepared through powder metallurgy route. <i>Journal of Materials Research and Technology</i> , 2022, 18, 282-292.	2.6	46
18	Evaluation of Workpiece Temperature during Drilling of GLARE Fiber Metal Laminates Using Infrared Techniques: Effect of Cutting Parameters, Fiber Orientation and Spray Mist Application. <i>Materials</i> , 2016, 9, 622.	1.3	41

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19	Evaluation of Cutting-Tool Coating on the Surface Roughness and Hole Dimensional Tolerances during Drilling of Al6061-T651 Alloy. <i>Materials</i> , 2021, 14, 1783.	1.3	41
20	Tribological Aspects, Optimization and Analysis of Cu-B-CrC Composites Fabricated by Powder Metallurgy. <i>Materials</i> , 2021, 14, 4217.	1.3	41
21	Machining parameter optimization and experimental investigations of nano-graphene mixed electrical discharge machining of nitinol shape memory alloy. <i>Journal of Materials Research and Technology</i> , 2022, 19, 653-668.	2.6	41
22	Microstructural investigation of drilling induced damage in fibre metal laminates constituents. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 97, 166-178.	3.8	39
23	Prioritizing Energy-Intensive Machining Operations and Gauging the Influence of Electric Parameters: An Industrial Case Study. <i>Energies</i> , 2021, 14, 4761.	1.6	39
24	Investigation on microstructure, mechanical, and tribological performance of Cu base hybrid composite materials. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6990-7003.	2.6	39
25	Tool wear prediction in face milling of stainless steel using singular generative adversarial network and LSTM deep learning models. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 121, 723-736.	1.5	39
26	Machinability of Al2024, Al6061, and Al5083 alloys using multi-hole simultaneous drilling approach. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10991-11002.	2.6	38
27	An Innovative Agile Model of Smart Lean“Green Approach for Sustainability Enhancement in Industry 4.0. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2021, 7, 215.	2.6	37
28	The effect of drilling parameters, cooling technology, and fiber orientation on hole perpendicularity error in fiber metal laminates. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 4081-4099.	1.5	35
29	The effect of cutting tool coating on the form and dimensional errors of machined holes in GLARE® fibre metal laminates. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 2817-2832.	1.5	35
30	Integration of Fuzzy AHP and Fuzzy TOPSIS Methods for Wire Electric Discharge Machining of Titanium (Ti6Al4V) Alloy Using RSM. <i>Materials</i> , 2021, 14, 7408.	1.3	35
31	Experimental investigation and optimization of compression moulding parameters for MWCNT/glass/kevlar/epoxy composites on mechanical and tribological properties. <i>Journal of Materials Research and Technology</i> , 2021, 15, 327-341.	2.6	32
32	Performance of MQL and Nano-MQL Lubrication in Machining ER7 Steel for Train Wheel Applications. <i>Lubricants</i> , 2022, 10, 48.	1.2	32
33	Experimental Investigation of Effect of Fiber Length on Mechanical, Wear, and Morphological Behavior of Silane-Treated Pineapple Leaf Fiber Reinforced Polymer Composites. <i>Fibers</i> , 2022, 10, 56.	1.8	32
34	Estimation, optimization and analysis based investigation of the energy consumption in machinability of ceramic-based metal matrix composite materials. <i>Journal of Materials Research and Technology</i> , 2022, 17, 2987-2998.	2.6	31
35	Study of a Multicriterion Decision-Making Approach to the MQL Turning of AISI 304 Steel Using Hybrid Nanocutting Fluid. <i>Materials</i> , 2021, 14, 7207.	1.3	30
36	Recent Advances in Bipedal Walking Robots: Review of Gait, Drive, Sensors and Control Systems. <i>Sensors</i> , 2022, 22, 4440.	2.1	30

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37	The effects of through tool cryogenic machining on the hole quality in GLARE® fibre metal laminates. <i>Journal of Manufacturing Processes</i> , 2021, 64, 996-1012.	2.8	29
38	Optimization of Activated Tungsten Inert Gas Welding Process Parameters Using Heat Transfer Search Algorithm: With Experimental Validation Using Case Studies. <i>Metals</i> , 2021, 11, 981.	1.0	29
39	Feasibility of tool configuration and the effect of tool material, and tool geometry in multi-hole simultaneous drilling of Al2024. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 861-879.	1.5	28
40	Microstructural investigation and hole quality evaluation in S2/FM94 glass-fibre composites under dry and cryogenic conditions. <i>Journal of Reinforced Plastics and Composites</i> , 2021, 40, 273-293.	1.6	28
41	The effect of cryogenic machining of S2 glass fibre composite on the hole form and dimensional tolerances. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 125-140.	1.5	28
42	Experimental Investigations and Pareto Optimization of Fiber Laser Cutting Process of Ti6Al4V. <i>Metals</i> , 2021, 11, 1461.	1.0	28
43	A Comparative Study to Predict Bearing Degradation Using Discrete Wavelet Transform (DWT), Tabular Generative Adversarial Networks (TGAN) and Machine Learning Models. <i>Machines</i> , 2022, 10, 176.	1.2	27
44	Effect of Tool Coating and Cutting Parameters on Surface Roughness and Burr Formation during Micromilling of Inconel 718. <i>Metals</i> , 2021, 11, 167.	1.0	26
45	Electrodeposition Based Preparation of Zn-Ni Alloy and Zn-Ni-WC Nano-Composite Coatings for Corrosion-Resistant Applications. <i>Coatings</i> , 2021, 11, 712.	1.2	26
46	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. <i>Materials</i> , 2021, 14, 3929.	1.3	26
47	Experimental investigations and prediction of WEDMed surface of nitinol SMA using SinGAN and DenseNet deep learning model. <i>Journal of Materials Research and Technology</i> , 2022, 18, 325-337.	2.6	26
48	Parametric Optimization for Cutting Forces and Material Removal Rate in the Turning of AISI 5140. <i>Machines</i> , 2021, 9, 90.	1.2	25
49	Measurement of Micro Burr and Slot Widths through Image Processing: Comparison of Manual and Automated Measurements in Micro-Milling. <i>Sensors</i> , 2021, 21, 4432.	2.1	25
50	Investigation into the fatigue properties of flax fibre epoxy composites and hybrid composites based on flax and glass fibres. <i>Composite Structures</i> , 2022, 281, 115046.	3.1	25
51	An Agile System to Enhance Productivity through a Modified Value Stream Mapping Approach in Industry 4.0: A Novel Approach. <i>Sustainability</i> , 2021, 13, 11997.	1.6	24
52	Experimental investigation of selective laser melting parameters for higher surface quality and microhardness properties: taguchi and super ranking concept approaches. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2586-2600.	2.6	22
53	Effect of cutting parameters on thrust force, torque, hole quality and dust generation during drilling of GLARE 2B laminates. <i>Composite Structures</i> , 2021, 261, 113562.	3.1	21
54	Multi-Response Optimization of Al2O3 Nanopowder-Mixed Wire Electrical Discharge Machining Process Parameters of Nitinol Shape Memory Alloy. <i>Materials</i> , 2022, 15, 2018.	1.3	21

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55	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
56	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
57	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
58	Analysis of Hole Quality and Chips Formation in the Dry Drilling Process of Al7075-T6. Metals, 2021, 11, 891.	1.0	19
59	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
60	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
61	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
62	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
63	Optimization and Modeling of Material Removal Rate in Wire-EDM of Silicon Particle Reinforced Al6061 Composite. Materials, 2021, 14, 6420.	1.3	18
64	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
65	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
66	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
67	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
68	Effect of Cryogenic Grinding on Fatigue Life of Additively Manufactured Maraging Steel. Materials, 2021, 14, 1245.	1.3	16
69	The Effect of Zn and Zn-WO3 Composites Nano-Coatings Deposition on Hardness and Corrosion Resistance in Steel Substrate. Materials, 2021, 14, 2253.	1.3	15
70	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
71	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
72	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

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73	Numerical Investigation of Microchannel Heat Sink with Trefoil Shape Ribs. <i>Energies</i> , 2021, 14, 6764.	1.6	13
74	Effect of Fibre Orientation on Impact Damage Resistance of S2/FM94 Glass Fibre Composites for Aerospace Applications: An Experimental Evaluation and Numerical Validation. <i>Polymers</i> , 2022, 14, 95.	2.0	13
75	Hand and Abrasive Flow Polished Tungsten Carbide Die: Optimization of Surface Roughness, Polishing Time and Comparative Analysis in Wire Drawing. <i>Materials</i> , 2022, 15, 1287.	1.3	12
76	Evaluation of the Mechanical Properties and Drilling of Glass Bead/Fiber-Reinforced Polyamide 66 (PA66)-Based Hybrid Polymer Composites. <i>Materials</i> , 2022, 15, 2765.	1.3	12
77	Investigation of machinability of Tiâ€“B-SiCp reinforced Cu hybrid composites in dry turning. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1474-1487.	2.6	12
78	Evaluation of Mechanical and Tribological Aspect of Self-Lubricating Cu-6Gr Composites Reinforced with SiCâ€“WC Hybrid Particles. <i>Nanomaterials</i> , 2022, 12, 2154.	1.9	12
79	Parametric Optimization and Influence of Near-Dry WEDM Variables on Nitinol Shape Memory Alloy. <i>Micromachines</i> , 2022, 13, 1026.	1.4	12
80	Prediction of Transient Temperature Distributions for Laser Welding of Dissimilar Metals. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5829.	1.3	11
81	Towards Analysis and Optimization for Contact Zone Temperature Changes and Specific Wear Rate of Metal Matrix Composite Materials Produced from Recycled Waste. <i>Materials</i> , 2021, 14, 5145.	1.3	11
82	Corrosion Resistance and Surface Bioactivity of Ti6Al4V Alloy after Finish Turning under Ecological Cutting Conditions. <i>Materials</i> , 2021, 14, 6917.	1.3	11
83	Influence of extrusion parameters on drilling machinability of AZ31 magnesium alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 2082-2094.	1.4	10
84	Multi-spindle drilling of Al2024 alloy and the effect of TiAlN and TiSiN-coated carbide drills for productivity improvement. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 3047-3056.	1.5	9
85	Modelling and Analysis of Surface Evolution on Turning of Hard-to-Cut CLARM 30NiCrMoV14 Steel Alloy. <i>Metals</i> , 2021, 11, 1751.	1.0	9
86	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. <i>Materials</i> , 2021, 14, 7479.	1.3	9
87	Deployment of Interpretive Structural Modeling in Barriers to Industry 4.0: A Case of Small and Medium Enterprises. <i>Journal of Risk and Financial Management</i> , 2022, 15, 171.	1.1	9
88	Machine Learning Modelling and Feature Engineering in Seismology Experiment. <i>Sensors</i> , 2020, 20, 4228.	2.1	8
89	Evaluation of the Surface Defects and Dimensional Tolerances in Multi-Hole Drilling of AA5083, AA6061, and AA2024. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4285.	1.3	8
90	Low velocity impact (LVI) and flexure-after-impact (FAI) behaviours of rotationally moulded sandwich structures. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3915-3927.	2.6	8

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91	Skull Thickness Calculation Using Thermal Analysis and Finite Elements. Applied Sciences (Switzerland), 2021, 11, 10483.	1.3	8
92	Analysis of Microstructure and Mechanical Properties of Bismuth-Doped SAC305 Lead-Free Solder Alloy at High Temperature. Metals, 2021, 11, 1077.	1.0	7
93	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
94	Elucidating the Effect of Step Cooling Heat Treatment on the Properties of 2.25 Cr-1.0 Mo Steel Welded with a Combination of GMAW Techniques Incorporating Metal-Cored Wires. Materials, 2021, 14, 6033.	1.3	7
95	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
96	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
97	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
98	Relationship between Pressure and Output Parameters in Belt Grinding of Steels and Nickel Alloy. Materials, 2021, 14, 4704.	1.3	4
99	Intelligent System to Analyze Data About Powered Wheelchair Drivers. Advances in Intelligent Systems and Computing, 2021, , 584-593.	0.5	4
100	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
101	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
102	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
103	An Intelligent Monitoring System for a Crude Oil Distillation Column. , 2020, , .		2
104	Development of an Oxide Layer on Al 6061 Using Plasma Arc Electrolytic Oxidation in Silicate-Based Electrolyte. Materials, 2022, 15, 1616.	1.3	2
105	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
106	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
107	Assessment of Surface Integrity and Dust While Drilling of GLARE® FMLs. Lecture Notes in Mechanical Engineering, 2022, , 93-102.	0.3	0