

Aqib Mashood Khan

List of Publications by Year in descending order

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75
papers

2,715
citations

172457

29
h-index

206112

48
g-index

76
all docs

76
docs citations

76
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive manufacturing is sustainable technology: citespace based bibliometric investigations of fused deposition modeling approach. <i>Rapid Prototyping Journal</i> , 2022, 28, 654-675.	3.2	16
2	Thermophysical, tribological, and machinability characteristics of newly developed sustainable hybrid lubri-coolants for milling Ti-6Al-4V. <i>Journal of Manufacturing Processes</i> , 2022, 73, 572-594.	5.9	15
3	Comparison of machinability and economic aspects in turning of Haynes-25 alloy under novel hybrid cryogenic-LN oils-on-water approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 427-445.	3.0	14
4	Measurement of machining characteristics under novel dry ice blasting cooling assisted milling of AISI 52100 tool steel. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 191, 110821.	5.0	18
5	Holistic sustainability assessment of novel oscillating-heat-pipe grinding-wheel in Earth-friendly abrasive machining. <i>Journal of Cleaner Production</i> , 2022, 352, 131486.	9.3	11
6	Tool wear mechanisms and its influence on machining tribology of face milled titanium alloy under sustainable hybrid lubri-cooling. <i>Tribology International</i> , 2022, 170, 107497.	5.9	13
7	Tribology and machinability performance of hybrid Al ₂ O ₃ -MWCNTs nanofluids-assisted MQL for milling Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 2127-2144.	3.0	16
8	Assessment of energy consumption, carbon emissions and cost metrics under hybrid MQL-Dry ice blasting system: A novel cleaner production technology for manufacturing sectors. <i>Journal of Cleaner Production</i> , 2022, 360, 132111.	9.3	16
9	Energy consumption, carbon emissions, product cost, and process time in incremental sheet forming process: A holistic review from sustainability perspective. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2022, 236, 1683-1705.	2.4	3
10	Holistic 3D simulations and experimental investigation of surface quality and residual stresses in shot peening. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 121, 1027-1047.	3.0	4
11	A novel low-pressure hybrid dry ice blasting system for improving the tribological and machining characteristics of AISI-52100 tool steel. <i>Journal of Manufacturing Processes</i> , 2022, 80, 152-160.	5.9	14
12	Resource saving by optimization and machining environments for sustainable manufacturing: A review and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112660.	16.4	68
13	Cryogenic-LN and conventional emulsion assisted machining of hardened steel: Comparison from sustainability perspective. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2021, 235, 2310-2322.	2.4	19
14	Dynamic information of the time-dependent tobullian biomolecular structure using a high-accuracy size-depending of Ti-6Al-4V alloy. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 1-16.	3.5	29
15	Tribological behavior of WC-6Co against Ti-6Al-4V alloy under novel cryogenic ethanol-ester oil dry-ice hybrid lubri-cooling. <i>Tribology International</i> , 2021, 156, 106812.	5.9	12
16	Holistic sustainability assessment of hybrid Al-GnP-enriched nanofluids and textured tool in machining of Ti-6Al-4V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 731-743.	3.0	16
17	Environment and economic burden of sustainable cooling/lubrication methods in machining of Inconel-800. <i>Journal of Cleaner Production</i> , 2021, 287, 125074.	9.3	77
18	Heat Transfer Efficiency of Cryogenic-LN ₂ and CO ₂ -snow and their application in the Turning of Ti-6Al-4V. <i>International Journal of Heat and Mass Transfer</i> , 2021, 166, 120716.	4.8	29

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19	Sustainable milling of Ti-6Al-4V: A trade-off between energy efficiency, carbon emissions and machining characteristics under MQL and cryogenic environment. <i>Journal of Cleaner Production</i> , 2021, 281, 125374.	9.3	95
20	Energy, Environmental, Economic, and Technological Analysis of Al-GnP Nanofluid- and Cryogenic LN ₂ -Assisted Sustainable Machining of Ti-6Al-4V Alloy. <i>Metals</i> , 2021, 11, 88.	2.3	15
21	An Ultrasonic-Based Detection of Air-Leakage for the Unclosed Components of Aircraft. <i>Aerospace</i> , 2021, 8, 55.	2.2	3
22	Assessment of cumulative energy demand, production cost, and CO ₂ emission from hybrid CryoMQL assisted machining. <i>Journal of Cleaner Production</i> , 2021, 292, 125952.	9.3	18
23	Development of process performance simulator (PPS) and parametric optimization for sustainable machining considering carbon emission, cost and energy aspects. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 139, 110738.	16.4	24
24	Prediction of Transient Temperature Distributions for Laser Welding of Dissimilar Metals. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5829.	2.5	11
25	A review on conventional and advanced minimum quantity lubrication approaches on performance measures of grinding process. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 117, 729-750.	3.0	55
26	Sustainability-based holistic assessment and determination of optimal resource consumption for energy-efficient machining of hardened steel. <i>Journal of Cleaner Production</i> , 2021, 319, 128674.	9.3	15
27	Modeling, multi-objective optimization and cost estimation of bone drilling under micro-cooling spray technique: an integrated analysis. <i>International Journal on Interactive Design and Manufacturing</i> , 2020, 14, 435-450.	2.2	11
28	Machining characteristics based life cycle assessment in eco-benign turning of pure titanium alloy. <i>Journal of Cleaner Production</i> , 2020, 251, 119598.	9.3	69
29	Sustainable Manufacturing and Parametric Analysis of Mild Steel Grade 60 by Deploying CNC Milling Machine and Taguchi Method. <i>Metals</i> , 2020, 10, 1303.	2.3	13
30	Energy-Based Novel Quantifiable Sustainability Value Assessment Method for Machining Processes. <i>Energies</i> , 2020, 13, 6144.	3.1	8
31	Optimization of machining parameters of aluminum alloy 6026-T9 under MQL-assisted turning process. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10916-10940.	5.8	60
32	State-Of-The-Art and Trends in CO ₂ Laser Cutting of Polymeric Materials—A Review. <i>Materials</i> , 2020, 13, 3839.	2.9	41
33	Machinability investigations of hardened steel with biodegradable oil-based MQL spray system. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 735-748.	3.0	56
34	Influence of CO ₂ -snow and subzero MQL on thermal aspects in the machining of Ti-6Al-4V. <i>Applied Thermal Engineering</i> , 2020, 177, 115480.	6.0	44
35	Tool wear, surface quality, and residual stresses analysis of micro-machined additive manufactured Ti-6Al-4V under dry and MQL conditions. <i>Tribology International</i> , 2020, 151, 106408.	5.9	69
36	Comprehensive analysis on orthopedic drilling: A state-of-the-art review. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 537-561.	1.8	20

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37	Investigation on laser-induced oxidation assisted micro-milling of Inconel 718. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 1102-1112.	2.4	6
38	Research on surface residual stresses generated by milling Ti6Al4V alloy under different pre-stresses. International Journal of Advanced Manufacturing Technology, 2020, 107, 2597-2608.	3.0	6
39	Bioactivity measurement of commercially pure titanium processed by micro-electric discharge drilling. International Journal of Advanced Manufacturing Technology, 2020, 107, 2797-2805.	3.0	10
40	Modeling and performance evaluation of Al ₂ O ₃ , MoS ₂ and graphite nanoparticle-assisted MQL in turning titanium alloy: an intelligent approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	36
41	Clean manufacturing of Ti-6Al-4V under CO ₂ -snow and hybrid nanofluids. Procedia Manufacturing, 2020, 48, 131-140.	1.9	8
42	Progress for sustainability in the mist assisted cooling techniques: a critical review. International Journal of Advanced Manufacturing Technology, 2020, 109, 345-376.	3.0	41
43	Sustainability-based performance evaluation of hybrid nanofluid assisted machining. Journal of Cleaner Production, 2020, 257, 120541.	9.3	70
44	Energy-based cost integrated modelling and sustainability assessment of Al-GnP hybrid nanofluid assisted turning of AISI52100 steel. Journal of Cleaner Production, 2020, 257, 120502.	9.3	87
45	Milling of Ti-6Al-4V under hybrid Al ₂ O ₃ -MWCNT nanofluids considering energy consumption, surface quality, and tool wear: a sustainable machining. International Journal of Advanced Manufacturing Technology, 2020, 107, 4141-4157.	3.0	42
46	Analysis of Productivity and Machining Efficiency in Sustainable Machining of Titanium Alloy. Procedia Manufacturing, 2020, 43, 111-118.	1.9	20
47	Axial rotating heat-pipe grinding wheel for eco-benign machining: A novel method for dry profile-grinding of Ti-6Al-4V alloy. Journal of Manufacturing Processes, 2020, 56, 216-227.	5.9	15
48	Curved profiles machining of Ti6Al4V alloy through WEDM: investigations on geometrical errors. Journal of Materials Research and Technology, 2020, 9, 16186-16201.	5.8	46
49	Systems Evaluation through New Grey Relational Analysis Approach: An Application on Thermal Conductivity-Petrophysical Parameters Relationships. Processes, 2019, 7, 348.	2.8	24
50	Direct ink writing of flexible electronic circuits and their characterization. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	18
51	Internal Cracks and Non-Metallic Inclusions as Root Causes of Casting Failure in Sugar Mill Roller Shafts. Materials, 2019, 12, 2474.	2.9	14
52	Evaluating the effect of micro-lubrication in orthopedic drilling. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 1024-1041.	1.8	13
53	Performance Evaluation of Vegetable Oil-Based Nano-Cutting Fluids in Environmentally Friendly Machining of Inconel-800 Alloy. Materials, 2019, 12, 2792.	2.9	84
54	A comprehensive review on minimum quantity lubrication (MQL) in machining processes using nano-cutting fluids. International Journal of Advanced Manufacturing Technology, 2019, 105, 2057-2086.	3.0	159

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55	Multi-objective optimization of process parameter in EDM using low-frequency vibration of workpiece assigned for SKD61. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	19
56	Evaluation of machinability and economic performance in cryogenic-assisted hard turning of $\hat{1}\pm\hat{1}^2$ titanium: a step towards sustainable manufacturing. Machining Science and Technology, 2019, 23, 1022-1046.	2.5	39
57	Prediction of residual stresses generated by machining Ti6Al4V alloy based on the combination of the ALE approach and indentation model. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	7
58	An inverse-identification-based finite element simulation of orthogonal cutting tungsten carbide. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	8
59	Experimental study on surface integrity in cryogenic milling of 35CrMnSiA high-strength steel. International Journal of Advanced Manufacturing Technology, 2019, 103, 605-615.	3.0	14
60	Multi-Objective Optimization of Energy Consumption and Surface Quality in Nanofluid SQCL Assisted Face Milling. Energies, 2019, 12, 710.	3.1	63
61	Effects of hybrid Al ₂ O ₃ -CNT nanofluids and cryogenic cooling on machining of Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2019, 102, 3895-3909.	3.0	174
62	Multi-Response Optimization of Face Milling Performance Considering Tool Path Strategies in Machining of Al-2024. Materials, 2019, 12, 1013.	2.9	29
63	Investigations of Machining Characteristics in the Upgraded MQL-Assisted Turning of Pure Titanium Alloys Using Evolutionary Algorithms. Materials, 2019, 12, 999.	2.9	128
64	Multi-response optimisation of machining aluminium-6061 under eco-friendly electrostatic minimum quantity lubrication environment. International Journal of Machining and Machinability of Materials, 2019, 21, 459.	0.1	5
65	Sustainable machining. Modeling and optimization of temperature and surface roughness in the milling of AISI D2 steel. Industrial Lubrication and Tribology, 2019, 71, 267-277.	1.3	35
66	Numerical modeling and optimization of beta-type Stirling engine. Applied Thermal Engineering, 2019, 149, 385-400.	6.0	43
67	Multi-objective optimization and life cycle assessment of eco-friendly cryogenic N ₂ assisted turning of Ti-6Al-4V. Journal of Cleaner Production, 2019, 210, 121-133.	9.3	165
68	Multi-Response Optimization of Machining Aluminum-6061 under Eco-friendly Electrostatic Minimum Quantity Lubrication (EMQL) Environment. International Journal of Machining and Machinability of Materials, 2019, 21, 1.	0.1	3
69	Experimental study on chip deformation of Ti-6Al-4V titanium alloy in cryogenic cutting. International Journal of Advanced Manufacturing Technology, 2018, 96, 4021-4027.	3.0	34
70	Comment to paper entitled "Experimental investigation of machinability characteristics and multiresponse optimization of end milling in aluminium composites using RSM based grey relational analysis" Measurement 105 (2017) 78-86. Measurement: Journal of the International Measurement Confederation, 2018, 119, 175-177.	5.0	4
71	Investigation of drilling parameters on hybrid polymer composites using grey relational analysis, regression, fuzzy logic, and ANN models: a critical note. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	8
72	Multi-Objective Optimization for Grinding of AISI D2 Steel with Al ₂ O ₃ Wheel under MQL. Materials, 2018, 11, 2269.	2.9	96

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73	Cutting performance of textured polycrystalline diamond tools with composite lyophilic/lyophobic wettabilities. Journal of Materials Processing Technology, 2018, 260, 1-8.	6.3	85
74	A Critical Review: Shape Optimization of Welded Plate Heat Exchangers based on Grey Correlation Theory. Applied Thermal Engineering, 2018, 144, 593-599.	6.0	31
75	A Comparative Study of Face Milling of D2 Steel Using Al2O3 Based Nanofluid Minimum Quantity Lubrication and Minimum Quantity Lubrication. Advances in Science and Technology Research Journal, 2018, 12, 99-105.	0.8	8