

# Aqib Mashood Khan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4524400/publications.pdf>

Version: 2024-02-01

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  | Effects of hybrid Al <sub>2</sub> O <sub>3</sub> -CNT nanofluids and cryogenic cooling on machining of Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2019, 102, 3895-3909.            | 3.0  | 174       |
| 2  | Multi-objective optimization and life cycle assessment of eco-friendly cryogenic N <sub>2</sub> assisted turning of Ti-6Al-4V. Journal of Cleaner Production, 2019, 210, 121-133.                              | 9.3  | 165       |
| 3  | 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       |
| 4  | Investigations of Machining Characteristics in the Upgraded MQL-Assisted Turning of Pure Titanium Alloys Using Evolutionary Algorithms. Materials, 2019, 12, 999.  | 2.9  | 128       |
| 5  | Multi-Objective Optimization for Grinding of AISI D2 Steel with Al <sub>2</sub> O <sub>3</sub> Wheel under MQL. Materials, 2018, 11, 2269.   | 2.9  | 96        |
| 6  | Sustainable milling of Ti-6Al-4V: A trade-off between energy efficiency, carbon emissions and machining characteristics under MQL and cryogenic environment. Journal of Cleaner Production, 2021, 281, 125374. | 9.3  | 95        |
| 7  | 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        |
| 8  | Cutting performance of textured polycrystalline diamond tools with composite lyophilic/lyophobic wettabilities. Journal of Materials Processing Technology, 2018, 260, 1-8.                                    | 6.3  | 85        |
| 9  | Performance Evaluation of Vegetable Oil-Based Nano-Cutting Fluids in Environmentally Friendly Machining of Inconel-800 Alloy. Materials, 2019, 12, 2792.   | 2.9  | 84        |
| 10 | Environment and economic burden of sustainable cooling/lubrication methods in machining of Inconel-800. Journal of Cleaner Production, 2021, 287, 125074.  | 9.3  | 77        |
| 11 | Sustainability-based performance evaluation of hybrid nanofluid assisted machining. Journal of Cleaner Production, 2020, 257, 120541.  | 9.3  | 70        |
| 12 | Machining characteristics based life cycle assessment in eco-benign turning of pure titanium alloy. Journal of Cleaner Production, 2020, 251, 119598.  | 9.3  | 69        |
| 13 | Tool wear, surface quality, and residual stresses analysis of micro-machined additive manufactured Ti-6Al-4V under dry and MQL conditions. Tribology International, 2020, 151, 106408.                         | 5.9  | 69        |
| 14 | Resource saving by optimization and machining environments for sustainable manufacturing: A review and future prospects. Renewable and Sustainable Energy Reviews, 2022, 166, 112660.                          | 16.4 | 68        |
| 15 | Multi-Objective Optimization of Energy Consumption and Surface Quality in Nanofluid SQCL Assisted Face Milling. Energies, 2019, 12, 710.   | 3.1  | 63        |
| 16 | Optimization of machining parameters of aluminum alloy 6026-T9 under MQL-assisted turning process. Journal of Materials Research and Technology, 2020, 9, 10916-10940.   | 5.8  | 60        |
| 17 | Machinability investigations of hardened steel with biodegradable oil-based MQL spray system. International Journal of Advanced Manufacturing Technology, 2020, 108, 735-748.                                  | 3.0  | 56        |
| 18 | A review on conventional and advanced minimum quantity lubrication approaches on performance measures of grinding process. International Journal of Advanced Manufacturing Technology, 2021, 117, 729-750.     | 3.0  | 55        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | 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        |
| 20 | Influence of CO2-snow and subzero MQL on thermal aspects in the machining of Ti-6Al-4V. Applied Thermal Engineering, 2020, 177, 115480.   | 6.0  | 44        |
| 21 | Numerical modeling and optimization of beta-type Stirling engine. Applied Thermal Engineering, 2019, 149, 385-400.  | 6.0  | 43        |
| 22 | Milling of Ti-6Al-4V under hybrid Al2O3-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        |
| 23 | State-Of-The-Art and Trends in CO2 Laser Cutting of Polymeric Materials—A Review. Materials, 2020, 13, 3839.  | 2.9  | 41        |
| 24 | 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        |
| 25 | 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        |
| 26 | Modeling and performance evaluation of Al2O3, MoS2 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        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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        |
| 30 | Multi-Response Optimization of Face Milling Performance Considering Tool Path Strategies in Machining of Al-2024. Materials, 2019, 12, 1013.  | 2.9  | 29        |
| 31 | Dynamic information of the time-dependent tobullian biomolecular structure using a high-accuracy size-dependent theory. Journal of Biomolecular Structure and Dynamics, 2021, 39, 1-16.   | 3.5  | 29        |
| 32 | Heat Transfer Efficiency of Cryogenic-LN2 and CO2-snow and their application in the Turning of Ti-6AL-4V. International Journal of Heat and Mass Transfer, 2021, 166, 120716.   | 4.8  | 29        |
| 33 | Systems Evaluation through New Grey Relational Analysis Approach: An Application on Thermal Conductivity—Petrophysical Parameters—™ Relationships. Processes, 2019, 7, 348.   | 2.8  | 24        |
| 34 | Development of process performance simulator (PPS) and parametric optimization for sustainable machining considering carbon emission, cost and energy aspects. Renewable and Sustainable Energy Reviews, 2021, 139, 110738.         | 16.4 | 24        |
| 35 | Comprehensive analysis on orthopedic drilling: A state-of-the-art review. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 537-561.                                   | 1.8  | 20        |
| 36 | Analysis of Productivity and Machining Efficiency in Sustainable Machining of Titanium Alloy. Procedia Manufacturing, 2020, 43, 111-118.  | 1.9  | 20        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | 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        |
| 38 | Cryogenic-LN <sub>2</sub> and conventional emulsion assisted machining of hardened steel: Comparison from sustainability perspective. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 2310-2322. | 2.4 | 19        |
| 39 | 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        |
| 40 | Assessment of cumulative energy demand, production cost, and CO <sub>2</sub> emission from hybrid CryoMQL assisted machining. Journal of Cleaner Production, 2021, 292, 125952.   | 9.3 | 18        |
| 41 | Measurement of machining characteristics under novel dry ice blasting cooling assisted milling of AISI 52100 tool steel. Measurement: Journal of the International Measurement Confederation, 2022, 191, 110821.  | 5.0 | 18        |
| 42 | Holistic sustainability assessment of hybrid Al-GnP-enriched nanofluids and textured tool in machining of Ti-6Al-4V alloy. International Journal of Advanced Manufacturing Technology, 2021, 112, 731-743.  | 3.0 | 16        |
| 43 | Additive manufacturing is sustainable technology: citespace based bibliometric investigations of fused deposition modeling approach. Rapid Prototyping Journal, 2022, 28, 654-675.  | 3.2 | 16        |
| 44 | Tribology and machinability performance of hybrid Al <sub>2</sub> O <sub>3</sub> -MWCNTs nanofluids-assisted MQL for milling Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2022, 119, 2127-2144.                                       | 3.0 | 16        |
| 45 | Assessment of energy consumption, carbon emissions and cost metrics under hybrid MQL-Dry ice blasting system: A novel cleaner production technology for manufacturing sectors. Journal of Cleaner Production, 2022, 360, 132111.                                | 9.3 | 16        |
| 46 | Energy, Environmental, Economic, and Technological Analysis of Al-GnP Nanofluid- and Cryogenic LN <sub>2</sub> -Assisted Sustainable Machining of Ti-6Al-4V Alloy. Metals, 2021, 11, 88.  | 2.3 | 15        |
| 47 | Sustainability-based holistic assessment and determination of optimal resource consumption for energy-efficient machining of hardened steel. Journal of Cleaner Production, 2021, 319, 128674.  | 9.3 | 15        |
| 48 | 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        |
| 49 | Thermophysical, tribological, and machinability characteristics of newly developed sustainable hybrid lubri-coolants for milling Ti-6Al-4V. Journal of Manufacturing Processes, 2022, 73, 572-594.  | 5.9 | 15        |
| 50 | Internal Cracks and Non-Metallic Inclusions as Root Causes of Casting Failure in Sugar Mill Roller Shafts. Materials, 2019, 12, 2474.   | 2.9 | 14        |
| 51 | 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        |
| 52 | Comparison of machinability and economic aspects in turning of Haynes-25 alloy under novel hybrid cryogenic-LN <sub>2</sub> oils-on-water approach. International Journal of Advanced Manufacturing Technology, 2022, 120, 427-445.                             | 3.0 | 14        |
| 53 | A novel low-pressure hybrid dry ice blasting system for improving the tribological and machining characteristics of AISI-52100 tool steel. Journal of Manufacturing Processes, 2022, 80, 152-160.   | 5.9 | 14        |
| 54 | 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        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | 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        |
| 56 | 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        |
| 57 | 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        |
| 58 | 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        |
| 59 | Prediction of Transient Temperature Distributions for Laser Welding of Dissimilar Metals. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5829.   | 2.5 | 11        |
| 60 | 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        |
| 61 | Bioactivity measurement of commercially pure titanium processed by micro-electric discharge drilling. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 2797-2805.   | 3.0 | 10        |
| 62 | Investigation of drilling parameters on hybrid polymer composites using grey relational analysis, regression, fuzzy logic, and ANN models: a critical note. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.   | 1.6 | 8         |
| 63 | An inverse-identification-based finite element simulation of orthogonal cutting tungsten carbide. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.   | 1.6 | 8         |
| 64 | Energy-Based Novel Quantifiable Sustainability Value Assessment Method for Machining Processes. <i>Energies</i> , 2020, 13, 6144.   | 3.1 | 8         |
| 65 | Clean manufacturing of Ti-6Al-4V under CO <sub>2</sub> -snow and hybrid nanofluids. <i>Procedia Manufacturing</i> , 2020, 48, 131-140.  | 1.9 | 8         |
| 66 | A Comparative Study of Face Milling of D2 Steel Using Al <sub>2</sub> O <sub>3</sub> Based Nanofluid Minimum Quantity Lubrication and Minimum Quantity Lubrication. <i>Advances in Science and Technology Research Journal</i> , 2018, 12, 99-105.  | 0.8 | 8         |
| 67 | Prediction of residual stresses generated by machining Ti6Al4V alloy based on the combination of the ALE approach and indentation model. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.  | 1.6 | 7         |
| 68 | Investigation on laser-induced oxidation assisted micro-milling of Inconel 718. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 1102-1112.   | 2.4 | 6         |
| 69 | Research on surface residual stresses generated by milling Ti6Al4V alloy under different pre-stresses. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 2597-2608.  | 3.0 | 6         |
| 70 | Multi-response optimisation of machining aluminium-6061 under eco-friendly electrostatic minimum quantity lubrication environment. <i>International Journal of Machining and Machinability of Materials</i> , 2019, 21, 459.  | 0.1 | 5         |
| 71 | 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. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 119, 175-177. | 5.0 | 4         |
| 72 | 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         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | An Ultrasonic-Based Detection of Air-Leakage for the Unclosed Components of Aircraft. Aerospace, 2021, 8, 55.   | 2.2 | 3         |
| 74 | 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         |
| 75 | Energy consumption, carbon emissions, product cost, and process time in incremental sheet forming process: A holistic review from sustainability perspective. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2022, 236, 1683-1705. | 2.4 | 3         |