

# Asif Iqbal

## List of Publications by Year in descending order

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54  
papers

937  
citations

430442

18  
h-index

525886

27  
g-index

55  
all docs

55  
docs citations

55  
times ranked

745  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibration-based piezoelectric, electromagnetic, and hybrid energy harvesters for microsystems applications: A contributed review. <i>International Journal of Energy Research</i> , 2021, 45, 65-102.	2.2	88
2	Numerical optimization of hole making in GFRP composite using abrasive water jet machining process. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2015, 38, 66-76.	0.6	52
3	Modeling the effects of cutting parameters in MQL-employed finish hard-milling process using D-optimal method. <i>Journal of Materials Processing Technology</i> , 2008, 199, 379-390.	3.1	47
4	Evaluation of machinability and economic performance in cryogenic-assisted hard turning of $\hat{1}\pm\hat{1}^2$ titanium: a step towards sustainable manufacturing. <i>Machining Science and Technology</i> , 2019, 23, 1022-1046.	1.4	39
5	On the effects of cutting speed and cooling methodologies in grooving operation of various tempers of $\hat{1}^2$ -titanium alloy. <i>Journal of Materials Processing Technology</i> , 2013, 213, 1027-1037.	3.1	35
6	Effect of liquid nitrogen cooling on surface integrity in cryogenic milling of Ti-6Al-4 V titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 1497-1508.	1.5	34
7	Multimodal Hybrid Piezoelectric-Electromagnetic Insole Energy Harvester Using PVDF Generators. <i>Electronics (Switzerland)</i> , 2020, 9, 635.	1.8	34
8	Readiness of subtractive and additive manufacturing and their sustainable amalgamation from the perspective of Industry 4.0: a comprehensive review. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 2475-2498.	1.5	33
9	Between-the-Holes Cryogenic Cooling of the Tool in Hole-Making of Ti-6Al-4V and CFRP. <i>Materials</i> , 2021, 14, 795.	1.3	31
10	A sustainability comparison between conventional and high-speed machining. <i>Journal of Cleaner Production</i> , 2015, 108, 192-206.	4.6	29
11	A rule-based system for trade-off among energy consumption, tool life, and productivity in machining process. <i>Journal of Intelligent Manufacturing</i> , 2015, 26, 1217-1232.	4.4	29
12	Energy-efficient cellular manufacturing system: Eco-friendly revamping of machine shop configuration. <i>Energy</i> , 2018, 163, 863-872.	4.5	29
13	CFRP drilling under throttle and evaporative cryogenic cooling and micro-lubrication. <i>Composite Structures</i> , 2021, 267, 113916.	3.1	28
14	Effects of tool life criterion on sustainability of milling. <i>Journal of Cleaner Production</i> , 2016, 139, 1105-1117.	4.6	26
15	Sustainable Milling of Ti-6Al-4V: Investigating the Effects of Milling Orientation, Cutter's Helix Angle, and Type of Cryogenic Coolant. <i>Metals</i> , 2020, 10, 258.	1.0	24
16	Machinability comparison of AISI 4340 and Ti-6Al-4V under cryogenic and hybrid cooling environments: A knowledge engineering approach. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 2144-2164.	1.5	23
17	Machining $\hat{1}^2$ -titanium alloy under carbon dioxide snow and micro-lubrication: a study on tool deflection, energy consumption, and tool damage. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 4195-4208.	1.5	22
18	Comparison of fuzzy expert system based strategies of offline and online estimation of flank wear in hard milling process. <i>Expert Systems With Applications</i> , 2007, 33, 61-66.	4.4	21

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19	A comparative study on the use of drilling and milling processes in hole making of GFRP composite. Sadhana - Academy Proceedings in Engineering Sciences, 2013, 38, 743-760.	0.8	21
20	Optimization of abrasive water jet cutting of ductile materials. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 88-92.	0.4	20
21	Micro-milling of 65 vol% SiCp/Al composites with a novel laser-assisted hybrid process. Ceramics International, 2020, 46, 26121-26128.	2.3	20
22	Barriers to Green Entrepreneurship: An ISM-Based Investigation. Journal of Risk and Financial Management, 2020, 13, 249.	1.1	18
23	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.	4.6	16
24	Comparative analyses of multi-pass face-turning of a titanium alloy under various cryogenic cooling and micro-lubrication conditions. International Journal of Lightweight Materials and Manufacture, 2019, 2, 388-396.	1.3	15
25	Sustainability-based holistic assessment and determination of optimal resource consumption for energy-efficient machining of hardened steel. Journal of Cleaner Production, 2021, 319, 128674.	4.6	15
26	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.	2.8	15
27	Wear behavior of natural diamond tool in cutting tungsten-based alloy. International Journal of Advanced Manufacturing Technology, 2013, 69, 329-335.	1.5	14
28	Response surface analysis of cold formability of polymers in Incremental Sheet Forming: Effect of parameters and associated thermal softening. International Journal of Precision Engineering and Manufacturing, 2016, 17, 613-621.	1.1	14
29	Enhancement of tool life in drilling of hardened AISI 4340 steel using 3D FEM modeling. International Journal of Advanced Manufacturing Technology, 2018, 95, 1875-1889.	1.5	14
30	Comparison of machinability and economic aspects in turning of Haynes-25 alloy under novel hybrid cryogenic-LN oils-on-water approach. International Journal of Advanced Manufacturing Technology, 2022, 120, 427-445.	1.5	14
31	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.	2.8	14
32	Life Cycle Assessment of a Diesel Engine Based on an Integrated Hybrid Inventory Analysis Model. Procedia CIRP, 2014, 15, 496-501.	1.0	13
33	Modelling and Analysis of Surface Evolution on Turning of Hard-to-Cut CLARM 30NiCrMoV14 Steel Alloy. Metals, 2021, 11, 1751.	1.0	9
34	Self-developing fuzzy expert system: a novel learning approach, fitting for manufacturing domain. Journal of Intelligent Manufacturing, 2010, 21, 761-776.	4.4	8
35	Numerical calculation and experimental research on crack arrest by detour effect and joule heating of high pulsed current in remanufacturing. Chinese Journal of Mechanical Engineering (English) Tj ETQq1 1 0.7843149gBT /Oerlock 10	1.4	6
36	A sustainability comparison between drilling and milling for hole-enlargement in machining of hardened steels. Machining Science and Technology, 2019, 23, 712-733.	1.4	6

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37	Investigating the impact of tool inertia on machinability of a $\hat{\imath}^2$ -titanium alloy using tool deflection and acoustic emission. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 1745-1760.	1.5	6
38	Experimental study on the meso-scale milling of tungsten carbide WC-17.5Co with PCD end mills. Advances in Manufacturing, 2020, 8, 230-241.	3.2	6
39	Sustainable hole-making in a titanium alloy using throttle and evaporative cryogenic cooling and micro-lubrication. Journal of Manufacturing Processes, 2021, 67, 212-225.	2.8	6
40	Sustainable Machining: Tool Life Criterion Based on Work Surface Quality. Processes, 2022, 10, 1087.	1.3	6
41	Optimal formation of fuzzy rule-base for predicting process's performance measures. Expert Systems With Applications, 2011, 38, 4802-4808.	4.4	5
42	Modeling Milling Process Using Artificial Neural Network. Advanced Materials Research, 0, 628, 128-134.	0.3	5
43	Heat Transfer and Pressure Drop in Wavy-Walled Tubes: A Parameter-BASED CFD Study. Fluids, 2020, 5, 202.	0.8	5
44	Simulation and experiment for crack arrest in remanufacturing. International Journal of Advanced Manufacturing Technology, 2016, 87, 1547-1556.	1.5	4
45	On Coolant Flow Rate-Cutting Speed Trade-Off for Sustainability in Cryogenic Milling of Ti-6Al-4V. Materials, 2021, 14, 3429.	1.3	4
46	Influence of Cutter's Helix Angle, Workpiece Hardness, Milling Orientation, and MQL in High-Speed Side Milling of AISI D2. Materials Science Forum, 2006, 532-533, 45-48.	0.3	3
47	Application of Computational Intelligence and Knowledge-Based System in Predicting Flow Stress of AISI 4340. Arabian Journal for Science and Engineering, 2014, 39, 8253-8263.	1.1	3
48	Role of Tool Size in Suppressing Defects in SPIF Process. Advanced Materials Research, 0, 746, 167-172.	0.3	1
49	Incorporating Energy Efficiency in Performance Measures of Machining: Experimental Investigation and Optimization. Materials Forming, Machining and Tribology, 2017, , 47-65.	0.7	1
50	Influence of Tooling Parameters in High-Speed Milling of Hardened Steels. Key Engineering Materials, 0, , 676-680.	0.4	1
51	Rating a Researcher's Cumulative Scholarly Output Based on Their Sequence Numbers in Multi-Authored Publications. Applied Sciences (Switzerland), 2022, 12, 1846.	1.3	1
52	Performance comparison of artificial neural network and expert system in prediction of flow stress. , 2013, , .		0
53	On the effects of magnitude of flank wear as tool life criterion on sustainability measures of a continuous machining process. , 2018, , .		0
54	Energy-Conscious Parts Routing for Machine-Shop Configuration. , 2019, , .		0