Asif Iqbal

List of Publications by Year
in descending order

99 papers	1,370 citations	331670 21 h-index	454955 30 g-index
100 all docs	100 docs citations	100 times ranked	1131 citing authors

#	Article	IF	Citations
1	Design, Fabrication & Analysis of a Gravitational Water Vortex Based Energy Harvester. International Journal of Green Energy, 2023, 20, 77-88.	3.8	1
2	Markovian descriptors based stochastic analysis of large-scale climate indices. Stochastic Environmental Research and Risk Assessment, 2022, 36, 955-968.	4.0	2
3	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
4	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.	3.0	14
5	Rating a Researcher's Cumulative Scholarly Output Based on Their Sequence Numbers in Multi-Authored Publications. Applied Sciences (Switzerland), 2022, 12, 1846.	2.5	1
6	Thermophysical Properties and Heat Transfer Performance of Novel Dry-Ice-Based Sustainable Hybrid Lubri-Coolant. Sustainability, 2022, 14, 2430.	3.2	5
7	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
8	Speech Enhancement Framework with Noise Suppression Using Block Principal Component Analysis. Acoustics, 2022, 4, 441-459.	1.4	1
9	Sustainable Machining: Tool Life Criterion Based on Work Surface Quality. Processes, 2022, 10, 1087.	2.8	6
10	Vibration‐based piezoelectric, electromagnetic, and hybrid energy harvesters for microsystems applications: A contributed review. International Journal of Energy Research, 2021, 45, 65-102.	4.5	88
11	Comparative study of Kalman filter-based target motion analysis by incorporating Doppler frequency measurements. International Journal on Smart Sensing and Intelligent Systems, 2021, 14, 1-12.	0.7	0
12	Between-the-Holes Cryogenic Cooling of the Tool in Hole-Making of Ti-6Al-4V and CFRP. Materials, 2021, 14, 795.	2.9	31
13	Charge Transport Phenomena in Heterojunction Photocatalysts: The WO_3/TiO_2 System as an Archetypical Model. ACS Applied Materials & Interfaces, 2021, 13, 9781-9793.	8.0	24
14	On Coolant Flow Rate-Cutting Speed Trade-Off for Sustainability in Cryogenic Milling of Ti–6Al–4V. Materials, 2021, 14, 3429.	2.9	4
15	CFRP drilling under throttle and evaporative cryogenic cooling and micro-lubrication. Composite Structures, 2021, 267, 113916.	5.8	28
16	Sustainable hole-making in a titanium alloy using throttle and evaporative cryogenic cooling and micro-lubrication. Journal of Manufacturing Processes, 2021, 67, 212-225.	5.9	6
17	Estimation of Machining Sustainability Using Fuzzy Rule-Based System. Materials, 2021, 14, 5473.	2.9	2
18	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

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19	Formulation and analysis of cost-effective environment-friendly metal cutting nanofluids using zinc oxide on turning of AISI 52100 steel using MQL. Engineering Research Express, 2021, 3, 015005.	1.6	2
20	Modelling and Analysis of Surface Evolution on Turning of Hard-to-Cut CLARM 30NiCrMoV14 Steel Alloy. Metals, 2021, 11, 1751.	2.3	9
21	Adaptive complex-valued dictionary learning: Application to fMRI data analysis. Signal Processing, 2020, 166, 107263.	3.7	10
22	Effect of liquid nitrogen cooling on surface integrity in cryogenic milling of Ti-6Al-4 V titanium alloy. International Journal of Advanced Manufacturing Technology, 2020, 106, 1497-1508.	3.0	34
23	Micro-milling of 65 vol% SiCp/Al composites with a novel laser-assisted hybrid process. Ceramics International, 2020, 46, 26121-26128.	4.8	20
24	Heat Transfer and Pressure Drop in Wavy-Walled Tubes: A Parameter-BASED CFD Study. Fluids, 2020, 5, 202.	1.7	5
25	Readiness of subtractive and additive manufacturing and their sustainable amalgamation from the perspective of Industry 4.0: a comprehensive review. International Journal of Advanced Manufacturing Technology, 2020, 111, 2475-2498.	3.0	33
26	Interpreting interfacial semiconductor–liquid capacitive characteristics impacted by surface states: a theoretical and experimental study of CuGaS$_2$. Physical Chemistry Chemical Physics, 2020, 22, 19631-19642.	2.8	10
27	Barriers to Green Entrepreneurship: An ISM-Based Investigation. Journal of Risk and Financial Management, 2020, 13, 249.	2.3	18
28	Multimodal Hybrid Piezoelectric-Electromagnetic Insole Energy Harvester Using PVDF Generators. Electronics (Switzerland), 2020, 9, 635.	3.1	34
29	Sustainable Milling of Ti-6Al-4V: Investigating the Effects of Milling Orientation, Cutter's Helix Angle, and Type of Cryogenic Coolant. Metals, 2020, 10, 258.	2.3	24
30	Sustainable Face-Machining of a Ti-6Al-4V Rod under Cooling Environments of Liquid Nitrogen and CO2 Snow. , 2020, , .		0
31	Zirconium Oxide based memristors fabrication via Electrohydrodynamic Printing. , 2020, , .		4
32	Experimental study on the meso-scale milling of tungsten carbide WC-17.5Co with PCD end mills. Advances in Manufacturing, 2020, 8, 230-241.	6.1	6
33	Study on Laser-Induced Oxidation of Ti6Al4V Alloy Under Two Different Reactive Atmospheres. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.7	1
34	Sequential Structured Dictionary Learning for Block Sparse Representations. , 2019, , .		0
35	Robust Dictionary Learning Using α-Divergence. , 2019, , .		0
36	An $alpha$ -Divergence-Based Approach for Robust Dictionary Learning. IEEE Transactions on Image Processing, 2019, 28, 5729-5739.	9.8	20

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37	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
38	Energy-Conscious Parts Routing for Machine-Shop Configuration. , 2019, , .		0
39	Evaluation of machinability and economic performance in cryogenic-assisted hard turning of α-β titanium: a step towards sustainable manufacturing. Machining Science and Technology, 2019, 23, 1022-1046.	2.5	39
40	Utilizing Band Diagrams To Interpret the Photovoltage and Photocurrent in Photoanodes: A Semiclassical Device Modeling Study. Journal of Physical Chemistry C, 2019, 123, 28593-28603.	3.1	11
41	A sustainability comparison between drilling and milling for hole-enlargement in machining of hardened steels. Machining Science and Technology, 2019, 23, 712-733.	2.5	6
42	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.	2.1	15
43	A Sequential Block-Structured Dictionary Learning Algorithm for Block Sparse Representations. IEEE Transactions on Computational Imaging, 2019, 5, 228-239.	4.4	10
44	Investigating the impact of tool inertia on machinability of a β-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.	2.4	6
45	Shared and Subject-Specific Dictionary Learning (ShSSDL) Algorithm for Multisubject fMRI Data Analysis. IEEE Transactions on Biomedical Engineering, 2018, 65, 2519-2528.	4.2	22
46	The impact of boundary conditions on calculated photovoltages and photocurrents at photocatalytic interfaces. MRS Communications, 2018, 8, 466-473.	1.8	15
47	ENSO and IOD analysis on the occurrence of floods in Pakistan. Natural Hazards, 2018, 91, 879-890.	3.4	16
48	Simultaneously Solving the Photovoltage and Photocurrent at Semiconductor–Liquid Interfaces. Journal of Physical Chemistry C, 2018, 122, 30-43.	3.1	31
49	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.	3.0	14
50	A statistical Approach for Finding Influential Factors in Respect of Energy Consuming of A Car Passenger. MATEC Web of Conferences, 2018, 213, 04002.	0.2	0
51	An Algorithm for Multi Subject Fmri Analysis Based on the SVD and Penalized Rank-1 Matrix Approximation. , 2018, , .		1
52	Dictionary Learning Algorithm for Multi-Subject Fmri Analysis Via Temporal and Spatial Concatenation. , 2018, , .		3
53	Impact of Bulk Trapping Phenomena on the Maximum Attainable Photovoltage of Semiconductor–Liquid Interfaces. Journal of Physical Chemistry C, 2018, 122, 23878-23889.	3.1	10
54	A dictionary learning algorithm for multi-subject fMRI analysis based on a hybrid concatenation scheme. , 2018, 83, 249-260.		12

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55	Consistent adaptive sequential dictionary learning. Signal Processing, 2018, 153, 300-310.	3.7	26
56	On the effects of magnitude of flank wear as tool life criterion on sustainability measures of a continuous machining process. , 2018, , .		0
57	Machining Î²-titanium alloy under carbon dioxide snow and micro-lubrication: a study on tool deflection, energy consumption, and tool damage. International Journal of Advanced Manufacturing Technology, 2018, 97, 4195-4208.	3.0	22
58	The adaptive block sparse PCA and its application to multi-subject FMRI data analysis using sparse mCCA. Signal Processing, 2018, 153, 311-320.	3.7	10
59	Energy-efficient cellular manufacturing system: Eco-friendly revamping of machine shop configuration. Energy, 2018, 163, 863-872.	8.8	29
60	Incorporating Energy Efficiency in Performance Measures of Machining: Experimental Investigation and Optimization. Materials Forming, Machining and Tribology, 2017, , 47-65.	1.1	1
61	Basis Expansion Approaches for Regularized Sequential Dictionary Learning Algorithms With Enforced Sparsity for fMRI Data Analysis. IEEE Transactions on Medical Imaging, 2017, 36, 1796-1807.	8.9	32
62	BSmCCA: A block sparse multiple-set canonical correlation analysis algorithm for multi-subject fMRI data sets. , 2017, , .		5
63	Sequential Dictionary Learning From Correlated Data: Application to fMRI Data Analysis. IEEE Transactions on Image Processing, 2017, 26, 3002-3015.	9.8	35
64	CSMSDL: A common sequential dictionary learning algorithm for multi-subject FMRI data sets analysis. , 2017, , .		1
65	A regularized sequential dictionary learning algorithm for fmri data analysis. , 2017, , .		4
66	An Approach for Sequential Dictionary Learning in Nonuniform Noise. , 2017, , .		3
67	Simulation and experiment for crack arrest in remanufacturing. International Journal of Advanced Manufacturing Technology, 2016, 87, 1547-1556.	3.0	4
68	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.	2.2	14
69	Interfacial Screening in Ultrafast Voltammetry: A Theoretical Study of Redox-Active Monolayers. Analytical Chemistry, 2016, 88, 9062-9070.	6.5	11
70	Effects of tool life criterion on sustainability of milling. Journal of Cleaner Production, 2016, 139, 1105-1117.	9.3	26
71	The role of relative rate constants in determining surface state phenomena at semiconductorâ€"liquid interfaces. Physical Chemistry Chemical Physics, 2016, 18, 29466-29477.	2.8	35
72	Exploring Bridges between Quantum Transport and Electrochemistry. I.. Journal of Physical Chemistry C, 2016, 120, 179-187.	3.1	18

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73	Sunspots and ENSO relationship using Markov method. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 137, 53-57.	1.6	14
74	Numerical optimization of hole making in GFRP composite using abrasive water jet machining process. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2015, 38, 66-76.	1.1	52
75	Hourglass-graded heterostructures as a possible route towards extremely efficient light emitting diodes. Semiconductor Science and Technology, 2015, 30, 085001.	2.0	0
76	A sustainability comparison between conventional and high-speed machining. Journal of Cleaner Production, 2015, 108, 192-206.	9.3	29
77	A rule-based system for trade-off among energy consumption, tool life, and productivity in machining process. Journal of Intelligent Manufacturing, 2015, 26, 1217-1232.	7.3	29
78	Machinability comparison of AISI 4340 and Ti-6Al-4V under cryogenic and hybrid cooling environments: A knowledge engineering approach. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 2144-2164.	2.4	23
79	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
80	Life Cycle Assessment of a Diesel Engine Based on an Integrated Hybrid Inventory Analysis Model. Procedia CIRP, 2014, 15, 496-501.	1.9	13
81	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 0.784314 rgBT /Overlock 10		
82	Modeling the energy consumption of a lift. Energy and Buildings, 2014, 71, 61-67.	6.7	14
83	Wear behavior of natural diamond tool in cutting tungsten-based alloy. International Journal of Advanced Manufacturing Technology, 2013, 69, 329-335.	3.0	14
84	On the effects of cutting speed and cooling methodologies in grooving operation of various tempers of β-titanium alloy. Journal of Materials Processing Technology, 2013, 213, 1027-1037.	6.3	35
85	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.	1.3	21
86	Performance comparison of artificial neural network and expert system in prediction of flow stress. , 2013, , .		0
87	Experimental Analysis of Hole Making in GFRP Composite Using Abrasive Water Jet Cutting Technology. Applied Mechanics and Materials, 2013, 325-326, 1392-1398.	0.2	3
88	Optimization of abrasive water jet cutting of ductile materials. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 88-92.	1.0	20
89	Optimal formation of fuzzy rule-base for predicting process's performance measures. Expert Systems With Applications, 2011, 38, 4802-4808.	7.6	5
90	Self-developing fuzzy expert system: a novel learning approach, fitting for manufacturing domain. Journal of Intelligent Manufacturing, 2010, 21, 761-776.	7.3	8

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91	A Self Progressing Fuzzy Rule-Based System for Optimizing and Predicting Machining Process. Lecture Notes in Electrical Engineering, 2009, , 435-446.	0.4	1
92	Modeling the effects of cutting parameters in MQL-employed finish hard-milling process using D-optimal method. Journal of Materials Processing Technology, 2008, 199, 379-390.	6.3	47
93	Comparison of fuzzy expert system based strategies of offline and online estimation of flank wear in hard milling process. Expert Systems With Applications, 2007, 33, 61-66.	7.6	21
94	Influence of Cutterâ€™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
95	Influence of Tooling Parameters in High-Speed Milling of Hardened Steels. Key Engineering Materials, 2006, 315-316, 676-680.	0.4	2
96	On the Effect of Curvature Radius on the Spif-Ability. Advanced Materials Research, 0, 129-131, 1222-1227.	0.3	5
97	New Methodologies for the Determination of Precise Forming Limit Curve in Single Point Incremental Forming Process. Advanced Materials Research, 0, 97-101, 126-129.	0.3	3
98	Modeling Milling Process Using Artificial Neural Network. Advanced Materials Research, 0, 628, 128-134.	0.3	5
99	Role of Tool Size in Suppressing Defects in SPIF Process. Advanced Materials Research, 0, 746, 167-172.	0.3	1