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	Vibrationâ€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
2	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
3	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
4	Evaluation of machinability and economic performance in cryogenic-assisted hard turning of Î±-Î² titanium: a step towards sustainable manufacturing. Machining Science and Technology, 2019, 23, 1022-1046.	2.5	39
5	On the effects of cutting speed and cooling methodologies in grooving operation of various tempers of Î²-titanium alloy. Journal of Materials Processing Technology, 2013, 213, 1027-1037.	6.3	35
6	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
7	Sequential Dictionary Learning From Correlated Data: Application to fMRI Data Analysis. IEEE Transactions on Image Processing, 2017, 26, 3002-3015.	9.8	35
8	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
9	Multimodal Hybrid Piezoelectric-Electromagnetic Insole Energy Harvester Using PVDF Generators. Electronics (Switzerland), 2020, 9, 635.	3.1	34
10	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
11	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
12	Simultaneously Solving the Photovoltage and Photocurrent at Semiconductorâ€“Liquid Interfaces. Journal of Physical Chemistry C, 2018, 122, 30-43.	3.1	31
13	Between-the-Holes Cryogenic Cooling of the Tool in Hole-Making of Ti-6Al-4V and CFRP. Materials, 2021, 14, 795.	2.9	31
14	A sustainability comparison between conventional and high-speed machining. Journal of Cleaner Production, 2015, 108, 192-206.	9.3	29
15	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
16	Energy-efficient cellular manufacturing system: Eco-friendly revamping of machine shop configuration. Energy, 2018, 163, 863-872.	8.8	29
17	CFRP drilling under throttle and evaporative cryogenic cooling and micro-lubrication. Composite Structures, 2021, 267, 113916.	5.8	28
18	Effects of tool life criterion on sustainability of milling. Journal of Cleaner Production, 2016, 139, 1105-1117.	9.3	26

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19	Consistent adaptive sequential dictionary learning. Signal Processing, 2018, 153, 300-310.	3.7	26
20	Sustainable Milling of Ti-6Al-4V: Investigating the Effects of Milling Orientation, Cutterâ€²s Helix Angle, and Type of Cryogenic Coolant. Metals, 2020, 10, 258.	2.3	24
21	Charge Transport Phenomena in Heterojunction Photocatalysts: The WO₃/TiO₂ System as an Archetypical Model. ACS Applied Materials & Interfaces, 2021, 13, 9781-9793.	8.0	24
22	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
23	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
24	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
25	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
26	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
27	Optimization of abrasive water jet cutting of ductile materials. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 88-92.	1.0	20
28	An $alpha$ -Divergence-Based Approach for Robust Dictionary Learning. IEEE Transactions on Image Processing, 2019, 28, 5729-5739.	9.8	20
29	Micro-milling of 65 vol% SiCp/Al composites with a novel laser-assisted hybrid process. Ceramics International, 2020, 46, 26121-26128.	4.8	20
30	Exploring Bridges between Quantum Transport and Electrochemistry. I.. Journal of Physical Chemistry C, 2016, 120, 179-187.	3.1	18
31	Barriers to Green Entrepreneurship: An ISM-Based Investigation. Journal of Risk and Financial Management, 2020, 13, 249.	2.3	18
32	ENSO and IOD analysis on the occurrence of floods in Pakistan. Natural Hazards, 2018, 91, 879-890.	3.4	16
33	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
34	The impact of boundary conditions on calculated photovoltages and photocurrents at photocatalytic interfaces. MRS Communications, 2018, 8, 466-473.	1.8	15
35	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
36	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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37	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
38	Wear behavior of natural diamond tool in cutting tungsten-based alloy. International Journal of Advanced Manufacturing Technology, 2013, 69, 329-335.	3.0	14
39	Modeling the energy consumption of a lift. Energy and Buildings, 2014, 71, 61-67.	6.7	14
40	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
41	Sunspots and ENSO relationship using Markov method. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 137, 53-57.	1.6	14
42	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
43	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
44	Life Cycle Assessment of a Diesel Engine Based on an Integrated Hybrid Inventory Analysis Model. Procedia CIRP, 2014, 15, 496-501.	1.9	13
45	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
46	A dictionary learning algorithm for multi-subject fMRI analysis based on a hybrid concatenation scheme. , 2018, 83, 249-260.		12
47	Interfacial Screening in Ultrafast Voltammetry: A Theoretical Study of Redox-Active Monolayers. Analytical Chemistry, 2016, 88, 9062-9070.	6.5	11
48	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
49	Impact of Bulk Trapping Phenomena on the Maximum Attainable Photovoltage of Semiconductorâ€“Liquid Interfaces. Journal of Physical Chemistry C, 2018, 122, 23878-23889.	3.1	10
50	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
51	A Sequential Block-Structured Dictionary Learning Algorithm for Block Sparse Representations. IEEE Transactions on Computational Imaging, 2019, 5, 228-239.	4.4	10
52	Adaptive complex-valued dictionary learning: Application to fMRI data analysis. Signal Processing, 2020, 166, 107263.	3.7	10
53	Interpreting interfacial semiconductorâ€“liquid capacitive characteristics impacted by surface states: a theoretical and experimental study of CuGaS₂. Physical Chemistry Chemical Physics, 2020, 22, 19631-19642.	2.8	10
54	Modelling and Analysis of Surface Evolution on Turning of Hard-to-Cut CLARM 30NiCrMoV14 Steel Alloy. Metals, 2021, 11, 1751.	2.3	9

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55	Self-developing fuzzy expert system: a novel learning approach, fitting for manufacturing domain. Journal of Intelligent Manufacturing, 2010, 21, 761-776.	7.3	8
56	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 69	0.7	8
57	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
58	Investigating the impact of tool inertia on machinability of a Î²-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
59	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
60	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
61	Sustainable Machining: Tool Life Criterion Based on Work Surface Quality. Processes, 2022, 10, 1087.	2.8	6
62	On the Effect of Curvature Radius on the Spif-Ability. Advanced Materials Research, 0, 129-131, 1222-1227.	0.3	5
63	Optimal formation of fuzzy rule-base for predicting processâ€™s performance measures. Expert Systems With Applications, 2011, 38, 4802-4808.	7.6	5
64	Modeling Milling Process Using Artificial Neural Network. Advanced Materials Research, 0, 628, 128-134.	0.3	5
65	BSmCCA: A block sparse multiple-set canonical correlation analysis algorithm for multi-subject fMRI data sets. , 2017, , .		5
66	Heat Transfer and Pressure Drop in Wavy-Walled Tubes: A Parameter-BASED CFD Study. Fluids, 2020, 5, 202.	1.7	5
67	Thermophysical Properties and Heat Transfer Performance of Novel Dry-Ice-Based Sustainable Hybrid Lubri-Coolant. Sustainability, 2022, 14, 2430.	3.2	5
68	Simulation and experiment for crack arrest in remanufacturing. International Journal of Advanced Manufacturing Technology, 2016, 87, 1547-1556.	3.0	4
69	A regularized sequential dictionary learning algorithm for fmri data analysis. , 2017, , .		4
70	Zirconium Oxide based memristors fabrication via Electrohydrodynamic Printing. , 2020, , .		4
71	On Coolant Flow Rate-Cutting Speed Trade-Off for Sustainability in Cryogenic Milling of Tiâ€“6Alâ€“4V. Materials, 2021, 14, 3429.	2.9	4
72	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

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73	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
74	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
75	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
76	An Approach for Sequential Dictionary Learning in Nonuniform Noise. , 2017, , .		3
77	Dictionary Learning Algorithm for Multi-Subject Fmri Analysis Via Temporal and Spatial Concatenation. , 2018, , .		3
78	Influence of Tooling Parameters in High-Speed Milling of Hardened Steels. Key Engineering Materials, 2006, 315-316, 676-680.	0.4	2
79	Estimation of Machining Sustainability Using Fuzzy Rule-Based System. Materials, 2021, 14, 5473.	2.9	2
80	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
81	Markovian descriptors based stochastic analysis of large-scale climate indices. Stochastic Environmental Research and Risk Assessment, 2022, 36, 955-968.	4.0	2
82	A Self Progressing Fuzzy Rule-Based System for Optimizing and Predicting Machining Process. Lecture Notes in Electrical Engineering, 2009, , 435-446.	0.4	1
83	Role of Tool Size in Suppressing Defects in SPIF Process. Advanced Materials Research, 0, 746, 167-172.	0.3	1
84	Incorporating Energy Efficiency in Performance Measures of Machining: Experimental Investigation and Optimization. Materials Forming, Machining and Tribology, 2017, , 47-65.	1.1	1
85	CSMSDL: A common sequential dictionary learning algorithm for multi-subject FMRI data sets analysis. , 2017, , .		1
86	An Algorithm for Multi Subject Fmri Analysis Based on the SVD and Penalized Rank-1 Matrix Approximation. , 2018, , .		1
87	Study on Laser-Induced Oxidation of Ti6Al4V Alloy Under Two Different Reactive Atmospheres. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.7	1
88	Design, Fabrication & Analysis of a Gravitational Water Vortex Based Energy Harvester. International Journal of Green Energy, 2023, 20, 77-88.	3.8	1
89	Rating a Researcherâ€™s Cumulative Scholarly Output Based on Their Sequence Numbers in Multi-Authored Publications. Applied Sciences (Switzerland), 2022, 12, 1846.	2.5	1
90	Speech Enhancement Framework with Noise Suppression Using Block Principal Component Analysis. Acoustics, 2022, 4, 441-459.	1.4	1

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91	Performance comparison of artificial neural network and expert system in prediction of flow stress. , 2013, , .		0
92	Hourglass-graded heterostructures as a possible route towards extremely efficient light emitting diodes. Semiconductor Science and Technology, 2015, 30, 085001.	2.0	0
93	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
94	On the effects of magnitude of flank wear as tool life criterion on sustainability measures of a continuous machining process. , 2018, , .		0
95	Sequential Structured Dictionary Learning for Block Sparse Representations. , 2019, , .		0
96	Robust Dictionary Learning Using Î±-Divergence. , 2019, , .		0
97	Energy-Conscious Parts Routing for Machine-Shop Configuration. , 2019, , .		0
98	Sustainable Face-Machining of a Ti-6Al-4V Rod under Cooling Environments of Liquid Nitrogen and CO2 Snow. , 2020, , .		0
99	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