

Ghulam Hussain

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

1,725
citations

23
h-index

37
g-index

96
ext. papers

1,989
ext. citations

3.5
avg, IF

5.27
L-index

#	Paper	IF	Citations
94	A novel method to test the thinning limits of sheet metals in negative incremental forming. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 419-435	9.4	169
93	Electric hot incremental forming: A novel technique. <i>International Journal of Machine Tools and Manufacture</i> , 2008 , 48, 1688-1692	9.4	146
92	Tool and lubrication for negative incremental forming of a commercially pure titanium sheet. <i>Journal of Materials Processing Technology</i> , 2008 , 203, 193-201	5.3	78
91	Formability evaluation of a pure titanium sheet in the cold incremental forming process. <i>International Journal of Advanced Manufacturing Technology</i> , 2008 , 37, 920-926	3.2	68
90	A new formability indicator in single point incremental forming. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 4237-4242	5.3	60
89	An experimental study on some formability evaluation methods in negative incremental forming. <i>Journal of Materials Processing Technology</i> , 2007 , 186, 45-53	5.3	60
88	Forming Parameters and Forming Defects in Incremental Forming of an Aluminum Sheet: Correlation, Empirical Modeling, and Optimization: Part A. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 1546-1553	4.1	51
87	The performance of flat end and hemispherical end tools in single-point incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 46, 1113-1118	3.2	51
86	Wear performance of Al/TiN dispersion strengthened surface composite produced through friction stir process: A comparison of tool geometries and number of passes. <i>Wear</i> , 2015 , 324-325, 45-54	3.5	46
85	Threshold tool-radius condition maximizing the formability in SPIF considering a variety of materials: Experimental and FE investigations. <i>International Journal of Machine Tools and Manufacture</i> , 2015 , 88, 82-94	9.4	45
84	Guidelines for Tool-Size Selection for Single-Point Incremental Forming of an Aerospace Alloy. <i>Materials and Manufacturing Processes</i> , 2013 , 28, 324-329	4.1	40
83	The formability of annealed and pre-aged AA-2024 sheets in single-point incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 46, 543-549	3.2	40
82	Improving profile accuracy in SPIF process through statistical optimization of forming parameters. <i>Journal of Mechanical Science and Technology</i> , 2011 , 25, 177-182	1.6	39
81	The effect of variation in the curvature of part on the formability in incremental forming: An experimental investigation. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 2177-2181	9.4	34
80	A comparative study on the forming limits of an aluminum sheet-metal in negative incremental forming. <i>Journal of Materials Processing Technology</i> , 2007 , 187-188, 94-98	5.3	31
79	Establishing Mathematical Models to Predict Grain Size and Hardness of the Friction Stir-Welded AA 7020 Aluminum Alloy Joints. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 357-365	2.5	30
78	Forming Parameters and Forming Defects in Incremental Forming Process: Part B. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 454-460	4.1	28

77	On the comparison of formability of roll-bonded steel-Cu composite sheet metal in incremental forming and stamping processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 267-278	3.2	28
76	An experimental study on multi-pass friction stir processing of Al/TiN composite: some microstructural, mechanical, and wear characteristics. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 84, 533-546	3.2	25
75	High-Speed Incremental Forming Process: A Trade-Off Between Formability and Time Efficiency. <i>Materials and Manufacturing Processes</i> , 2015 , 30, 1354-1363	4.1	25
74	Prediction and control of pillow defect in single point incremental forming using numerical simulations. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 2151-2161	1.6	25
73	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	6.7	24
72	SPIF of Cu/Steel Clad Sheet: Annealing Effect on Bond Force and Formability. <i>Materials and Manufacturing Processes</i> , 2016 , 31, 758-763	4.1	23
71	The pillowing tendency of materials in single-point incremental forming: Experimental and finite element analyses. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015 , 229, 744-753	2.4	21
70	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	2.4	19
69	Effects of tool life criterion on sustainability of milling. <i>Journal of Cleaner Production</i> , 2016 , 139, 1105-1117	11.3	19
68	Fabrication of metal-matrix AL7075T651/TiN nano composite employing friction stir process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017 , 231, 1319-1331	2.4	18
67	The state of residual stresses in the Cu/Steel bonded laminates after ISF deformation: An experimental analysis. <i>Journal of Manufacturing Processes</i> , 2017 , 30, 14-26	5	18
66	Pyramid as test geometry to evaluate formability in incremental forming: Recent results. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 2337-2345	1.6	18
65	The Friction and Wear Properties of TiAlNb Intermetallics by Plasma Surface Alloying. <i>Tribology Letters</i> , 2008 , 30, 61-67	2.8	17
64	An experimental study on the effect of thinning band on the sheet formability in negative incremental forming. <i>International Journal of Machine Tools and Manufacture</i> , 2008 , 48, 1170-1178	9.4	17
63	Optimization of abrasive water jet cutting of ductile materials. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011 , 26, 88-92	1	16
62	Empirical modelling of the influence of operating parameters on the spifability of a titanium sheet using response surface methodology. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2009 , 223, 73-81	2.4	16
61	On the CO ₂ characterization in incremental forming of roll bonded laminates. <i>Journal of Cleaner Production</i> , 2017 , 156, 214-225	10.3	15
60	Surface roughness as the function of friction indicator and an important parameters-combination having controlling influence on the roughness: recent results in incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 101, 2533-2545	3.2	15

59	Trade-off among mechanical properties and energy consumption in multi-pass friction stir processing of Al7075 alloy employing neural network based genetic optimization. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017 , 231, 129-139	2.4	14
58	Study on formability of vertical parts formed by multi-stage incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 75, 1049-1053	3.2	14
57	Biocompatibility and corrosion resistance of metallic biomaterials. <i>Corrosion Reviews</i> , 2020 , 38, 381-402	3.2	14
56	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	3.2	14
55	On the Effects of Process Parameters and Optimization of Interlaminar Bond Strength in 3D Printed ABS/CF-PLA Composite. <i>Polymers</i> , 2020 , 12,	4.5	13
54	Parameter-formability relationship in ISF of tri-layered Cu-Steel-Cu composite sheet metal: Response surface and microscopic analyses. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 1633-1642	1.7	13
53	Forming forces in incremental forming of a geometry with corner feature: investigation into the effect of forming parameters using response surface approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 76, 2185-2197	3.2	12
52	Response surface analysis of cold formability of polymers in Incremental Sheet Forming: Effect of parameters and associated thermal softening. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 613-621	1.7	12
51	Nano-mechanical characterization of plasma surface tungstenized layer by depth-sensing nano-indentation measurement. <i>Applied Surface Science</i> , 2015 , 324, 160-167	6.7	11
50	Mechanical properties and microstructure evolution in incremental forming of AA5754 and AA6061 aluminum alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 51-64	3.3	11
49	Appropriate heat treatment and incremental forming route to produce age-hardened components of Al-2219 alloy with minimized form error and high formability. <i>Journal of Materials Processing Technology</i> , 2018 , 256, 262-273	5.3	11
48	Fabrication of UHMW polyethylene/nano-hydroxyapatite biocomposite via heat-assisted friction stir processing. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 96, 3651-3663	3.2	10
47	Experimental investigations on the role of tool size in causing and controlling defects in single point incremental forming process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014 , 228, 266-277	2.4	10
46	Thermal Model of Rotary Friction Welding for Similar and Dissimilar Metals. <i>Metals</i> , 2017 , 7, 224	2.3	9
45	Stress gradient due to incremental forming of bonded metallic laminates. <i>Materials and Manufacturing Processes</i> , 2017 , 32, 1384-1390	4.1	8
44	A new parameter and its effect on the formability in single point incremental forming: A fundamental investigation. <i>Journal of Mechanical Science and Technology</i> , 2010 , 24, 1617-1621	1.6	8
43	Prediction of Single Point Incremental Forming Limit. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2010 , 46, 102	1.3	8
42	Finite element and experimental analyses of cylindrical hole flanging in incremental forming. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 2419-2425	3.3	8

41	Failure and strain gradient analyses in incremental forming using GTN model. <i>International Journal of Lightweight Materials and Manufacture</i> , 2019 , 2, 177-185	2.2	8
40	Influence of Tool Material, Tool Geometry, Process Parameters, Stacking Sequence, and Heat Sink on Producing Sound Al/Cu Lap Joints through Friction Stir Welding. <i>Metals</i> , 2019 , 9, 875	2.3	7
39	Bulging in incremental sheet forming of cold bonded multi-layered Cu clad sheet: Influence of forming conditions and bending. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 112-122	3.3	7
38	Experimental Investigations on the Effects of Rotational Speed on Temperature and Microstructure Variations in Incremental Forming of T6- Tempered and Annealed AA2219 Aerospace Alloy. <i>Metals</i> , 2020 , 10, 809	2.3	7
37	Force Variations with Defects and a Force-based Strategy to Control Defects in SPIF. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 1197-1204	4.1	7
36	Holistic sustainability assessment of hybrid Al ₇₀ Ni ₃₀ P-enriched nanofluids and textured tool in machining of Ti ₆ Al ₄ V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 731-743	3.2	7
35	Mechanical properties of an additive manufactured CF-PLA/ABS hybrid composite sheet. <i>Journal of Thermoplastic Composite Materials</i> , 2019 , 089270571986940	1.9	6
34	Investigation of Impact Strength and Hardness of UHMW Polyethylene Composites Reinforced with Nano-Hydroxyapatite Particles Fabricated by Friction Stir Processing. <i>Polymers</i> , 2019 , 11,	4.5	6
33	Energy, exergy, exergo-economic and exergo-environmental analyses of solar based hydrogen generation system. <i>International Journal of Hydrogen Energy</i> , 2020 , 46, 29049-29049	6.7	6
32	An investigation on the effects of tool rotational speed and material temper on post-ISF tensile properties of Al2219 alloy. <i>Journal of Materials Research and Technology</i> , 2021 , 10, 853-867	5.5	6
31	On the Free-Surface Roughness in Incremental Forming of a Sheet Metal: A Study from the Perspective of ISF Strain, Surface Morphology, Post-Forming Properties, and Process Conditions. <i>Metals</i> , 2019 , 9, 553	2.3	5
30	Microstructure and micro-hardness analysis of friction stir welded bi-layered laminated aluminum sheets. <i>International Journal of Lightweight Materials and Manufacture</i> , 2019 , 2, 123-130	2.2	5
29	Empirical modeling and simultaneous optimization of energy efficiency/demand, cost and productivity in incremental forming of metallic clad composite. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20375-20385	6.7	5
28	On the Effect of Curvature Radius on the Spif-Ability. <i>Advanced Materials Research</i> , 2010 , 129-131, 1222-1227	3.27	5
27	Formability of Materials with Small Tools in Incremental Forming. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2020 , 33,	2.5	5
26	Post-Forming Mechanical Properties of a Polymer Sheet Processed by Incremental Sheet Forming: Insights into Effects of Plastic Strain, and Orientation and Size of Specimen. <i>Polymers</i> , 2020 , 12,	4.5	5
25	Progress on single-point incremental forming of polymers. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 114, 1-26	3.2	5
24	Butt Joining of Bi-Layered Aluminum Sheets through Friction Stir Welding: Tensile Stresses, Bending Stresses, Residual Stresses, and Fractography. <i>Metals</i> , 2019 , 9, 384	2.3	4

23	Plasma surface Cu alloyed layer as a lubricant on stainless steel sheet: Wear characteristics and on-job performance in incremental forming. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016 , 31, 422-428	1	4
22	Mechanical Characteristics of a Roll-Bonded Cu-Clad Steel Sheet Processed Through Incremental Forming. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4594-4607	2.3	4
21	Influence of Forming Parameters on the Mechanical Behavior of a Thin Aluminum Sheet Processed through Single Point Incremental Forming. <i>Metals</i> , 2020 , 10, 1461	2.3	4
20	Fuzzy Logic-Based Prediction of Drilling-Induced Temperatures at Varying Cutting Conditions along with Analysis of Chips Morphology and Burrs Formation. <i>Metals</i> , 2021 , 11, 277	2.3	4
19	Experimental and numerical simulation of steel/steel (St/St) interface in bi-layer sheet metal. <i>International Journal of Lightweight Materials and Manufacture</i> , 2019 , 2, 89-96	2.2	3
18	Delamination analysis in single-point incremental forming of steel/steel bi-layer sheet metal. <i>Archives of Civil and Mechanical Engineering</i> , 2020 , 20, 1	3.4	3
17	PEO coating as lubrication means for SPIF of titanium sheet: characteristics and performance. <i>Materials Research Innovations</i> , 2014 , 18, S2-727-S2-733	1.9	3
16	New Methodologies for the Determination of Precise Forming Limit Curve in Single Point Incremental Forming Process. <i>Advanced Materials Research</i> , 2010 , 97-101, 126-129	0.5	3
15	Determination of Optimum Process Parameters for Cutting Hole in a Randomly-oriented Glass Fiber Reinforced Epoxy Composite by Milling Process: Maximization of Surface Quality and Cut-hole Strength. <i>Polymers and Polymer Composites</i> , 2016 , 24, 81-89	0.8	3
14	Characterization of residual stresses in an asymmetrical shape produced through incremental forming. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020 , 31, 478-491	3.4	2
13	Effect of pre-rolling temperature on the interfacial properties and formability of steel-steel bilayer sheet in Single Point Incremental Forming. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2021 , 235, 406-416	2.4	2
12	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> , 095440542210935	2.4	2
11	Investigation on the effects of the processing parameters and the number of passes on the flexural properties of polymer nanocomposite fabricated through FSP method. <i>Materials Research Express</i> , 2020 , 7, 055310	1.7	1
10	Role of Tool Size in Suppressing Defects in SPIF Process. <i>Advanced Materials Research</i> , 2013 , 746, 167-170.5		1
9	Role of Material Properties in Improving Sheet Formability in SPIF Process. <i>Advanced Materials Research</i> , 2010 , 139-141, 600-604	0.5	1
8	Fundamental Studies on Incremental Forming of Titanium Sheet-Metal 2006 , 135		1
7	Analysis of wall curling in incremental forming of a sheet metal: role of residual stresses, stretching force and process conditions. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 1548-1558	5.5	1
6	Artificial neural network modelling and optimization of elastic and an-elastic spring back in polymer parts produced through ISF. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	1

5	Aerodynamic Analyses of Airfoils Using Machine Learning as an Alternative to RANS Simulation. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5194	2.6	0
4	Nanomechanical and Macrotribological Properties of CVD-Grown Graphene as a Middle Layer between Metal Pt Cylinders and SiO ₂ /Si Substrate. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-7	3.2	
3	Prediction and Research of Single Point Incremental Forming Limit. <i>Advanced Materials Research</i> , 2010 , 97-101, 4005-4009	0.5	
2	A Fundamental Investigation on the Formability of a Commercially-Pure Titanium Sheet-Metal in the Incremental Forming and Stamping Processes 2007 , 943		
1	Life Cycle Assessment and Feasibility Study of Solar Based Multi- Generation System. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101321	4.7	