Zahid A Khan

List of Publications by Year
in descending order

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132	3,323	201575	189801
papers	citations	27	50
		h-index	g-index

136	136	136	2934
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Artificial Intelligence against COVID-19 Pandemic: A Comprehensive Insight. Current Medical Imaging, 2023, 19, 1-18.	0.4	0
2	Optimal location and geometry of sensors and actuators for active vibration control of smart composite beams. Australian Journal of Mechanical Engineering, 2022, 20, 981-999.	1.5	4
3	A new fuzzy multi-criteria decision-making method based on proximity index value. Journal of Industrial and Production Engineering, 2022, 39, 42-58.	2.1	11
4	Numerical investigation and implementation of the Taguchi based entropy-ROV method for optimization of the operating and geometrical parameters during natural convection of hybrid nanofluid in annuli. International Journal of Thermal Sciences, 2022, 172, 107317.	2.6	5
5	A comprehensive review on wire EDM performance evaluation. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 1724-1746.	1.4	20
6	Characteristics of Conventional and Microwave Sintered Iron Ore Preform. Materials, 2022, 15, 2655.	1.3	3
7	Investigating the effect of input variables on the performance of FMS followed by multi-response optimization: A simulation study. Materials Today: Proceedings, 2022, , .	0.9	1
8	Characterization of Tiâ€“Al Intermetallic Synthesized by Mechanical Alloying Process. Metals and Materials International, 2021, 27, 2378.	1.8	7
9	Prioritization of lower back pain risk factors among industrial workers using the bestâ€“worst method. International Journal of Occupational Safety and Ergonomics, 2021, 27, 544-551.	1.1	6
10	Towards minimization of overall inconsistency involved in criteria weights for improved decision making. Applied Soft Computing Journal, 2021, 100, 106936.	4.1	4
11	Analysing the barriers to successful implementation of total quality management in Indian manufacturing organisations using best-worst method. International Journal of Business Excellence, 2021, 24, 275.	0.2	1
12	Selection of Best Dispatching Rule for Job Sequencing Using Combined Bestâ€“Worst and Proximity Index Value Methods. Lecture Notes in Mechanical Engineering, 2021, , 783-792.	0.3	1
13	Multiple Response Optimization of Dimensional Accuracy of Nimonic Alloy Miniature Gear Machined on Wire Edm Using Entropy Topsis Andpareto Anova. CMES - Computer Modeling in Engineering and Sciences, 2021, 126, 241-259.	0.8	1
14	Effect of tool rotational speed on microstructure and mechanical properties of friction stir processed AA5083/Fe-Al in-situ composite. Materials Today: Proceedings, 2021, 46, 6496-6500.	0.9	6
15	Fracture behaviour of friction stir welded dissimilar aluminium alloys. Materials Today: Proceedings, 2021, 46, 6688-6691.	0.9	2
16	Identification, ranking and prioritisation of vital environmental sustainability indicators in manufacturing sector using pareto analysis cum best-worst method. International Journal of Sustainable Engineering, 2021, 14, 226-244.	1.9	12
17	Valorization of waste chicken egg shells towards synthesis of heterogeneous catalyst for biodiesel production: Optimization and statistical analysis. Environmental Technology and Innovation, 2021, 22, 101460.	3.0	18
18	Geometric and harmonic means based priority dispatching rules for single machine scheduling problems. International Journal of Production Management and Engineering, 2021, 9, 93.	0.8	3

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19	Optimization of friction stir processing parameters for enhanced microhardness of AA5083/Al-Fe in-situ composites via Taguchi technique. Material Science, Engineering and Applications, 2021, 1, 55-61.	0.3	1
20	RSM based investigation of compressive properties of FDM fabricated part. CIRP Journal of Manufacturing Science and Technology, 2021, 35, 701-714.	2.3	12
21	A Hybrid Multi-criteria Decision-Making Approach for Selection of Sustainable Dielectric Fluid for Electric Discharge Machining Process. Lecture Notes in Mechanical Engineering, 2021, , 519-527.	0.3	1
22	A Simulation-Based Study for Multi-response Optimization of FMS Performance Measures Using Combined Grey Relational and Principal Component Analyses. Lecture Notes in Mechanical Engineering, 2021, , 275-281.	0.3	1
23	Experimental Studies on Machining of SiC Under Different Assisted Electrode Conditions Using WEDM. Lecture Notes in Mechanical Engineering, 2021, , 313-318.	0.3	0
24	Investigating the Dimensional Accuracy of the Cavity Produced by ABS P400 Polymer-Based Novel EDM Electrode. Polymers, 2021, 13, 4109.	2.0	8
25	Mechanical and microstructural characterization of Ti-SiC reinforced AA5083 surface composites fabricated via friction stir process. Materials Research Express, 2021, 8, 126523.	0.8	0
26	Multi-Response Optimization of Nanofluid-Based I. C. Engine Cooling System Using Fuzzy PIV Method. Processes, 2020, 8, 30.	1.3	11
27	Aluminum alloys in marine construction: characteristics, application, and problems from a fabrication viewpoint. Marine Systems and Ocean Technology, 2020, 15, 70-80.	0.5	79
28	A simulation-based study on the effect of underwater friction stir welding process parameters using different evolutionary optimization algorithms. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 643-657.	1.1	8
29	ISM-MICMAC approach for evaluating the critical success factors of 5S implementation in manufacturing organisations. International Journal of Business Excellence, 2020, 20, 521.	0.2	15
30	Optimal design of flux for submerged arc weld properties based on RSM coupled with GRA and PCA. International Journal of Manufacturing Technology and Management, 2020, 34, 97.	0.1	0
31	Quantifying the factors affecting the 5S implementation in manufacturing organisations using graph theory and matrix method. International Journal of Services and Operations Management, 2020, 37, 90.	0.1	3
32	Taguchi based grey relational analysis for multi response optimisation of diesel engine performance and emission parameters. International Journal of Heavy Vehicle Systems, 2020, 27, 441.	0.1	7
33	Application of the Combined ANN and GA for Multi-Response Optimization of Cutting Parameters for the Turning of Glass Fiber-Reinforced Polymer Composites. Mathematics, 2020, 8, 947.	1.1	12
34	A road map for the implementation of integrated JIT-lean practices in Indian manufacturing industries using the best-worst method approach. Journal of Industrial and Production Engineering, 2020, 37, 275-291.	2.1	15
35	Defect formation during dissimilar aluminium friction stir welded T-joints. Mechanics and Industry, 2020, 21, 205.	0.5	5
36	Multi-performance optimization of nanofluid cooled hybrid photovoltaic thermal system using fuzzy integrated methodology. Journal of Cleaner Production, 2020, 256, 120451.	4.6	33

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37	Analysis of process parameters effects on underwater friction stir welding of aluminum alloy 6082-T6. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 1700-1710.	1.5	36
38	Multi-response optimization of friction stir welding process parameters for dissimilar joining of Al6101 to pure copper using standard deviation based TOPSIS method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 6473-6482.	1.1	15
39	Reclamation of steel shots by acid leaching for powder metallurgy applications. Advances in Mechanical Engineering, 2019, 11, 168781401986696.	0.8	0
40	Optimising Parameters for Expanded Polystyrene Based Pod Production Using Taguchi Method. Mathematics, 2019, 7, 847.	1.1	11
41	Multi-response optimization of TiO₂/EG-water nano-coolant using entropy based preference indexed value (PIV) method. Materials Research Express, 2019, 6, 0850a1.	0.8	14
42	Investigation on Effect of Strain Rate and Heat Generation on Traverse Force in FSW of Dissimilar Aerospace Grade Aluminium Alloys. Materials, 2019, 12, 1641.	1.3	15
43	Effects of Welding Parameters in Friction Stir Welding of Stainless Steel and Aluminum. Lecture Notes in Mechanical Engineering, 2019, , 815-823.	0.3	5
44	Optimization of FSW Process Parameters During Joining of Al to Cu Using Taguchi-Based GA. Lecture Notes in Mechanical Engineering, 2019, , 833-842.	0.3	2
45	Selection of E-learning websites using a novel Proximity Indexed Value (PIV) MCDM method. Journal of Computers in Education, 2019, 6, 241-256.	5.0	46
46	Ranking model of total quality management enablers in healthcare establishments using the best-worst method. TQM Journal, 2019, 31, 790-814.	2.1	31
47	On the optimal dynamic design of laminated composite folded plates: a multi-criteria decision analysis. Multidiscipline Modeling in Materials and Structures, 2019, 16, 322-339.	0.6	2
48	Application of the Taguchi based entropy weighted TOPSIS method for optimisation of diesel engine performance and emission parameters. International Journal of Heavy Vehicle Systems, 2019, 26, 69.	0.1	12
49	Investigation on material mixing during FSW of AA7475 to AISI304. Materials and Manufacturing Processes, 2019, 34, 192-200.	2.7	32
50	Friction stir welding of AA-5754 in water and air: a comparative study. Materials Research Express, 2019, 6, 016545.	0.8	12
51	Surface treatments of plant fibers and their effects on mechanical properties of fiber-reinforced composites: A review. Journal of Reinforced Plastics and Composites, 2019, 38, 15-30.	1.6	164
52	Review on underwater friction stir welding: A variant of friction stir welding with great potential of improving joint properties. Transactions of Nonferrous Metals Society of China, 2018, 28, 193-219.	1.7	109
53	Effect of process parameters on microstructure and electrical conductivity during FSW of Al-6101 and Pure Copper. Materials Research Express, 2018, 5, 046519.	0.8	11
54	Optimization of diesel engine input parameters for reducing hydrocarbon emission and smoke opacity using Taguchi method and analysis of variance. Energy and Environment, 2018, 29, 410-431.	2.7	5

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55	Effect Of Different Tool Pin Profiles On The Joint Quality Of Friction Stir Welded AA 6063. Materials Today: Proceedings, 2018, 5, 4175-4182.	0.9	14
56	Analysis of cooling media effects on microstructure and mechanical properties during FSW/UFSW of AA 6082-T6. Materials Research Express, 2018, 5, 046512.	0.8	22
57	Experimental study on effect of flux composition on element transfer during submerged arc welding. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	7
58	Material stirring during FSW of Alâ€“Cu: Effect of pin profile. Materials and Manufacturing Processes, 2018, 33, 786-794.	2.7	59
59	Application of MOORA method for multi optimization of GMAW process parameters in stain-less steel cladding. Management Science Letters, 2018, , 241-246.	0.8	11
60	Microstructure evaluation, thermal and mechanical characterization of hybrid metal matrix composite. Science and Engineering of Composite Materials, 2018, 25, 1187-1196.	0.6	10
61	Understanding the dissimilar friction stir welding through force and temperature evolution. Materials Today: Proceedings, 2018, 5, 17125-17131.	0.9	4
62	Microstructural features of friction stir welded dissimilar Aluminium alloys AA2219-AA7475. Materials Research Express, 2018, 5, 056531.	0.8	13
63	Proposing a new relation for selecting tool pin length in friction stir welding process. Measurement: Journal of the International Measurement Confederation, 2018, 129, 112-118.	2.5	14
64	Investigation on the Effect of Tool Pin Profiles on Mechanical and Microstructural Properties of Friction Stir Butt and Scarf Welded Aluminium Alloy 6063. Metals, 2018, 8, 74.	1.0	33
65	Fabrication of promising material â€˜titanium aluminideâ€™: methods and issues (a status report). Materials Research Express, 2018, 5, 116504.	0.8	6
66	Mechanical and microstructural behavior of friction stir welded similar and dissimilar sheets of AA2219 and AA7475 aluminium alloys. Journal of Alloys and Compounds, 2017, 695, 2902-2908.	2.8	101
67	Prioritizing decision criteria of flexible manufacturing systems using fuzzy TOPSIS. Journal of Manufacturing Technology Management, 2017, 28, 913-927.	3.3	9
68	Analysis of defects in clean fabrication process of friction stir welding. Transactions of Nonferrous Metals Society of China, 2017, 27, 1507-1516.	1.7	43
69	Friction stir welding of aluminum to copperâ€”An overview. Transactions of Nonferrous Metals Society of China, 2017, 27, 2113-2136.	1.7	98
70	Investigations on the Biomechanical Compatibility of a Novel Titanium Alloy. Materials Today: Proceedings, 2017, 4, 10432-10436.	0.9	0
71	Effects of Cutting Parameters on Quality of Surface Produced by Machining of Titanium Alloy and Their Optimization. Archive of Mechanical Engineering, 2016, 63, 531-548.	0.7	11
72	Friction Stir Welds of Al Alloy-Cu: An Investigation on Effect of Plunge Depth. Archive of Mechanical Engineering, 2016, 63, 619-634.	0.7	32

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73	Effect of Flux Composition on the Percentage Elongation and Tensile Strength of Welds in Submerged Arc Welding. Archive of Mechanical Engineering, 2016, 63, 337-354.	0.7	6
74	Effect of CaF2, FeMn and NiO additions on impact strength and hardness in submerged arc welding using developed agglomerated fluxes. Journal of Alloys and Compounds, 2016, 667, 158-169.	2.8	18
75	Application of Grey Relational Analysis Along with Principal Component Analysis for Multi-Response Optimization of Hard Turning. SSRG International Journal of Engineering Trends and Technology, 2016, 38, 238-245.	0.3	8
76	A Novel Approach to Enhance Performance of Multilayer Coated Carbide Insert in Hard Turning. Archive of Mechanical Engineering, 2015, 62, 539-552.	0.7	0
77	Influence of thermomechanical processing on biomechanical compatibility and electrochemical behavior of new near beta alloy, Ti-20.6Nb-13.6Zr-0.5V. International Journal of Nanomedicine, 2015, 10 Suppl 1, 223.	3.3	9
78	Analysis of chip morphology in dry hard turning of AISI 52100 alloy steel using RSM. International Journal of Machining and Machinability of Materials, 2015, 17, 481.	0.1	6
79	Influence of thermo-mechanical processing on microstructure, mechanical properties and corrosion behavior of a new metastable Î²-titanium biomedical alloy. Bulletin of Materials Science, 2015, 38, 247-258.	0.8	6
80	Microstructure, mechanical properties and electrochemical behavior of a novel biomedical titanium alloy subjected to thermo-mechanical processing including aging. Journal of Alloys and Compounds, 2015, 634, 272-280.	2.8	48
81	Multi-response optimization of wire electrical discharge machining process parameters for Al7075/Al₂O₃/SiC hybrid composite using Taguchi-based grey relational analysis. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 229-237.	1.5	64
82	RSM Based Investigations on the Effects of Cutting Parameters on Surface Integrity during Cryogenic Hard Turning of AISI 52100. Journal for Manufacturing Science and Production, 2015, 15, 309-318.	0.1	2
83	Optimization of wire electrical discharge machining process parameters on material removal rate for Al7075/SiC/Al2O3 hybrid composite. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 802-812.	1.5	9
84	Investigations on tunneling and kissing bond defects in FSW joints for dissimilar aluminum alloys. Journal of Alloys and Compounds, 2015, 648, 360-367.	2.8	145
85	Effect of thermo-mechanical processing on microstructure and electrochemical behavior of Tiâ€“Nbâ€“Zrâ€“V new metastable Î² titanium biomedical alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 759-769.	1.7	17
86	Effect of Minor Additives on Bead Geometry and Shape Relationship Using Submerged Arc Welding Fluxes. Journal for Manufacturing Science and Production, 2015, 15, 183-196.	0.1	0
87	Effect of Shoulder Diameter to Pin Diameter (D/d) Ratio on Tensile Strength of Friction Stir Welded 6063 Aluminium Alloy. Materials Today: Proceedings, 2015, 2, 1450-1457.	0.9	47
88	A review of turning of hard steels used in bearing and automotive applications. Production and Manufacturing Research, 2014, 2, 24-49.	0.9	31
89	Investigations on the effect of wire EDM process parameters on surface integrity of HSLA: a multi-performance characteristics optimization. Production and Manufacturing Research, 2014, 2, 501-518.	0.9	27
90	Investigations on the Effect of CNC Dry Hard Turning Process Parameters on Surface Integrity: A Multi-performance Characteristics Optimization. Journal for Manufacturing Science and Production, 2014, 14, 23-30.	0.1	1

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91	Optimization of Deep Drilling Process Parameters of AISI 321 Steel Using Taguchi Method. , 2014, 6, 1217-1225.		44
92	An investigation on effects of wire electrical discharge machining parameters on surface roughness of newly developed hybrid metal matrix composite. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 653-662.	1.5	9
93	Wire electrical discharge machining of AA7075/SiC/Al2O3 hybrid composite fabricated by inert gas-assisted electromagnetic stir-casting process. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2014, 36, 335-346.	0.8	32
94	RSM based Study of Cutting Temperature During Hard Turning with Multilayer Coated Carbide Insert. , 2014, 6, 1233-1242.		32
95	Optimization of surface integrity in dry hard turning using RSM. Sadhana - Academy Proceedings in Engineering Sciences, 2014, 39, 1035-1053.	0.8	26
96	Multi Response Optimization of Wire Electrical Discharge Machining Process Parameters Using Taguchi based Grey Relational Analysis. , 2014, 6, 1683-1695.		45
97	Surface Modifications of Titanium Materials for developing Corrosion Behavior in Human Body Environment: A Review. , 2014, 6, 1610-1618.		129
98	Investigation of surface integrity during wet turning of hard alloy steel. International Journal of Machining and Machinability of Materials, 2014, 16, 22.	0.1	10
99	Micro-hardness and Young's modulus of a thermo-mechanically processed biomedical titanium alloy. Biomaterials and Biomechanics in Bioengineering, 2014, 1, 117-130.	0.1	4
100	The impact of variety of orders and different number of workers on production scheduling performance. Journal of Manufacturing Technology Management, 2013, 24, 1123-1142.	3.3	4
101	Investigation and optimisation of machining parameters for micro-countersinking of AISI 420 stainless steel. International Journal of Machining and Machinability of Materials, 2013, 14, 230.	0.1	6
102	Review on effect of flux composition on its behavior and bead geometry in submerged arc welding (SAW). Journal of Mechanical Engineering Research, 2013, 5, 123-127.	0.4	16
103	Selection of optimal condition for finishing of centreless-cylindrical ground parts using grey relational and principal component analyses. International Journal of Materials and Product Technology, 2012, 43, 2.	0.1	6
104	Influence of slab milling process parameters on surface integrity of HSLA: a multi-performance characteristics optimization. International Journal of Advanced Manufacturing Technology, 2012, 61, 859-871.	1.5	25
105	The effect of layout design on productivity: an empirical study. International Journal of Productivity and Quality Management, 2011, 7, 484.	0.1	14
106	Multi-response optimization of diesel engine performance parameters using thumba biodiesel-diesel blends by applying the Taguchi method and grey relational analysis. International Journal of Automotive Technology, 2011, 12, 599-610.	0.7	71
107	Taguchi techniquesâ€based study on the effect of mobile phone conversation on drivers' reaction time. International Journal of Quality and Reliability Management, 2010, 27, 63-77.	1.3	5
108	Grey relational analysis coupled with principal component analysis for optimisation design of the process parameters in in-feed centreless cylindrical grinding. International Journal of Advanced Manufacturing Technology, 2010, 46, 983-992.	1.5	105

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109	Quality characteristic improvement of an injection moulding product made from blends plastic by optimizing the injection moulding parameters using Taguchi method. International Journal of Plastics Technology, 2010, 14, 152-166.	2.9	8
110	Feasibility study of use of recycled High Density Polyethylene and multi response optimization of injection moulding parameters using combined grey relational and principal component analyses. Materials & Design, 2010, 31, 2925-2931.	5.1	67
111	A Study on the Effects of Human Age, Type of Computer and Noise on Operatorsâ€™ Performance of a Data Entry Task. International Journal of Occupational Safety and Ergonomics, 2010, 16, 455-463.	1.1	1
112	Performance Evaluation of a Medium Capacity Diesel Engine on Thumba Biodiesel and Diesel Blends. Journal of Biofuels, 2010, 1, 172.	0.1	6
113	Application of Taguchi Method in the Optimization of Injection Moulding Parameters for Manufacturing Products from Plastic Blend. International Journal of Engineering and Technology, 2010, 2, 574-580.	0.1	78
114	Determination of Optimum Level of Factors for Producing High-Quality Biscuits Using the Taguchi Method. Journal of Culinary Science and Technology, 2009, 7, 105-118.	0.6	2
115	A Study on the Effect of Human Laterality, Type of Computer and Noise on Operatorsâ€™ Performance of a Data Entry Task. International Journal of Occupational Safety and Ergonomics, 2009, 15, 53-60.	1.1	6
116	A Study on the Combined Effect of Noise and Vibration on the Performance of a Readability Task in a Mobile Driving Environment by Operators of Different Ages. International Journal of Occupational Safety and Ergonomics, 2009, 15, 277-286.	1.1	5
117	Fuzzy production control with limited resources and response delay. Computers and Industrial Engineering, 2009, 56, 433-443.	3.4	11
118	An experimental study on the effect of mobile phone conversation on drivers' reaction time in braking response. Journal of Safety Research, 2009, 40, 185-189.	1.7	26
119	Nanotechnology centres of higher education: trends and challenges. International Journal of Nanoparticles, 2009, 2, 522.	0.1	0
120	Application of the Taguchi method for optimization of parameters to maximize text message entering performance of mobile phone users. International Journal of Quality and Reliability Management, 2009, 26, 469-479.	1.3	20
121	Nanotechnology within the framework of human factors engineering with special reference to developing countries like Saudi Arabia. International Journal of Nanomanufacturing, 2009, 4, 300.	0.3	1
122	Analysis of Endogenous LRP6 Function Reveals a Novel Feedback Mechanism by Which Wnt Negatively Regulates Its Receptor. Molecular and Cellular Biology, 2007, 27, 7291-7301.	1.1	66
123	A Study on the Combined Effect of Noise and Vibration on Operatorsâ€™ Performance of a Readability Task in a Mobile Driving Environment. International Journal of Occupational Safety and Ergonomics, 2007, 13, 127-136.	1.1	7
124	Effect of viscous dissipation and radiation on natural convection in a porous medium embedded within vertical annulus. International Journal of Thermal Sciences, 2007, 46, 221-227.	2.6	127
125	Implementation of dust control system using management and planning tools (MPT). Management of Environmental Quality, 2006, 17, 390-408.	2.2	3
126	A Quick and Accurate Estimation of Heat Losses from a Cow. Biosystems Engineering, 2006, 93, 313-323.	1.9	4

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127	Optimizing Flexible Behaviour of Bow Prototype Using Taguchi Approach. Journal of Applied Sciences, 2006, 6, 622-630.	0.1	33
128	Optimization of rapid prototyping parameters for production of flexible ABS object. Journal of Materials Processing Technology, 2005, 169, 54-61.	3.1	449
129	Fuzzy control with limited control opportunities and response delayâ€“â€“a production-inventory control scenario. International Journal of Approximate Reasoning, 2005, 38, 113-131.	1.9	10
130	Microstructure evolution of Friction Stir Welded Dissimilar Aerospace Aluminium Alloys. IOP Conference Series: Materials Science and Engineering, 0, 404, 012002.	0.3	9
131	Improvement in joint efficiency with high productivity and narrow weld formation in friction stir welding. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892110424.	1.4	3
132	Fabrication of surface composites on different aluminium alloys via friction stir process - A review report. Australian Journal of Mechanical Engineering, 0, , 1-24.	1.5	4