

D Samuel Raj

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

358
citations

1040056

9
h-index

940533

16
g-index

19
all docs

19
docs citations

19
times ranked

286
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of EDMed rake face grooves on the chip breaking capability of twist drills during deep hole drilling of Al 6061 aluminum alloy. <i>Materials and Manufacturing Processes</i> , 2022, 37, 1052-1072.	4.7	8
2	Effect of cutting edge radius on end milling Ti-6Al-4V under minimum quantity cooling lubrication – Chip morphology and surface integrity study. <i>Wear</i> , 2022, 498-499, 204307.	3.1	11
3	A combined numerical and experimental investigation of minimum quantity lubrication applied to end milling of Ti6Al4V alloy. <i>Machining Science and Technology</i> , 2021, 25, 209-236.	2.5	10
4	Optimization of jet position and investigation of the effects of multijet MQCL during end milling of Ti-6Al-4V. <i>Journal of Manufacturing Processes</i> , 2021, 64, 392-408.	5.9	16
5	A novel contact area based analysis to study the thermo-mechanical effect of cutting edge radius using numerical and multi-sensor experimental investigation in turning. <i>Journal of Materials Processing Technology</i> , 2021, 293, 117085.	6.3	15
6	Evaluation of the effect of cryogenic treatment of HSS drills at different holding time in drilling AISI 316-SS. <i>Engineering Research Express</i> , 2020, 2, 025005.	1.6	7
7	Performance of cryogenically treated WC drill using tool wear measurements on the cutting edge and hole surface topography when drilling CFRP. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 78, 32-44.	3.8	29
8	A new and comprehensive characterisation of tool wear in CFRP drilling using micro-geometry and topography studies on the cutting edge. <i>Journal of Manufacturing Processes</i> , 2018, 32, 839-856.	5.9	33
9	On the benefits of sub-zero air supplemented minimum quantity lubrication systems: An experimental and mechanistic investigation on end milling of Ti-6-Al-4-V alloy. <i>Tribology International</i> , 2018, 119, 464-473.	5.9	50
10	Studies on Cryogenic Treated Drills Under Nano-Fluid Based Reduced Quantity Lubrication Conditions for Machining Ti6Al4V. , 2018, , .		1
11	Simplified MQL system for drilling AISI 304 SS using cryogenically treated drills. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1679-1684.	4.7	28
12	Cutting edge –flattening and roughness measurement –to monitor blunting and chipping of the drill cutting edge when drilling CFRP. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 953-968.	3.0	19
13	Improvement of hole quality and process characteristics by adopting reduced quantity lubrication in drilling of stainless steel 304. <i>International Journal of Productivity and Quality Management</i> , 2017, 22, 190.	0.2	1
14	Improvement of hole quality and process characteristics by adopting reduced quantity lubrication in drilling of stainless steel 304. <i>International Journal of Productivity and Quality Management</i> , 2017, 22, 1.	0.2	2
15	Six Sigma implementation in a manufacturing unit - a case study. <i>International Journal of Productivity and Quality Management</i> , 2016, 19, 409.	0.2	2
16	Study of the Effect of Tool Wear on Hole Quality in Drilling CFRP to Select a Suitable Drill for Multi-Criteria Hole Quality. <i>Materials and Manufacturing Processes</i> , 2016, 31, 587-592.	4.7	70
17	Six Sigma implementation in a manufacturing unit - a case study. <i>International Journal of Productivity and Quality Management</i> , 2016, 19, 409.	0.2	1
18	Modeling and Optimization of Process Parameters for Defect Toleranced Drilling of GFRP Composites. <i>Materials and Manufacturing Processes</i> , 2006, 21, 357-365.	4.7	40

#	ARTICLE	IF	CITATIONS
19	Performance analysis of tools with rake face textures produced using wire-EDM in turning AISI4340. Materials and Manufacturing Processes, 0, , 1-15.	4.7	15