

Rao Fu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

642
citations

840776

11
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

354
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-sided milling of thin-walled parts by dual collaborative parallel kinematic machines. <i>Journal of Materials Processing Technology</i> , 2022, 299, 117395.	6.3	10
2	Compliance model of Exechon manipulators with an offset wrist. <i>Mechanism and Machine Theory</i> , 2022, 167, 104558.	4.5	12
3	Numerical prediction of the chip formation and damage response in CFRP cutting with a novel strain rate based material model. <i>Composite Structures</i> , 2022, 294, 115746.	5.8	5
4	Wear characteristics of multi-tooth milling cutter in milling CFRP and its impact on machining performance. <i>Journal of Manufacturing Processes</i> , 2022, 81, 580-593.	5.9	14
5	Mechanical model for predicting thrust force with tool wear effects in drilling of unidirectional CFRP. <i>Composite Structures</i> , 2021, 262, 113601.	5.8	21
6	Novel chip-breaking structure of step drill for drilling damage reduction on CFRP/Al stack. <i>Journal of Materials Processing Technology</i> , 2021, 291, 117033.	6.3	14
7	A semi-analytical model for predicting tool wear progression in drilling CFRP. <i>Wear</i> , 2021, 486-487, 204119.	3.1	10
8	Multi-margin drill structure for improving hole quality and dimensional consistency in drilling Ti/CFRP stacks. <i>Journal of Materials Processing Technology</i> , 2020, 276, 116405.	6.3	28
9	A mechanistic prediction model for thrust force and torque during drilling of CFRP/Ti stacks. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 3105-3115.	3.0	13
10	A numerical approach to analyze the burrs generated in the drilling of carbon fiber reinforced polymers (CFRPs). <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 3533-3546.	3.0	12
11	An investigation of the effects of step drill geometry on drilling induced delamination and burr of Ti/CFRP stacks. <i>Composite Structures</i> , 2020, 235, 111786.	5.8	38
12	Kinematics and Constraints of the Exechon Robot Accounting Offsets Due to Errors in the Base Joint Axes. <i>Journal of Mechanisms and Robotics</i> , 2020, 12, .	2.2	8
13	Cost-oriented process optimisation through variation propagation management for aircraft wing spar assembly. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 57, 435-451.	9.9	14
14	Cooling Process of Reverse Air Suctioning for Damage Suppression in Drilling CFRP Composites. <i>Procedia CIRP</i> , 2019, 85, 147-152.	1.9	9
15	Temperature effects in end milling carbon fiber reinforced polymer composites. <i>Polymer Composites</i> , 2018, 39, 437-447.	4.6	46
16	Effects of cooling position on tool wear reduction of secondary cutting edge corner of one-shot drill bit in drilling CFRP. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 4277-4287.	3.0	37
17	Drill-exit temperature characteristics in drilling of UD and MD CFRP composites based on infrared thermography. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 135, 24-37.	13.4	106
18	Review on Structure-Based Errors of Parallel Kinematic Machines in Comparison with Traditional NC Machines. <i>Communications in Computer and Information Science</i> , 2018, , 249-256.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Secondary cutting edge wear of one-shot drill bit in drilling CFRP and its impact on hole quality. Composite Structures, 2017, 178, 341-352.	5.8	61
20	Influence of drill helical direction on exit damage development in drilling carbon fiber reinforced plastic. IOP Conference Series: Materials Science and Engineering, 2017, 213, 012015.	0.6	2
21	Novel drill structure for damage reduction in drilling CFRP composites. International Journal of Machine Tools and Manufacture, 2016, 110, 55-65.	13.4	178
22	Numerical Analysis of the Effects of Cutting Parameters on the Sub-Surface Damage in Machining of CFRPs. , 0, , .		1