Rao Fu

List of Publications by Year
in descending order

22	642	840776 11	713466 21
papers	citations	h-index	g-index

22	22	22	354
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel drill structure for damage reduction in drilling CFRP composites. International Journal of Machine Tools and Manufacture, 2016, 110, 55-65.	13.4	178
2	Drill-exit temperature characteristics in drilling of UD and MD CFRP composites based on infrared thermography. International Journal of Machine Tools and Manufacture, 2018, 135, 24-37.	13.4	106
3	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
4	Temperature effects in end milling carbon fiber reinforced polymer composites. Polymer Composites, 2018, 39, 437-447.	4.6	46
5	An investigation of the effects of step drill geometry on drilling induced delamination and burr of Ti/CFRP stacks. Composite Structures, 2020, 235, 111786.	5.8	38
6	Effects of cooling position on tool wear reduction of secondary cutting edge corner of one-shot drill bit in drilling CFRP. International Journal of Advanced Manufacturing Technology, 2018, 94, 4277-4287.	3.0	37
7	Multi-margin drill structure for improving hole quality and dimensional consistency in drilling Ti/CFRP stacks. Journal of Materials Processing Technology, 2020, 276, 116405.	6.3	28
8	Mechanical model for predicting thrust force with tool wear effects in drilling of unidirectional CFRP. Composite Structures, 2021, 262, 113601.	5.8	21
9	Cost-oriented process optimisation through variation propagation management for aircraft wing spar assembly. Robotics and Computer-Integrated Manufacturing, 2019, 57, 435-451.	9.9	14
10	Novel chip-breaking structure of step drill for drilling damage reduction on CFRP/Al stack. Journal of Materials Processing Technology, 2021, 291, 117033.	6.3	14
11	Wear characteristics of multi-tooth milling cutter in milling CFRP and its impact on machining performance. Journal of Manufacturing Processes, 2022, 81, 580-593.	5.9	14
12	A mechanistic prediction model for thrust force and torque during drilling of CFRP/Ti stacks. International Journal of Advanced Manufacturing Technology, 2020, 106, 3105-3115.	3.0	13
13	A numerical approach to analyze the burrs generated in the drilling of carbon fiber reinforced polymers (CFRPs). International Journal of Advanced Manufacturing Technology, 2020, 106, 3533-3546.	3.0	12
14	Compliance model of Exechon manipulators with an offset wrist. Mechanism and Machine Theory, 2022, 167, 104558.	4.5	12
15	A semi-analytical model for predicting tool wear progression in drilling CFRP. Wear, 2021, 486-487, 204119.	3.1	10
16	Double-sided milling of thin-walled parts by dual collaborative parallel kinematic machines. Journal of Materials Processing Technology, 2022, 299, 117395.	6.3	10
17	Cooling Process of Reverse Air Suctioning for Damage Suppression in Drilling CFRP Composites. Procedia CIRP, 2019, 85, 147-152.	1.9	9
18	Kinematics and Constraints of the Exechon Robot Accounting Offsets Due to Errors in the Base Joint Axes. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	8

#	Article	IF	Citations
19	Numerical prediction of the chip formation and damage response in CFRP cutting with a novel strain rate based material model. Composite Structures, 2022, 294, 115746.	5.8	5
20	Review on Structure-Based Errors of Parallel Kinematic Machines in Comparison with Traditional NC Machines. Communications in Computer and Information Science, 2018, , 249-256.	0.5	3
21	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
22	Numerical Analysis of the Effects of Cutting Parameters on the Sub-Surface Damage in Machining of CFRPs. , 0, , .		1