

Jie Chen

List of Publications by Year in Descending Order

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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.

21
papers

257
citations

10
h-index

15
g-index

21
ext. papers

461
ext. citations

4.5
avg, IF

4.44
L-index

#	Paper	IF	Citations
21	Wear and failure mechanisms of SiALON ceramic tools during high-speed turning of nickel-based superalloys. <i>Wear</i> , 2021 , 204171	3.5	0
20	Effects of in-situ TiB ₂ particles on machinability and surface integrity in milling of TiB ₂ /2024 and TiB ₂ /7075 Al composites. <i>Chinese Journal of Aeronautics</i> , 2021 , 34, 110-124	3.7	7
19	Machining of SiC ceramic matrix composites: A review. <i>Chinese Journal of Aeronautics</i> , 2021 , 34, 540-567	3.7	42
18	Preliminary study on mechanical characteristics of maxillofacial soft and hard tissues for virtual surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 151-160	3.9	1
17	Experimental and FEM study of cutting mechanism and damage behavior of ceramic particles in orthogonal cutting SiCp/Al composites. <i>Ceramics International</i> , 2021 , 47, 7183-7194	5.1	10
16	Preparation and analysis of micro-holes in C/SiC composites and ablation with a continuous wave laser. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 176-184	6	8
15	Analysis of low-frequency vibration-assisted bone drilling in reducing thermal injury. <i>Materials and Manufacturing Processes</i> , 2021 , 36, 27-38	4.1	2
14	Experimental study on the cutting responses and surface integrity of side milled in situ TiB ₂ /Al composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 113, 321-335	3.2	1
13	Comprehensive study on the cutting specific energy and surface roughness of milled in situ TiB ₂ /Al composites and Al alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 2717-2729	3.2	2
12	Machinability improvement of compacted graphite irons in milling process with supercritical CO ₂ -based MQL. <i>Journal of Manufacturing Processes</i> , 2021 , 68, 154-168	5	2
11	Tribological properties and tool wear in milling of in-situ TiB ₂ /7075 Al composite under various cryogenic MQL conditions. <i>Tribology International</i> , 2021 , 160, 107021	4.9	11
10	Investigations on continuous-wave laser and pulsed laser induced controllable ablation of SiCf/SiC composites. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5835-5849	6	5
9	Mechanism and feasibility of ultrasonic-assisted milling to improve the machined surface quality of 2D Cf/SiC composites. <i>Ceramics International</i> , 2020 , 46, 15122-15136	5.1	17
8	Experimental study on chip formation and surface quality in milling of TiB ₂ /Al alloy composites. <i>Materials and Manufacturing Processes</i> , 2020 , 35, 1671-1679	4.1	6
7	Influences of clearance angle and point angle on drilling performance of 2D Cf/SiC composites using polycrystalline diamond tools. <i>Ceramics International</i> , 2020 , 46, 4371-4380	5.1	13
6	Transformation of fracture mechanism and damage behavior of ceramic-matrix composites during nano-scratching. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 130, 105756	8.4	17
5	Investigation on machined surface quality in ultrasonic-assisted grinding of Cf/SiC composites based on fracture mechanism of carbon fibers. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 109, 1583-1599	3.2	7

4	Experimental investigation on tool wear characteristics of PVD and CVD coatings during face milling of Ti 6242S and Ti-555 titanium alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 86, 105091	4.1	33
3	Hole exit quality and machined surface integrity of 2D Cf/SiC composites drilled by PCD tools. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4000-4010	6	19
2	Dynamic mechanical properties and machinability characteristics of selective laser melted and forged Ti6Al4V. <i>Journal of Materials Processing Technology</i> , 2019 , 271, 284-292	5.3	32
1	Thermal characteristics of unidirectional carbon fiber reinforced polymer laminates during orthogonal cutting. <i>Journal of Reinforced Plastics and Composites</i> , 2018 , 37, 905-916	2.9	22