

Guang Chen

List of Publications by Year in descending order

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27
papers

946
citations

516710

16
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526287

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all docs

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docs citations

27
times ranked

847
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite element simulation of high-speed machining of titanium alloy (Ti-6Al-4V) based on ductile failure model. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 56, 1027-1038.	3.0	212
2	An investigation of workpiece temperature variation of helical milling for carbon fiber reinforced plastics (CFRP). <i>International Journal of Machine Tools and Manufacture</i> , 2014, 86, 89-103.	13.4	87
3	Temperature dependent work hardening in Ti-6Al-4V alloy over large temperature and strain rate ranges: Experiments and constitutive modeling. <i>Materials and Design</i> , 2015, 83, 598-610.	7.0	86
4	Micro/nano-structured TiO ₂ surface with dual-functional antibacterial effects for biomedical applications. <i>Bioactive Materials</i> , 2019, 4, 346-357.	15.6	75
5	Mechanism for material removal in ultrasonic vibration helical milling of Ti-6Al-4V alloy. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 138, 1-13.	13.4	68
6	Measurement and finite element simulation of micro-cutting temperatures of tool tip and workpiece. <i>International Journal of Machine Tools and Manufacture</i> , 2013, 75, 16-26.	13.4	56
7	Effects of axial and longitudinal-torsional vibration on fiber removal in ultrasonic vibration helical milling of CFRP composites. <i>Journal of Manufacturing Processes</i> , 2020, 58, 868-883.	5.9	46
8	Geometrical texture and surface integrity in helical milling and ultrasonic vibration helical milling of Ti-6Al-4V alloy. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116494.	6.3	36
9	Application of genetic algorithms for optimizing the Johnson-Cook constitutive model parameters when simulating the titanium alloy Ti-6Al-4V machining process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2012, 226, 1287-1297.	2.4	33
10	Modeling of flow behavior for 7050-T7451 aluminum alloy considering microstructural evolution over a wide range of strain rates. <i>Mechanics of Materials</i> , 2016, 95, 146-157.	3.2	28
11	Temperature dependent negative to positive strain rate sensitivity and compression behavior for 2024-T351 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2018, 765, 569-585.	5.5	27
12	A new approach to the determination of plastic flow stress and failure initiation strain for aluminum alloys cutting process. <i>Computational Materials Science</i> , 2014, 95, 568-578.	3.0	25
13	Machining-induced surface integrity in titanium alloy Ti-6Al-4V: An investigation of cutting edge radius and cooling/lubricating strategies. <i>Journal of Manufacturing Processes</i> , 2022, 74, 353-364.	5.9	22
14	Effect of cooling strategies on performance and mechanism of helical milling of CFRP/Ti-6Al-4V stacks. <i>Chinese Journal of Aeronautics</i> , 2022, 35, 388-403.	5.3	21
15	Determination of ductile damage behaviors of high strain rate compression deformation for Ti-6Al-4V alloy using experimental-numerical combined approach. <i>Engineering Fracture Mechanics</i> , 2018, 200, 499-520.	4.3	20
16	Constitutive modeling for Ti-6Al-4V alloy machining based on the SHPB tests and simulation. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016, 29, 962-970.	3.7	19
17	Kinematic view of cutting mechanism in hole-making process of longitude-torsional ultrasonic assisted helical milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 267-280.	3.0	19
18	Influence of constitutive models on finite element simulation of chip formation in orthogonal cutting of Ti-6Al-4V alloy. <i>Procedia Manufacturing</i> , 2019, 33, 530-537.	1.9	15

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19	A comparative study on state of oxide layer in ELID grinding with tool-cathode and workpiece-cathode. International Journal of Advanced Manufacturing Technology, 2018, 94, 1299-1307.	3.0	11
20	Modeling of tool-chip contact length for orthogonal cutting of Ti-6Al-4V alloy considering segmented chip formation. Transactions of Tianjin University, 2016, 22, 525-535.	6.4	10
21	Mechanism of ultra-high-speed cutting of Ti-6Al-4V alloy considering time-dependent microstructure and mechanical behaviors. International Journal of Advanced Manufacturing Technology, 2021, 113, 193-213.	3.0	9
22	Effect of cutting edge radius and cooling strategies on surface integrity in orthogonal machining of Ti-6Al-4V alloy. Procedia CIRP, 2019, 82, 148-153.	1.9	7
23	Performance and mechanism of hole-making of CFRP/Ti-6Al-4V stacks using ultrasonic vibration helical milling process. International Journal of Advanced Manufacturing Technology, 2021, 117, 3529-3547.	3.0	4
24	Influence of oxide layer on grinding quality in ELID grinding bearing outer ring raceway with workpiece-cathode. International Journal of Advanced Manufacturing Technology, 2019, 105, 3045-3056.	3.0	3
25	Investigation of heat partition and instantaneous temperature in milling of Ti-6Al-4V alloy. Journal of Manufacturing Processes, 2022, 80, 302-319.	5.9	3
26	Experimental and finite element study of steady state micro-cutting characteristics of aluminum alloy (2A12). Transactions of Tianjin University, 2011, 17, 344-350.	6.4	2
27	Electrolytic in-process dressing grinding of arc groove with workpiece swing. International Journal of Advanced Manufacturing Technology, 2022, 120, 1929-1947.	3.0	2