

Yao-Nan Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

112
citations

1684188

5
h-index

1474206

9
g-index

25
all docs

25
docs citations

25
times ranked

74
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of the wear behavior of PCBN inserts during cutting of GH4169 superalloys under high-pressure cooling. International Journal of Advanced Manufacturing Technology, 2018, 95, 1941-1951.	3.0	19
2	Study on the adhering failure mechanism of cemented carbide inserts and element diffusion model during the heavy-duty cutting of water chamber head. International Journal of Advanced Manufacturing Technology, 2015, 80, 1833-1842.	3.0	12
3	Investigations on the dust distribution characteristics of dry milling using inserts with various groove profiles. International Journal of Advanced Manufacturing Technology, 2014, 74, 551-562.	3.0	10
4	FEM Simulation and Experiment of High-Pressure Cooling Effect on Cutting Force and Machined Surface Quality During Turning Inconel 718. Integrated Ferroelectrics, 2020, 206, 160-172.	0.7	8
5	The prediction of surface roughness of PCBN turning GH4169 based on adaptive genetic algorithm. Integrated Ferroelectrics, 2017, 180, 118-132.	0.7	6
6	Simulation and experimental study of tool wear in high-speed dry gear hobbing. International Journal of Advanced Manufacturing Technology, 2022, 119, 3181-3204.	3.0	6
7	Investigations of the high-temperature deformation behaviour and fatigue mechanisms of cemented carbide inserts during cutting 508III steel. International Journal of Manufacturing Research, 2015, 10, 299.	0.2	5
8	Design and wear analysis of tool for high-efficiency disk milling roughing of aero-engine blisk channels. International Journal of Advanced Manufacturing Technology, 2018, 96, 1305-1317.	3.0	5
9	A study on the milling temperature and tool wear of difficult-to-machine 508III steel. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 2478-2487.	2.4	5
10	Study on damage behavior of carbide tool for milling difficult-to-machine material. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 735-747.	2.1	5
11	Generation mechanism of insert residual stress while cutting 508III steel. International Journal of Advanced Manufacturing Technology, 2017, 91, 247-255.	3.0	4
12	Tool design and cutting parameter optimization for side milling blisk. International Journal of Advanced Manufacturing Technology, 2019, 100, 2495-2508.	3.0	4
13	Optimum design and performance evaluation of layer face milling cutter for cutting 508III steel. International Journal of Advanced Manufacturing Technology, 2018, 98, 729-740.	3.0	3
14	Analysis and experimental study of the cutting mechanism in machined nickel-base superalloys GH4169 with PCBN tools under high pressure cooling. Integrated Ferroelectrics, 2018, 189, 105-120.	0.7	3
15	Experimental investigation of chip plastic side flow in machining of GH4169 superalloy under high-pressure cooling. Ferroelectrics, 2018, 530, 82-96.	0.6	3
16	Experiment and model of cutting force of heavy-duty milling water chamber head material. SN Applied Sciences, 2019, 1, 1.	2.9	3
17	Adhering failure and optimization of cemented carbide inserts for the heavy-duty cutting of high-strength steel forgings. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 930-938.	2.5	2
18	Performance evaluation of coated cemented carbide inserts milling 508III steel. International Journal of Nanomanufacturing, 2018, 14, 101.	0.3	2

#	ARTICLE	IF	CITATIONS
19	Experimental Study on Tool Wear in Cutting Superalloy under High-Pressure Cooling. Integrated Ferroelectrics, 2020, 207, 208-219.	0.7	2
20	Research on chip shapes analysis and optimization design of chip-breaker in cutting the cylindrical shell material. Integrated Ferroelectrics, 2016, 172, 117-124.	0.7	1
21	Experimental study and simulation analysis of crack propagation of Heavy-Duty milling cemented carbide tool material. Ferroelectrics, 2020, 565, 148-163.	0.6	1
22	Analysis of fatigue damage of cemented carbide insert during the heavy-duty milling of water chamber head. Ferroelectrics, 2020, 564, 78-90.	0.6	1
23	Study on Material Damage of Carbide Tool during Heavy-Duty Cutting. Integrated Ferroelectrics, 2020, 206, 132-150.	0.7	1
24	Dynamic Cutting Force and Stress Distribution of Carbide Insert during Asymmetric Milling of 508III Steel. Integrated Ferroelectrics, 2021, 217, 163-169.	0.7	1
25	Simulation Analysis of the Influence of Coating on the Cutting Temperature Distribution inside the Insert. Integrated Ferroelectrics, 2021, 217, 170-175.	0.7	0