

# Peirong Zhang

## List of Publications by Year in descending order

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23  
papers

345  
citations

1040056

9  
h-index

839539

18  
g-index

23  
all docs

23  
docs citations

23  
times ranked

325  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing surface integrity and corrosion resistance of laser clad Cr-Ni alloys by hard turning and low plasticity burnishing. <i>Applied Surface Science</i> , 2017, 409, 169-178.	6.1	56
2	Physical-mechanical and electrochemical corrosion behaviors of additively manufactured Cr-Ni-based stainless steel formed by laser cladding. <i>Materials and Design</i> , 2016, 100, 254-262.	7.0	49
3	Effect of sequential turning and burnishing on the surface integrity of Cr-Ni-based stainless steel formed by laser cladding process. <i>Surface and Coatings Technology</i> , 2015, 276, 327-335.	4.8	45
4	On machinability and surface integrity in subsequent machining of additively-manufactured thick coatings: A review. <i>Journal of Manufacturing Processes</i> , 2020, 53, 123-143.	5.9	30
5	Modeling and prediction for 3D surface topography in finish turning with conventional and wiper inserts. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 94, 37-45.	5.0	28
6	Mechanical and cutting performance of cemented carbide tools with Cr/x/DLC composite coatings. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 5241-5254.	3.0	24
7	On cutting temperatures in high and ultrahigh-speed machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 73-83.	3.0	22
8	Machinability investigations on turning of Cr-Ni-based stainless steel cladding formed by laser cladding process. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 1707-1714.	3.0	17
9	A study on corrosion behaviors of laser clad Fe-Cr-Ni coating in as-clad and machined conditions. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 711-719.	1.5	11
10	Effect of Glucose Concentration on Electrochemical Corrosion Behavior of Pure Titanium TA2 in Hanks™ Simulated Body Fluid. <i>Materials</i> , 2016, 9, 874.	2.9	10
11	Effect of turning-induced initial roughness level on surface roughness and residual stress improvements in subsequent burnishing. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	8
12	Correlation between the microstructure and machinability in machining Al-(5-25)wt% Si alloys. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 1173-1184.	2.4	8
13	Modeling and prediction of cutting temperature in the machining of H13 hard steel of multi-layer coated cutting tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 3731-3739.	3.0	8
14	Finite element investigation of cutting performance of Cr/W-DLC/DLC composite coated cutting tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 2177-2192.	3.0	7
15	Sustainable manufacturing: re-contouring of laser cladding restored parts by machining method with cutting energy management. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	5
16	An improved numerical integration method for prediction of milling stability using the Lagrange-Simpson interpolation scheme. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 8105-8115.	3.0	5
17	A modified analytical cutting force prediction model under the tool crater wear effect in end milling Ti6Al4V with solid carbide tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 3475-3490.	3.0	4
18	Preparation and toughening mechanism of Mo <sub>2</sub> NiB <sub>2</sub> -based cermets with SiC whiskers. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 1354-1366.	2.1	3

#	ARTICLE	IF	CITATIONS
19	Tool path selection for high-speed ball-end milling process of hardened AISI D2 steel based on fatigue resistance. International Journal of Advanced Manufacturing Technology, 2020, 110, 2239-2247.	3.0	2
20	A theoretical model to study the cutting force characteristics in remanufacturing turning of laser cladded coatings. International Journal of Advanced Manufacturing Technology, 2021, 113, 757-769.	3.0	1
21	Wear Characteristics of Cutting Tool in Brittle Removal of a Ductile Meta in High-Speed Machining. Symmetry, 2021, 13, 1679.	2.2	1
22	On the milling strategy in machining curved surfaces based on minimum stress concentration by a 3-axis machining center. International Journal of Advanced Manufacturing Technology, 2022, 119, 7475-7486.	3.0	1
23	Improving the surface integrity of laser cladded layer by ultrasonic-assisted burnishing at medium temperature with considering initial surface conditions. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 0, , 095440542211017.	2.4	0