Padmakumar Muthuswamy

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8304057/publications.pdf

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24	367	933447	839539
papers	citations	10 h-index	18 g-index

25	25	25	117
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of Blockchain Technology in Manufacturing Supply Chain and Logistics. Logistics, 2022, 6, 15.	4.3	86
2	Additive Manufacturing of Tungsten Carbide Hardmetal Parts by Selective Laser Melting (SLM), Selective Laser Sintering (SLS) and Binder Jet 3D Printing (BJ3DP) Techniques. Lasers in Manufacturing and Materials Processing, 2020, 7, 338-371.	2.2	54
3	Investigation of phase structure of cobalt and its effect in WCâ€“Co cemented carbides before and after deep cryogenic treatment. International Journal of Refractory Metals and Hard Materials, 2018, 74, 87-92.	3.8	32
4	Effect of cutting edge form factor (K-factor) on the performance of a face milling tool. CIRP Journal of Manufacturing Science and Technology, 2020, 31, 305-313.	4.5	29
5	A review on cryogenic treatment of tungsten carbide (WC-Co) tool material. Materials and Manufacturing Processes, 2021, 36, 637-659.	4.7	17
6	Analyzing the effect of cutting parameters and tool nose radius on forces, machining power and tool life in face milling of ductile iron and validation using finite element analysis. Engineering Research Express, 2020, 2, 035003.	1.6	17
7	Characterization of cryogenically treated cemented carbide. Integrated Ferroelectrics, 2017, 185, 65-72.	0.7	14
8	Experimental investigation to assess the effects of trumpet hone on tool life and surface quality in milling of AISI4140 steel. FME Transactions, 2019, 47, 437-441.	1.4	14
9	Machinability analysis in high speed turning of Tiâ€“6Alâ€“4V alloy and investigation of wear mechanism in AlTiN PVD coated tungsten carbide tool. Engineering Research Express, 2021, 3, 045011.	1.6	13
10	Tribological behaviour of Cryogenically Treated WC-9Co Cemented Carbide. Materials Today: Proceedings, 2018, 5, 7797-7807.	1.8	11
11	Investigation on the effect of cryogenic treatment on tungsten carbide milling insert with 11% cobalt (WCâ€“11%Co). SN Applied Sciences, 2020, 2, 1.	2.9	11
12	Effect of cutting parameters and high-pressure coolant on forces, surface roughness and tool life in turning AISI 1045 steel. Materials Today: Proceedings, 2021, 43, 482-489.	1.8	10
13	Experimental Investigation on the Effect of Different Micro-Geometries on Cutting Edge and Wiper Edge on Surface Roughness and Forces in Face Milling. Lubricants, 2021, 9, 102.	2.9	9
14	Investigation on sustainable machining characteristics of tools with serrated cutting edges in face milling of AISI 304 Stainless Steel. Procedia CIRP, 2022, 105, 865-871.	1.9	8
15	Influence of powder characteristics on properties of parts manufactured by metal additive manufacturing. Lasers in Manufacturing and Materials Processing, 2022, 9, 312-337.	2.2	8
16	Experimental Investigation on Effect of High Pressure Coolant with Various Cutting Speed and Feed on Surface Roughness in Cylindrical Turning of AISI 1060 Steel Using Carbide Insert. Advanced Materials Research, 2014, 984-985, 3-8.	0.3	7
17	Influence of cryo-processing on properties of tungsten carbide with low, medium and high cobalt content. Materials Research Express, 2019, 6, 106597.	1.6	7
18	Performance evaluation of cryogenically treated and tempered tungsten carbide insert on face milling of grey cast iron. International Journal of Machining and Machinability of Materials, 2017, 19, 180.	0.1	5

#	Article	IF	Citations
19	Evaluation of mechanical and metallurgical properties of cryo-treated tungsten carbide with 25% cobalt. Materials Today: Proceedings, 2021, 43, 3463-3469.	1.8	4
20	A novel wiper insert design and an experimental investigation to compare its performance in face milling. Advances in Materials and Processing Technologies, 2022, 8, 2070-2085.	1.4	3
21	Influence of micro-geometry of wiper facet on the performance of a milling insert: an experimental investigation and validation using numerical simulation. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, .	1.3	3
22	AN EXPERIMENTAL STUDY OF APPLYING VARIOUS CUTTING EDGES ON WIPER MILLING INSERTS IN FACE MILLING AISI 1070 STEEL. International Journal of Mechanical and Industrial Engineering, 2013, , 257-262.	0.0	2
23	Performance evaluation of cryogenically treated and tempered tungsten carbide insert on face milling of grey cast iron. International Journal of Machining and Machinability of Materials, 2017, 19, 180.	0.1	2
24	Microstructure and magnetic properties of cryogenically treated cobalt. Materials Today: Proceedings, 2021, 46, 4948-4953.	1.8	0