

# Padmakumar Muthuswamy

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

367  
citations

933264

10  
h-index

839398

18  
g-index

25  
all docs

25  
docs citations

25  
times ranked

117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Blockchain Technology in Manufacturing Supply Chain and Logistics. <i>Logistics</i> , 2022, 6, 15.	2.4	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. <i>Lasers in Manufacturing and Materials Processing</i> , 2020, 7, 338-371.	1.2	54
3	Investigation of phase structure of cobalt and its effect in WC-Co cemented carbides before and after deep cryogenic treatment. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 74, 87-92.	1.7	32
4	Effect of cutting edge form factor (K-factor) on the performance of a face milling tool. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020, 31, 305-313.	2.3	29
5	A review on cryogenic treatment of tungsten carbide (WC-Co) tool material. <i>Materials and Manufacturing Processes</i> , 2021, 36, 637-659.	2.7	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. <i>Engineering Research Express</i> , 2020, 2, 035003.	0.8	17
7	Characterization of cryogenically treated cemented carbide. <i>Integrated Ferroelectrics</i> , 2017, 185, 65-72.	0.3	14
8	Experimental investigation to assess the effects of trumpet hone on tool life and surface quality in milling of AISI4140 steel. <i>FME Transactions</i> , 2019, 47, 437-441.	0.7	14
9	Machinability analysis in high speed turning of Ti-6Al-4V alloy and investigation of wear mechanism in AlTiN PVD coated tungsten carbide tool. <i>Engineering Research Express</i> , 2021, 3, 045011.	0.8	13
10	Tribological behaviour of Cryogenically Treated WC-9Co Cemented Carbide. <i>Materials Today: Proceedings</i> , 2018, 5, 7797-7807.	0.9	11
11	Investigation on the effect of cryogenic treatment on tungsten carbide milling insert with 11% cobalt (WC-11%Co). <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	11
12	Effect of cutting parameters and high-pressure coolant on forces, surface roughness and tool life in turning AISI 1045 steel. <i>Materials Today: Proceedings</i> , 2021, 43, 482-489.	0.9	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. <i>Lubricants</i> , 2021, 9, 102.	1.2	9
14	Investigation on sustainable machining characteristics of tools with serrated cutting edges in face milling of AISI 304 Stainless Steel. <i>Procedia CIRP</i> , 2022, 105, 865-871.	1.0	8
15	Influence of powder characteristics on properties of parts manufactured by metal additive manufacturing. <i>Lasers in Manufacturing and Materials Processing</i> , 2022, 9, 312-337.	1.2	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. <i>Advanced Materials Research</i> , 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. <i>Materials Research Express</i> , 2019, 6, 106597.	0.8	7
18	Performance evaluation of cryogenically treated and tempered tungsten carbide insert on face milling of grey cast iron. <i>International Journal of Machining and Machinability of Materials</i> , 2017, 19, 180.	0.1	5

#	ARTICLE	IF	CITATIONS
19	Evaluation of mechanical and metallurgical properties of cryo-treated tungsten carbide with 25% cobalt. <i>Materials Today: Proceedings</i> , 2021, 43, 3463-3469.	0.9	4
20	A novel wiper insert design and an experimental investigation to compare its performance in face milling. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 2070-2085.	0.8	3
21	Influence of micro-geometry of wiper facet on the performance of a milling insert: an experimental investigation and validation using numerical simulation. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2022, 47, .	0.8	3
22	AN EXPERIMENTAL STUDY OF APPLYING VARIOUS CUTTING EDGES ON WIPER MILLING INSERTS IN FACE MILLING AISI 1070 STEEL. <i>International Journal of Mechanical and Industrial Engineering</i> , 2013, , 257-262.	0.0	2
23	Performance evaluation of cryogenically treated and tempered tungsten carbide insert on face milling of grey cast iron. <i>International Journal of Machining and Machinability of Materials</i> , 2017, 19, 180.	0.1	2
24	Microstructure and magnetic properties of cryogenically treated cobalt. <i>Materials Today: Proceedings</i> , 2021, 46, 4948-4953.	0.9	0