

# 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	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
2	Influence of Blockchain Technology in Manufacturing Supply Chain and Logistics. <i>Logistics</i> , 2022, 6, 15.	2.4	86
3	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
4	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
5	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
6	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
7	Microstructure and magnetic properties of cryogenically treated cobalt. <i>Materials Today: Proceedings</i> , 2021, 46, 4948-4953.	0.9	0
8	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
9	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
10	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
11	Machinability analysis in high speed turning of TiAl <sub>4</sub> V alloy and investigation of wear mechanism in AlTiN PVD coated tungsten carbide tool. <i>Engineering Research Express</i> , 2021, 3, 045011.	0.8	13
12	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
13	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
14	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
15	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
16	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
17	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
18	Tribological behaviour of Cryogenically Treated WC-9Co Cemented Carbide. <i>Materials Today: Proceedings</i> , 2018, 5, 7797-7807.	0.9	11

#	ARTICLE	IF	CITATIONS
19	Investigation of phase structure of cobalt and its effect in WC-Co cemented carbides before and after deep cryogenic treatment. International Journal of Refractory Metals and Hard Materials, 2018, 74, 87-92.	1.7	32
20	Characterization of cryogenically treated cemented carbide. Integrated Ferroelectrics, 2017, 185, 65-72.	0.3	14
21	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
22	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
23	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
24	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