

# Kamaljit Singh Boparai

## List of Publications by Year in descending order

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29  
papers

789  
citations

567281

15  
h-index

839539

18  
g-index

29  
all docs

29  
docs citations

29  
times ranked

790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of rapid tooling using fused deposition modeling: a review. Rapid Prototyping Journal, 2016, 22, 281-299.	3.2	165
2	Dimensional accuracy analysis of coupled fused deposition modeling and vapour smoothing operations for biomedical applications. Composites Part B: Engineering, 2017, 117, 138-149.	12.0	119
3	Comparison of tribological behaviour for Nylon6-Al <sub>2</sub> O <sub>3</sub> and ABS parts fabricated by fused deposition modelling. Virtual and Physical Prototyping, 2015, 10, 59-66.	10.4	85
4	Development and surface improvement of FDM pattern based investment casting of biomedical implants: A state of art review. Journal of Manufacturing Processes, 2018, 31, 80-95.	5.9	60
5	Experimental investigations for development of Nylon6-Al-Al <sub>2</sub> O <sub>3</sub> alternative FDM filament. Rapid Prototyping Journal, 2016, 22, 217-224.	3.2	44
6	Wear behavior of FDM parts fabricated by composite material feed stock filament. Rapid Prototyping Journal, 2016, 22, 350-357.	3.2	40
7	Parametric optimization of fused deposition modeling and vapour smoothing processes for surface finishing of biomedical implant replicas. Measurement: Journal of the International Measurement Confederation, 2016, 94, 602-613.	5.0	34
8	Modeling and optimization of extrusion process parameters for the development of Nylon6-Al <sub>2</sub> O <sub>3</sub> alternative FDM filament. Progress in Additive Manufacturing, 2016, 1, 115-128.	4.8	34
9	Mathematical modelling of surface roughness for vapour processing of ABS parts fabricated with fused deposition modelling. Journal of Manufacturing Processes, 2016, 24, 161-169.	5.9	32
10	Post-processing of ABS Replicas with Vapour Smoothing for Investment Casting Applications. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2022, 92, 97-102.	1.2	28
11	Thermal and surface characterization of ABS replicas made by FDM for rapid tooling applications. Rapid Prototyping Journal, 2018, 24, 28-36.	3.2	23
12	Process optimization of single screw extruder for development of Nylon 6-Al-Al <sub>2</sub> O <sub>3</sub> alternative FDM filament. Rapid Prototyping Journal, 2016, 22, 766-776.	3.2	21
13	Vapor smoothing process for surface finishing of FDM replicas. Materials Today: Proceedings, 2020, 26, 173-179.	1.8	19
14	Investigations for Enhancing Wear Properties of Rapid Tooling by Reinforcement of Nanoscale Fillers for Grinding Applications. Journal of Micro and Nano-Manufacturing, 2018, 6, .	0.7	18
15	Manufacturing techniques and applications of polymer matrix composites: a brief review. Advances in Materials and Processing Technologies, 2022, 8, 884-894.	1.4	18
16	Experimental Investigations for Statistically Controlled Vacuum Moulding Solutions of Al-SiC MMC. Applied Mechanics and Materials, 0, 330, 91-95.	0.2	10
17	3D printed functional prototypes for electrochemical energy storage. International Journal of Materials Engineering Innovation, 2019, 10, 152.	0.5	7
18	Reinforced non-conventional material composites: a comprehensive review. Advances in Materials and Processing Technologies, 2021, 7, 333-342.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Multi Response Optimization and Process Capability Analysis of Fused Filament Fabrication and Chemical Vapor Smoothing Operations for Rapid Casting of Biomedical Implants. , 2019, , .		6
20	Effect of Process Parameters of Fused Deposition Modeling and Vapour Smoothing on Surface Properties of ABS Replicas for Biomedical Applications. , 2019, , 227-249.		5
21	Influence of slicing parameters on selected mechanical properties of fused deposition modeling prints. Materials Today: Proceedings, 2022, 48, 1378-1382.	1.8	5
22	Development of Rapid Tooling Using Fused Deposition Modeling. , 2019, , 251-277.		4
23	Nanomaterial in additive manufacturing for energy storage applications. , 2021, , 529-543.		3
24	On characterization of rechargeable, flexible electrochemical energy storage device. , 2022, , 67-88.		2
25	On decision making of reinforcement proportion in thermoplastic matrix based upon rheological properties: An overview. Advances in Materials and Processing Technologies, 0, , 1-14.	1.4	1
26	Experimental Investigations for Wear Properties of Rapid Tooling With Nano Scale Fillers for Grinding Applications. , 2017, , .		0
27	Investigations for Wax Coated 3D Printed Hybrid Patterns for Partial Dentures. , 2019, , .		0
28	Applications of Thermosetting Polymers in 3D Printing. , 2020, , .		0
29	Hydrothermal stimulus for 4D capabilities of PA6-Al-Al <sub>2</sub> O <sub>3</sub> composite. , 2022, , 121-145.		0