

# Sunil Pathak

## List of Publications by Year in descending order

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30  
papers

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citations

759190

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839512

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all docs

32  
docs citations

32  
times ranked

281  
citing authors

#	ARTICLE	IF	CITATIONS
1	Titanium Alloy Particles Formation in Electrical Discharge Machining and Fractal Analysis. Jom, 2022, 74, 448-455.	1.9	4
2	Fatigue life enhancement of additive manufactured 316l stainless steel by LSP using a DPSS laser system. Surface Engineering, 2022, 38, 183-190.	2.2	14
3	Facile Manufacture of Oxide-Free Cu Particles Coated with Oleic Acid by Electrical Discharge Machining. Micromachines, 2022, 13, 969.	2.9	1
4	Engineered Nanomaterials for Aviation Industry in COVID-19 Context: A Time-Sensitive Review. Coatings, 2021, 11, 382.	2.6	16
5	A review: use of evolutionary algorithm for optimisation of machining parameters. International Journal of Advanced Manufacturing Technology, 2021, 115, 31-47.	3.0	20
6	In-Process Monitoring of Laser Surface Modification. Coatings, 2021, 11, 886.	2.6	2
7	Application of Multi-objective Genetic Algorithm (MOGA) Optimization in Machining Processes. Springer Series in Advanced Manufacturing, 2020, , 185-199.	0.5	27
8	5 Influence of milling process parameters on the surface quality of GFRP composites. , 2020, , 69-84.		0
9	Cold Spray: Its Prominence as an Additive Manufacturing Technology. Materials Forming, Machining and Tribology, 2020, , 1-17.	1.1	3
10	Surface morphology investigation of miniature gears manufactured by abrasive water jet machining. International Journal of Surface Science and Engineering, 2020, 14, 158.	0.4	0
11	Multiscale surface texture and fractal analysis of straight bevel gears finished by PECH and PECF process. Materials and Manufacturing Processes, 2019, 34, 1882-1887.	4.7	5
12	Investigations on thin SS sheets joining by pulsed micro-plasma transferred arc process. Journal of Micromanufacturing, 2019, 2, 15-24.	1.1	5
13	Experimental investigations on surface finish and microgeometry of helical gear in pulsed-electrochemical honing process. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 3364-3375.	2.1	4
14	Synthesis of Copper Nanoparticles by Pulsed Electrochemical Dissolution Process. Industrial & Engineering Chemistry Research, 2019, 58, 602-608.	3.7	9
15	Performance of pulsed-electrochemical honing and pulsed-electrochemical finishing in improving quality of bevel gears. Manufacturing Review, 2018, 5, 14.	1.5	3
16	Investigations on joining of stainless steel tailored blanks by $\mu$ -PTA process. Materials and Manufacturing Processes, 2018, 33, 1851-1863.	4.7	14
17	Investigations on performance characteristics of GFRP composites in milling. International Journal of Advanced Manufacturing Technology, 2018, 99, 1351-1360.	3.0	14
18	Modeling and experimental validation of volumetric material removal rate and surface roughness depth of straight bevel gears in pulsed-ECH process. International Journal of Mechanical Sciences, 2017, 124-125, 132-144.	6.7	14

#	ARTICLE	IF	CITATIONS
19	Critical review of electrochemical honing (ECH): sustainable and alternative gear finishing process. Part 1: conventional processes and introduction to ECH. Transactions of the Institute of Metal Finishing, 2017, 95, 147-157.	1.3	5
20	Critical review of electrochemical honing: sustainable and alternative gear finishing process. Part 2: effects of various process parameters on surface characteristics and material removal rate. Transactions of the Institute of Metal Finishing, 2017, 95, 241-254.	1.3	2
21	Effect of applied voltage and electrolyte parameters on pitch, runout, flank topology, and finishing productivity of the straight bevel gears in PECH process. Materials and Manufacturing Processes, 2017, 32, 339-347.	4.7	14
22	Development of Sustainable Cold Spray Coatings and 3D Additive Manufacturing Components for Repair/Manufacturing Applications: A Critical Review. Coatings, 2017, 7, 122.	2.6	109
23	3.23 Electrochemical Processing and Surface Finish. , 2017, , 358-380.		0
24	Experimental investigations on redefining the surface quality of bevel gears by pulsed electrochemical honing. Transactions of the Institute of Metal Finishing, 2016, 94, 64-69.	1.3	7
25	Investigations on surface quality, surface integrity and specific energy consumption in finishing of straight bevel gears by PECH process. International Journal of Advanced Manufacturing Technology, 2016, 85, 2207-2222.	3.0	14
26	Effect of honing gear hardness on microgeometry and surface quality improvement of straight bevel gears in PECH process. International Journal of Advanced Manufacturing Technology, 2016, 85, 2197-2205.	3.0	13
27	Investigations on surface quality improvement of straight bevel gears by electrochemical honing process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 1242-1253.	2.4	13
28	Investigations on geometry and productivity of micro-holes in Incoloy 800 by pulsed electrolytic jet drilling. International Journal of Advanced Manufacturing Technology, 2016, 85, 2083-2095.	3.0	6
29	Process Performance Comparison of ECH and PECH for Quality Enhancement of Bevel Gears. Materials and Manufacturing Processes, 2015, 30, 836-841.	4.7	11
30	On Use of Pulsed-Electrochemical Honing to Improve Micro-Geometry of Bevel Gears. Materials and Manufacturing Processes, 2014, 29, 1461-1469.	4.7	19