

# Probir Saha

## List of Publications by Year in descending order

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40  
papers

621  
citations

686830

13  
h-index

610482

24  
g-index

41  
all docs

41  
docs citations

41  
times ranked

437  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft computing models based prediction of cutting speed and surface roughness in wire electro-discharge machining of tungsten carbide cobalt composite. International Journal of Advanced Manufacturing Technology, 2008, 39, 74-84.	1.5	88
2	Surface Integrity of C-40 Steel Processed with WC-Cu Powder Metallurgy Green Compact Tools in EDM. Materials and Manufacturing Processes, 2011, 26, 668-676.	2.7	72
3	An experimental investigation of surface modification of C-40 steel using Wâ€Cu powder metallurgy sintered compact tools in EDM. International Journal of Advanced Manufacturing Technology, 2015, 80, 343-360.	1.5	50
4	Multi-objective optimization in wire-electro-discharge machining of TiC reinforced composite through Neuro-Genetic technique. Applied Soft Computing Journal, 2013, 13, 2065-2074.	4.1	46
5	Mechanical and microstructural characterization of aluminium powder deposit made by friction stir based additive manufacturing. Journal of Materials Processing Technology, 2020, 281, 116648.	3.1	40
6	Computational analysis of perforation effect on the thermo-hydraulic performance of micro pin-fin heat sink. International Journal of Thermal Sciences, 2021, 163, 106857.	2.6	38
7	Development and testing of fixtures for friction stir welding of thin aluminium sheets. Journal of Materials Processing Technology, 2018, 252, 242-248.	3.1	33
8	Precise 1/4EDM-drilling using real-time indirect tool wear compensation. Journal of Materials Processing Technology, 2017, 240, 176-189.	3.1	32
9	Modeling of wire electro-discharge machining of TiC/Fe in situ metal matrix composite using normalized RBFN with enhanced k-means clustering technique. International Journal of Advanced Manufacturing Technology, 2009, 43, 107-116.	1.5	29
10	A New Approach of Tool Wear Monitoring and Compensation in RµEDM Process. Materials and Manufacturing Processes, 2016, 31, 483-494.	2.7	24
11	Evaluation of 1/4EDM-drilling and 1/4EDM-dressing performances based on online monitoring of discharge gap conditions. International Journal of Advanced Manufacturing Technology, 2016, 85, 1995-2012.	1.5	23
12	Challenges, process requisites/inputs, mechanics and weld performance of dissimilar micro-friction stir welding (dissimilar 1/4FSW): A comprehensive review. Journal of Manufacturing Processes, 2021, 68, 249-276.	2.8	23
13	Selection of optimal process parameters and assessment of its effect in micro-friction stir welding of AA6061-T6 sheets. International Journal of Advanced Manufacturing Technology, 2020, 106, 3045-3061.	1.5	21
14	Toward development of a new online tool wear compensation strategy in micro-electro-discharge machining drilling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 588-599.	1.5	10
15	Process responses during 1/4FSW of AA6061-T6 under the influence of triple-spiral micro-grooves on shoulder end-surface. Journal of Materials Processing Technology, 2021, 290, 116984.	3.1	10
16	Vedic Mathematics Based 32-Bit Multiplier Design for High Speed Low Power Processors. International Journal on Smart Sensing and Intelligent Systems, 2011, 4, 268-284.	0.4	9
17	Assessment of vibration-assisted micro-EDM dressing process-stability by monitoring and analyzing debris evacuation during Ti-6Al-7Nb machining. Journal of Manufacturing Processes, 2021, 66, 250-268.	2.8	7
18	Optimization of Process Parameters in Micro Electro- Discharge Drilling [micro EDM-Drilling]: A Taguchi Approach. Advanced Materials Research, 0, 622-623, 30-34.	0.3	6

#	ARTICLE	IF	CITATIONS
19	Tool Wear Compensation in Micro-EDM. <i>Materials Forming, Machining and Tribology</i> , 2019, , 185-208.	0.7	6
20	Mechanical Characterization of Aluminium Alloy 6061 Powder Deposit Made by Friction Stir Based Additive Manufacturing. <i>Key Engineering Materials</i> , 0, 846, 110-116.	0.4	6
21	Investigation on performance characteristics of micro-EDM dressing for the fabrication of micro-rod(s) on Ti-6Al-7Nb biomedical material. <i>Machining Science and Technology</i> , 2021, 25, 398-421.	1.4	6
22	Applicability of a Mechanistic Model for the Prediction of Boiling Heat Transfer for Refrigerants. <i>Heat Transfer Engineering</i> , 2010, 31, 374-382.	1.2	5
23	Weak Coupled Coincidence Point Results Having a Partially Ordering in Fuzzy Metric Spaces. <i>Fuzzy Information and Engineering</i> , 2016, 8, 199-216.	1.0	5
24	Development and Analysis of Butt and Lap Welds in Micro-friction Stir Welding ( $\mu$ FSW). <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2015, , 295-306.	1.4	4
25	Applying Fixed Point Techniques to Stability Problems in Intuitionistic Fuzzy Banach Spaces. <i>Mathematics</i> , 2020, 8, 974.	1.1	4
26	Feasibility of using modified VPP approach in prediction of real time volume estimator ( $V_{SUB}$ ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.2	3
27	A new contractive mapping principle in fuzzy metric spaces. <i>Bolletino Dell Unione Matematica Italiana</i> , 2016, 8, 287-296.	0.6	3
28	Numerical Investigation on Heat Transfer Enhancement with Perforated Square Micro-Pin Fin Heat Sink for Electronic Cooling Application. , 2019, , .		3
29	On Increasing Productivity of Micro-Friction Stir Welding With Aid of Tool Shoulder Micro-Features. , 2019, , .		3
30	Development of an algorithm for online pulse discrimination in micro-EDM using current and voltage sensors and their comparison. , 2015, , .		2
31	Solution of a fuzzy global optimization problem by fixed point methodology using a weak coupled contraction. <i>Soft Computing</i> , 2020, 24, 4121-4129.	2.1	2
32	A global optimality result in probabilistic spaces using control function. <i>Optimization</i> , 2021, 70, 2387-2400.	1.0	2
33	An application of fuzzy logic on importing medicines. <i>International Journal of Healthcare Management</i> , 2021, 14, 456-461.	1.2	2
34	Development of a New Pulse Discriminating System for Micro Electro Discharge Machining ( $\mu$ EDM). <i>Applied Mechanics and Materials</i> , 0, 541-542, 430-435.	0.2	1
35	Investigation and Evaluation of Erosion Efficiency in Micro-EDM Dressing of Biocompatible Ti6Al7Nb Material. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2019, , 309-317.	0.4	1
36	Multi-Objective Optimization of the Perforated Micro Pin-Fin Heat Sink Using Non-Dominated Sorting Genetic Algorithm-II Coupled With Computational Fluid Dynamics Simulation. <i>Journal of Heat Transfer</i> , 2022, 144, .	1.2	1

#	ARTICLE	IF	CITATIONS
37	Shear improved Smagorinsky model pertaining to large eddy simulation applied on lid- driven cavity flows. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2012, 4, 165-171.	0.7	0
38	A Protocol for Deciding on the Location of Production Unit Using Fuzzy Economic Variables. <i>Fuzzy Information and Engineering</i> , 2018, 10, 408-417.	1.0	0
39	End point results of generalized setvalued almost contractions in metric spaces endowed with a graph. <i>Boletin De La Sociedad Matematica Mexicana</i> , 2020, 26, 211-222.	0.2	0
40	Stability Property of Functional Equations in Modular Spaces: A Fixed-Point Approach. <i>Mathematical Notes</i> , 2021, 109, 262-269.	0.1	0