

# Tribeni Roy

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

201  
citations

1307594

7  
h-index

1125743

13  
g-index

25  
all docs

25  
docs citations

25  
times ranked

195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated fuzzy AHP and fuzzy TOPSIS methods for multi-objective optimization of electro discharge machining process. <i>Soft Computing</i> , 2019, 23, 5053-5063.	3.6	45
2	Numerical modelling, simulation and fabrication of 3-D hemi-spherical convex micro features using Reverse Micro EDM. <i>Journal of Manufacturing Processes</i> , 2018, 32, 344-356.	5.9	21
3	Comparative analysis of mechanical properties for mono and poly-crystalline copper under nanoindentation " Insights from molecular dynamics simulations. <i>Materials Chemistry and Physics</i> , 2022, 277, 125559.	4.0	17
4	Mathematical modelling of superhydrophobic surfaces for determining the correlation between water contact angle and geometrical parameters. <i>Precision Engineering</i> , 2020, 61, 55-64.	3.4	16
5	Numerical modelling and simulation of surface roughness of 3-D hemispherical convex micro-feature generated by reverse micro-EDM. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 979-992.	3.0	15
6	Debris based discharge segregation in reverse micro EDM. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 153, 107433.	5.0	13
7	Diamond turned hierarchically textured surface for inducing water repellency: Analytical model and experimental investigations. <i>International Journal of Mechanical Sciences</i> , 2021, 193, 106140.	6.7	13
8	Influence of ion-rich plasma discharge channel on unusually high discharging points in reverse micro electrical discharge machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 4467-4475.	3.0	6
9	Postulation of optimal charging protocols for minimal charge redistribution in supercapacitors based on the modelling of solid phase charge density. <i>Journal of Energy Storage</i> , 2021, 33, 102075.	8.1	6
10	Molecular dynamics simulation of mechanical polishing. <i>International Journal of Precision Technology</i> , 2019, 8, 335.	0.2	6
11	Fundamental insights of mechanical polishing on polycrystalline Cu through molecular dynamics simulations. <i>Materials Today Communications</i> , 2022, 32, 103980.	1.9	6
12	Molecular dynamics study on the effect of discharge on adjacent craters on micro EDMed surface. <i>Precision Engineering</i> , 2018, 52, 469-476.	3.4	5
13	Effect of various factors influencing the generation of hemispherical micro features using non-conformal RMEDM. <i>Journal of Micromanufacturing</i> , 2019, 2, 110-122.	1.1	5
14	Wettability Analysis of Hydrophobic Micro-dimpled HSS Surfaces. <i>Journal of the Institution of Engineers (India): Series D</i> , 0, , 1.	1.0	5
15	Feasibility of Inducing Superhydrophobicity on Laser-Textured Surfaces: Development of Mathematical Model and Experimental Investigations. <i>Journal of Advanced Manufacturing Systems</i> , 2022, 21, 143-178.	1.0	5
16	Molecular dynamics simulation of single discharge and dimensionless correlation with actual material removal in micro electrical discharge machining. <i>Molecular Simulation</i> , 2019, 45, 985-995.	2.0	3
17	Reverse micro EDMed 3D hemispherical protruded micro feature: microstructural and mechanical characterization. <i>Materials Research Express</i> , 2019, 6, 036513.	1.6	3
18	Non-destructive surface characterization of reverse micro-EDM-induced arrayed 1/4-features with varying aspect ratio. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 2609-2622.	3.0	3

#	ARTICLE	IF	CITATIONS
19	Machine Learning Aided Predictions for Capacity Fade of Li-Ion Batteries. Journal of the Electrochemical Society, 2022, 169, 050535.	2.9	3
20	Modeling the Nano Indentation Behavior of Recast Layer and Heat Affected Zone on Reverse Micro EDMed Hemispherical Feature. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	2.2	2
21	Fabrication, characterization and comparative analysis of mechanical properties of micro features generated by reverse micro EDM. Microsystem Technologies, 2020, 26, 625-632.	2.0	1
22	A Numerical Study for Determining the Hardness of Ti6AlV4 Alloy for Biomedical Applications. , 2020, , 349-356.		1
23	Investigation of tool-workpiece interaction in nanoscale cutting: a molecular dynamics study. International Journal of Precision Technology, 2019, 8, 411.	0.2	1
24	Corrigendum to "Postulation of optimal charging protocols for minimal charge redistribution in supercapacitors based on the modelling of solid phase charge density" [J. Energy Storage, January 33 (2021) 102075]. Journal of Energy Storage, 2021, 40, 102717.	8.1	0
25	Recast Layer Thickness Characterization of Array of Micro Features Using X-Ray Micro Computed Tomography. SSRN Electronic Journal, 0, , .	0.4	0