

# Amitava Mandal

## List of Publications by Year in descending order

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42  
papers

1,096  
citations

430874

18  
h-index

434195

31  
g-index

45  
all docs

45  
docs citations

45  
times ranked

817  
citing authors

#	ARTICLE	IF	CITATIONS
1	Feasibility of Jatropha and Rice bran vegetable oils as sustainable EDM dielectrics. Materials and Manufacturing Processes, 2023, 38, 50-63.	4.7	7
2	Wettability and Performance of Cu-MoS <sub>2</sub> /SiC Coating Prepared by Electro-Discharge Coating Process. Transactions of the Indian Institute of Metals, 2022, 75, 1563-1572.	1.5	3
3	Surface integrity analysis in powder mixed EDM of Nimonic 263. Materials Today: Proceedings, 2022, , .	1.8	0
4	Composite coating by TIG cladding with different rare earth oxides. Surface Engineering, 2022, 38, 271-287.	2.2	6
5	Niâ€“WS <sub>2</sub> â€“Tiâ€“6Alâ€“4V self-lubricating coating on TC4 alloy by laser cladding. Surface Engineering, 2022, 38, 313-323.	2.2	6
6	The effect of process parameters and characterization for the laser cladding of cBN based composite clad over the Ti6Al4V alloy. Materials Chemistry and Physics, 2022, 288, 126410.	4.0	23
7	Reduction of pores and wear rate in electrical discharge coating by using hBN nano powder. AIP Conference Proceedings, 2021, , .	0.4	0
8	Influence of Spindle Rotational Speeds on Pure Mg and 0.1GNP-3Al-Mg Alloy-Nanocomposite in Wire Electrical Discharge Turning Process. Lecture Notes in Mechanical Engineering, 2021, , 111-119.	0.4	0
9	An investigation into the effect of wire inclination in Wire-Electrical Discharge Turning process of NiTi-60 shape memory alloy. Journal of Manufacturing Processes, 2021, 64, 739-749.	5.9	10
10	Parametric study and characterization of wire arc additive manufactured steel structures. International Journal of Advanced Manufacturing Technology, 2021, 115, 1723.	3.0	22
11	Formation of superhydrophobic surface with enhanced hardness and wear resistance by electrical discharge coating process. Tribology International, 2021, 157, 106897.	5.9	30
12	Preparation of MoS <sub>2</sub> +Cu coating through the EDC process and its analysis. Surface Engineering, 2020, 36, 86-93.	2.2	31
13	Quantitative analysis of bubble size and electrodes gap at different dielectric conditions in powder mixed EDM process. International Journal of Advanced Manufacturing Technology, 2020, 107, 3065-3075.	3.0	11
14	Wire Electrical Discharge Machining characteristics of Nitinol-60 Shape Memory Alloy. Materials Today: Proceedings, 2020, 22, 2860-2869.	1.8	4
15	Critical analysis of surface integrity parameters and dimensional accuracy in powder-mixed EDM. Materials and Manufacturing Processes, 2020, 35, 430-441.	4.7	55
16	Surface integrity analysis of Nitinol-60 shape memory alloy in WEDM. Materials and Manufacturing Processes, 2019, 34, 1091-1102.	4.7	31
17	Parametric Investigation into Alumina Nanopowder Mixed EDM of Inconel 825 Alloy Using RSM. Lecture Notes in Mechanical Engineering, 2019, , 175-184.	0.4	4
18	Optimization of Electrical Discharge Coating of WS <sub>2</sub> and Cu Powder Mixture Deposited Through Green Compact Electrode. Lecture Notes in Mechanical Engineering, 2019, , 273-283.	0.4	2

#	ARTICLE	IF	CITATIONS
19	Deposition of hBN+Cu layer through electrical discharge process using green compact electrode. Materials and Manufacturing Processes, 2019, 34, 1035-1048.	4.7	29
20	Deposition of WS <sub>2</sub> and Cu nanopowder coating using EDC process and its analysis. Materials Today: Proceedings, 2019, 18, 5170-5176.	1.8	3
21	Comparison in the performance of EDM and NPMEDM using Al <sub>2</sub> O <sub>3</sub> nanopowder as an impurity in DI water dielectric. International Journal of Advanced Manufacturing Technology, 2019, 100, 1327-1339.	3.0	47
22	Evaluation of Mechanical Properties of Ti6Al4V Built by Composite Coating of WS <sub>2</sub> , CNT, Ni, and Ti6Al4V Powders Through Laser Cladding Process. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 647-661.	0.6	1
23	Processing and characterization of laser sintered hybrid B <sub>4</sub> C/cBN reinforced Ti-based metal matrix composite. Optics and Lasers in Engineering, 2018, 105, 159-172.	3.8	30
24	Electrical discharge coating using WS <sub>2</sub> and Cu powder mixture for solid lubrication and enhanced tribological performance. Tribology International, 2018, 120, 80-92.	5.9	82
25	Investigation of powder mixed EDM process parameters for machining Inconel alloy using response surface methodology. Materials Today: Proceedings, 2018, 5, 6183-6188.	1.8	18
26	Performance evaluation of Al <sub>2</sub> O <sub>3</sub> nano powder mixed dielectric for electric discharge machining of Inconel 825. Materials and Manufacturing Processes, 2018, 33, 986-995.	4.7	86
27	Influence of Abrasive Water Jet Turning Parameters on Variation of Diameter of Hybrid Metal Matrix Composite. Lecture Notes in Mechanical Engineering, 2018, , 495-504.	0.4	13
28	Influence of graphene-based nanofluid with minimum quantity lubrication on surface roughness and cutting temperature in turning operation. Materials Today: Proceedings, 2018, 5, 24578-24586.	1.8	23
29	Surface Integrity analysis of Wire-EDM on in-situ hybrid composite A359/Al <sub>2</sub> O <sub>3</sub> /B <sub>4</sub> C. Materials Today: Proceedings, 2018, 5, 24632-24641.	1.8	13
30	Processing of alumina ceramics by abrasive waterjet- an experimental study. Materials Today: Proceedings, 2018, 5, 18061-18069.	1.8	9
31	Parametric study and characterization of AlN-Ni-Ti6Al4V composite cladding on titanium alloy. Surface and Coatings Technology, 2018, 349, 37-49.	4.8	37
32	Effect of multi-walled carbon nanotubes based nanofluid on surface roughness and cutting temperature in turning operation using minimum quantity lubrication. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012017.	0.6	8
33	Parametric investigation on abrasive waterjet machining of alumina ceramic using response surface methodology. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012005.	0.6	12
34	Improvement of surface integrity of Nimonic C 263 super alloy produced by WEDM through various post-processing techniques. International Journal of Advanced Manufacturing Technology, 2017, 93, 433-443.	3.0	51
35	Performance evaluation of alumina-graphene hybrid nano-cutting fluid in hard turning. Journal of Cleaner Production, 2017, 162, 830-845.	9.3	170
36	Experimental investigation of thermal conductivity and specific heat of nanoparticles mixed cutting fluids. Materials Today: Proceedings, 2017, 4, 8587-8596.	1.8	31

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37	Emerging application of nanoparticle-enriched cutting fluid in metal removal processes: a review. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4677-4717.	1.6	45
38	Modeling and Optimization of Machining Nimonic C-263 Superalloy using Multicut Strategy in WEDM. Materials and Manufacturing Processes, 2016, 31, 860-868.	4.7	90
39	State of art in wire electrical discharge machining process and performance. International Journal of Machining and Machinability of Materials, 2014, 16, 1.	0.1	34
40	Artificial Neural Network Modeling for Predicting Surface Roughness in End Milling of Al-SiCp Metal Matrix Composites and Its Evaluation. Journal of Applied Sciences, 2012, 12, 955-962.	0.3	10
41	Hydrophobic properties and chemical state analysis of wear resistant coating prepared by electrical discharge process. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210992.	2.5	4
42	Investigation on electrical discharge coating of brass and copper powder. Transactions of the Indian Institute of Metals, 0, , .	1.5	2