Arkadeb Mukhopadhyay

List of Publications by Year
in descending order

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42 papers	446 citations	758635 12 h-index	794141 19 g-index
42 all docs	42 docs citations	42 times ranked	223 citing authors

#	Article	IF	Citations
1	The use of machine learning and metaheuristic algorithm for wear performance optimization of AISI 1040 steel and investigation of corrosion resistance. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2023, 237, 701-717.	1.0	7
2	Improving corrosion resistance of reinforcement steel rebars exposed to sulphate attack by the use of electroless nickel coatings. European Journal of Environmental and Civil Engineering, 2022, 26, 5180-5195.	1.0	8
3	Parametric investigation of vibration of stiffened structural steel plates using finite element analysis and grey relational analysis. Reports in Mechanical Engineering, 2022, 3, 108-115.	4.9	2
4	Co-deposition of W and Mo in electroless Niâ€“B coating and its effect on the surface morphology, structure, and tribological behavior. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 149-161.	0.7	7
5	High Temperature Tribology of Surface Coatings. Materials Horizons, 2021, , 25-48.	0.3	1
6	Corrosion performance of steel rebars by application of electroless Ni-P-W coating: An optimization approach using grey relational analysis. FME Transactions, 2021, 49, 445-455.	0.7	5
7	Measurement, modelling and optimization of the average temperature at the tool work interface for turning of AISI 1040 steel using ANN-GA methodology. Engineering Research Express, 2021, 3, 035020.	0.8	1
8	Corrosion Protection of Construction Steel. Advances in Chemical and Materials Engineering Book Series, 2020, , 327-347.	0.2	1
9	Corrosion protection of reinforcement steel rebars by the application of electroless nickel coatings. Engineering Research Express, 2019, 1, 015021.	0.8	17
10	Investigation and Optimization of Tribological Behavior of Electroless Niâ€“B Coating at Elevated Temperatures. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 1-18.	0.4	0
11	Modeling and Optimization of Fractal Dimension in Wire Electrical Discharge Machining of EN 31 Steel Using the ANN-GA Approach. Materials, 2019, 12, 454.	1.3	23
12	Behaviour Analysis and Comparison of Tribological Characteristics of Electroless Niâ€“B Coating under Dry and Lubricated Condition. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 35-58.	0.4	1
13	Optimization of Fractal Dimension of Turned AISI 1040 Steel Surface Considering Different Cutting Conditions. International Journal of Surface Engineering and Interdisciplinary Materials Science, 2019, 7, 19-33.	0.2	3
14	TRIBOLOGICAL CHARACTERISTICS OF ELECTROLESS Niâ€“Bâ€“Mo COATINGS AT DIFFERENT OPERATING TEMPERATURES. Surface Review and Letters, 2019, 26, 1850175.	0.5	12
15	Friction and Wear Performance of Electroless Ni-B Coatings at Different Operating Temperatures. Silicon, 2019, 11, 721-731.	1.8	16
16	Tribological Measurement of Electroless Nickel Coatings. Materials Forming, Machining and Tribology, 2019, , 125-151.	0.7	0
17	Corrosion Resistance of Electroless Ni-B-W-Mo Coatings Using Electrochemical Impedance Spectroscopy. Portugaliae Electrochimica Acta, 2019, 37, 193-203.	0.4	5
18	Effect of Heat Treatment on the Characteristics of Electroless Ni-B, Ni-B-W and Ni-B-Mo Coatings. Materials Today: Proceedings, 2018, 5, 3306-3315.	0.9	20

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19	Tribological behavior of electroless Niâ€“Bâ€“W coating at room and elevated temperatures. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2018, 232, 1450-1466.	1.0	18
20	Wear and friction characteristics of electroless Ni-B-W coatings at different operating temperatures. Materials Research Express, 2018, 5, 026526.	0.8	19
21	Effect of Operating Temperature on Tribological Behavior of As-Plated Ni-B Coating Deposited by Electroless Method. Tribology Transactions, 2018, 61, 41-52.	1.1	26
22	Effect of Heat Treatment on Tribological Behavior of Electroless Ni-B-Mo Coatings at Different Operating Temperatures. Silicon, 2018, 10, 1203-1215.	1.8	10
23	EFFECT OF HEAT TREATMENT ON MICROSTRUCTURE AND CORROSION RESISTANCE OF Ni-B-W-Mo COATING DEPOSITED BY ELECTROLESS METHOD. Surface Review and Letters, 2018, 25, 1950023.	0.5	12
24	Comparative Study of Tribological Behavior of Electroless Niâ€“B, Niâ€“Bâ€“Mo, and Niâ€“Bâ€“W Coatings at Room and High Temperatures. Lubricants, 2018, 6, 67.	1.2	20
25	Tribological Performance Optimization of Electroless Nickel Coatings Under Lubricated Condition. Advances in Mechatronics and Mechanical Engineering, 2018, , 250-280.	1.0	4
26	Electroless Nickel Coatings for High Temperature Applications. Advances in Chemical and Materials Engineering Book Series, 2018, , 297-331.	0.2	1
27	Study of wear and friction of chemically deposited Ni-P-W coating under dry and lubricated condition. Surfaces and Interfaces, 2017, 6, 177-189.	1.5	23
28	Tribological behavior of sodium borohydride reduced electroless nickel alloy coatings at room and elevated temperatures. Surface and Coatings Technology, 2017, 321, 464-476.	2.2	47
29	EFFECTS OF HEAT TREATMENT ON TRIBOLOGICAL BEHAVIOR OF ELECTROLESS Niâ€“B COATING AT ELEVATED TEMPERATURES. Surface Review and Letters, 2017, 24, 1850014.	0.5	20
30	Optimization of Friction and Wear Properties of Electroless Niâ€“P Coatings Under Lubrication Using Grey Fuzzy Logic. Journal of the Institution of Engineers (India): Series D, 2017, 98, 255-268.	0.6	13
31	Evaluation of Friction Behavior of Electroless Ni-B Coating and its Optimization under Engine Oil Lubricated Condition. Materials Today: Proceedings, 2017, 4, 9997-10001.	0.9	1
32	Investigation of Tribological Properties under Dry Condition of Chemically Deposited Ni-P-W Coating. Materials Today: Proceedings, 2017, 4, 10010-10014.	0.9	0
33	Tribological Behavior and Corrosion Resistance of Electroless Ni-B-W Coatings. Journal of Molecular and Engineering Materials, 2017, 05, 1750010.	0.9	13
34	Tribology of Electroless Ni-P Coating Under Lubricated Condition. International Journal of Surface Engineering and Interdisciplinary Materials Science, 2017, 5, 37-57.	0.2	5
35	Evaluation of Tribological Properties and Optimization of Electroless Ni-P-W Coating Under Dry Condition Using Grey Fuzzy Analysis. Tribology in Industry, 2017, 39, 50-62.	0.5	3
36	Wear behavior of electroless Ni-P-W coating under lubricated condition - a Taguchi based approach. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012004.	0.3	7

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37	Investigation of Friction and Wear Properties of Electroless Niâ€“Pâ€“Cu Coating Under Dry Condition. Journal of Molecular and Engineering Materials, 2016, 04, 1640013.	0.9	10
38	Tribological Performance Optimization of Electroless Niâ€“B Coating under Lubricated Condition using Hybrid Grey Fuzzy Logic. Journal of the Institution of Engineers (India): Series D, 2016, 97, 215-231.	0.6	31
39	Wear Analysis of Electroless Ni-P Coating Under Lubricated Condition Using Fuzzy Logic. Portugaliae Electrochimica Acta, 2016, 34, 63-82.	0.4	11
40	Investigation of Wear Behavior of Electroless Ni-P-W Coating under Dry and Lubricated Conditions Using RSM and Fuzzy Logic. Portugaliae Electrochimica Acta, 2016, 34, 231-255.	0.4	11
41	Optimization of Multiple Roughness Characteristics for Turning of AISI 1040 Steel under Different Cutting Conditions. International Journal of Engineering and Technologies, 0, 10, 1-10.	0.0	4
42	Optimization of Wear Performance of Electroless Ni-B Coating under Lubrication. International Journal of Engineering and Technologies, 0, 7, 94-103.	0.0	8