

Sougata Roy

List of Publications by Year in descending order

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15
papers

259
citations

1040056

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996975

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16
docs citations

16
times ranked

177
citing authors

#	ARTICLE	IF	CITATIONS
1	Altering the Supply of Shielding Gases to Fabricate Distinct Geometry in GMA Additive Manufacturing. Applied Sciences (Switzerland), 2022, 12, 3679.	2.5	8
2	Investigating the effect of different shielding gas mixtures on microstructure and mechanical properties of 410 stainless steel fabricated via large scale additive manufacturing. Additive Manufacturing, 2021, 38, 101821.	3.0	9
3	Why does a phosphonium-phosphinate ionic liquid protect the contact surfaces from wear and micropitting but increase vibration when used as an additive in rolling-sliding lubrication?. Tribology International, 2021, 159, 106949.	5.9	3
4	Post weld heat treatment and operating temperature effect on tribological behavior of laser cladbed stellite 21 coating. Wear, 2021, 482-483, 203990.	3.1	10
5	Composition-Preserving Extraction and Characterization of Biomass Extrinsic and Intrinsic Inorganic Compounds. ACS Sustainable Chemistry and Engineering, 2020, 8, 1599-1610.	6.7	11
6	Investigating the Linear Thermal Expansion of Additively Manufactured Multi-Material Joining between Invar and Steel. Materials, 2020, 13, 5683.	2.9	10
7	Mitigating Scatter in Mechanical Properties in AISI 410 Fabricated via Arc-Based Additive Manufacturing Process. Materials, 2020, 13, 4855.	2.9	12
8	Material Characterization-Based Wear Mechanism Investigation for Biomass Hammer Mills. ACS Sustainable Chemistry and Engineering, 2020, 8, 3541-3546.	6.7	10
9	Formation of Size and Density Controlled Nanostructures by Galvanic Displacement. Nanomaterials, 2020, 10, 644.	4.1	6
10	Effect of Retained Austenite on White Etching Crack Behavior of Carburized AISI 8620 Steel Under Boundary Lubrication. Tribology Letters, 2019, 67, 1.	2.6	11
11	Effect of retained austenite on spalling behavior of carburized AISI 8620 steel under boundary lubrication. International Journal of Fatigue, 2019, 119, 238-246.	5.7	18
12	Effect of retained austenite on micropitting behavior of carburized AISI 8620 steel under boundary lubrication. Materialia, 2018, 3, 192-201.	2.7	24
13	Investigating the effect of retained austenite and residual stress on rolling contact fatigue of carburized steel with XFEM and experimental approaches. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 732, 311-319.	5.6	45
14	Effect of laser treatment parameters on surface modification and tribological behavior of AISI 8620 steel. Tribology International, 2017, 112, 94-102.	5.9	29
15	The effect of heat treatment routes on the retained austenite and Tribomechanical properties of carburized AISI 8620 steel. Surface and Coatings Technology, 2016, 308, 236-243.	4.8	53