

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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docs citations

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177
citing authors

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