

Sandeep Rathee

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,086
citations

516561

16
h-index

454834

30
g-index

69
all docs

69
docs citations

69
times ranked

532
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A Review of Recent Progress in Solid State Fabrication of Composites and Functionally Graded Systems Via Friction Stir Processing. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018, 43, 334-366. | 6.8 | 118 |
| 2 | Issues and strategies in composite fabrication via friction stir processing: A review. <i>Materials and Manufacturing Processes</i> , 2018, 33, 239-261. | 2.7 | 105 |
| 3 | A Review on Recent Progress in Solid State Friction Based Metal Additive Manufacturing: Friction Stir Additive Techniques. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019, 44, 345-377. | 6.8 | 90 |
| 4 | Effect of tool plunge depth on reinforcement particles distribution in surface composite fabrication via friction stir processing. <i>Defence Technology</i> , 2017, 13, 86-91. | 2.1 | 77 |
| 5 | Optimisation of FDM process parameters by Taguchi method for imparting customised properties to components. <i>Virtual and Physical Prototyping</i> , 2018, 13, 203-210. | 5.3 | 72 |
| 6 | Distribution of reinforcement particles in surface composite fabrication via friction stir processing: Suitable strategy. <i>Materials and Manufacturing Processes</i> , 2018, 33, 262-269. | 2.7 | 53 |
| 7 | Investigating Effects of Groove Dimensions on Microstructure and Mechanical Properties of AA6063/SiC Surface Composites Produced by Friction Stir Processing. <i>Transactions of the Indian Institute of Metals</i> , 2017, 70, 809-816. | 0.7 | 48 |
| 8 | Investigation on the Effects of Silicon Carbide and Cooling Medium during Multi-Pass FSP of Al-Mg/SiC Surface Composites. <i>Silicon</i> , 2019, 11, 2149-2157. | 1.8 | 40 |
| 9 | Additive manufacturing: recent trends, applications and future outlooks. <i>Progress in Additive Manufacturing</i> , 2022, 7, 261-287. | 2.5 | 38 |
| 10 | Metal additive manufacturing using friction stir engineering: A review on microstructural evolution, tooling and design strategies. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 35, 560-588. | 2.3 | 36 |
| 11 | Process parameters optimization for enhanced microhardness of AA 6061/ SiC surface composites fabricated via Friction Stir Processing (FSP). <i>Materials Today: Proceedings</i> , 2016, 3, 4151-4156. | 0.9 | 34 |
| 12 | Investigating the Effects of SiC Particle Sizes on Microstructural and Mechanical Properties of AA5059/SiC Surface Composites During Multi-Pass FSP. <i>Silicon</i> , 2019, 11, 797-805. | 1.8 | 29 |
| 13 | Multi-Response Optimization of Fused Deposition Modelling Process Parameters of ABS Using Response Surface Methodology (RSM)-Based Desirability Analysis. <i>Materials Today: Proceedings</i> , 2017, 4, 1972-1977. | 0.9 | 27 |
| 14 | Multi-objective optimisation of fused deposition modelling process parameters using RSM and fuzzy logic for build time and support material. <i>International Journal of Rapid Manufacturing</i> , 2018, 7, 25. | 0.5 | 26 |
| 15 | Additive Manufacturing. , 0, , . | | 26 |
| 16 | Effect of varying spatial orientations on build time requirements for FDM process: A case study. <i>Defence Technology</i> , 2017, 13, 92-100. | 2.1 | 24 |
| 17 | Analysis of Microstructural Changes in Enhancement of Surface Properties in Sheet Forming of Al alloys via Friction Stir Processing. <i>Materials Today: Proceedings</i> , 2017, 4, 452-458. | 0.9 | 23 |
| 18 | Optimisation of friction stir processing parameters to fabricate AA6063/SiC surface composites using Taguchi technique. <i>International Journal of Materials and Product Technology</i> , 2019, 58, 16. | 0.1 | 18 |

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|----|--|-----|-----------|
| 19 | A Study on the Effect of Incorporation of SiC Particles during Friction Stir Welding of Al 5059 Alloy. Silicon, 2021, 13, 2209-2219. | 1.8 | 16 |
| 20 | Microstructural and microhardness study on fabrication of Al 5059/SiC composite component via a novel route of friction stir additive manufacturing. Materials Today: Proceedings, 2021, 39, 1775-1780. | 0.9 | 16 |
| 21 | Virtual Design, Modelling and Analysis of Functionally graded materials by Fused Deposition Modeling. Materials Today: Proceedings, 2016, 3, 3660-3665. | 0.9 | 14 |
| 22 | Influence of multiple-passes on microstructure and mechanical properties of Al-Mg/SiC surface composites fabricated via underwater friction stir processing. Materials Research Express, 2018, 5, 066511. | 0.8 | 13 |
| 23 | Friction stir welding: An overview on effect of tool variables. Materials Today: Proceedings, 2021, 47, 7196-7202. | 0.9 | 10 |
| 24 | Multi-Objective Optimization of Bead Geometry for Submerged Arc Welding of Pipeline Steel Using RSM-Fuzzy Approach. Journal for Manufacturing Science and Production, 2016, 16, 141-151. | 0.1 | 9 |
| 25 | Estimating percentage contribution of process parameters towards build time of FDM process for components displaying spatial symmetry: a case study. International Journal of Materials and Product Technology, 2019, 58, 201. | 0.1 | 9 |
| 26 | Activated flux TIG welding of dissimilar SS202 and SS304 alloys: Effect of oxide and chloride fluxes on microstructure and mechanical properties of joints. Materials Today: Proceedings, 2021, 47, 7189-7195. | 0.9 | 9 |
| 27 | Influence of activated flux on micro-structural and mechanical properties of AISI 1018 during MIG welding. Materials Today: Proceedings, 2021, 47, 6947-6952. | 0.9 | 8 |
| 28 | An Integrated RSM-GA Based Approach for Multi Response Optimization of FDM Process Parameters for Pyramidal ABS Primitives. Journal for Manufacturing Science and Production, 2016, 16, 201-208. | 0.1 | 7 |
| 29 | Investigation on underwater FSP of Al-Mg-Si alloy surface composites. Materials Research Express, 2019, 6, 026520. | 0.8 | 7 |
| 30 | Design and Processing of Functionally Graded Material: Review and Current Status of Research. , 2019, , 243-255. | | 5 |
| 31 | Influence of activated flux on weld bead hardness of MIG welded austenitic stainless steel. Materials Today: Proceedings, 2021, 47, 6884-6888. | 0.9 | 5 |
| 32 | Integration of Fuzzy Logic with Response Surface Methodology for Predicting the Effect of Process Parameters on Build Time and Model Material Volume in FDM Process. Lecture Notes in Mechanical Engineering, 2016, , 195-206. | 0.3 | 4 |
| 33 | Functionally Graded Materials (FGMs). , 0, , | | 4 |
| 34 | Effect of tool rotational speed on weld quality of friction stir welded AA6061 alloys. Materials Today: Proceedings, 2021, 47, 7203-7207. | 0.9 | 4 |
| 35 | Experimental Investigation of Process Parameters for Build Time Estimation in FDM Process Using RSM Technique. Lecture Notes in Mechanical Engineering, 2016, , 229-241. | 0.3 | 3 |
| 36 | Layout Optimization for FDM Process by Multi-objective Optimization Using RSM and GRA. Materials Forming, Machining and Tribology, 2021, , 505-515. | 0.7 | 3 |

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|----|--|-----|-----------|
| 37 | Optimisation of friction stir processing parameters to fabricate AA6063/SiC surface composites using Taguchi technique. International Journal of Materials and Product Technology, 2019, 58, 16. | 0.1 | 3 |
| 38 | Parametric optimization of friction stir welding of Al-Mg-Si alloy: A case study. Yugoslav Journal of Operations Research, 2021, 31, 265-272. | 0.5 | 2 |
| 39 | Multi-objective optimisation of fused deposition modelling process parameters using RSM and fuzzy logic for build time and support material. International Journal of Rapid Manufacturing, 2018, 7, 25. | 0.5 | 2 |
| 40 | Additive Manufacturing Applications. , 2019, , 235-258. | | 2 |
| 41 | Additive Manufacturing Processes. , 2019, , 25-38. | | 2 |
| 42 | Fabrication of Functionally Graded Materials (FGMs) Via Additive Manufacturing Route. Composites Science and Technology, 2022, , 191-213. | 0.4 | 2 |
| 43 | Impact and Forecasting of Additive Manufacturing. , 2019, , 259-268. | | 1 |
| 44 | Friction Deposition-Based Additive Manufacturing Techniques. , 2018, , 75-96. | | 1 |
| 45 | General Introduction and Need of Friction Based Additive Manufacturing Techniques. , 2018, , 1-9. | | 1 |
| 46 | Friction Stir Welding-Based Additive Manufacturing Techniques. , 2018, , 97-124. | | 0 |
| 47 | Applications and Challenges of Friction Based Additive Manufacturing Technologies. , 2018, , 125-134. | | 0 |
| 48 | Friction Based Joining Techniques. , 2018, , 41-57. | | 0 |
| 49 | Additive Manufacturing Technologies. , 2018, , 11-40. | | 0 |
| 50 | Friction Joining-Based Additive Manufacturing Techniques. , 2018, , 59-74. | | 0 |
| 51 | Estimating percentage contribution of process parameters towards build time of FDM process for components displaying spatial symmetry: a case study. International Journal of Materials and Product Technology, 2019, 58, 201. | 0.1 | 0 |
| 52 | Materials for Additive Manufacturing. , 2019, , 169-186. | | 0 |
| 53 | Evolution of Additive Manufacturing Technologies. , 2019, , 39-50. | | 0 |
| 54 | Additive Manufacturing Design and Strategies. , 2019, , 187-202. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|----|-----------|
| 55 | Additive Manufacturing Processes Utilizing Material Jetting. , 2019, , 117-130. | | 0 |
| 56 | Comparison of Additive Manufacturing with Conventional Manufacturing Processes. , 2019, , 13-24. | | 0 |