Sukhomay Pal

List of Publications by Year
in descending order

20 papers	256 citations	1040056 9 h-index	996975 15 g-index
20 all docs	20 docs citations	20 times ranked	161 citing authors

#	Article	IF	Citations
1	Hybrid fuzzy-grey-Taguchi based multi weld quality optimization of Al/Cu dissimilar friction stir welded joints. Advances in Manufacturing, 2016, 4, 237-247.	6.1	37
2	Weld quality prediction in friction stir welding using wavelet analysis. International Journal of Advanced Manufacturing Technology, 2017, 89, 711-725.	3.0	32
3	Effect of Tool Offset and Rotational Speed in Dissimilar Friction Stir Welding of AISI 304 Stainless Steel and Mild Steel. Journal of Materials Engineering and Performance, 2019, 28, 6365-6379.	2.5	26
4	Experimental studies on controlling of process parameters in dissimilar friction stir welding of DH36 shipbuilding steel–AISI 1008 steel. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 963-986.	2.5	26
5	Optimization of friction stir welding process parameters using soft computing techniques. Soft Computing, 2017, 21, 7083-7098.	3.6	20
6	Optimization of friction stir welding process using NSGA-II and DEMO. Neural Computing and Applications, 2019, 31, 947-956.	5.6	19
7	Analysis of weld characteristics of micro plasma arc welded thin stainless steel 306 L sheet. Journal of Manufacturing Processes, 2020, 57, 957-977.	5.9	17
8	Probing weld quality monitoring in friction stir welding through characterization of signals by fractal theory. Journal of Mechanical Science and Technology, 2017, 31, 2459-2465.	1.5	12
9	Effect of plasma preheating on weld quality and tool life during friction stir welding of DH36 steel. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 1458-1472.	2.4	11
10	A three-dimensional heat transfer modelling and experimental study on friction stir welding of dissimilar steels. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	10
11	Microstructure and Work Hardening Behavior of Micro-plasma Arc Welded AISI 316L Sheet Joint. Journal of Materials Engineering and Performance, 2019, 28, 2588-2599.	2.5	9
12	Thermal Properties of Ni–Cr–Si–B–Fe Based Interlayer Material and Its Application in TLP Bonding of IN 718 Superalloy. Acta Metallurgica Sinica (English Letters), 2020, 33, 1666-1680.	2.9	8
13	Implementation of Soft Computing Techniques in Predicting and Optimizing the Operating Parameters of Compression Ignition Diesel Engines: State-of-the-Art Review, Challenges, and Future Outlook. Journal of Computing and Information Science in Engineering, 2022, 22, .	2.7	8
14	A Finite Element Model for the Prediction of Chip Formation and Surface Morphology in Friction Stir Welding Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, .	2.2	7
15	Synthesis of Ni-Cr-B-Si-Fe-based interlayer alloy for transient liquid phase bonding of Inconel 718 superalloy by mechanical alloying process. International Journal of Advanced Manufacturing Technology, 2020, 111, 2857-2875.	3.0	6
16	Effect of solid solution phase constitution on dissimilar Al/Cu FSW using Zn as an alloying element at the joint interface. SN Applied Sciences, 2019, 1, 1.	2.9	4
17	Monitoring of Friction Stir Welding Process using Main Spindle Motor Current. Journal of the Institution of Engineers (India): Series C, 2018, 99, 711-716.	1.2	3
18	Study on the microstructural variation and fatigue performance of microplasma arc welded thin 316L sheet. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 880-890.	1.1	1

#	Article	IF	Citations
19	Electromagnetic Transient-Thermal Modeling of High-Frequency Induction Welding of Mild Steel Plates. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 407-415.	0.6	0
20	Effect of post welding heat treatment on the weld quality of micro plasma arc welded SS-316L thin sheet. Soldagem E Inspecao, 0, 27, .	0.6	0