Ravi Butola

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5545141/publications.pdf

Version: 2024-02-01

38	550	759055 12	752573 20
papers	citations	h-index	g-index

40	40	40	222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of nanoparticle reinforced surface composites processed by friction stir processing. Journal of Adhesion Science and Technology, 2023, 37, 565-601.	1.4	12
2	Influence of process parameters in synergic MIG welding of 304L stainless steel using response surface methodology. Advances in Materials and Processing Technologies, 2023, 9, 196-205.	0.8	1
3	Advances in applications of Non-Destructive Testing (NDT): A review. Advances in Materials and Processing Technologies, 2022, 8, 2286-2307.	0.8	31
4	Two decades of friction stir processingâ€“a review of advancements in composite fabrication. Journal of Adhesion Science and Technology, 2022, 36, 795-832.	1.4	26
5	Comparison of response surface methodology with artificial neural network for prediction of the tensile properties of friction stir-processed surface composites. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 126-137.	1.4	9
6	Fabrication of FSW Tool Pins Through Turning of H13 Tool Steel: A Comparative Analysis for Residual Stresses. Journal of Advanced Manufacturing Systems, 2022, 21, 351-366.	0.4	4
7	Prediction of heat generation and microstructure of AA7075 friction stir welding using ANN: Effect of process parameters. Manufacturing Letters, 2022, 32, 5-9.	1.1	15
8	Fabrication and Characterization of AA6063/B₄C Metal Matrix Surface Nanocomposite Using Friction Stir Processing. ECS Journal of Solid State Science and Technology, 2022, 11, 033010.	0.9	5
9	A Review on the Fabrication of Surface Composites via Friction Stir Processing and Its Modeling Using ANN. Lecture Notes in Mechanical Engineering, 2021, , 1-11.	0.3	1
10	Comparative Analysis of Response Surface Methodology and Artificial Neural Network on the Wear Properties of Surface Composite Fabricated by Friction Stir Processing. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	1.2	21
11	Mechanical and wear performance of Al/SiC surface composite prepared through friction stir processing. Materials Research Express, 2021, 8, 016520.	0.8	35
12	Measurement of residual stress on H13 tool steel during machining for fabrication of FSW/FSP tool pins. Materials Today: Proceedings, 2021, 43, 256-262.	0.9	7
13	Evaluating the Effect of Process Parameters on FSP of Al5083 Alloy Using ANSYS. Annales De Chimie: Science Des Materiaux, 2021, 45, 113-120.	0.2	2
14	Evaluation of microhardness and wear properties of Al 6063 composite reinforced with yttrium oxide using stir casting process. World Journal of Engineering, 2021, ahead-of-print, .	1.0	9
15	Fabrication and multi-objective optimization of friction stir processed aluminium based surface composites using Taguchi approach. Surface Topography: Metrology and Properties, 2021, 9, 025044.	0.9	7
16	Optimisation of aluminium-based hybrid surface composites produced via friction stir processing using Taguchi technique. International Journal of Sustainable Materials and Structural Systems, 2021, 1, 1.	0.2	0
17	Optimisation of aluminium-based hybrid surface composites produced via friction stir processing using Taguchi technique. International Journal of Sustainable Materials and Structural Systems, 2021, 5, 357.	0.2	2
18	Optimizing the machining variables in CNC turning of aluminum based hybrid metal matrix composites. SN Applied Sciences, 2020, 2, 1.	1.5	25

#	Article	IF	Citations
19	Effect of the impact strength of glass fibre reinforced plastic composite using wet layup process. Materials Today: Proceedings, 2020, 25, 919-924.	0.9	5
20	Formation of Self-Assembled Monolayer and Characterization of AA7075-T6/B4C Nano-ceramic surface composite using Friction Stir Processing. Surface Topography: Metrology and Properties, 2020, 8, 025030.	0.9	23
21	Mechanical and tribological properties of AA7075-T6 metal matrix composite reinforced with ceramic particles and aloevera ash via Friction stir processing. Materials Research Express, 2020, 7, 066526.	0.8	35
22	Experimental analysis of different GSM of glass fibre using dynamic mechanical analysis. Materials Today: Proceedings, 2020, 25, 946-951.	0.9	2
23	An experimental analysis of tensile, hardness and wear properties of aluminium metal matrix composite through stir casting process. SN Applied Sciences, 2020, 2, 1.	1.5	56
24	Mechanical and wear behaviour of Friction stir processed surface composite through Self-Assembled Monolayer Technique. Surface Topography: Metrology and Properties, 2020, 8, 045007.	0.9	15
25	Fabrication and optimization of AA7075 matrix surface composites using Taguchi technique via friction stir processing (FSP). Engineering Research Express, 2019, 1, 025015.	0.8	40
26	CNC Turning and Simulation of Residual Stress Measurement on H13 Tool Steel. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 337-348.	0.4	7
27	A Review on Surface Modification of Aluminium Alloy using Friction Stir Processing. International Journal for Research in Applied Science and Engineering Technology, 2019, 7, 2084-2090.	0.1	3
28	Microstructure And Mechanical Properties Of Synthesized Aluminium Composite Using Stir Casting Process. International Journal of Advanced Production and Industrial Engineering, 2019, 4, .	0.0	0
29	The Mechanical Properties of Different alloys in friction stir processing: A Review. Materials Today: Proceedings, 2018, 5, 5553-5562.	0.9	38
30	Optimization to the parameters of abrasive flow machining by Taguchi method. Materials Today: Proceedings, 2018, 5, 4720-4729.	0.9	21
31	Two start and Three Start Helical Abrasive Flow Machining for Brittle Materials. Materials Today: Proceedings, 2017, 4, 3685-3693.	0.9	4
32	Effecton Surface Properties OF Mild Steel During Dry Turning & Wet Turning On Lathe. Materials Today: Proceedings, 2017, 4, 7892-7902.	0.9	7
33	Metallurgical Investigations of Microstructure and Micro hardness across the various zones in Synergic MIG Welding of Stainless steel. Materials Today: Proceedings, 2017, 4, 8240-8249.	0.9	14
34	Effect on the Mechanical Properties of Aluminum-Based Hybrid Metal Matrix Composite Using Stir Casting Method. Materials Science Forum, 0, 969, 253-259.	0.3	34
35	Study of residual stresses in multi-pass friction stir processed surface composites. Advances in Materials and Processing Technologies, 0, , 1-15.	0.8	6
36	Experimental Studies on Mechanical Properties of Metal Matrix Composites Reinforced with Natural Fibres Ashes. , 0, , .		13

#	Article	IF	Citations
37	Optimisation of FSP process parameters of surface composites using GRA and Taguchi approach. Journal of Engineering Research, 0, , .	0.4	2
38	Comparison of Genetic Algorithm and Taguchi Optimization Techniques for Surface Roughness of Natural Fiber-Reinforced Polymer Composites. SAE International Journal of Materials and Manufacturing, 0, 14, 141-151.	0.3	1