Ravi Butola

List of Publications by Year
in descending order

38 papers	550 citations	759055 12 h-index	752573 20 g-index
40 all docs	40 docs citations	40 times ranked	222 citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	The Mechanical Properties of Different alloys in friction stir processing: A Review. Materials Today: Proceedings, 2018, 5, 5553-5562.	0.9	38
4	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
5	Mechanical and wear performance of Al/SiC surface composite prepared through friction stir processing. Materials Research Express, 2021, 8, 016520.	0.8	35
6	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
7	Advances in applications of Non-Destructive Testing (NDT): A review. Advances in Materials and Processing Technologies, 2022, 8, 2286-2307.	0.8	31
8	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
9	Optimizing the machining variables in CNC turning of aluminum based hybrid metal matrix composites. SN Applied Sciences, 2020, 2, 1.	1.5	25
10	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
11	Optimization to the parameters of abrasive flow machining by Taguchi method. Materials Today: Proceedings, 2018, 5, 4720-4729.	0.9	21
12	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
13	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
14	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
15	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
16	Experimental Studies on Mechanical Properties of Metal Matrix Composites Reinforced with Natural Fibres Ashes. , 0, , .		13
17	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
18	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

#	Article	IF	Citations
19	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
20	Effecton Surface Properties OF Mild Steel During Dry Turning & Wet Turning On Lathe. Materials Today: Proceedings, 2017, 4, 7892-7902.	0.9	7
21	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
22	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
23	CNC Turning and Simulation of Residual Stress Measurement on H13 Tool Steel. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 337-348.	0.4	7
24	Study of residual stresses in multi-pass friction stir processed surface composites. Advances in Materials and Processing Technologies, 0, , 1-15.	0.8	6
25	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
26	Fabrication and Characterization of AA6063/B_4C Metal Matrix Surface Nanocomposite Using Friction Stir Processing. ECS Journal of Solid State Science and Technology, 2022, 11, 033010.	0.9	5
27	Two start and Three Start Helical Abrasive Flow Machining for Brittle Materials. Materials Today: Proceedings, 2017, 4, 3685-3693.	0.9	4
28	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
29	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
30	Experimental analysis of different GSM of glass fibre using dynamic mechanical analysis. Materials Today: Proceedings, 2020, 25, 946-951.	0.9	2
31	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
32	Optimisation of FSP process parameters of surface composites using GRA and Taguchi approach. Journal of Engineering Research, 0, , .	0.4	2
33	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
34	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
35	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
36	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

#	Article	IF	Citations
37	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
38	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