Vinayak Malik

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7115636/publications.pdf

Version: 2024-02-01

29	367	1051969 10	993246 17
papers	citations	h-index	g-index

29	29	29	195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of microstructure, mechanical and wear on Al-CNTs/graphene hybrid MMCâ€™S. Advances in Materials and Processing Technologies, 2022, 8, 366-379.	0.8	18
2	A novel ultrahigh conductive Al-Cu composite produced via microwave sintering and post-treated by friction stir process. Advances in Materials and Processing Technologies, 2022, 8, 575-584.	0.8	7
3	Surface moderation and composite fabrication of die-cast magnesium alloys via friction stir processing: a review. Advances in Materials and Processing Technologies, 2022, 8, 3635-3655.	0.8	1
4	Understanding toolâ€“workpiece interfacial friction in friction stir welding/processing and its effect on weld formation. Advances in Materials and Processing Technologies, 2022, 8, 2156-2172.	0.8	3
5	Adhesive bonding of similar/dissimilar three-dimensional printed parts (ABS/PLA) considering joint design, surface treatments, and adhesive types. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 8991-9002.	1.1	9
6	Energy-efficient method for developing in-situ Al-Cu metal matrix composites using microwave sintering and friction stir processing. Materials Research Express, 2022, 9, 066507.	0.8	7
7	Understanding the effect of tool geometrical aspects on intensity of mixing and void formation in friction stir process. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 744-757.	1.1	13
8	A study of shear friction factor in friction stir welding for developing a finite element model and its importance in the context of formation of defect free and defective weld. Materials Today: Proceedings, 2021, 45, 299-303.	0.9	6
9	An overview on joining/welding as post-processing technique to circumvent the build volume limitation of an FDM-3D printer. Rapid Prototyping Journal, 2021, 27, 808-821.	1.6	25
10	A review on in-situ aluminum metal matrix composites manufactured via friction stir processing: meeting on-ground industrial applications. World Journal of Engineering, 2021, 18, 956-970.	1.0	4
11	Microwave Processing of Engineering Materials. Materials Forming, Machining and Tribology, 2021, , 31-55.	0.7	8
12	A Review on Surface Engineering Perspective of Metallic Implants for Orthopaedic Applications. Jom, 2021, 73, 4349-4364.	0.9	17
13	Corrosion behavior of novel AA1050/ZnO surface composite: A potential material for ship hull. Materials Letters, 2020, 281, 128602.	1.3	8
14	Investigating Mechanical and Corrosion Behavior of Plain and Reinforced AA1050 Sheets Fabricated by Friction Stir Processing. Jom, 2020, 72, 3582-3593.	0.9	13
15	Investigations on friction stir joining of 3D printed parts to overcome bed size limitation and enhance joint quality for unmanned aircraft systems. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 4857-4871.	1.1	14
16	Friction Stir Processing: An Emerging Surface Engineering Technique. Engineering Materials, 2020, , 1-31.	0.3	8
17	Review on modelling of friction stir welding using finite element approach and significance of formulations in simulation. International Journal of Manufacturing Research, 2020, 15, 107.	0.1	15
18	Review on Modeling of Friction Stir Welding Using Finite Element Approach and Significance of Formulations in Simulation. International Journal of Manufacturing Research, 2020, 15, 1.	0.1	0

#	Article	IF	Citations
19	Particulate metal matrix composites and their fabrication via friction stir processing â€“ a review. Materials and Manufacturing Processes, 2019, 34, 833-881.	2.7	74
20	Plasticine modeling of material mixing in friction stir welding. Journal of Materials Processing Technology, 2018, 258, 80-88.	3.1	30
21	Development of polymer nano composite patterns using fused deposition modeling for rapid investment casting process. AIP Conference Proceedings, 2018, , .	0.3	2
22	Investigations on the Effect of Various Tool Pin Profiles in Friction Stir Welding Using Finite Element Simulations. Procedia Engineering, 2014, 97, 1060-1068.	1.2	30
23	Finite Element Simulation of Exit Hole Filling for Friction Stir Spot Welding â€“ A Modified Technique to Apply Practically. Procedia Engineering, 2014, 97, 1265-1273.	1.2	14
24	Time Efficient Simulations of Plunge and Dwell Phase of FSW and its Significance in FSSW. , 2014, 5, 630-639.		17
25	Modeling and Prediction of Grain Size and Hardness of ZE41/ZrO$$_2$$ Nano-surface Composite Using Multiple Regression, Power Law and Artificial Intelligence Techniques. Transactions of the Indian Institute of Metals, 0, , 1.	0.7	1
26	Influence of foaming agents on mechanical and microstructure characterization of AA6061 metal foams. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210975.	1.4	6
27	Synthesis and Characterization of PVDF/Graphene Nanocomposite Membrane for Water Treatment Applications. Key Engineering Materials, 0, 924, 177-187.	0.4	0
28	Design and Fabrication of Injection Molds to Manufacture Double Channel Laryngoscope for Effective Airway Management: Taguchi Method for Surface Roughness Optimization. Key Engineering Materials, 0, 924, 129-140.	0.4	3
29	Design, modeling and parametric optimization of WEDM of Inconel 690 using RSM-GRA approach. International Journal on Interactive Design and Manufacturing, 0, , .	1.3	14