

Ashish Kumar Srivastava

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

824
citations

643344

15
h-index

651938

25
g-index

60
all docs

60
docs citations

60
times ranked

456
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of SD effect on Johnsonâ€™Cook hardening constitutive material model: Numerical and experimental investigation for armor steel. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 285-302.	1.5	9
2	Statistical Optimization of Process Parameters During the Friction Stir Processing of Al7075/Al2O3/waste Eggshell Surface Composite. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 107-118.	0.3	4
3	State of Art on Microstructural and Mechanical Characterization of Wire and Arc Additive Manufacturing (WAAM). <i>Smart Innovation, Systems and Technologies</i> , 2022, , 93-104.	0.5	1
4	Modeling and parametric optimization of laser powder bed fusion 3D printing technique using artificial neural network for enhancing dimensional accuracy. <i>Materials Today: Proceedings</i> , 2022, 56, 873-878.	0.9	6
5	Wire Arc Additive Manufacturing â€™ A revolutionary method in additive manufacturing. <i>Materials Chemistry and Physics</i> , 2022, 285, 126144.	2.0	37
6	Investigation on the friction stir assisted lap joining of pure copper and aluminium 6063 alloy. <i>Materials Today: Proceedings</i> , 2022, 62, 398-403.	0.9	7
7	Friction stir additive manufacturing â€™ An innovative tool to enhance mechanical and microstructural properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 263, 114832.	1.7	80
8	Microstructural and fractographic analysis of A359/Si ₃ N ₄ surface composite produced by friction stir processing. <i>International Journal of Materials Research</i> , 2021, 112, 68-77.	0.1	15
9	Influence of SAC and eggshell addition in the physical, mechanical and thermal behaviour of Cr reinforced aluminium based composite. <i>International Journal of Cast Metals Research</i> , 2021, 34, 43-55.	0.5	34
10	Microstructural and Mechanical Properties of AZ31B/Graphene Nanocomposite Produced by Stir Casting. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2021, 31, 51-56.	0.2	0
11	Statistical Optimization by Response Surface Methodology of Process Parameters During the CNC Turning Operation of Hybrid Metal Matrix Composite. <i>Evergreen</i> , 2021, 8, 51-62.	0.3	2
12	Effects of cutting parameters on aluminium alloys-A review. <i>Materials Today: Proceedings</i> , 2021, 47, 3823-3827.	0.9	5
13	Investigation on mechanical properties and deformation behavior of copper-based three-phase metal matrix composite: Experimental and micro-macro-mechanical finite element analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 1850-1867.	0.7	4
14	Investigation of effect of process variable on dimensional accuracy of FDM component using response surface methodology. <i>World Journal of Engineering</i> , 2021, 18, 710-719.	1.0	1
15	Parametric optimization of process parameters during the friction stir processing of Al7075/SiC/waste eggshell surface composite. <i>Materials Today: Proceedings</i> , 2021, 47, 3884-3884.	0.9	11
16	Design and optimization of the shape of electrostatic precipitator system. <i>Materials Today: Proceedings</i> , 2021, 47, 3871-3876.	0.9	4
17	Numerical study of tensile strength and hardness of the AA1100/graphene MMC produced by stir casting. <i>Materials Today: Proceedings</i> , 2021, 47, 3993-3997.	0.9	2
18	Microstructural and tensile behaviour of hybrid MMC Al7075/ SiC/B4C produced by mechanical stir casting. <i>Materials Today: Proceedings</i> , 2021, 47, 4107-4113.	0.9	3

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19	20th Century Uninterrupted Growth in Friction Stir Processing of Lightweight Composites and Alloys. <i>Materials Chemistry and Physics</i> , 2021, 266, 124572.	2.0	29
20	A review on elicited potentials in the brain to recognize Brain-Machine interface. <i>Journal of Physics: Conference Series</i> , 2021, 2007, 012048.	0.3	1
21	Study of microstructural and mechanical properties of the component produced by friction stir additive manufacturing (FSAM)-A review. <i>Materials Today: Proceedings</i> , 2021, 47, 4142-4147.	0.9	4
22	Investigation on the thermal behaviour of AZ31B/waste eggshell surface composites produced by friction stir processing. <i>Composites Communications</i> , 2021, 28, 100912.	3.3	14
23	Experimental investigations of A359/Si3N4 surface composite produced by multi-pass friction stir processing. <i>Materials Chemistry and Physics</i> , 2021, 257, 123717.	2.0	41
24	Optimization of casting parameters for improved mechanical properties of eggshell reinforced composites. <i>Materialprüfung/Materials Testing</i> , 2021, 63, 1041-1051.	0.8	6
25	Effect of friction stir processing on microstructural and mechanical properties of lightweight composites and cast metal alloys – A review. <i>International Journal of Cast Metals Research</i> , 2021, 34, 169-195.	0.5	9
26	Investigation of mechanical properties of Al 6061/SiC composite prepared through stir casting technique. <i>Materials Today: Proceedings</i> , 2020, 25, 755-758.	0.9	36
27	Microstructure and mechanical behaviour of Al/SiC/Al2O3 hybrid metal matrix composite. <i>Materials Today: Proceedings</i> , 2020, 25, 789-792.	0.9	8
28	Machining and thermal behaviour of thermal power plant waste reinforced composite material. <i>Materials Today: Proceedings</i> , 2020, 25, 674-678.	0.9	2
29	Experimental study on hardness and fatigue behavior in joining of AA5083 and AA6063 by friction stir welding. <i>Materials Today: Proceedings</i> , 2020, 25, 646-648.	0.9	15
30	Experimental observations of elements of surface integrity during conventional turning of commercial pure titanium. <i>Materials Today: Proceedings</i> , 2020, 25, 626-629.	0.9	2
31	Assessment of mechanical properties and EDM machinability on Al6063/SiC MMC produced by stir casting. <i>Materials Today: Proceedings</i> , 2020, 25, 630-634.	0.9	6
32	Development of duralumin alloy and its microstructural characterization by using grain refiner. <i>Materials Today: Proceedings</i> , 2020, 25, 877-880.	0.9	1
33	Utilization of Chrome Containing Leather Waste in Development of Aluminium Based Green Composite Material. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 781-790.	2.7	26
34	Effect of Graphene nanoparticles on microstructural and mechanical properties of aluminum based nanocomposites fabricated by stir casting. <i>World Journal of Engineering</i> , 2020, 17, 859-866.	1.0	22
35	Modeling and optimization of fused deposition modeling (FDM) process through printing PLA implants using adaptive neuro-fuzzy inference system (ANFIS) model and whale optimization algorithm. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	29
36	Experimental and computational investigation on dynamic fracture toughness (J) behavior of multi-pass SMA armor steel weldments. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 106, 102502.	2.1	21

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37	Experimental and Numerical Investigation of Quasi-Static (10^{-3}) Fracture Behavior of Armor Steel. Arabian Journal for Science and Engineering, 2020, 45, 5623-5629.	1.7	8
38	Fabrication of AA7075 Hybrid Green Metal Matrix Composites by Friction Stir Processing Technique. Annales De Chimie: Science Des Materiaux, 2020, 44, 295-300.	0.2	15
39	Effect of Multiple Passes on Microstructural and Mechanical Properties of Surface Composite Al 2024/SiC Produced by Friction Stir Processing. Annales De Chimie: Science Des Materiaux, 2020, 44, 421-426.	0.2	11
40	Measurement of Form Errors and Comparative Cost Analysis for the Component Developed by Metal Printing (DMLS) and Stir Casting. Instrumentation Mesure Metrologie, 2020, 19, 363-369.	0.2	4
41	3D Visualization and Topographical Analysis in Turning of Hybrid MMC By CNC Lathe SPRINT 16TC Made of BATLIBOI. Evergreen, 2020, 7, 202-208.	0.3	3
42	Surface integrity in wire-EDM tangential turning of <i>in situ</i> hybrid metal matrix composite A359/B ₄ /C/Al ₂ O ₃ . Science and Engineering of Composite Materials, 2019, 26, 122-133.	0.6	13
43	Metal matrix composites- a review on synthesis and characterization. IOP Conference Series: Materials Science and Engineering, 2019, 691, 012077.	0.3	8
44	Parametric Study During Abrasive Water Jet Turning of Hybrid Metal Matrix Composite. Lecture Notes in Mechanical Engineering, 2019, , 72-84.	0.3	7
45	Hardness measurement of surfaces on hybrid metal matrix composite created by turning using an abrasive water jet and WED. Measurement: Journal of the International Measurement Confederation, 2019, 131, 628-639.	2.5	24
46	Microstructure and Mechanical Properties of Al 6061/Al ₂ O ₃ /Fly-Ash Composite Fabricated Through Stir Casting. Annales De Chimie: Science Des Materiaux, 2019, 43, 341-346.	0.2	18
47	A review on the intensification of metal matrix composites and its nonconventional machining. Science and Engineering of Composite Materials, 2018, 25, 213-228.	0.6	45
48	Hybrid aluminium matrix composite AWJ turning using olivine and Barton garnet. International Journal of Advanced Manufacturing Technology, 2018, 94, 2293-2300.	1.5	39
49	Influence of Abrasive Water Jet Turning Parameters on Variation of Diameter of Hybrid Metal Matrix Composite. Lecture Notes in Mechanical Engineering, 2018, , 495-504.	0.3	13
50	Effect of Water Pressure During Abrasive Waterjet Machining of Mg-Based Nanocomposite. Lecture Notes in Mechanical Engineering, 2018, , 605-612.	0.3	11
51	Surface Integrity analysis of Wire-EDM on in-situ hybrid composite A359/Al ₂ O ₃ /B ₄ C. Materials Today: Proceedings, 2018, 5, 24632-24641.	0.9	13
52	Processing of alumina ceramics by abrasive waterjet- an experimental study. Materials Today: Proceedings, 2018, 5, 18061-18069.	0.9	9
53	Parametric investigation on abrasive waterjet machining of alumina ceramic using response surface methodology. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012005.	0.3	12
54	A Description of Surfaces Created on the Hybrid MMC by the AWJ Cutting Technology. International Journal of Mechanical and Production Engineering Research and Development, 2018, 8, 715-720.	0.1	1

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55	Statistical Optimization of Wire-EDM During Processing of Hybrid MMC. International Journal of Mechanical and Production Engineering Research and Development, 2018, 8, 783-792.	0.1	7
56	Surface integrity in tangential turning of hybrid MMC A359/B4C/Al2O3 by abrasive waterjet. Journal of Manufacturing Processes, 2017, 28, 11-20.	2.8	43
57	An energy efficient framework for detection and monitoring of forest fire using mobile agent in wireless sensor networks. , 2014, , .		17
58	A computational investigation on the influence of the l/d ratio and strain rate on the deformation behavior of rolled and homogeneous armor steel in the split Hopkinson pressure bar test process. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892110365.	1.4	2