

# Shashi Dwivedi

## List of Publications by Year in descending order

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63  
papers

1,200  
citations

331670

21  
h-index

454955

30  
g-index

72  
all docs

72  
docs citations

72  
times ranked

628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on mechanical, tribological and microstructural properties of Al-Mg-Si-T6/SiC/muscovite-hybrid metal-matrix composites for high strength applications. Journal of Materials Research and Technology, 2021, 12, 1564-1581.	5.8	84
2	Development of high entropy alloys: A review. Materials Today: Proceedings, 2021, 43, 502-509.	1.8	46
3	Experimental investigations of A359/Si3N4 surface composite produced by multi-pass friction stir processing. Materials Chemistry and Physics, 2021, 257, 123717.	4.0	41
4	Characterization of waste eggshells and CaCO3 reinforced AA2014 green metal matrix composites: A green approach in the synthesis of composites. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1383-1393.	2.2	40
5	Investigation of mechanical properties of Al 6061/SiC composite prepared through stir casting technique. Materials Today: Proceedings, 2020, 25, 755-758.	1.8	36
6	Utilization of waste spent alumina catalyst and agro-waste rice husk ash as reinforcement materials with scrap aluminium alloy wheel matrix. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2020, 234, 543-552.	2.5	36
7	Influence of SAC and eggshell addition in the physical, mechanical and thermal behaviour of Cr reinforced aluminium based composite. International Journal of Cast Metals Research, 2021, 34, 43-55.	1.0	34
8	Effect of ball-milling process parameters on mechanical properties of Al/Al2O3/collagen powder composite using statistical approach. Journal of Materials Research and Technology, 2021, 15, 2918-2932.	5.8	34
9	A356 Aluminum Alloy and applications- A Review. International Journal of Advanced Materials Manufacturing and Characterization, 2014, 4, 81-86.	0.2	34
10	Effect of ball-milled MgO and Si3N4 addition on the physical, mechanical and thermal behaviour of aluminium based composite developed by hybrid casting technique. International Journal of Cast Metals Research, 2020, 33, 35-49.	1.0	30
11	20th Century Uninterrupted Growth in Friction Stir Processing of Lightweight Composites and Alloys. Materials Chemistry and Physics, 2021, 266, 124572.	4.0	29
12	A comparative study of waste eggshells, CaCO3, and SiC-reinforced AA2014 green metal matrix composites. Journal of Composite Materials, 2017, 51, 2407-2421.	2.4	27
13	Extraction of collagen powder from chrome containing leather waste and its composites with alumina employing different casting techniques. Materials Chemistry and Physics, 2020, 253, 123274.	4.0	27
14	Mechanical and metallurgical characterizations of AA2014/eggshells waste particulate metal matrix composite. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 281-288.	4.9	26
15	Utilization of Chrome Containing Leather Waste in Development of Aluminium Based Green Composite Material. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 781-790.	4.9	26
16	Development of bio-composite material by utilizing chrome containing leather waste with Al2O3 ceramic particles. Materials Research Express, 2019, 6, 105105.	1.6	25
17	Effect of process parameters on tensile strength of friction stir welding A356/C355 aluminium alloys joint. Journal of Mechanical Science and Technology, 2014, 28, 285-291.	1.5	23
18	Effect of Friction Stir Process Parameters on Mechanical Properties of Chrome Containing Leather Waste Reinforced Aluminium Based Composite. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 935-943.	4.9	22

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19	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.	4.7	21
20	Physico-Chemical, Mechanical and Thermal Behaviour of Agro-waste RHA-Reinforced Green Emerging Composite Material. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 8129-8142.	3.0	20
21	Microstructure and Mechanical Behaviour of Al/SiC/Agro-Waste RHA Hybrid Metal Matrix Composite. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2020, 30, 43-47.	0.6	20
22	Optimization of FDM Printing Process Parameters on Surface Finish, Thickness, and Outer Dimension with ABS Polymer Specimens Using Taguchi Orthogonal Array and Genetic Algorithms. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-13.	1.1	19
23	Synthesis and mechanical behaviour of green metal matrix composites using waste eggshells as reinforcement material. <i>Green Processing and Synthesis</i> , 2016, 5, 275-282.	3.4	18
24	Recovery of Cr from chrome-containing leather waste and its utilization as reinforcement along with waste spent alumina catalyst and grinding sludge in AA 5052-based metal matrix composites. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 160-170.	2.5	18
25	Influence of Nano-CuO on Synthesis and Mechanical Behavior of Spent Alumina Catalyst and Grinding Sludge Reinforced Aluminum Based Composite. <i>International Journal of Metalcasting</i> , 0, , 1.	1.9	16
26	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.	1.8	15
27	Utilization of aluminium dross for the development of valuable product – A review. <i>Materials Today: Proceedings</i> , 2021, 43, 547-550.	1.8	13
28	Effect of Uncarbonized Eggshell Weight Percentage on Mechanical Properties of Composite Material Developed by Electromagnetic Stir Casting Technique. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2019, 29, 101-107.	0.6	13
29	Alumina catalyst waste utilization for aluminum-based composites using the friction stir process. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 533-540.	2.2	13
30	Synthesis and characterization of spent alumina catalyst and grinding sludge reinforced aluminium-based composite material. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 5523-5534.	2.1	13
31	Influence of precipitation hardening parameters on the microstructure and mechanical properties of extruded AA2014/eggshells green composites. <i>Journal of Composite Materials</i> , 2017, 51, 4261-4271.	2.4	10
32	Study of CCLW, Alumina and the Mixture of Alumina- and CCLW-Reinforced Aluminum-Based Composite Material with and Without Mechanical Alloying. <i>Journal of the Institution of Engineers (India): Series D</i> , 2022, 103, 319-331.	1.0	10
33	Influence of SD effect on Johnson-Cook hardening constitutive material model: Numerical and experimental investigation for armor steel. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 285-302.	2.6	9
34	Effects of waste eggshells and SiC addition in the synthesis of aluminum hybrid green metal matrix composite. <i>Green Processing and Synthesis</i> , 2017, 6, 113-123.	3.4	8
35	Microstructure and mechanical behaviour of Al/SiC/Al <sub>2</sub> O <sub>3</sub> hybrid metal matrix composite. <i>Materials Today: Proceedings</i> , 2020, 25, 789-792.	1.8	8
36	Experimental and Numerical Investigation of Quasi-Static ( $10^{-3}$ s <sup>-1</sup> ) Fracture Behavior of Armor Steel. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 5623-5629.	3.0	8

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37	Effect of friction stir process parameters on tensile strength of eggshell and SiC-reinforced aluminium-based composite. <i>World Journal of Engineering</i> , 2021, 18, 157-166.	1.6	8
38	Eggshell and rice husk ash utilization as reinforcement in development of composite material: A review. <i>Materials Today: Proceedings</i> , 2021, 43, 426-433.	1.8	8
39	Effect of Magnesium Addition on Mechanical Properties of Al-Fly Ash Green Composite Produced Under Green Ultrasonic Vibration Process. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 559-566.	4.9	7
40	Extraction of collagen from leather waste to develop aluminium based metal matrix composite. <i>Materials Today: Proceedings</i> , 2020, 25, 581-585.	1.8	7
41	Microstructure and mechanical testing of Al/graphite/Fly-ash metal matrix composite material. <i>World Journal of Engineering</i> , 2023, 20, 306-313.	1.6	7
42	Utilization of RHA in development of green composite material using RSM. <i>Journal of the Mechanical Behavior of Materials</i> , 2019, 28, 20-28.	1.8	6
43	Grain size, coefficient of thermal expansion and corrosion behavior of eggshell and rice husk ash reinforced composite material. <i>World Journal of Engineering</i> , 2022, ahead-of-print, .	1.6	6
44	Tribological behavior of a newly developed AA2014/waste eggshell/SiC hybrid green metal matrix composite at optimum parameters. <i>Green Processing and Synthesis</i> , 2018, 7, 48-60.	3.4	5
45	Microstructural and mechanical behavior of aluminium alloy reinforced with TiC. <i>Materials Today: Proceedings</i> , 2020, 25, 934-937.	1.8	5
46	Tribo-mechanical behaviour of aluminium-based metal matrix composite: A review. <i>Materials Today: Proceedings</i> , 2021, 47, 3828-3832.	1.8	4
47	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.	1.1	4
48	Comparison of Microstructure and Mechanical Properties of A356/SiC Metal Matrix Composites Produced by Two Different Melting Routes. <i>International Journal of Manufacturing Engineering</i> , 2014, 2014, 1-13.	0.8	3
49	Development of copper based composite by stir casting technique. <i>Materials Today: Proceedings</i> , 2020, 25, 649-653.	1.8	3
50	Waste material produced from industry and its utilization in development of green composite material: A review. <i>Materials Today: Proceedings</i> , 2021, 43, 490-496.	1.8	3
51	Machining and thermal behaviour of thermal power plant waste reinforced composite material. <i>Materials Today: Proceedings</i> , 2020, 25, 674-678.	1.8	2
52	Experimental observations of elements of surface integrity during conventional turning of commercial pure titanium. <i>Materials Today: Proceedings</i> , 2020, 25, 626-629.	1.8	2
53	Utilization of waste spent alumina catalyst for the development of valuable product “A review. <i>Materials Today: Proceedings</i> , 2021, , .	1.8	2
54	Extraction of Cr from CCLW and its utilisation in the development of composite by friction stir process. <i>Australian Journal of Mechanical Engineering</i> , 2023, 21, 1103-1114.	2.1	2

#	ARTICLE	IF	CITATIONS
55	Extraction of Cr from chrome containing leather waste to develop composite at optimum casting parameters using response surface methodology. World Journal of Engineering, 2021, ahead-of-print, .	1.6	2
56	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.	2.5	2
57	Optimization of Laser Transmission Joining Process Parameters on Joint Strength of PET and 316%L Stainless Steel Joint Using Response Surface Methodology. Journal of Engineering (United States), 2014, 2014, 1-9.	1.0	1
58	Experimental Investigation of Wear and Frictional Properties of A356/SiC Metal Matrix Composite. , 2017, , .		1
59	Development of duralumin alloy and its microstructural characterization by using grain refiner. Materials Today: Proceedings, 2020, 25, 877-880.	1.8	1
60	Optimization of laser transmission joining process parameters on joint width of PET and 316%L stainless steel joint using RSM. Journal of Optics (India), 2016, 45, 106-113.	1.7	0
61	Friction and Adhesive Wear Study of HVOF Sprayed Ni-WC-Co-Based Powder Coating. Powder Metallurgy and Metal Ceramics, 2018, 57, 329-335.	0.8	0
62	A critical review on different casting technique to develop the composite material and its tribo-mechanical behaviour. Materials Today: Proceedings, 2021, , .	1.8	0
63	Utilization of Organic Waste and Inorganic Waste in Development of Green Hybrid Composite Material. Materials Performance and Characterization, 2019, 8, 20190023.	0.3	0