Sonagiri Suresh

List of Publications by Year
in descending order

60 papers	1,568 citations	361413 20 h-index	330143 37 g-index
60 all docs	60 docs citations	60 times ranked	1159 citing authors

#	Article	IF	Citations
1	Effect of B4C on strength coefficient, cold deformation and work hardening exponent characteristics of Mg composites. Journal of Magnesium and Alloys, 2022, 10, 1381-1400.	11.9	21
2	Performance Analysis of Nano Silicon Carbide Reinforced Swept Friction Stir Spot Weld Joint in AA6061-T6 Alloy. Silicon, 2021, 13, 3399-3412.	3.3	26
3	Synthesis, spectral, thermal studies and dielectric behavior of functionalized TiO2-loaded diglycidyl epoxy nanocomposite film. Polymer Bulletin, 2021, 78, 5255-5274.	3.3	5
4	A Novel Image Processing Technique for Analyzing Wear Worn Surface Roughness and Corrosion Behavior of Sintered Mg/B4C Composites. Transactions of the Indian Institute of Metals, 2021, 74, 51-68.	1.5	3
5	Investigations on Al 7075 /nano-SiC/ B4C hybrid reinforcements using liquid casting method. Materials Today: Proceedings, 2021, 46, 8540-8547.	1.8	6
6	Influence of tool rotational speed on the properties of friction stir spot welded AA7075-T6/Al2O3 composite joint. Materials Today: Proceedings, 2020, 27, 62-67.	1.8	20
7	Experimental Study on Abrasive Flow Machining (AFM): New Approach for Investigation on Nano-SiC in the Improvement of Material Removal and Surface Finishing. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	2.6	13
8	Sustainable friction stir spot welding of 6061-T6 aluminium alloy using improved non-dominated sorting teaching learning algorithm. Journal of Materials Research and Technology, 2020, 9, 11650-11674.	5.8	41
9	Investigation on Tribological and Machining Characteristics of Al 7075/MWCNTs Nanocomposites. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	2.6	4
10	A Novel Detection of Defects in Al–SiC Composite by Active Pulsed Infrared Thermography Using Data and Image Processing. Transactions of the Indian Institute of Metals, 2020, 73, 2767-2783.	1.5	2
11	Investigation on mechanical, wear, and machining characteristics of Al 7075/MWCNTs using the liquid state method. Advanced Composites and Hybrid Materials, 2020, 3, 243-254.	21.1	17
12	Wear behavior of Al 7075/Al2O3/SiC Hybrid NMMC's by Stir Casting Method. Materials Today: Proceedings, 2020, 24, 261-272.	1.8	11
13	Mechanical and wear Characteristics of Aluminium Alloy 7075 Reinforced with Nano-Aluminium Oxide/ Magnesium Particles by Stir casting Method. Materials Today: Proceedings, 2020, 24, 273-283.	1.8	12
14	Investigation on Industrial Waste Eco-Friendly Natural Fiber-Reinforced Polymer Composites. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	2.6	25
15	Effects on Micro-Surface Texturing of Mg/B4C Matrix Composites Under Dry Sliding Wear Condition. Transactions of the Indian Institute of Metals, 2020, 73, 897-912.	1.5	4
16	Characterization, corrosion and failure strength analysis of Al7075 influenced with B_4C and Nano-Al_2O_3 composite using online acoustic emission. Materials Research Express, 2020, 7, 016524.	1.6	11
17	Investigation of biodegradable hybrid composites: effect of fibers on tribo-mechanical characteristics. Advanced Composites and Hybrid Materials, 2020, 3, 194-204.	21.1	18
18	Analysis of failure mode and fracture behavior by using acoustic emission parameter and artificial neural network. Engineering Research Express, 2019, 1, 015013.	1.6	3

#	Article	IF	Citations
19	Optimization of process parameters for friction stir spot welding of AA6061/Al2O3 by Taguchi method. AIP Conference Proceedings, 2019, , .	0.4	11
20	Investigations on Machining and Wear Characteristics of Al 7075/Nano-SiC Composites with WEDM. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	4
21	Investigation of Mechanical and Tribological Properties of Red Mud-Reinforced Particulate Polymer Composite. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	14
22	Investigations on Wire Electric Discharge Machining and Mechanical Behavior of Al 7075/Nano-SiC Composites. Journal of the Institution of Engineers (India): Series D, 2019, 100, 217-227.	1.0	11
23	Experimental investigation on mechanical properties of Al 7075/Al2O3/Mg NMMC’s by stir casting method. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	22
24	Mechanical and wear behavior of Al 7075/Al2O3/SiC/mg metal matrix nanocomposite by liquid state process. Advanced Composites and Hybrid Materials, 2019, 2, 530-539.	21.1	39
25	Mechanical Properties of AA 7075/Al2O3/SiC Nano-metal Matrix Composites by Stir-Casting Method. Journal of the Institution of Engineers (India): Series D, 2019, 100, 43-53.	1.0	32
26	Mechanical and Wear Characterization of Al/Nano-SiC NMMCs by Liquid State Process. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	14
27	Characterization, wear surface roughness and tensile failure analysis of Al7075-TiC-MoS2 hybrid composites using online acoustic emission. Materials Research Express, 2019, 6, 066544.	1.6	13
28	Mechanical and wear surface characterisation of aluminium hybrid nanocomposite. International Journal of Computational Materials Science and Surface Engineering, 2019, 8, 195.	0.2	1
29	Investigation of bio-waste natural fiber–reinforced polymer hybrid composite: effect on mechanical and tribological characteristics of biodegradable composites. Mechanics of Soft Materials, 2019, 1, 1.	0.9	13
30	Processing and characterization of mechanical and wear behavior of Al7075 reinforced with B_4C and nano graphene hybrid composite. Materials Research Express, 2019, 6, 1265c5.	1.6	57
31	Failure analysis using online acoustic emission and tribological behavior of Al6061-Al2O3 nano composite. Materials Research Express, 2019, 6, 125096.	1.6	0
32	Detection of crack development with Al/SiCp using tensile with online acoustic emission. Journal of Alloys and Compounds, 2019, 778, 951-961.	5.5	9
33	Tribological Behavior of Al 7075/SiC Metal Matrix Nano-composite by Stir Casting Method. Journal of the Institution of Engineers (India): Series D, 2019, 100, 97-103.	1.0	21
34	Evaluating weld properties of conventional and swept friction stir spot welded 6061-T6 aluminium alloy. Materials Express, 2019, 9, 851-860.	0.5	19
35	Characterization, formability, various stresses and failure analysis on workability of sintered Mg-5%B4C composite under triaxial stress state condition. Journal of Alloys and Compounds, 2018, 747, 324-339.	5.5	20
36	Mechanical Properties and Tribological Behavior of Al6061–SiC–Gr Self-Lubricating Hybrid Nanocomposites. Transactions of the Indian Institute of Metals, 2018, 71, 1897-1911.	1.5	62

#	Article	IF	Citations
37	Investigation of the Thermal and Dielectric Behavior of Epoxy Nano-Hybrids by using Silane Modified Nano-ZnO. Silicon, 2018, 10, 1291-1303.	3.3	19
38	Efficient Flame Detection Based on Static and Dynamic Texture Analysis in Forest Fire Detection. Fire Technology, 2018, 54, 255-288.	3.0	63
39	Application of Taguchi and Response Surface Methodology (RSM) in Steel Turning Process to Improve Surface Roughness and Material Removal Rate. Materials Today: Proceedings, 2018, 5, 24622-24631.	1.8	12
40	Influence of SiC Nanoparticle Reinforcement on FSS Welded 6061-T6 Aluminum Alloy. Journal of Nanomaterials, 2018, 2018, 1-11.	2.7	29
41	Corrosion Behaviour of Al 7075/Al2O3/SiC MMNCs by Weight Loss Method. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	2.6	13
42	Wear behaviour of Al 7075/SiC/Mg metal matrix nano composite by liquid state process. Advanced Composites and Hybrid Materials, 2018, 1, 819-825.	21.1	24
43	Dry Sliding Wear behaviour of cast Al/Al203/Gr hybrid nano-composite using response surface methodology. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012105.	0.6	5
44	Measurement and Control of Emissions from Diesel Engine Operated by Biodiesel with Bioadditives of Mentha piperita. Measurement and Control, 2017, 50, 31-38.	1.8	6
45	Tribological and surface behavior of silicon carbide reinforced aluminum matrix nanocomposite. Surfaces and Interfaces, 2017, 8, 127-136.	3.0	64
46	Surface characteristics and wear depth profile of the TiN, TiAlN and AlCrN coated stainless steel in dry sliding wear condition. Surfaces and Interfaces, 2017, 6, 1-10.	3.0	46
47	Optimization of transesterification of biodiesel using green catalyst derived from Albizia Lebbeck Pods by mixture design. Renewable Energy, 2017, 104, 185-196.	8.9	25
48	Multi Feature Analysis of Smoke in YUV Color Space for Early Forest Fire Detection. Fire Technology, 2016, 52, 1319-1342.	3.0	53
49	Development of silane grafted ZnO core shell nanoparticles loaded diglycidyl epoxy nanocomposites film for antimicrobial applications. Materials Science and Engineering C, 2016, 64, 286-292.	7.3	62
50	Spectral investigations to the effect of bulk and nano ZnO on peanut plant leaves. Karbala International Journal of Modern Science, 2016, 2, 69-77.	1.0	27
51	Mechanical behavior and failure analysis using online acoustic emission on nano-graphite reinforced Al6061–10TiB2 hybrid composite using powder metallurgy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 632, 1-13.	5.6	41
52	Mechanical behavior and wear prediction of stir cast Al–TiB2 composites using response surface methodology. Materials & Design, 2014, 59, 383-396.	5.1	164
53	Tribological and Mechanical Behavior Study of Al6061-TiB$_2$ Metal Matrix Composites Using Stir Casting. Advanced Materials Research, 2014, 984-985, 200-206.	0.3	11
54	Effect of graphite addition on mechanical behavior of Al6061/TiB2 hybrid composite using acoustic emission. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 612, 16-27.	5.6	85

#	Article	IF	Citations
55	Process Development in Stir Casting and Investigation on Microstructures and Wear Behavior of TiB2 on Al6061 MMC. Procedia Engineering, 2013, 64, 1183-1190.	1.2	109
56	Aluminium-Titanium Diboride (Al-TiB2) Metal Matrix Composites: Challenges and Opportunities. Procedia Engineering, 2012, 38, 89-97.	1.2	102
57	Study of Mechanical Behaviour of Stir Cast Aluminium Based Composite Reinforced with Mechanically Ball Milled TiB<sub>2 </sub>Nano Particles. Advanced Materials Research, 0, 984-985, 410-415.	0.3	1
58	Image Texture Description, Surface-Grains Structure Morphology and Prediction of Wear Parameters for Mg/B4C Composites Using Response Surface Methodology. Metals and Materials International, 0, , 1.	3.4	2
59	Investigation of Tribo-Mechanical Properties of Polyamide 6 Nano-Biocomposite: Novel Approach Prediction of Fiber Orientation with OMMT. Transactions of the Indian Institute of Metals, 0, , 1.	1.5	1
60	A Novel Automatic Image Intensity Analysis Using Machine Learning Algorithms and Characterization of Tensile Fracture Surface of AA8011-B4C Nano-composite. Transactions of the Indian Institute of Metals, 0, , .	1.5	0