

Vinayagam Mohanavel

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,712
citations

394421

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all docs

36
docs citations

36
times ranked

338
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization and properties of stir cast AA6351-aluminium nitride (AlN) composites. Journal of Materials Research, 2016, 31, 3824-3831.	2.6	214
2	Influence of AlN particles on microstructure, mechanical and tribological behaviour in AA6351 aluminum alloy. Materials Research Express, 2019, 6, 106557.	1.6	162
3	Experimental investigation on mechanical properties of AA7075-AlN composites. Materialpruefung/Materials Testing, 2019, 61, 554-558.	2.2	147
4	Microstructure and mechanical properties of hard ceramic particulate reinforced AA7075 alloy composites via liquid metallurgy route. Materials Today: Proceedings, 2018, 5, 26860-26865.	1.8	127
5	Mechanical and microstructural characterization of AA7178-TiB ₂ composites. Materialpruefung/Materials Testing, 2020, 62, 146-150.	2.2	125
6	Effect of ZrB ₂ content on mechanical and microstructural characterization of AA6063 aluminum matrix composites. Materials Today: Proceedings, 2018, 5, 13601-13605.	1.8	82
7	Mechanical behaviour of hybrid composite (AA6351+Al ₂ O ₃ +Gr) fabricated by stir casting method. Materials Today: Proceedings, 2017, 4, 3093-3101.	1.8	76
8	Study on mechanical properties of graphite particulates reinforced aluminium matrix composite fabricated by stir casting technique. Materials Today: Proceedings, 2018, 5, 2945-2950.	1.8	71
9	Tribological and mechanical properties of Zirconium Di-boride (ZrB ₂) particles reinforced aluminium matrix composites. Materials Today: Proceedings, 2020, 21, 862-864.	1.8	66
10	Mechanical and tribological characterization of stir-cast Al-SiCp composites. Materials Today: Proceedings, 2018, 5, 1740-1746.	1.8	63
11	Investigations on microstructure and mechanical properties of Mg-5wt.% Cu-TiB ₂ composites produced via powder metallurgy route. Journal of Mining and Metallurgy, Section B: Metallurgy, 2020, 56, 99-108.	0.8	63
12	Effect of silicon carbide reinforcement on mechanical and physical properties of aluminum matrix composites. Materials Today: Proceedings, 2018, 5, 2938-2944.	1.8	60
13	Production, Microstructure and Mechanical behavior of AA6351/TiB ₂ composite synthesized by direct melt reaction method. Materials Today: Proceedings, 2017, 4, 3315-3324.	1.8	58
14	Mechanical behavior of in situ ZrB ₂ /AA2014 composite produced by the exothermic salt-metal reaction technique. Materials Today: Proceedings, 2017, 4, 3215-3221.	1.8	58
15	Processing and characterization of mechanical and wear behavior of Al7075 reinforced with B ₄ C and nano graphene hybrid composite. Materials Research Express, 2019, 6, 1265c5.	1.6	57
16	Optimization of tungsten inert gas welding parameters to. Materials Today: Proceedings, 2018, 5, 25112-25120.	1.8	55
17	Mechanical behavior of Al-matrix nanocomposites produced by stir casting technique. Materials Today: Proceedings, 2018, 5, 26873-26877.	1.8	49
18	Physical and Tribological Behaviour of Dual Particles Reinforced Metal Matrix Composites. Lecture Notes in Mechanical Engineering, 2019, , 339-347.	0.4	34

#	ARTICLE	IF	CITATIONS
19	Characterization and Properties of Silicon Carbide Reinforced Ni-10Co-5Cr (Superalloy) Matrix Composite Produced Via Powder Metallurgy Route. Silicon, 2021, 13, 973-984.	3.3	31
20	Investigation on electric erosion behavior of nickel-based super alloy (Waspaloy: Ni, Cr, Co, Mo, Ti, Al) using response surface methodology. Surface Topography: Metrology and Properties, 2021, 9, 035006.	1.6	18
21	Taguchi approach and decision tree algorithm for prediction of wear rate in zinc oxide-filled AA7075 matrix composites. Surface Topography: Metrology and Properties, 2021, 9, 035005.	1.6	17
22	Tensile and flexural behaviour of glass fibre reinforced plastic "Aluminium hybrid laminate manufactured by vacuum resin transfer moulding technique (VARTM). Materials Today: Proceedings, 2021, 37, 2132-2140.	1.8	12
23	Investigation on the tribological properties of copper alloy reinforced with Gr/ZrO ₂ particulates by stir casting route. Materials Today: Proceedings, 2020, 33, 3449-3453.	1.8	10
24	Mechanical and Tribological Behavior of Mg-Matrix Composites Manufactured by Stir Casting. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	8
25	Mechanical properties and dry sliding wear behaviour of Al2219 alloy reinforced with TiB ₂ composites by stir casting route. Materials Today: Proceedings, 2020, 33, 3222-3225.	1.8	7
26	Modeling and fabrication of automatic blackboard dust remover. Materials Today: Proceedings, 2021, 37, 527-530.	1.8	6
27	Studies on mechanical properties of 3wt% of 40 and 90 µm size B ₄ C particulates reinforced A356 alloy composites. Materials Today: Proceedings, 2022, 52, 494-499.	1.8	6
28	Performance and emissions characteristics of DI diesel engine using biodiesel blend with different injection pressures. Materials Today: Proceedings, 2020, 33, 4699-4702.	1.8	5
29	The investigation of the effect of nano particles on dry sliding wear and corrosion behavior of Al-Mg/Al ₂ O ₃ composites. Surface Topography: Metrology and Properties, 2021, 9, 045046.	1.6	5
30	Modeling and assessment of pump impeller. Materials Today: Proceedings, 2020, 33, 3226-3233.	1.8	4
31	Mechanical properties of a natural fiber reinforced with polylactic acid " Review. Materials Today: Proceedings, 2020, 33, 3061-3062.	1.8	4
32	Investigation of SiC and AL ₂ O ₃ " Reinforced with aluminium composites-A review. Materials Today: Proceedings, 2020, , .	1.8	3
33	CFD analysis of horizontal axis wind turbine braking system using chordwise spacing. Materials Today: Proceedings, 2021, 37, 542-552.	1.8	3
34	Layouts in production industries: A review. Materials Today: Proceedings, 2020, , .	1.8	2
35	Microstructure and evolution of mechanical properties of Cu-Sn alloy with graphite and nano zirconium oxide particulates. Materials Today: Proceedings, 2021, , .	1.8	2
36	A detailed study on improving the properties and performance aspects of biodiesel. International Journal of Ambient Energy, 0, , 1-5.	2.5	2