Jinu Paul

List of Publications by Year
in descending order

44 papers	1,523 citations	331259 21 h-index	315357 38 g-index
44 all docs	44 docs citations	44 times ranked	1544 citing authors

#	Article	IF	Citations
1	Flexible conductive graphene/poly(vinyl chloride) composite thin films with high mechanical strength and thermal stability. Carbon, 2011, 49, 198-205.	5.4	483
2	Friction stir processing of Al6061-SiC-graphite hybrid surface composites. Materials and Manufacturing Processes, 2018, 33, 795-804.	2.7	90
3	Surface modification of Al6061-SiC surface composite through impregnation of graphene, graphite & carbon nanotubes via FSP: A tribological study. Surface and Coatings Technology, 2019, 368, 175-191.	2.2	68
4	Effect of multiple micro channel reinforcement filling strategy on Al6061-graphene nanocomposite fabricated through friction stir processing. Journal of Manufacturing Processes, 2019, 37, 53-70.	2.8	66
5	Surface modification of Al6061 by graphene impregnation through a powder metallurgy assisted friction surfacing. Surface and Coatings Technology, 2018, 337, 12-23.	2.2	60
6	Surface modification of aluminium by graphene impregnation. Materials and Design, 2017, 116, 51-64.	3.3	50
7	A comparative study on microstructural evolution and surface properties of graphene/CNT reinforced Al6061â^'SiC hybrid surface composite fabricated via friction stir processing. Transactions of Nonferrous Metals Society of China, 2019, 29, 2005-2026.	1.7	50
8	Influence of reinforcement incorporation approach on mechanical and tribological properties of AA6061- CNT nanocomposite fabricated via FSP. Journal of Manufacturing Processes, 2020, 59, 604-620.	2.8	47
9	Graphene and CNT filled hybrid thermoplastic composites for enhanced EMI shielding effectiveness. Materials Research Express, 2019, 6, 085617.	0.8	45
10	Resistance spot welding of dissimilar AISI-1008 steel/Al-1100 alloy lap joints with a graphene interlayer. Journal of Manufacturing Processes, 2020, 53, 260-274.	2.8	37
11	Highly filled multilayer thermoplastic/graphene conducting composite structures with high strength and thermal stability for electromagnetic interference shielding applications. Journal of Applied Polymer Science, 2019, 136, 47792.	1.3	35
12	Friction stir lap welding of AA6061 aluminium alloy with a graphene interlayer. Materials and Manufacturing Processes, 2020, 35, 258-269.	2.7	34
13	Preparation of aluminium 6063-graphite surface composites by an electrical resistance heat assisted pressing technique. Surface and Coatings Technology, 2017, 309, 563-572.	2.2	32
14	Particle size and shape effects on the surface mechanical properties of aluminium coated with carbonaceous materials. Journal of Composite Materials, 2019, 53, 261-270.	1.2	32
15	Fabrication of bulk aluminum-graphene nanocomposite through friction stir alloying. Journal of Composite Materials, 2020, 54, 45-60.	1.2	28
16	Tribological Behavior of Solid-State Processed Al-1100/GNP Surface Nanocomposites. Journal of Materials Engineering and Performance, 2018, 27, 6529-6544.	1.2	25
17	Study of Nano-Mechanical, Electrochemical and Raman Spectroscopic Behavior of Al6061-SiC-Graphite Hybrid Surface Composite Fabricated through Friction Stir Processing. Journal of Composites Science, 2018, 2, 32.	1.4	25
18	Influence of process parameters and temperature on the solid state fabrication of multilayered graphene-aluminium surface nanocomposites. Journal of Manufacturing Processes, 2018, 34, 486-494.	2.8	23

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19	Surface alteration of aluminium alloy by an exfoliated graphitic tribolayer during friction surfacing using a consumable graphite rich tool. Surface Topography: Metrology and Properties, 2019, 7, 045015.	0.9	23
20	Sustainable conducting polymer composites: study of mechanical and tribological properties of natural fiber reinforced PVA composites with carbon nanofillers. Polymer-Plastics Technology and Materials, 2020, 59, 1088-1099.	0.6	23
21	A comprehensive review on the dispersion and survivability issues of carbon nanotubes in Al/CNT nanocomposites fabricated via friction stir processing. Carbon Letters, 2021, 31, 339-370.	3.3	23
22	Surface mechanical and self-lubricating properties of MWCNT impregnated aluminium surfaces. Surface Engineering, 2019, 35, 970-981.	1.1	20
23	Effect of exfoliated few-layered graphene on corrosion and mechanical behaviour of the graphitized Alâ€“SiC surface composite fabricated by FSP. Bulletin of Materials Science, 2019, 42, 1.	0.8	19
24	PVA/ MLG/ MWCNT hybrid composites for X band EMI shielding â€“ Study of mechanical, electrical, thermal and tribological properties. Materials Today Communications, 2020, 23, 100941.	0.9	19
25	Surfaceâ€Structured Goldâ€Nanotube Mats: Fabrication, Characterization, and Application in Surfaceâ€Enhanced Raman Scattering. Small, 2010, 6, 2443-2447.	5.2	18
26	Solid state processed Al-1100 alloy/MWCNT surface nanocomposites. Materialia, 2018, 2, 196-207.	1.3	18
27	Tribological characteristics of aluminium-CNT/graphene/graphite surface nanocomposites: a comparative study. Surface Topography: Metrology and Properties, 2019, 7, 034001.	0.9	18
28	Effect of graphene interlayer on resistance spot welded AISI-1008 steel joints. Materials Research Express, 2019, 6, 0865c3.	0.8	17
29	Fiber-optic sensor for handgrip-strength monitoring: conception and design. Applied Optics, 2005, 44, 3696.	2.1	14
30	Resistance Spot Welding of Similar and Dissimilar Metals: The Effect of Graphene Interlayer. Jom, 2020, 72, 2863-2874.	0.9	14
31	Performance evaluation of Al6061-graphene nanocomposites surface engineered by a novel multiple microchannel reinforcement approach in friction stir processing. Carbon Letters, 2021, 31, 1111.	3.3	10
32	Interlayers in Resistance Spot-Welded Lap Joints: A Critical Review. Metallography, Microstructure, and Analysis, 2021, 10, 3-24.	0.5	10
33	Bragg grating temperature sensors: modeling the effect of adhesion of polymeric coatings. Sensor Review, 2004, 24, 364-369.	1.0	8
34	Resistance spot-welding of AISI-1008 steel joints with MWCNT coating interlayer. Materials and Manufacturing Processes, 2021, 36, 448-456.	2.7	8
35	Graphene/Magnetite (Fe3O4) Hybrid Fillers for Thermoplastic Composites: X-Band Electromagnetic Interference Shielding Characteristics. Journal of Electronic Materials, 2020, 49, 7259-7271.	1.0	7
36	Microstructure and Mechanical Properties of Resistance-Spot-Welded AISI-1008 Steel Lap Joints Using Multiwalled Carbon Nanotubes as an Interlayer. Journal of Materials Engineering and Performance, 2021, 30, 3333-3341.	1.2	6

#	Article	IF	Citations
37	A Review on the Fabrication of <i>In Situ</i> Metal Matrix Composite during Friction Stir Welding. Materials Science Forum, 0, 978, 191-201.	0.3	4
38	THERMAL SPRAYING AND RELATED TECHNOLOGIES FOR THE SURFACE MODIFICATION OF AL ALLOYS: REVIEW. Surface Review and Letters, 2022, 29, .	0.5	4
39	Effect of graphene coating on the microstructure and mechanical properties of tungsten inert gas surface melted AISI-316L steel. International Journal of Materials and Product Technology, 2021, 62, 30.	0.1	3
40	Resistance spot welding of Al6061 lap joints with a polyvinyl alcohol-bonded graphene interlayer. Materialpruefung/Materials Testing, 2022, 64, 584-593.	0.8	3
41	Resistance Spot Welded Al 1100 Alloy with Carbonaceous Interlayers. Materials Science Forum, 2020, 978, 3-11.	0.3	2
42	Effect of graphene coating on the microstructure and mechanical properties of tungsten inert gas surface melted AISI-316L steel. International Journal of Materials and Product Technology, 2020, 1, 1.	0.1	1
43	Thermoelastic characterization of carbon nanotube reinforced PDMS elastomer. Journal of Polymer Engineering, 2021, 41, 87-94.	0.6	1
44	Effect of Tensile Deformation on Microstructure and Material Properties of Hyper-Duplex Stainless Steel. International Journal of Metalcasting, 0, , 1.	1.5	0