

Tpd Rajan

List of Publications by Year in descending order

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34
papers

1,215
citations

623734

14
h-index

552781

26
g-index

35
all docs

35
docs citations

35
times ranked

1068
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication and characterisation of Al ⁷ Si ^{0.35} Mg/fly ash metal matrix composites processed by different stir casting routes. <i>Composites Science and Technology</i> , 2007, 67, 3369-3377.	7.8	259
2	Developments in smart anticorrosive coatings with multifunctional characteristics. <i>Progress in Organic Coatings</i> , 2017, 111, 294-314.	3.9	158
3	Characterization of centrifugal cast functionally graded aluminum-silicon carbide metal matrix composites. <i>Materials Characterization</i> , 2010, 61, 923-928.	4.4	131
4	Studies on squeeze casting of Al 2124 alloy and 2124-10% SiCp metal matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 490, 235-241.	5.6	96
5	Design and fabrication of functionally graded in-situ aluminium composites for automotive pistons. <i>Materials and Design</i> , 2015, 88, 1201-1209.	7.0	93
6	Functionally graded Al ^{Al3Ni} in situ intermetallic composites: Fabrication and microstructural characterization. <i>Journal of Alloys and Compounds</i> , 2008, 453, L4-L7.	5.5	82
7	Solidification and casting/mould interfacial heat transfer characteristics of aluminum matrix composites. <i>Composites Science and Technology</i> , 2007, 67, 70-78.	7.8	62
8	Enhancement in tribological behaviour of functionally graded SiC reinforced aluminium composites by centrifugal casting. <i>Journal of Composite Materials</i> , 2016, 50, 2255-2269.	2.4	45
9	Nanoceria induced grain refinement in electroless Ni-B-CeO ₂ composite coating for enhanced wear and corrosion resistance of Aluminium alloy. <i>Surface and Coatings Technology</i> , 2018, 356, 29-37.	4.8	44
10	Effect of alumina nanoparticle on strengthening of Al-Si alloy through dendrite refinement, interfacial bonding and dislocation bowing. <i>Journal of Alloys and Compounds</i> , 2017, 712, 394-405.	5.5	35
11	Structure and properties of modified compocast microsilica reinforced aluminum matrix composite. <i>Materials and Design</i> , 2015, 88, 294-301.	7.0	28
12	Processing of Functionally Graded Aluminium Matrix Composites by Centrifugal Casting Technique. <i>Materials Science Forum</i> , 0, 690, 157-161.	0.3	25
13	Self-lubricating bidirectional carbon fiber reinforced smart aluminum composites by squeeze infiltration process. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2559-2569.	10.7	24
14	Studies on the influence of surface pre-treatments on electroless copper coating of boron carbide particles. <i>Applied Surface Science</i> , 2011, 257, 7466-7474.	6.1	23
15	Structure and properties of squeeze infiltrated zirconia grade-aluminosilicate short fiber reinforced aluminum composites. <i>Journal of Alloys and Compounds</i> , 2016, 688, 489-499.	5.5	21
16	Ni-Al polyvanadate layered double hydroxide with nanoceria decoration for enhanced corrosion protection of aluminium alloy. <i>Applied Clay Science</i> , 2021, 211, 106199.	5.2	14
17	Dry sliding wear studies on SiC reinforced functionally graded aluminium matrix composites. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 182-189.	1.1	13
18	Synthesis of Porous SiC Preform and Squeeze Infiltration Processing of Aluminium-SiC Metal Ceramic Composites. <i>Materials Science Forum</i> , 2012, 710, 371-376.	0.3	9

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19	Smart nanocontainer-based anticorrosive bio-coatings: Evaluation of quercetin for corrosion protection of aluminium alloys. <i>Progress in Organic Coatings</i> , 2019, 136, 105276.	3.9	9
20	Smart Coatings. , 2019, , 341-372.		7
21	Role of layered double hydroxide in enhancing wear and corrosion performance of self-lubricating hydrophobic Ni-B composite coatings on aluminium alloy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 128017.	4.7	6
22	Processing of Primary Silicon and Mg₂Si Reinforced Hybrid Functionally Graded Aluminum Composites by Centrifugal Casting. <i>Materials Science Forum</i> , 0, 710, 395-400.	0.3	5
23	Processing and Characterization of Hypoeutectic Functionally Graded Aluminum “ SiC Metal Matrix Composites. <i>Materials Science Forum</i> , 2015, 830-831, 456-459.	0.3	5
24	Influence of autocatalytic coating bath parameters on the formation of copper over surface treated boron carbide particles. <i>Surface and Coatings Technology</i> , 2013, 214, 77-85.	4.8	4
25	Processing and Characterization of Functionally Graded <i>In Situ</i> Aluminum Composite. <i>Materials Science Forum</i> , 2015, 830-831, 485-488.	0.3	3
26	Structure and Properties of Electroless Cu and Ni-B Coated B₄C Particle Dispersed Aluminum Composites by Powder Metallurgy Technique. <i>Materials Science Forum</i> , 2015, 830-831, 480-484.	0.3	3
27	Study on Al/TiB ₂ functionally graded metal matrix composites. <i>Materials Today: Proceedings</i> , 2021, 44, 2945-2951.	1.8	3
28	Formation of Electroless Ni-B Coating on Boron Carbide Particles for Composite Processing. <i>Materials Science Forum</i> , 0, 710, 359-364.	0.3	2
29	Advanced nanocoatings for anticorrosion. , 2020, , 499-510.		2
30	Squeeze infiltration processing and characterization of silicon reinforced composites. <i>Materials Today Communications</i> , 2022, 32, 103870.	1.9	2
31	Development of Al 319-Micro Silica Metallic Composite by Squeeze Infiltration Technique. <i>Materials Science Forum</i> , 2015, 830-831, 489-492.	0.3	1
32	Metallic nanocomposites for automotive applications. , 2022, , 163-198.		1
33	Processing of Porous Ceramics Using Aluminium Derived Binders and Sacrificial Porogen Leaching Method. <i>Materials Science Forum</i> , 2015, 830-831, 448-451.	0.3	0
34	Centrifugal Casting and Characterisation of Primary Silicon and Mg₂Si Dispersed Aluminium Functionally Graded Materials. <i>Materials Science Forum</i> , 2015, 830-831, 11-14.	0.3	0