

Praveennath G Koppad

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,588
citations

279487

23
h-index

315357

38
g-index

54
all docs

54
docs citations

54
times ranked

1137
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of multi-pass friction stir processing on the microstructure, mechanical and wear properties of AA5083/ZrO ₂ nanocomposites. <i>Journal of Alloys and Compounds</i> , 2017, 726, 1262-1273.	2.8	108
2	Influence of TiO ₂ nanoparticles incorporation to friction stir welded 5083 aluminum alloy on the microstructure, mechanical properties and wear resistance. <i>Journal of Alloys and Compounds</i> , 2017, 712, 795-803.	2.8	103
3	Study on mechanical properties of alkali treated plain woven banana fabric reinforced biodegradable composites. <i>Composites Communications</i> , 2019, 13, 47-51.	3.3	87
4	Microstructure, mechanical and wear properties of the A357 composites reinforced with dual sized SiC particles. <i>Journal of Alloys and Compounds</i> , 2019, 786, 570-580.	2.8	81
5	Microstructure and mechanical behaviour of in situ fabricated AA6061-TiC metal matrix composites. <i>Archives of Civil and Mechanical Engineering</i> , 2017, 17, 535-544.	1.9	80
6	Thermal behavior of PC-ABS based graphene filled polymer nanocomposite synthesized by FDM process. <i>Composites Communications</i> , 2019, 15, 129-134.	3.3	80
7	Mechanical and thermal properties of AA7075/TiO ₂ /Fly ash hybrid composites obtained by hot forging. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 474-481.	1.8	71
8	On thermal and electrical properties of multiwalled carbon nanotubes/copper matrix nanocomposites. <i>Journal of Alloys and Compounds</i> , 2013, 580, 527-532.	2.8	59
9	Mechanical Properties of Aluminium-Graphene Composite Synthesized by Powder Metallurgy and Hot Extrusion. <i>Transactions of the Indian Institute of Metals</i> , 2017, 70, 605-613.	0.7	55
10	Influence of hot rolling on microstructure and mechanical behaviour of Al6061-ZrB ₂ in-situ metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 738, 344-352.	2.6	50
11	On shear-lag and thermal mismatch model in multiwalled carbon nanotube/copper matrix nanocomposites. <i>Journal of Alloys and Compounds</i> , 2013, 549, 82-87.	2.8	49
12	The effect of heat treatment on the mechanical and tribological properties of dual size SiC reinforced A357 matrix composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 6434-6452.	2.6	49
13	Nanoindentation and wear behaviour of copper based hybrid composites reinforced with SiC and MWCNTs synthesized by spark plasma sintering. <i>Vacuum</i> , 2017, 145, 320-333.	1.6	48
14	Effect of carbon nanotube and silicon carbide on microstructure and dry sliding wear behavior of copper hybrid nanocomposites. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 3170-3182.	1.7	45
15	Role of particle stimulated nucleation in recrystallization of hot extruded Al 6061/SiCp composites. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 53-58.	1.7	44
16	HVOF sprayed Ni ₃ Ti and Ni ₃ Ti+(Cr ₃ C ₂ +20NiCr) coatings: Microstructure, microhardness and oxidation behaviour. <i>Journal of Alloys and Compounds</i> , 2018, 736, 236-245.	2.8	42
17	Elastic modulus of multiwalled carbon nanotubes reinforced aluminium matrix nanocomposite – A theoretical approach. <i>Computational Materials Science</i> , 2011, 50, 2493-2495.	1.4	41
18	Microstructure and dry sliding wear behavior of Cu-Sn alloy reinforced with multiwalled carbon nanotubes. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1755-1764.	1.7	34

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19	Effect of hot extrusion and T6 heat treatment on microstructure and mechanical properties of Al-10Zn-3.5Mg-2.5Cu nanocomposite reinforced with graphene nanoplatelets. <i>Journal of Manufacturing Processes</i> , 2018, 36, 264-271.	2.8	32
20	Studying the effect of different carbon and glass fabric stacking sequence on mechanical properties of epoxy hybrid composite laminates. <i>Composites Communications</i> , 2020, 21, 100425.	3.3	30
21	Microstructure and microhardness of carbon nanotube reinforced copper nanocomposites. <i>Materials Science and Technology</i> , 2013, 29, 605-609.	0.8	28
22	Nanoindentation studies on MWCNT/aluminum alloy 6061 nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 920-923.	2.6	27
23	Abrasive wear behavior of Ni-P coated Si ₃ N ₄ reinforced Al6061 composites. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1423-1431.	3.1	26
24	On Peierls Nabarro stress in Iron. <i>Computational Materials Science</i> , 2012, 56, 172-173.	1.4	23
25	Microstructure and Adhesion Strength of Ni ₃ Ti Coating Prepared by Mechanical Alloying and HVOF. <i>Physics of Metals and Metallography</i> , 2018, 119, 462-468.	0.3	21
26	Characterization of graphene reinforced Al-Sn nanocomposite produced by mechanical alloying and vacuum hot pressing. <i>Materials Today: Proceedings</i> , 2018, 5, 24505-24514.	0.9	19
27	Al/Graphene/CNT hybrid composites: Hardness and sliding wear studies. <i>FME Transactions</i> , 2021, 49, 414-421.	0.7	19
28	HVOF sprayed Inconel 718/cubic boron nitride composite coatings: microstructure, microhardness and slurry erosive behaviour. <i>Materials Research Express</i> , 2019, 6, 126518.	0.8	17
29	Porous network ZrO ₂ /ZnFe ₂ O ₄ nanocomposite with heterojunction towards industrial water purification under sunlight: Enhanced charge separation and elucidation of photo-mechanism. <i>Ceramics International</i> , 2021, 47, 14845-14861.	2.3	17
30	Microstructure and tribological characteristics of APS sprayed NiCrBSi/flyash cenosphere/Cr ₂ O ₃ and NiCrBSi/flyash cenosphere/Mo composite coatings at elevated temperatures. <i>Materials Research Express</i> , 2019, 6, 086451.	0.8	16
31	Morphology Studies on Mechanically Milled Aluminium Reinforced with B ₄ C and CNTs. <i>Silicon</i> , 2019, 11, 1089-1098.	1.8	15
32	Ageing Kinetics in Carbon Nanotube Reinforced Aluminium Alloy AA6063. <i>Materials Science Forum</i> , 2012, 710, 780-785.	0.3	14
33	Friction and wear characteristics of copper nanocomposites reinforced with uncoated and nickel coated carbon nanotubes. <i>Materials Research Express</i> , 2018, 5, 095607.	0.8	14
34	Application of Taguchi's method to study the effect of processing parameters of Al ₆ O ₈ /B ₄ C/Al ₂ Si ₅ hybrid composites on mechanical properties. <i>Materials Research Express</i> , 2019, 6, 1065a1.	0.8	14
35	Nanohardness and wear behavior of Copper-SiC-CNTs nanocomposites. <i>FME Transactions</i> , 2020, 48, 688-692.	0.7	14
36	Investigation of Microstructure and Mechanical Properties of Cast Al-10Zn-3.5Mg-2.5Cu Nanocomposite Reinforced with Graphene Nano Sheets Produced by Ultrasonic Assisted Stir Casting. <i>International Journal of Metalcasting</i> , 2023, 17, 935-946.	1.5	14

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37	Influence of Multiwalled Carbon Nanotubes on the Aging Behavior of AA 6061 Alloy Matrix Nanocomposites. Transactions of the Indian Institute of Metals, 2014, 67, 325-329.	0.7	12
38	Small-angle scattering from GP zones in Al-Cu alloy. Bulletin of Materials Science, 2011, 34, 1455-1458.	0.8	11
39	Hot corrosion behaviour of HVOF sprayed Ni ₃ Ti and Ni ₃ Ti + (Cr ₃ C ₂ + 20NiCr) coatings in presence of Na ₂ SO ₄ -40%V ₂ O ₅ at 650 °C. Surface Topography: Metrology and Properties, 2019, 7, 025019.	0.9	11
40	Mechanical Characterization of PC-ABS Reinforced with CNT Nanocomposites developed by Fused Deposition Modelling. Journal of Physics: Conference Series, 2020, 1455, 012003.	0.3	11
41	Improving the friction and wear characteristics of AZ31 alloy with the addition of Al ₂ O ₃ nanoparticles. Materials Research Express, 2019, 6, 126505.	0.8	10
42	Microstructure and Microhardness of Carbon Nanotube-Silicon Carbide/Copper Hybrid Nanocomposite Developed by Powder Metallurgy. Indian Journal of Science and Technology, 2016, 9, .	0.5	9
43	Effect of multiple reinforcements (CNT/Si ₃ N ₄) on hardness, electrical conductivity and friction coefficient of aluminium hybrid composites. Journal of Physics: Conference Series, 2020, 1455, 012011.	0.3	6
44	Effect of surface treatment on wetting behavior of copper. Materials Today: Proceedings, 2021, 35, 295-297.	0.9	4
45	Influence of Al ₂ O ₃ nanoparticles on thermal performance of closed loop pulsating heat pipe. FME Transactions, 2020, 48, 143-148.	0.7	4
46	Effect of carbon nanotubes on microhardness and adhesion strength of high-velocity oxy-fuel sprayed NiCr ₃ C ₂ coatings. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 86-96.	0.7	4
47	Tribological Behaviour of Hot Extruded Al6061-Si ₃ N ₄ Composite. , 2013, , .		2
48	Effects of Extrusion and Heat Treatment Conditions on Microstructure and Mechanical Properties of an Al-Zn-Mg-Cu-Er Alloy. Minerals, Metals and Materials Series, 2018, , 451-459.	0.3	2
49	Automatic pressure calibration system for pressure sensors. FME Transactions, 2019, 47, 111-115.	0.7	2
50	Editorial preface: A special issue on International Conference on Advances in Materials, Ceramics & Engineering Sciences (AMCES-2020). Materials Today: Proceedings, 2021, 46, A1.	0.9	0