

Raj Kumar Sahu

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

281
citations

1040056

9
h-index

940533

16
g-index

18
all docs

18
docs citations

18
times ranked

220
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the manufacturing processes of functionally graded materials: a review. <i>Science and Engineering of Composite Materials</i> , 2018, 25, 309-336.	1.4	62
2	Rate-dependent mechanical behavior of VHB 4910 elastomer. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 170-179.	2.6	44
3	Optimization of Stirring Parameters Using CFD Simulations for HAMCs Synthesis by Stir Casting Process. <i>Transactions of the Indian Institute of Metals</i> , 2017, 70, 2563-2570.	1.5	32
4	Effect of sintering parameters on microstructure and mechanical properties of self-lubricating functionally graded cemented tungsten carbide. <i>Journal of Manufacturing Processes</i> , 2019, 45, 498-508.	5.9	19
5	Estimation and validation of maxwell stress of planar dielectric elastomer actuators. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 429-436.	1.5	18
6	Preliminary investigation on development of functionally graded cemented tungsten carbide with solid lubricant via ball milling and spark plasma sintering. <i>Journal of Composite Materials</i> , 2018, 52, 1363-1377.	2.4	18
7	Experimental Investigation, Modeling, and Optimization of Wear Parameters of B4C and Fly-Ash Reinforced Aluminum Hybrid Composite. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	18
8	Synthesis, microstructure and hardness of Al 7075/B4C/Fly-ash composite using stir casting method. <i>Materials Today: Proceedings</i> , 2020, 27, 2401-2406.	1.8	13
9	In-plane actuation performance of graphene oxide filled VHB 4910 dielectric elastomer. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51594.	2.6	13
10	Dissipation Factor of Acrylic Dielectric Elastomer—An Experimental Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 7439-7444.	0.9	10
11	Effects of crosslink density on the behavior of VHB 4910 dielectric elastomer. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2019, 56, 821-829.	2.2	10
12	Novel design and composition optimization of self-lubricating functionally graded cemented tungsten carbide cutting tool material for dry machining. <i>Advances in Manufacturing</i> , 2021, 9, 34-46.	6.1	8
13	Adhesive wear performance of self-lubricating functionally graded cemented tungsten carbide prepared by spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 104, 105788.	3.8	6
14	Centrifugally cast A356/SiC functionally graded composite: Fabrication and mechanical property assessment. <i>Materials Today: Proceedings</i> , 2021, 47, 3346-3351.	1.8	4
15	Effects of uniaxial and biaxial strain on molecular structure of VHB 4910 dielectric elastomer. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
16	Investigation of Mechanical Properties and Optimization of Forming Parameters of Al7075-B4C-Fly Ash Hybrid Aluminium Matrix Composite. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 8161-8176.	3.0	2
17	Raman spectroscopy of pre-strained VHB 4910 elastomer towards actuator application. <i>Vibrational Spectroscopy</i> , 2020, 106, 102994.	2.2	1
18	Solid Lubricant Effect on the Microstructure and Hardness of the Functionally Graded Cemented Tungsten Carbide. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 745-751.	0.4	1