

Raj Kumar Sahu

List of Publications by Year in descending order

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