

# Akarsh Verma

## List of Publications by Citations

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31  
papers

992  
citations

23  
h-index

31  
g-index

33  
ext. papers

1,371  
ext. citations

2.7  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
31	Atomistic modeling of graphene/hexagonal boron nitride polymer nanocomposites: a review. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2018</b> , 8, e1346	7.9	63
30	Mechanical, microstructural, and thermal characterization insights of pyrolyzed carbon black from waste tires reinforced epoxy nanocomposites for coating application. <i>Polymer Composites</i> , <b>2020</b> , 41, 338-349	3	54
29	Dynamic Mechanical Analysis and Creep-recovery behaviour of Polyvinyl Alcohol based cross-linked Biocomposite reinforced with Basalt fiber. <i>Materials Research Express</i> , <b>2019</b> , 6, 105373	1.7	52
28	Experimental Analysis on Carbon Residuum Transformed Epoxy Resin: Chicken Feather Fiber Hybrid Composite. <i>Polymer Composites</i> , <b>2019</b> , 40, 2690-2699	3	52
27	Experimental and Computational Studies to Analyze the Effect of h-BN Nanosheets on Mechanical Behavior of h-BN/Polyethylene Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 20059-20070	3.8	51
26	Enhanced thermal transport across a bi-crystalline graphene-polymer interface: an atomistic approach. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 6229-6237	3.6	49
25	Effect of grain boundaries on the interfacial behaviour of graphene-polyethylene nanocomposite. <i>Applied Surface Science</i> , <b>2019</b> , 470, 1085-1092	6.7	49
24	Processing and characterization analysis of pyrolyzed oil rubber (from waste tires)-epoxy polymer blend composite for lightweight structures and coatings applications. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 2041-2051	2.3	48
23	The effect of STW defects on the mechanical properties and fracture toughness of pristine and hydrogenated graphene. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 16023-16037	3.6	47
22	Molecular dynamics based simulations to study failure morphology of hydroxyl and epoxide functionalised graphene. <i>Computational Materials Science</i> , <b>2018</b> , 143, 15-26	3.2	47
21	Mechanical, Microstructural and Thermal Characterization of Epoxy-Based Human Hair Reinforced Composites. <i>Journal of Testing and Evaluation</i> , <b>2019</b> , 47, 20170063	1	46
20	Molecular dynamics based simulations to study the fracture strength of monolayer graphene oxide. <i>Nanotechnology</i> , <b>2018</b> , 29, 115706	3.4	44
19	Tailoring the failure morphology of 2D bicrystalline graphene oxide. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 015102	2.5	39
18	A novel palm sheath and sugarcane bagasse fiber based hybrid composites for automotive applications: An experimental approach. <i>Polymer Composites</i> , <b>2021</b> , 42, 512-521	3	37
17	Fabrication and characterization of chitosan-coated sisal fiber [Phytigel modified soy protein-based green composite. <i>Journal of Composite Materials</i> , <b>2019</b> , 53, 2481-2504	2.7	36
16	A novel approach for development of printed circuit board from biofiber based composites. <i>Polymer Composites</i> , <b>2020</b> , 41, 4550-4558	3	35
15	Experimental investigation of chicken feather fiber and crumb rubber reformed epoxy resin hybrid composite: mechanical and microstructural characterization. <i>Journal of the Mechanical Behavior of Materials</i> , <b>2018</b> , 27,	1.9	30

14	Structural and chemical insights into thermal transport for strained functionalised graphene: a molecular dynamics study. <i>Materials Research Express</i> , <b>2018</b> , 5, 115605	1.7	29
13	Starch-jute fiber hybrid biocomposite modified with an epoxy resin coating: fabrication and experimental characterization. <i>Journal of the Mechanical Behavior of Materials</i> , <b>2018</b> , 27,	1.9	27
12	A molecular dynamics based study to estimate the point defects formation energies in graphene containing STW defects. <i>Materials Research Express</i> , <b>2019</b> , 6, 015606	1.7	26
11	Reactive force field based atomistic simulations to study fracture toughness of bicrystalline graphene functionalised with oxide groups. <i>Diamond and Related Materials</i> , <b>2018</b> , 88, 193-203	3.5	23
10	Human Hair: A Biodegradable Composite Fiber A Review. <i>International Journal of Waste Resources</i> , <b>2016</b> , 6,		23
9	ReaxFF reactive molecular dynamics simulations to study the interfacial dynamics between defective h-BN nanosheets and water nanodroplets. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 10822-10834	3.6	23
8	Mechanical Properties and Microstructure of Starch and Sisal Fiber Biocomposite Modified with Epoxy Resin. <i>Materials Performance and Characterization</i> , <b>2017</b> , 6, 20170069	0.5	18
7	Physical and Thermal Characterization of Chicken Feather Fiber and Crumb Rubber Reformed Epoxy Resin Hybrid Composite. <i>Advances in Civil Engineering Materials</i> , <b>2018</b> , 7, 20180027	0.7	14
6	Effect of functionalized silicon carbide nano-particles as additive in cross-linked PVA based composites for vibration damping application. <i>Journal of Vinyl and Additive Technology</i> , <b>2021</b> , 27, 920	2	12
5	WEDM machining of heat treated ASSAB B8 tool steel: A comprehensive experimental analysis. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	8
4	Study of Flame Retardant and Mechanical Properties of Coconut Shell Particles Filled Composite. <i>Research &amp; Reviews Journal of Material Sciences</i> , <b>2016</b> , 04,		2
3	Experimental Investigations on Thermal Properties of Coconut Shell Particles in DAP Solution for Use in Green Composite Applications. <i>Journal of Material Science &amp; Engineering</i> , <b>2016</b> , 05,	0.7	2
2	Bio-composite film from corn starch based vetiver cellulose. <i>Journal of Natural Fibers</i> , 1-11	1.8	2
1	Adsorption chemistry of co-doped graphene nanoribbon and its derivatives towards carbon based gases for gas sensing applications: Quantum DFT investigation. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 146, 106670	4.3	1