

Akarsh Verma

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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> , 2022 , 146, 106670 | 4.3 | 1 |
| 30 | 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> , 2021 , 27, 920 | 2 | 12 |
| 29 | A novel palm sheath and sugarcane bagasse fiber based hybrid composites for automotive applications: An experimental approach. <i>Polymer Composites</i> , 2021 , 42, 512-521 | 3 | 37 |
| 28 | ReaxFF reactive molecular dynamics simulations to study the interfacial dynamics between defective h-BN nanosheets and water nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10822-10834 | 3.6 | 23 |
| 27 | WEDM machining of heat treated ASSAB B8 tool steel: A comprehensive experimental analysis. <i>Materials Today: Proceedings</i> , 2021 , | 1.4 | 8 |
| 26 | Mechanical, microstructural, and thermal characterization insights of pyrolyzed carbon black from waste tires reinforced epoxy nanocomposites for coating application. <i>Polymer Composites</i> , 2020 , 41, 338-349 | 3 | 54 |
| 25 | A novel approach for development of printed circuit board from biofiber based composites. <i>Polymer Composites</i> , 2020 , 41, 4550-4558 | 3 | 35 |
| 24 | Enhanced thermal transport across a bi-crystalline graphene-polymer interface: an atomistic approach. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6229-6237 | 3.6 | 49 |
| 23 | 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> , 2019 , 123, 20059-20070 | 2.8 | 51 |
| 22 | 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> , 2019 , 59, 2041-2051 | 2.3 | 48 |
| 21 | Dynamic Mechanical Analysis and Creep-recovery behaviour of Polyvinyl Alcohol based cross-linked Biocomposite reinforced with Basalt fiber. <i>Materials Research Express</i> , 2019 , 6, 105373 | 1.7 | 52 |
| 20 | Mechanical, Microstructural and Thermal Characterization of Epoxy-Based Human Hair Reinforced Composites. <i>Journal of Testing and Evaluation</i> , 2019 , 47, 20170063 | 1 | 46 |
| 19 | Fabrication and characterization of chitosan-coated sisal fiber [Phytigel modified soy protein-based green composite. <i>Journal of Composite Materials</i> , 2019 , 53, 2481-2504 | 2.7 | 36 |
| 18 | Experimental Analysis on Carbon Residuum Transformed Epoxy Resin: Chicken Feather Fiber Hybrid Composite. <i>Polymer Composites</i> , 2019 , 40, 2690-2699 | 3 | 52 |
| 17 | Effect of grain boundaries on the interfacial behaviour of graphene-polyethylene nanocomposite. <i>Applied Surface Science</i> , 2019 , 470, 1085-1092 | 6.7 | 49 |
| 16 | A molecular dynamics based study to estimate the point defects formation energies in graphene containing STW defects. <i>Materials Research Express</i> , 2019 , 6, 015606 | 1.7 | 26 |
| 15 | Molecular dynamics based simulations to study the fracture strength of monolayer graphene oxide. <i>Nanotechnology</i> , 2018 , 29, 115706 | 3.4 | 44 |

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| 14 | Reactive force field based atomistic simulations to study fracture toughness of bicrystalline graphene functionalised with oxide groups. <i>Diamond and Related Materials</i> , 2018 , 88, 193-203 | 3.5 | 23 |
| 13 | 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> , 2018 , 27, | 1.9 | 30 |
| 12 | Physical and Thermal Characterization of Chicken Feather Fiber and Crumb Rubber Reformed Epoxy Resin Hybrid Composite. <i>Advances in Civil Engineering Materials</i> , 2018 , 7, 20180027 | 0.7 | 14 |
| 11 | Molecular dynamics based simulations to study failure morphology of hydroxyl and epoxide functionalised graphene. <i>Computational Materials Science</i> , 2018 , 143, 15-26 | 3.2 | 47 |
| 10 | Atomistic modeling of graphene/hexagonal boron nitride polymer nanocomposites: a review. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018 , 8, e1346 | 7.9 | 63 |
| 9 | Starch-jute fiber hybrid biocomposite modified with an epoxy resin coating: fabrication and experimental characterization. <i>Journal of the Mechanical Behavior of Materials</i> , 2018 , 27, | 1.9 | 27 |
| 8 | Structural and chemical insights into thermal transport for strained functionalised graphene: a molecular dynamics study. <i>Materials Research Express</i> , 2018 , 5, 115605 | 1.7 | 29 |
| 7 | Tailoring the failure morphology of 2D bicrystalline graphene oxide. <i>Journal of Applied Physics</i> , 2018 , 124, 015102 | 2.5 | 39 |
| 6 | The effect of STW defects on the mechanical properties and fracture toughness of pristine and hydrogenated graphene. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16023-16037 | 3.6 | 47 |
| 5 | Mechanical Properties and Microstructure of Starch and Sisal Fiber Biocomposite Modified with Epoxy Resin. <i>Materials Performance and Characterization</i> , 2017 , 6, 20170069 | 0.5 | 18 |
| 4 | Study of Flame Retardant and Mechanical Properties of Coconut Shell Particles Filled Composite. <i>Research & Reviews Journal of Material Sciences</i> , 2016 , 04, | | 2 |
| 3 | Human Hair: A Biodegradable Composite Fiber A Review. <i>International Journal of Waste Resources</i> , 2016 , 6, | | 23 |
| 2 | Experimental Investigations on Thermal Properties of Coconut Shell Particles in DAP Solution for Use in Green Composite Applications. <i>Journal of Material Science & Engineering</i> , 2016 , 05, | 0.7 | 2 |
| 1 | Bio-composite film from corn starch based vetiver cellulose. <i>Journal of Natural Fibers</i> , 1-11 | 1.8 | 2 |