Akarsh Verma

List of Publications by Year in descending order

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201385 395343 2,175 33 27 33 citations h-index g-index papers 33 33 33 573 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Mechanical, microstructural, and thermal characterization insights of pyrolyzed carbon black from waste tires reinforced epoxy nanocomposites for coating application. Polymer Composites, 2020, 41, 338-349.	2.3	156
2	Experimental Analysis on Carbon Residuum Transformed Epoxy Resin: Chicken Feather Fiber Hybrid Composite. Polymer Composites, 2019, 40, 2690-2699.	2.3	127
3	A novel palm sheath and sugarcane bagasse fiber based hybrid composites for automotive applications: An experimental approach. Polymer Composites, 2021, 42, 512-521.	2.3	117
4	Processing and characterization analysis of pyrolyzed oil rubber (from waste tires)â€epoxy polymer blend composite for lightweight structures and coatings applications. Polymer Engineering and Science, 2019, 59, 2041-2051.	1.5	108
5	Effect of grain boundaries on the interfacial behaviour of graphene-polyethylene nanocomposite. Applied Surface Science, 2019, 470, 1085-1092.	3.1	108
6	Experimental and Computational Studies to Analyze the Effect of h-BN Nanosheets on Mechanical Behavior of h-BN/Polyethylene Nanocomposites. Journal of Physical Chemistry C, 2019, 123, 20059-20070.	1.5	103
7	A novel approach for development of printed circuit board from biofiber based composites. Polymer Composites, 2020, 41, 4550-4558.	2.3	101
8	Atomistic modeling of graphene/hexagonal boron nitride polymer nanocomposites: a review. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2018, 8, e1346.	6.2	99
9	Dynamic Mechanical Analysis and Creep-recovery behaviour of Polyvinyl Alcohol based cross-linked Biocomposite reinforced with Basalt fiber. Materials Research Express, 2019, 6, 105373.	0.8	97
10	Enhanced thermal transport across a bi-crystalline graphene–polymer interface: an atomistic approach. Physical Chemistry Chemical Physics, 2019, 21, 6229-6237.	1.3	95
11	The effect of STW defects on the mechanical properties and fracture toughness of pristine and hydrogenated graphene. Physical Chemistry Chemical Physics, 2017, 19, 16023-16037.	1.3	89
12	Molecular dynamics based simulations to study failure morphology of hydroxyl and epoxide functionalised graphene. Computational Materials Science, 2018, 143, 15-26.	1.4	84
13	Molecular dynamics based simulations to study the fracture strength of monolayer graphene oxide. Nanotechnology, 2018, 29, 115706.	1.3	82
14	Fabrication and characterization of chitosan-coated sisal fiber – Phytagel modified soy protein-based green composite. Journal of Composite Materials, 2019, 53, 2481-2504.	1.2	75
15	Tailoring the failure morphology of 2D bicrystalline graphene oxide. Journal of Applied Physics, 2018, 124, .	1.1	73
16	Mechanical, Microstructural and Thermal Characterization of Epoxy-Based Human Hair–Reinforced Composites. Journal of Testing and Evaluation, 2019, 47, 1193-1215.	0.4	66
17	Structural and chemical insights into thermal transport for strained functionalised graphene: a molecular dynamics study. Materials Research Express, 2018, 5, 115605.	0.8	62
18	Reactive force field based atomistic simulations to study fracture toughness of bicrystalline graphene functionalised with oxide groups. Diamond and Related Materials, 2018, 88, 193-203.	1.8	58

#	Article	IF	CITATIONS
19	Starch-jute fiber hybrid biocomposite modified with an epoxy resin coating: fabrication and experimental characterization. Journal of the Mechanical Behavior of Materials, 2018, 27, .	0.7	57
20	ReaxFF reactive molecular dynamics simulations to study the interfacial dynamics between defective h-BN nanosheets and water nanodroplets. Physical Chemistry Chemical Physics, 2021, 23, 10822-10834.	1.3	55
21	A molecular dynamics based study to estimate the point defects formation energies in graphene containing STW defects. Materials Research Express, 2019, 6, 015606.	0.8	53
22	Effect of functionalized silicon carbide nanoâ€particles as additive in crossâ€linked <scp>PVA</scp> based composites for vibration damping application. Journal of Vinyl and Additive Technology, 2021, 27, 920-932.	1.8	50
23	Experimental investigation of chicken feather fiber and crumb rubber reformed epoxy resin hybrid composite: mechanical and microstructural characterization. Journal of the Mechanical Behavior of Materials, 2018, 27, .	0.7	44
24	Mechanical Properties and Microstructure of Starch and Sisal Fiber Biocomposite Modified with Epoxy Resin. Materials Performance and Characterization, 2017, 6, 20170069.	0.2	39
25	Human Hair: A Biodegradable Composite Fiber–A Review. International Journal of Waste Resources, 2016, 6, .	0.2	36
26	Bio-composite film from corn starch based vetiver cellulose. Journal of Natural Fibers, 2022, 19, 14634-14644.	1.7	36
27	Physical and Thermal Characterization of Chicken Feather Fiber and Crumb Rubber Reformed Epoxy Resin Hybrid Composite. Advances in Civil Engineering Materials, 2018, 7, 538-557.	0.2	33
28	Adsorption chemistry of co-doped graphene nanoribbon and its derivatives towards carbon based gases for gas sensing applications: Quantum DFT investigation. Materials Science in Semiconductor Processing, 2022, 146, 106670.	1.9	27
29	Mechanical, thermal, and acoustical studies on natural alternative material for partition walls: A novel experimental investigation. Polymer Composites, 2022, 43, 4711-4720.	2.3	21
30	WEDM machining of heat treated ASSAB '88 tool steel: A comprehensive experimental analysis. Materials Today: Proceedings, 2022, 50, 946-951.	0.9	17
31	Study of Flame Retardant and Mechanical Properties of Coconut Shell Particles Filled Composite. Research & Reviews Journal of Material Sciences, 2016, 04, .	0.1	4
32	Experimental Investigations on Thermal Properties of Coconut Shell Particles in DAP Solution for Use in Green Composite Applications. Journal of Material Science & Engineering, 2016, 05, .	0.2	2
33	Inspection of Hydrodynamic Lubrication in Infinitely Long Journal Bearing with Oscillating Journal Velocity. Journal of Applied Mechanical Engineering, 2016, 5, .	0.0	1