

Vinod Kushvaha

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,437
citations

331670

21
h-index

361022

35
g-index

44
all docs

44
docs citations

44
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on mechanical, electromagnetic radiation shielding, and thermal conductivity of fibers/inorganic fillers reinforced hybrid polymer composites. <i>Polymer Composites</i> , 2020, 41, 3940-3965.	4.6	179
2	Poptube approach for ultrafast carbon nanotube growth. <i>Chemical Communications</i> , 2011, 47, 9912.	4.1	108
3	Novel Muntingia Calabura bark fiber reinforced green-epoxy composite: A sustainable and green material for cleaner production. <i>Journal of Cleaner Production</i> , 2021, 294, 126337.	9.3	99
4	Mechanism of biochar soil pore-gas-water interaction: gas properties of biochar-amended sandy soil at different degrees of compaction using KNN modeling. <i>Acta Geophysica</i> , 2020, 68, 207-217.	2.0	68
5	Effect of aspect ratio on dynamic fracture toughness of particulate polymer composite using artificial neural network. <i>Engineering Fracture Mechanics</i> , 2020, 228, 106907.	4.3	65
6	A new study on flax-basalt-carbon fiber reinforced epoxy/bioepoxy hybrid composites. <i>Polymer Composites</i> , 2021, 42, 1891-1900.	4.6	59
7	Advances in Computational Intelligence of Polymer Composite Materials: Machine Learning Assisted Modeling, Analysis and Design. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 3341-3385.	10.2	59
8	Predictive modelling of fracture behaviour in silica-filled polymer composite subjected to impact with varying loading rates using artificial neural network. <i>Engineering Fracture Mechanics</i> , 2020, 239, 107328.	4.3	56
9	Alkaline Effect on Characterization of Discarded Waste of Moringa oleifera Fiber as a Potential Eco-friendly Reinforcement for Biocomposites. <i>Journal of Polymers and the Environment</i> , 2020, 28, 2823-2836.	5.0	54
10	Impact of Silane Treatment on Characterization of Ipomoea Staphylina Plant Fiber Reinforced Epoxy Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 5888-5899.	3.1	52
11	Effect of filler shape, volume fraction and loading rate on dynamic fracture behavior of glass-filled epoxy. <i>Composites Part B: Engineering</i> , 2014, 64, 126-137.	12.0	50
12	Effect of pH, Volatile Content, and Pyrolysis Conditions on Surface Area and O/C and H/C Ratios of Biochar: Towards Understanding Performance of Biochar Using Simplified Approach. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2020, 24, .	2.0	49
13	Artificial neural network technique to predict dynamic fracture of particulate composite. <i>Journal of Composite Materials</i> , 2020, 54, 3099-3108.	2.4	49
14	Ecological, economical and technological perspectives based sustainability assessment in hybrid-cooling assisted machining of Ti-6Al-4V alloy. <i>Sustainable Materials and Technologies</i> , 2020, 26, e00218.	3.3	43
15	An ultrafast microwave approach towards multi-component and multi-dimensional nanomaterials. <i>RSC Advances</i> , 2014, 4, 9308.	3.6	38
16	Modification of Fibers and Matrices in Natural Fiber Reinforced Polymer Composites: A Comprehensive Review. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	3.9	37
17	Critical review of biochar applications in geoengineering infrastructure: moving beyond agricultural and environmental perspectives. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 5943-5971.	4.6	36
18	QCT/FEA predictions of femoral stiffness are strongly affected by boundary condition modeling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 208-216.	1.6	32

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19	Multiple Regression Model for Predicting Cracks in Soil Amended with Pig Manure Biochar and Wood Biochar. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2021, 25, .	2.0	31
20	Exploring efficiency of biochar in enhancing water retention in soils with varying grain size distributions using ANN technique. <i>Acta Geotechnica</i> , 2022, 17, 1315-1326.	5.7	28
21	Dynamic fracture toughness index: a new integrated methodology for mode-I fracture behaviour of polymer composite under impact loading. <i>Materials Research Express</i> , 2019, 6, 115342.	1.6	24
22	Modelling contaminant transport in fly ashâ€“bentonite composite landfill liner: mechanism of different types of ions. <i>Scientific Reports</i> , 2020, 10, 11330.	3.3	23
23	Application of Artificial Intelligence for Predicting Erosion of Biochar Amended Soils. <i>Sustainability</i> , 2022, 14, 684.	3.2	19
24	Prediction of the Fracture Toughness of Silicafilled Epoxy Composites using K-Nearest Neighbor (KNN) Method. , 2020, , .		17
25	Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy based hybrid composites. <i>Polymer Composites</i> , 2022, 43, 4179-4190.	4.6	17
26	Representative volume element based micromechanical modelling of rod shaped glass filled epoxy composites. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	16
27	Review on effect of biochar on soil strength: Towards exploring usage of biochar in geo-engineering infrastructure. <i>Biomass Conversion and Biorefinery</i> , 0, , .	4.6	15
28	Free vibration analysis of thin plates: Bare versus Stiffened. <i>Engineering Research Express</i> , 2020, 2, 015014.	1.6	14
29	Gas permeability in soil amended with biochar at different compaction states. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 463, 012073.	0.3	14
30	Performance of Nano-Filler Reinforced Composite Overwrap System to Repair Damaged Pipelines Subjected to Quasi-static and Impact Loading. <i>Journal of Failure Analysis and Prevention</i> , 2020, 20, 2017-2028.	0.9	12
31	Reviewing role of biochar in controlling soil erosion and considering future aspect of production using microwave pyrolysis process for the same. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 11543-11569.	4.6	11
32	Dimensional Analysis for Predicting the Fracture Behavior of Particulate Polymer Composite Under the Effect of Impact Loading. <i>Engineering Materials</i> , 2021, , 149-160.	0.6	4
33	Applications of Additive Manufacturing. <i>Springer Series in Advanced Manufacturing</i> , 2021, , 201-226.	0.5	4
34	Static Analysis of Thin Plates: Bare and Stiffened. <i>INCAS Bulletin</i> , 2020, 12, 67-81.	0.6	3
35	Future Trends and Technologies in Additive and Subtractive Manufacturing. <i>Springer Series in Advanced Manufacturing</i> , 2021, , 227-247.	0.5	2
36	Engineering applications of biofibers. , 2022, , 619-643.		2

#	ARTICLE	IF	CITATIONS
37	Applications of Hybrid Composites in Railway. Applied Science and Engineering Progress, 2022, , .	0.8	2
38	Processing and Manufacturing Ti6Al4V-Based Structures and Composites Using SLM and EBM: A Review. Springer Series in Advanced Manufacturing, 2021, , 73-103.	0.5	0