

R. Vijay

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,363
citations

172457

29
h-index

233421

45
g-index

51
all docs

51
docs citations

51
times ranked

988
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of raw and alkali treated new natural cellulosic fibers from <i>Tridax procumbens</i> . International Journal of Biological Macromolecules, 2019, 125, 99-108.	7.5	299
2	Influence of wood dust fillers on the mechanical, thermal, water absorption and biodegradation characteristics of jute fiber epoxy composites. Journal of Polymer Research, 2020, 27, 1.	2.4	141
3	Investigation on the mechanical behavior of areca sheath fibers/jute fibers/glass fabrics reinforced hybrid composite for light weight applications. Journal of Industrial Textiles, 2020, 49, 1036-1060.	2.4	136
4	Investigation on thermo-mechanical characteristics of treated/untreated <i>Portunus sanguinolentus</i> shell powder-based jute fabrics reinforced epoxy composites. Journal of Industrial Textiles, 2020, 50, 427-459.	2.4	132
5	Influence of various cashew friction dusts on the fade and recovery characteristics of non-asbestos copper free brake friction composites. Wear, 2019, 426-427, 1129-1141.	3.1	89
6	Characterization of Alkali-Treated and Untreated Natural Fibers from the Stem of <i>Parthenium Hysterophorus</i> . Journal of Natural Fibers, 2021, 18, 80-90.	3.1	84
7	ThermoMechanical Characterization of <i>Calotropis gigantea</i> Stem Powder-Filled Jute Fiber-Reinforced Epoxy Composites. Journal of Natural Fibers, 2018, 15, 648-657.	3.1	83
8	Characterization of Silane-Treated and Untreated Natural Fibers from Stem of <i>Leucas Aspera</i> . Journal of Natural Fibers, 2021, 18, 1957-1973.	3.1	77
9	Characterization of untreated and alkali treated natural fibers extracted from the stem of <i>Catharanthus roseus</i> . Materials Research Express, 2019, 6, 085406.	1.6	73
10	Characterization of Natural Cellulose Fiber from the Barks of <i>Vachellia farnesiana</i> . Journal of Natural Fibers, 2022, 19, 1343-1352.	3.1	73
11	Extraction and characterization of natural fiber from <i>Eleusine indica</i> grass as reinforcement of sustainable fiber reinforced polymer composites. Journal of Natural Fibers, 2021, 18, 1742-1750.	3.1	67
12	Extraction and Characterization of Natural Fiber from Stem of <i>Cardiospermum Halicababum</i> . Journal of Natural Fibers, 2021, 18, 898-908.	3.1	67
13	Experimental Investigation on the Tribo-Thermal Properties of Brake Friction Materials Containing Various Forms of Graphite: A Comparative Study. Arabian Journal for Science and Engineering, 2019, 44, 1459-1473.	3.0	63
14	Characterization of Natural Fibers from <i>Cortaderia Selloana</i> Grass (Pampas) as Reinforcement Material for the Production of the Composites. Journal of Natural Fibers, 2021, 18, 1893-1901.	3.1	58
15	Extraction and characterization of vetiver grass (<i>Chrysopogon zizanioides</i>) and kenaf fiber (<i>Hibiscus</i>) Tj ETQq1 1 0.784314 rgBT /Overdo Research and Technology, 2020, 9, 773-778.	5.8	56
16	Extraction and Characterization of Natural Fibers from <i>Citrullus lanatus</i> Climber. Journal of Natural Fibers, 2022, 19, 621-629.	3.1	49
17	Experimental investigation on the mechanical properties of <i>Cyperus pangorei</i> fibers and jute fiber-based natural fiber composites. International Journal of Polymer Analysis and Characterization, 2016, 21, 617-627.	1.9	48
18	Influence of thermal conductivity and thermal stability on the fade and recovery characteristics of non-asbestos semi-metallic disc brake pad. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1207-1219.	1.6	47

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19	Evaluation of <i>Azadirachta indica</i> seed/spent <i>Camellia sinensis</i> bio-filler based jute fabrics epoxy composites: Experimental and numerical studies. <i>Journal of Industrial Textiles</i> , 2020, 49, 1252-1277.	2.4	47
20	Development and characterization of stainless steel fiber-based copper-free brake liner formulation: A positive solution for steel fiber replacement. <i>Friction</i> , 2020, 8, 396-420.	6.4	44
21	Jute/Hemp bio-epoxy hybrid bio-composites: Influence of stacking sequence on adhesion of fiber-matrix. <i>International Journal of Adhesion and Adhesives</i> , 2022, 113, 103050.	2.9	43
22	Characterization of Novel Natural Fiber from <i>Saccharum Bengalense</i> Grass (Sarkanda). <i>Journal of Natural Fibers</i> , 2020, 17, 1739-1747.	3.1	40
23	Influence of WS ₂ /SnS ₂ on the tribological performance of copper-free brake pads. <i>Industrial Lubrication and Tribology</i> , 2019, 71, 398-405.	1.3	38
24	Extraction and Characterization of Cellulose Fibers from the Stem of <i>Momordica Charantia</i> . <i>Journal of Natural Fibers</i> , 2022, 19, 2232-2242.	3.1	38
25	Influence of Stacking Sequence on the Mechanical and Water Absorption Characteristics of Areca Sheath-palm Leaf Sheath Fibers Reinforced Epoxy Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 1670-1680.	3.1	37
26	INFLUENCE OF MOLYBDENUM DISULFIDE PARTICLE SIZE ON FRICTION AND WEAR CHARACTERISTICS OF NON-ASBESTOS-BASED COPPER-FREE BRAKE FRICTION COMPOSITES. <i>Surface Review and Letters</i> , 2020, 27, 1950085.	1.1	36
27	Development and Performance Evaluation of Eco-Friendly Crab Shell Powder Based Brake Pads for Automotive Applications. <i>International Journal of Automotive and Mechanical Engineering</i> , 2019, 16, 6502-6523.	0.9	36
28	Characterization of raw and benzoyl chloride treated <i>Impomea pes-caprae</i> fibers and its epoxy composites. <i>Materials Research Express</i> , 2019, 6, 095307.	1.6	33
29	Effect of alkali treatment on performance characterization of <i>Ziziphus mauritiana</i> fiber and its epoxy composites. <i>Journal of Industrial Textiles</i> , 2022, 51, 2444S-2466S.	2.4	33
30	Tribological characterization of recycled basalt-aramid fiber reinforced hybrid friction composites using grey-based Taguchi approach. <i>Materials Research Express</i> , 2019, 6, 065301.	1.6	30
31	Influence of Chemical Treatment on the Physico-mechanical Characteristics of Natural Fibers Extracted from the Barks of <i>Vachellia Farnesiana</i> . <i>Journal of Natural Fibers</i> , 2022, 19, 5065-5075.	3.1	26
32	Investigation on tribological and corrosion characteristics of oxide-coated steel and mild steel fiber-based brake friction composites. <i>Industrial Lubrication and Tribology</i> , 2019, 71, 341-347.	1.3	25
33	Influence of recycled basalt-aramid fibres integration on the mechanical and thermal properties of brake friction composites. <i>Materials Research Express</i> , 2019, 6, 115310.	1.6	24
34	Synergistic effect of red mud-iron sulfide particles on fade-recovery characteristics of non-asbestos organic brake friction composites. <i>Materials Research Express</i> , 0, , .	1.6	23
35	Optimization of Tribological Properties of Nonasbestos Brake Pad Material by Using Steel Wool. <i>Advances in Tribology</i> , 2013, 2013, 1-9.	2.1	22
36	Influence of iron-aluminum alloy on the tribological performance of non-asbestos brake friction materials a solution for copper replacement. <i>Industrial Lubrication and Tribology</i> , 2019, 72, 66-78.	1.3	22

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37	Influence of Crab Shell on Tribological Characterization of Eco-Friendly Products Based Non Asbestos Brake Friction Materials. , 0, , .		21
38	Brake friction composite materials: A review on classifications and influences of friction materials in braking performance with characterizations. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2022, 236, 1674-1706.	1.8	21
39	The Effects of Stacking Sequence on the Mechanical and Water Absorption Properties of Areca-Pineapple Fiber-based Epoxy Composites. Journal of Natural Fibers, 2022, 19, 9681-9692.	3.1	14
40	Influence of natural barytes purity levels on the tribological characteristics of non-asbestos brake pads. Industrial Lubrication and Tribology, 2019, 72, 349-358.	1.3	9
41	Influence of <i>Parthenium Hysterophorus</i> and <i>Impomea Pes-caprae</i> Fibers Stacking Sequence on the Performance Characteristics of Epoxy Composites. Journal of Natural Fibers, 2022, 19, 4456-4466.	3.1	9
42	Synergistic performance of expanded graphiteâ€”mica amalgamation based non-asbestos copper-free brake friction composites. Surface Topography: Metrology and Properties, 2022, 10, 015019.	1.6	9
43	Utilization of waste black limestone filler in short jute fiber reinforced epoxy composites: Influence on the mechanical behaviour. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210781.	2.5	8
44	Influence of stacking sequence on mechanical characteristics of <i>Cyperus pangorei</i> fibres based natural fibre composites. Materials Today: Proceedings, 2018, 5, 8504-8513.	1.8	7
45	Extraction and Characterization Chemical Treated and Untreated <i>Lycium ferocissimum</i> Fiber for Epoxy Composites. Journal of Natural Fibers, 2022, 19, 6509-6520.	3.1	6
46	Tribological characterization of different mesh-sized natural barite-based copper-free brake friction composites. , 2021, , 279-300.		5
47	Development and characterization of stainless steel fiber-based copper-free brake liner formulationâ€”A positive solution for steel fiber replacement. Friction, 2020, 8, 396.	6.4	5
48	Characterization of Silane Treated and Untreated <i>Citrullus lanatus</i> Fibers Based eco-friendly Automotive Brake Friction Composites. Journal of Natural Fibers, 2022, 19, 13273-13287.	3.1	5
49	Effect of stacking sequence on tribological properties of bamboo/jute reinforced hybrid epoxy polymer composites. Materials Today: Proceedings, 2021, 39, 1-5.	1.8	4
50	Tribological characterization of biofiber-reinforced brake friction composites. , 2022, , 475-486.		1
51	Investigation of the mechanical properties of treated and untreated <i>Vachellia farnesiana</i> fiber based epoxy composites. , 2022, , 487-497.		0