

Tej Singh

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

2,727
citations

159525

30
h-index

233338

45
g-index

115
all docs

115
docs citations

115
times ranked

1518
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis, characterization and antibacterial activity of silver nanoparticles using an endophytic fungal supernatant of <i>Raphanus sativus</i> . <i>Journal of Genetic Engineering and Biotechnology</i> , 2017, 15, 31-39.	1.5	155
2	Optimization of tribological properties of cement kiln dust-filled brake pad using grey relation analysis. <i>Materials and Design</i> , 2016, 89, 1335-1342.	3.3	92
3	Optimization of tribo-performance of brake friction materials: Effect of nano filler. <i>Wear</i> , 2015, 324-325, 10-16.	1.5	80
4	Bioceramic composites for orthopaedic applications: A comprehensive review of mechanical, biological, and microstructural properties. <i>Ceramics International</i> , 2021, 47, 3013-3030.	2.3	76
5	Influence of wollastonite shape and amount on tribo-performance of non-asbestos organic brake friction composites. <i>Wear</i> , 2017, 386-387, 157-164.	1.5	73
6	Performance assessment of lapinusâ€“aramid based brake pad hybrid phenolic composites in friction braking. <i>Archives of Civil and Mechanical Engineering</i> , 2015, 15, 151-161.	1.9	69
7	Optimization of parameters in solar thermal collector provided with impinging air jets based upon preference selection index method. <i>Renewable Energy</i> , 2016, 99, 118-126.	4.3	69
8	Experimental investigation and optimization of impinging jet solar thermal collector by Taguchi method. <i>Applied Thermal Engineering</i> , 2017, 116, 100-109.	3.0	68
9	Critical Review on Polylactic Acid: Properties, Structure, Processing, Biocomposites, and Nanocomposites. <i>Materials</i> , 2022, 15, 4312.	1.3	64
10	Impact of TQM on organisational performance: The case of Indian manufacturing and service industry. <i>Operations Research Perspectives</i> , 2018, 5, 199-217.	1.2	62
11	Himalayan Natural Fiber-Reinforced Epoxy Composites: Effect of <i>Grewia optiva</i> / <i>Bauhinia Vahlia</i> Fibers on Physico-mechanical and Dry Sliding Wear Behavior. <i>Journal of Natural Fibers</i> , 2021, 18, 192-202.	1.7	58
12	Waste marble dustâ€“filled glass fiberâ€“reinforced polymer composite Part I: Physical, thermomechanical, and erosive wear properties. <i>Polymer Composites</i> , 2019, 40, 4113-4124.	2.3	57
13	Effect of silica nanoparticles on physical, mechanical, and wear properties of natural fiber reinforced polymer composites. <i>Polymer Composites</i> , 2021, 42, 2396-2407.	2.3	55
14	Hybrid entropy â€“ TOPSIS approach for energy performance prioritization in a rectangular channel employing impinging air jets. <i>Energy</i> , 2017, 134, 360-368.	4.5	51
15	Optimum design based on fabricated natural fiber reinforced automotive brake friction composites using hybrid CRITIC-MEW approach. <i>Journal of Materials Research and Technology</i> , 2021, 14, 81-92.	2.6	51
16	Heat transfer augmentation in solar thermal collectors using impinging air jets: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3179-3190.	8.2	50
17	Comparative performance assessment of pineapple and Kevlar fibers based friction composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1491-1499.	2.6	50
18	Agriculture waste reinforced corn starch-based biocomposites: effect of rice husk/walnut shell on physicommechanical, biodegradable and thermal properties. <i>Materials Research Express</i> , 2019, 6, 045702.	0.8	47

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19	Application of hybrid analytical hierarchy process and complex proportional assessment approach for optimal design of brake friction materials. <i>Polymer Composites</i> , 2019, 40, 1602-1608.	2.3	47
20	Fabrication of waste bagasse fiber reinforced epoxy composites: Study of physical, mechanical, and erosion properties. <i>Polymer Composites</i> , 2019, 40, 3777-3786.	2.3	45
21	Optimizing discrete V obstacle parameters using a novel Entropy-VIKOR approach in a solar air flow channel. <i>Renewable Energy</i> , 2017, 106, 310-320.	4.3	43
22	Assessment of braking performance of lapinus wollastonite fibre reinforced friction composite materials. <i>Journal of King Saud University, Engineering Sciences</i> , 2017, 29, 183-190.	1.2	42
23	Selection of brake friction materials using hybrid analytical hierarchy process and vise Kriterijumska Optimizacija Kompromisno Resenje approach. <i>Polymer Composites</i> , 2018, 39, 1655-1662.	2.3	41
24	Natural-synthetic fiber reinforced homogeneous and functionally graded vinylester composites: Effect of bagasse-Kevlar hybridization on wear behavior. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5961-5971.	2.6	39
25	Selection of natural fibers based brake friction composites using hybrid ELECTRE-entropy optimization technique. <i>Polymer Testing</i> , 2020, 89, 106614.	2.3	38
26	Impact of artificial roughness variation on heat transfer and friction characteristics of solar air heating system. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 481-491.	3.4	38
27	Experimental investigation and optimization of cobalt bonded tungsten carbide composite by hybrid AHP-TOPSIS approach. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 3419-3428.	3.4	37
28	Thermo-mechanical and tribological properties of multi-walled carbon nanotubes filled friction composite materials. <i>Polymer Composites</i> , 2017, 38, 1183-1193.	2.3	33
29	A review of phase change materials (PCMs) for thermal storage in solar air heating systems. <i>Materials Today: Proceedings</i> , 2021, 44, 4357-4363.	0.9	33
30	Effect of Nanoclay Reinforcement on the Friction Braking Performance of Hybrid Phenolic Friction Composites. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 796-805.	1.2	32
31	A novel hybrid AHP-SAW approach for optimal selection of natural fiber reinforced non-asbestos organic brake friction composites. <i>Materials Research Express</i> , 2019, 6, 065701.	0.8	32
32	Utilization of Waste Marble Dust in Poly(Lactic Acid)-Based Biocomposites: Mechanical, Thermal and Wear Properties. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2952-2963.	2.4	31
33	Influence of woven bast-leaf hybrid fiber on the physico-mechanical and sliding wear performance of epoxy based polymer composites. <i>Materials Research Express</i> , 2018, 5, 105705.	0.8	30
34	Natural fiber reinforced non-asbestos brake friction composites: Influence of ramie fiber on physico-mechanical and tribological properties. <i>Materials Research Express</i> , 2019, 6, 115701.	0.8	30
35	Application of waste tire rubber particles in non-asbestos organic brake friction composite materials. <i>Materials Research Express</i> , 2019, 6, 035703.	0.8	30
36	Parametric study and optimization of multiwalled carbon nanotube filled friction composite materials using taguchi method. <i>Polymer Composites</i> , 2018, 39, E1109.	2.3	29

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37	Influence of banana fiber on physico-mechanical and tribological properties of phenolic based friction composites. <i>Materials Research Express</i> , 2019, 6, 075103.	0.8	29
38	Experimental investigation on the physical, mechanical and tribological properties of hemp fiber-based non-asbestos organic brake friction composites. <i>Materials Research Express</i> , 2019, 6, 085710.	0.8	28
39	Utilization of cement bypass dust in the development of sustainable automotive brake friction composite materials. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103324.	2.3	28
40	Correlation formulation for optimum tilt angle for maximizing the solar radiation on solar collector in the Western Himalayan region. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101185.	2.8	27
41	FRICION BRAKING PERFORMANCE OF NANOFILLED HYBRID FIBER REINFORCED PHENOLIC COMPOSITES: INFLUENCE OF NANOCCLAY AND CARBON NANOTUBES. <i>Nano</i> , 2013, 08, 1350025.	0.5	25
42	Developing heat transfer and pressure loss in an air passage with multi discrete V-blockages. <i>Experimental Thermal and Fluid Science</i> , 2017, 84, 266-278.	1.5	25
43	Physico-mechanical and tribological properties of nanoclay filled friction composite materials using Taguchi design of experiment approach. <i>Polymer Composites</i> , 2018, 39, 1575-1581.	2.3	24
44	Evaluation of some mechanical characterization and optimization of waste marble dust filled glass fiber reinforced polymer composite. <i>Materials Research Express</i> , 2019, 6, 105702.	0.8	24
45	Parametric Optimization of Erosive Wear Response of TiAlN-Coated Aluminium Alloy Using Taguchi Method. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 838-851.	1.2	23
46	Physico-mechanical, thermal and dynamic mechanical behaviour of natural-synthetic fiber reinforced vinylester based homogenous and functionally graded composites. <i>Materials Research Express</i> , 2019, 6, 025704.	0.8	22
47	Antibacterial and anti-inflammatory activities of <i>Cassia fistula</i> fungal broth-capped silver nanoparticles. <i>Materials Technology</i> , 2020, , 1-11.	1.5	21
48	Experimental investigation and optimization of potential parameters of discrete V down baffled solar thermal collector using hybrid Taguchi-TOPSIS method. <i>Applied Thermal Engineering</i> , 2022, 209, 118250.	3.0	21
49	Physico-mechanical and erosive wear analysis of polyester fibre-based nonwoven fabric-reinforced polymer composites. <i>Journal of Industrial Textiles</i> , 2019, 49, 447-464.	1.1	20
50	Physico-mechanical and Surface Wear Assessment of Magnesium Oxide Filled Ceramic Composites for Hip Implant Application. <i>Silicon</i> , 2019, 11, 39-49.	1.8	20
51	Improvement of the Machining Performance of the TW-ECDM Process Using Magnetohydrodynamics (MHD) on Quartz Material. <i>Materials</i> , 2021, 14, 2377.	1.3	20
52	Physical, mechanical, and thermal properties of <i>Dalbergia sissoo</i> wood waste-filled poly(lactic) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.3	19
53	A hybrid multiple-criteria decision-making approach for selecting optimal automotive brake friction composite. <i>Material Design and Processing Communications</i> , 2021, 3, e266.	0.5	19
54	Thermal stability analysis of nano-particulate-filled phenolic-based friction composite materials. <i>Journal of Industrial Textiles</i> , 2016, 45, 1335-1349.	1.1	18

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55	Experimental Investigation of Influence of Process Parameters on MRR during WEDM of Al6063 alloy. <i>Materials Today: Proceedings</i> , 2017, 4, 2242-2247.	0.9	17
56	Spectroscopic, microscopic characterization of Cannabis sativa leaf extract mediated silver nanoparticles and their synergistic effect with antibiotics against human pathogen. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 3043-3051.	3.4	17
57	Influence of dolomite on mechanical, physical and erosive wear properties of natural-synthetic fiber reinforced epoxy composites. <i>Materials Research Express</i> , 2019, 6, 125704.	0.8	17
58	Optimal design of needlepunched nonwoven fiber reinforced epoxy composites using improved preference selection index approach. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7583-7591.	2.6	17
59	Performance analysis of different U-shaped heat exchangers in parabolic trough solar collector for air heating applications. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100949.	2.8	17
60	Fabrication of Ceramic Hip Implant Composites: Influence of Silicon Nitride on Physical, Mechanical and Wear Properties. <i>Silicon</i> , 2020, 12, 1237-1245.	1.8	15
61	Abrasive wear and dynamic mechanical behavior of marble dust filled bagasse fiber reinforced hybrid polymer composites. <i>Polymer Composites</i> , 2021, 42, 2817-2828.	2.3	15
62	PERFORMANCE ANALYSIS OF ORGANIC FRICTION COMPOSITE MATERIALS BASED ON CARBON NANOTUBES-ORGANIC-INORGANIC FIBROUS REINFORCEMENT USING HYBRID AHP-FTOPSIS APPROACH. <i>Composites: Mechanics, Computations, Applications</i> , 2012, 3, 189-214.	0.2	13
63	Optimum selection of novel developed implant material using hybrid entropy PROMETHEE approach. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019, 50, 1232-1241.	0.5	13
64	Investigating the moderating effects of multi group on safety performance: The case of civil aviation. <i>Case Studies on Transport Policy</i> , 2019, 7, 477-488.	1.1	13
65	Mechanical and tribological characteristics of Si3N4 reinforced aluminium matrix composites: A short review. <i>Materials Today: Proceedings</i> , 2021, 44, 4059-4064.	0.9	12
66	Experimental and numerical investigation of mechanical and erosion behavior of barium sulphate filled glass fiber reinforced polymer composites. <i>Polymer Composites</i> , 2021, 42, 753-773.	2.3	12
67	Effect of Carbon Nanotubes on Tribo-Performance of Brake Friction Materials. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	11
68	Performance investigation and comparison of different turbulator shapes in solar water heating collector system. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	11
69	Cytotoxic and radiosensitizing potential of silver nanoparticles against HepG-2 cells prepared by biosynthetic route using <i>Picrasma quassioides</i> leaf extract. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 55, 101479.	1.4	11
70	Tribological performance of volcanic rock (perlite)-filled phenolic-based brake friction composites. <i>Journal of King Saud University, Engineering Sciences</i> , 2021, , .	1.2	11
71	Polymer green composites reinforced with natural fibers: A comparative study. <i>Materials Today: Proceedings</i> , 2021, 44, 4767-4769.	0.9	10
72	Development and characterization of composites produced from recycled polyethylene terephthalate and waste marble dust. <i>Polymer Composites</i> , 2022, 43, 3951-3959.	2.3	10

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73	Optimal Design of Wood/Rice Husk-Waste-Filled PLA Biocomposites Using Integrated CRITIC-MABAC-Based Decision-Making Algorithm. <i>Polymers</i> , 2022, 14, 2603.	2.0	10
74	Experimental investigation and multi objective optimization of thermal-hydraulic performance in a solar heat collector. <i>International Journal of Thermal Sciences</i> , 2020, 147, 106130.	2.6	9
75	Doping studies of Tb (terbium) and Cu (copper) on CdSe nanorods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 389, 1-5.	2.3	8
76	Thermo-mechanical characterization of nano filled and fiber reinforced brake friction materials. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	8
77	Exergy based modeling and optimization of solar thermal collector provided with impinging air jets. <i>Journal of King Saud University, Engineering Sciences</i> , 2018, 30, 355-362.	1.2	8
78	Natural fiber reinforced brake friction composites: Optimization using hybrid AHP-MOORA approach. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	8
79	Solar collector tilt angle optimization for solar power plant setup-able sites at Western Himalaya and correlation formulation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 11417-11431.	2.0	8
80	Mechanical physical and wear properties of some oxide ceramics for hip joint application: A short review. <i>Materials Today: Proceedings</i> , 2021, 44, 4913-4918.	0.9	7
81	Performance Assessment of Phenolic-based Non-Asbestos Organic Brake Friction Composite Materials with Different Abrasives. <i>Acta Polytechnica Hungarica</i> , 2020, 17, 49-67.	2.5	7
82	Thermal analysis and tribo-performance evaluation of multilayered graphene and graphite based fly ash filled banana fiber reinforced brake friction composites. <i>Polymer Composites</i> , 2022, 43, 6943-6954.	2.3	7
83	Tribo-performance evaluation of ecofriendly brake friction composite materials. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	6
84	Thermo-mechanical characterization of nonwoven fabric reinforced polymer composites. <i>Materials Today: Proceedings</i> , 2021, 44, 4770-4774.	0.9	6
85	Dolomite dust filled glass fiber reinforced epoxy composite: Influence of fabrication techniques on physicomechanical and erosion wear properties. <i>Polymer Composites</i> , 2022, 43, 551-565.	2.3	6
86	Thermal and Sliding Wear Properties of Wood Waste-Filled Poly(Lactic Acid) Biocomposites. <i>Polymers</i> , 2022, 14, 2230.	2.0	6
87	Tribological performance evaluation of slag waste filled phenolic composites for automotive braking applications. <i>Polymer Composites</i> , 2022, 43, 7118-7129.	2.3	6
88	Mechanical and fracture toughness behavior of TiO ₂ -filled A384 metal alloy composites. <i>Science and Engineering of Composite Materials</i> , 2013, 20, 209-220.	0.6	5
89	Optimum design of brake friction material using hybrid entropy-GRA approach. <i>MATEC Web of Conferences</i> , 2016, 57, 03002.	0.1	5
90	Optimum selection of nano- and micro-sized filler for the best combination of physical, mechanical, and wear properties of dental composites. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018, 232, 416-428.	0.7	5

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91	Optimum insulation thickness assessment of different insulation materials for mid-latitude steppe and desert climate (BSH) region of India. <i>Materials Today: Proceedings</i> , 2021, 44, 4421-4424.	0.9	5
92	Green Synthesis of Silver Nanoparticles Using Sustainable Resources and their Use as Antibacterial Agents: A Review. <i>Current Materials Science</i> , 2021, 14, 40-52.	0.2	5
93	Potential of White Ark Shell Powder in Automotive Brake Friction Composites. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4053-4062.	1.2	5
94	Optimum Design of Natural Fiber Reinforced Brake Friction Material Using Hybrid Entropy-VIKOR Approach. <i>Advanced Science Letters</i> , 2016, 22, 3961-3964.	0.2	5
95	Utilization of waste dolomite dust in carbon fiber reinforced vinylester composites. <i>Journal of Materials Research and Technology</i> , 2022, 18, 3291-3301.	2.6	5
96	Application of silver nanoparticles synthesized from <i>Raphanus sativus</i> for catalytic degradation of organic dyes. <i>MATEC Web of Conferences</i> , 2016, 57, 05003.	0.1	3
97	Optimal Design of Ceramic Based Hip Implant Composites Using Hybrid AHP-MOORA Approach. <i>Materials</i> , 2022, 15, 3800.	1.3	3
98	COMPUTATIONAL OPTIMIZATION OF TiO_2 FILLED A384 ALLOY COMPOSITES IN EROSION ENVIRONMENT. <i>International Journal of Computational Materials Science and Engineering</i> , 2012, 01, 1250025.	0.5	2
99	Dynamic mechanical analysis of waste tyre rubber filled brake friction composite materials. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
100	Impact of high velocity oxygen fuel sprayed TiAlN surface coating on mechanical and slurry erosion performance of aluminium alloys. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019, 50, 1250-1261.	0.5	2
101	Nanobiology in medicine. , 2021, , 57-71.		2
102	Wear behavior of Al6061 nanocomposite reinforced with nanozirconia. <i>Materials Today: Proceedings</i> , 2021, 48, 1112-1112.	0.9	2
103	Investigation of the Thermal Performance of Solar Thermal Collector Provided with Impinging Air Jets. <i>Advanced Science Letters</i> , 2016, 22, 3928-3932.	0.2	2
104	Numerical Study on Medial and Lateral Wear Propagation in Total Knee Replacements Under Squat Movement. <i>Journal of Medical Imaging and Health Informatics</i> , 2019, 9, 573-578.	0.2	1
105	Optimization on physicomechanical and wear properties of wood waste filled poly(lactic acid) biocomposites using integrated entropy-simple additive weighting approach. <i>South African Journal of Chemical Engineering</i> , 2022, 41, 193-202.	1.2	1
106	Spectroscopic and microscopic characterization of silver nanoparticles synthesized using <i>Justicia adhatoda</i> flower. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
107	Tribological properties of fiber reinforced phenolic composites under sliding condition. <i>Materials Today: Proceedings</i> , 2021, 47, 6231-6231.	0.9	0
108	Physico-mechanical characterizations of epoxy composites reinforced with lathe waste materials. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	0

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109	Withdrawal Notice: Effect of Various Twisted Tape and Tube Configurations on Thermal Hydraulic Performance in a Roughened Heat Transfer Device: A Comprehensive Review. Recent Patents on Engineering, 2021, 15, .	0.3	0
110	Dry Sliding Wear Assessment of Organic-Inorganic Fibre Reinforced Friction Composites Using Design of Experiment Approach. Advanced Science Letters, 2016, 22, 3958-3960.	0.2	0