

Tej Singh

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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.

100
papers

1,490
citations

22
h-index

33
g-index

115
ext. papers

2,059
ext. citations

2.9
avg, IF

5.76
L-index

#	Paper	IF	Citations
100	Biosynthesis, characterization and antibacterial activity of silver nanoparticles using an endophytic fungal supernatant of. <i>Journal of Genetic Engineering and Biotechnology</i> , 2017 , 15, 31-39	3.1	113
99	Optimization of tribological properties of cement kiln dust-filled brake pad using grey relation analysis. <i>Materials and Design</i> , 2016 , 89, 1335-1342	8.1	66
98	Optimization of tribo-performance of brake friction materials: Effect of nano filler. <i>Wear</i> , 2015 , 324-325, 10-16	3.5	61
97	Performance assessment of lapinusBramid based brake pad hybrid phenolic composites in friction braking. <i>Archives of Civil and Mechanical Engineering</i> , 2015 , 15, 151-161	3.4	50
96	Experimental investigation and optimization of impinging jet solar thermal collector by Taguchi method. <i>Applied Thermal Engineering</i> , 2017 , 116, 100-109	5.8	49
95	Influence of wollastonite shape and amount on tribo-performance of non-asbestos organic brake friction composites. <i>Wear</i> , 2017 , 386-387, 157-164	3.5	44
94	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	8.1	43
93	Himalayan Natural Fiber-Reinforced Epoxy Composites: Effect of Grewia optiva/Bauhinia Vahlia Fibers on Physico-mechanical and Dry Sliding Wear Behavior. <i>Journal of Natural Fibers</i> , 2021 , 18, 192-202 ^{1.8}		40
92	Hybrid entropy TOPSIS approach for energy performance prioritization in a rectangular channel employing impinging air jets. <i>Energy</i> , 2017 , 134, 360-368	7.9	37
91	Assessment of braking performance of lapinusWollastonite fibre reinforced friction composite materials. <i>Journal of King Saud University, Engineering Sciences</i> , 2017 , 29, 183-190	2.2	34
90	Waste marble dust-filled glass fiber-reinforced polymer composite Part I: Physical, thermomechanical, and erosive wear properties. <i>Polymer Composites</i> , 2019 , 40, 4113-4124	3	34
89	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	3	34
88	Impact of TQM on organisational performance: The case of Indian manufacturing and service industry. <i>Operations Research Perspectives</i> , 2018 , 5, 199-217	2.1	33
87	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	16.2	30
86	Bioceramic composites for orthopaedic applications: A comprehensive review of mechanical, biological, and microstructural properties. <i>Ceramics International</i> , 2021 , 47, 3013-3030	5.1	29
85	Fabrication of waste bagasse fiber-reinforced epoxy composites: Study of physical, mechanical, and erosion properties. <i>Polymer Composites</i> , 2019 , 40, 3777-3786	3	28
84	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	1.6	28

83	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	5.5	28
82	Agriculture waste reinforced corn starch-based biocomposites: effect of rice husk/walnut shell on physicomechanical, biodegradable and thermal properties. <i>Materials Research Express</i> , 2019 , 6, 045702	1.7	28
81	Thermo-mechanical and tribological properties of multi-walled carbon nanotubes filled friction composite materials. <i>Polymer Composites</i> , 2017 , 38, 1183-1193	3	27
80	Comparative performance assessment of pineapple and Kevlar fibers based friction composites. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1491-1499	5.5	27
79	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	3	26
78	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	8.1	22
77	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	6.1	22
76	Influence of banana fiber on physicomechanical and tribological properties of phenolic based friction composites. <i>Materials Research Express</i> , 2019 , 6, 075103	1.7	21
75	FRICITION BRAKING PERFORMANCE OF NANOFILLED HYBRID FIBER REINFORCED PHENOLIC COMPOSITES: INFLUENCE OF NANOCCLAY AND CARBON NANOTUBES. <i>Nano</i> , 2013 , 08, 1350025	1.1	20
74	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	3	19
73	Parametric study and optimization of multiwalled carbon nanotube filled friction composite materials using taguchi method. <i>Polymer Composites</i> , 2018 , 39, E1109-E1117	3	19
72	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	1.7	19
71	Selection of natural fibers based brake friction composites using hybrid ELECTRE-entropy optimization technique. <i>Polymer Testing</i> , 2020 , 89, 106614	4.5	18
70	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	1.7	18
69	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	3	17
68	Thermal stability analysis of nano-particulate-filled phenolic-based friction composite materials. <i>Journal of Industrial Textiles</i> , 2016 , 45, 1335-1349	1.6	16
67	Physico-mechanical and Surface Wear Assessment of Magnesium Oxide Filled Ceramic Composites for Hip Implant Application. <i>Silicon</i> , 2019 , 11, 39-49	2.4	16
66	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	5.5	16

65	Experimental Investigation of Influence of Process Parameters on MRR during WEDM of Al6063 alloy. <i>Materials Today: Proceedings</i> , 2017 , 4, 2242-2247	1.4	15
64	Antibacterial and anti-inflammatory activities of Cassia fistula fungal broth-capped silver nanoparticles. <i>Materials Technology</i> , 2020 , 1-11	2.1	14
63	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	1.7	14
62	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	1.6	13
61	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	1.7	13
60	Application of waste tire rubber particles in non-asbestos organic brake friction composite materials. <i>Materials Research Express</i> , 2019 , 6, 035703	1.7	13
59	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	1.7	12
58	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	1.6	11
57	A review of phase change materials (PCMs) for thermal storage in solar air heating systems. <i>Materials Today: Proceedings</i> , 2021 , 44, 4357-4363	1.4	11
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	6.1	11
55	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	4.5	10
54	Effect of Carbon Nanotubes on Tribo-Performance of Brake Friction Materials 2011 ,		9
53	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	1.7	9
52	Fabrication of Ceramic Hip Implant Composites: Influence of Silicon Nitride on Physical, Mechanical and Wear Properties. <i>Silicon</i> , 2020 , 12, 1237-1245	2.4	9
51	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	6.1	9
50	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	1.7	8
49	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	5.5	8
48	Cytotoxic and radiosensitizing potential of silver nanoparticles against HepG-2 cells prepared by biosynthetic route using Picrasma quassioides leaf extract. <i>Journal of Drug Delivery Science and Technology</i> , 2020 , 55, 101479	4.5	8

47	Effect of silica nanoparticles on physical, mechanical, and wear properties of natural fiber reinforced polymer composites. <i>Polymer Composites</i> , 2021 , 42, 2396-2407	3	8
46	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	5.6	8
45	Thermo-mechanical characterization of nano filled and fiber reinforced brake friction materials 2013 ,		7
44	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	5.1	7
43	Physical, mechanical, and thermal properties of Dalbergia sissoo wood waste-filled poly(lactic acid) composites. <i>Polymer Composites</i> , 2021 , 42, 4380-4389	3	7
42	Utilization of cement bypass dust in the development of sustainable automotive brake friction composite materials. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103324	5.9	7
41	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	3	6
40	Optimum selection of novel developed implant material using hybrid entropy-PROMETHEE approach. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019 , 50, 1232-1241	0.9	5
39	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	1	5
38	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	1.5	5
37	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	2.7	5
36	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	4.1	5
35	A hybrid multiple-criteria decision-making approach for selecting optimal automotive brake friction composite. <i>Material Design and Processing Communications</i> , 2021 , 3, e266	0.9	5
34	Polymer green composites reinforced with natural fibers: A comparative study. <i>Materials Today: Proceedings</i> , 2021 , 44, 4767-4769	1.4	5
33	Natural and Synthetic Fibers for Hybrid Composites 2020 , 1-15		4
32	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	1.3	4
31	Optimum Design of Natural Fiber Reinforced Brake Friction Material Using Hybrid Entropy-VIKOR Approach. <i>Advanced Science Letters</i> , 2016 , 22, 3961-3964	0.1	4
30	Performance Assessment of Phenolic-based Non-Asbestos Organic Brake Friction Composite Materials with Different Abrasives. <i>Acta Polytechnica Hungarica</i> , 2020 , 17, 49-67	2.2	4

29	Abrasive wear and dynamic mechanical behavior of marble dust filled bagasse fiber reinforced hybrid polymer composites. <i>Polymer Composites</i> , 2021 , 42, 2817-2828	3	4
28	Optimum design of brake friction material using hybrid entropy-GRA approach. <i>MATEC Web of Conferences</i> , 2016 , 57, 03002	0.3	4
27	Mechanical and tribological characteristics of Si ₃ N ₄ reinforced aluminium matrix composites: A short review. <i>Materials Today: Proceedings</i> , 2021 , 44, 4059-4064	1.4	4
26	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	5.6	4
25	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	2.2	3
24	Performance investigation and comparison of different turbulator shapes in solar water heating collector system 2018 ,		3
23	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	1.1	3
22	Synthesis and Characterization of Al ₂ O ₃ /r ₂ O ₃ -Based Ceramic Composites for Artificial Hip Joint. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 21-27	0.4	3
21	Thermo-mechanical characterization of nonwoven fabric reinforced polymer composites. <i>Materials Today: Proceedings</i> , 2021 , 44, 4770-4774	1.4	3
20	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	5.8	3
19	COMPUTATIONAL OPTIMIZATION OF TiO ₂ FILLED A384 ALLOY COMPOSITES IN EROSIIVE ENVIRONMENT. <i>International Journal of Computational Materials Science and Engineering</i> , 2012 , 01, 1250025	0.3	2
18	Investigation of the Thermal Performance of Solar Thermal Collector Provided with Impinging Air Jets. <i>Advanced Science Letters</i> , 2016 , 22, 3928-3932	0.1	2
17	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	0.3	2
16	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	1.4	2
15	Optimal Design of Ceramic Based Hip Implant Composites Using Hybrid AHP-MOORA Approach. <i>Materials</i> , 2022 , 15, 3800	3.5	2
14	Natural fiber reinforced brake friction composites: Optimization using hybrid AHP-MOORA approach 2019 ,		1
13	Tribo-performance evaluation of ecofriendly brake friction composite materials 2018 ,		1
12	Mechanical and thermal properties of chemically treated Kenaf natural fiber reinforced polymer composites. <i>Materials Today: Proceedings</i> , 2021 ,	1.4	1

11	Improvement of the Machining Performance of the TW-ECDM Process Using Magnetohydrodynamics (MHD) on Quartz Material. <i>Materials</i> , 2021 , 14,	3.5	1
10	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	1.4	1
9	Wear behavior of Al6061 nanocomposite reinforced with nanozirconia. <i>Materials Today: Proceedings</i> , 2021 , 48, 1112-1112	1.4	1
8	Impact of high-velocity oxy-fuel sprayed TiAlN surface coating on mechanical and slurry erosion performance of aluminium alloys. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019 , 50, 1250-1261	0.9	0
7	Nanobiology in medicine 2021 , 57-71		0
6	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> , 1	4.1	0
5	Thermal and Sliding Wear Properties of Wood Waste-Filled Poly(Lactic Acid) Biocomposites. <i>Polymers</i> , 2022 , 14, 2230	4.5	0
4	Dry Sliding Wear Assessment of Organic-Inorganic Fibre Reinforced Friction Composites Using Design of Experiment Approach. <i>Advanced Science Letters</i> , 2016 , 22, 3958-3960	0.1	
3	Potential of White Ark Shell Powder in Automotive Brake Friction Composites. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 4053-4062	1.6	
2	Tribological properties of fiber reinforced phenolic composites under sliding condition. <i>Materials Today: Proceedings</i> , 2021 , 47, 6231-6231	1.4	
1	Thermal and Thermo-Mechanical Analysis of Vinyl-Ester-Carbon/CBPD Particulate-Filled FGMS and Their Homogenous Composites. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 159-167	0.4	