

# Tej Singh

## List of Publications by Year in Descending Order

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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	Impact of artificial roughness variation on heat transfer and friction characteristics of solar air heating system. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 481-491	6.1	9
99	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> , <b>2022</b> , 209, 118250	5.8	3
98	Optimal Design of Ceramic Based Hip Implant Composites Using Hybrid AHP-MOORA Approach. <i>Materials</i> , <b>2022</b> , 15, 3800	3.5	2
97	Thermal and Sliding Wear Properties of Wood Waste-Filled Poly(Lactic Acid) Biocomposites. <i>Polymers</i> , <b>2022</b> , 14, 2230	4.5	0
96	Abrasive wear and dynamic mechanical behavior of marble dust filled bagasse fiber reinforced hybrid polymer composites. <i>Polymer Composites</i> , <b>2021</b> , 42, 2817-2828	3	4
95	Effect of silica nanoparticles on physical, mechanical, and wear properties of natural fiber reinforced polymer composites. <i>Polymer Composites</i> , <b>2021</b> , 42, 2396-2407	3	8
94	Green Synthesis of Silver Nanoparticles Using Sustainable Resources and their Use as Antibacterial Agents: A Review. <i>Current Materials Science</i> , <b>2021</b> , 14, 40-52	1.1	3
93	Mechanical and thermal properties of chemically treated Kenaf natural fiber reinforced polymer composites. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	1
92	Potential of White Ark Shell Powder in Automotive Brake Friction Composites. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 4053-4062	1.6	
91	Improvement of the Machining Performance of the TW-ECDM Process Using Magnetohydrodynamics (MHD) on Quartz Material. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
90	Tribological properties of fiber reinforced phenolic composites under sliding condition. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 6231-6231	1.4	
89	Physical, mechanical, and thermal properties of Dalbergia sissoo wood waste-filled poly(lactic acid) composites. <i>Polymer Composites</i> , <b>2021</b> , 42, 4380-4389	3	7
88	Performance analysis of different U-shaped heat exchangers in parabolic trough solar collector for air heating applications. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 25, 100949	5.6	8
87	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> , <b>2021</b> , 18, 192-202 <sup>1.8</sup>		40
86	Bioceramic composites for orthopaedic applications: A comprehensive review of mechanical, biological, and microstructural properties. <i>Ceramics International</i> , <b>2021</b> , 47, 3013-3030	5.1	29
85	Optimum insulation thickness assessment of different insulation materials for mid-latitude steppe and desert climate (BSH) region of India. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 4421-4424	1.4	1
84	Mechanical and tribological characteristics of Si <sub>3</sub> N <sub>4</sub> reinforced aluminium matrix composites: A short review. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 4059-4064	1.4	4

83	A review of phase change materials (PCMs) for thermal storage in solar air heating systems. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 4357-4363	1.4	11
82	Experimental and numerical investigation of mechanical and erosion behavior of barium sulphate filled glass fiber reinforced polymer composites. <i>Polymer Composites</i> , <b>2021</b> , 42, 753-773	3	6
81	Thermo-mechanical characterization of nonwoven fabric reinforced polymer composites. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 4770-4774	1.4	3
80	Nanobiology in medicine <b>2021</b> , 57-71		0
79	Utilization of Waste Marble Dust in Poly(Lactic Acid)-Based Biocomposites: Mechanical, Thermal and Wear Properties. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 2952-2963	4.5	10
78	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> , <b>2021</b> , 26, 101185	5.6	4
77	A hybrid multiple-criteria decision-making approach for selecting optimal automotive brake friction composite. <i>Material Design and Processing Communications</i> , <b>2021</b> , 3, e266	0.9	5
76	Wear behavior of Al6061 nanocomposite reinforced with nanozirconia. <i>Materials Today: Proceedings</i> , <b>2021</b> , 48, 1112-1112	1.4	1
75	Utilization of cement bypass dust in the development of sustainable automotive brake friction composite materials. <i>Arabian Journal of Chemistry</i> , <b>2021</b> , 14, 103324	5.9	7
74	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> , <b>2021</b> , 14, 81-92	5.5	16
73	Polymer green composites reinforced with natural fibers: A comparative study. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 4767-4769	1.4	5
72	Mechanical physical and wear properties of some oxide ceramics for hip joint application: A short review. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 4913-4918	1.4	2
71	Thermal and Thermo-Mechanical Analysis of Vinyl-Ester-Carbon/CBPD Particulate-Filled FGMS and Their Homogenous Composites. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 159-167	0.4	
70	Selection of natural fibers based brake friction composites using hybrid ELECTRE-entropy optimization technique. <i>Polymer Testing</i> , <b>2020</b> , 89, 106614	4.5	18
69	Optimal design of needlepunched nonwoven fiber reinforced epoxy composites using improved preference selection index approach. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 7583-7591	5.5	8
68	Natural and Synthetic Fibers for Hybrid Composites <b>2020</b> , 1-15		4
67	Performance Assessment of Phenolic-based Non-Asbestos Organic Brake Friction Composite Materials with Different Abrasives. <i>Acta Polytechnica Hungarica</i> , <b>2020</b> , 17, 49-67	2.2	4
66	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> , <b>2020</b> , 55, 101479	4.5	8

65	Comparative performance assessment of pineapple and Kevlar fibers based friction composites. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 1491-1499	5.5	27
64	Antibacterial and anti-inflammatory activities of Cassia fistula fungal broth-capped silver nanoparticles. <i>Materials Technology</i> , <b>2020</b> , 1-11	2.1	14
63	Experimental investigation and multi objective optimization of thermal-hydraulic performance in a solar heat collector. <i>International Journal of Thermal Sciences</i> , <b>2020</b> , 147, 106130	4.1	5
62	Fabrication of Ceramic Hip Implant Composites: Influence of Silicon Nitride on Physical, Mechanical and Wear Properties. <i>Silicon</i> , <b>2020</b> , 12, 1237-1245	2.4	9
61	Natural fiber reinforced brake friction composites: Optimization using hybrid AHP-MOORA approach <b>2019</b> ,		1
60	Experimental investigation on the physical, mechanical and tribological properties of hemp fiber-based non-asbestos organic brake friction composites. <i>Materials Research Express</i> , <b>2019</b> , 6, 085710 <sup>1.7</sup>		8
59	Waste marble dust-filled glass fiber-reinforced polymer composite Part I: Physical, thermomechanical, and erosive wear properties. <i>Polymer Composites</i> , <b>2019</b> , 40, 4113-4124	3	34
58	A novel hybrid AHP-SAW approach for optimal selection of natural fiber reinforced non-asbestos organic brake friction composites. <i>Materials Research Express</i> , <b>2019</b> , 6, 065701	1.7	12
57	Influence of banana fiber on physico-mechanical and tribological properties of phenolic based friction composites. <i>Materials Research Express</i> , <b>2019</b> , 6, 075103	1.7	21
56	Fabrication of waste bagasse fiber-reinforced epoxy composites: Study of physical, mechanical, and erosion properties. <i>Polymer Composites</i> , <b>2019</b> , 40, 3777-3786	3	28
55	Physico-mechanical and erosive wear analysis of polyester fibre-based nonwoven fabric-reinforced polymer composites. <i>Journal of Industrial Textiles</i> , <b>2019</b> , 49, 447-464	1.6	13
54	Evaluation of some mechanical characterization and optimization of waste marble dust filled glass fiber reinforced polymer composite. <i>Materials Research Express</i> , <b>2019</b> , 6, 105702	1.7	13
53	Natural fiber reinforced non-asbestos brake friction composites: Influence of ramie fiber on physico-mechanical and tribological properties. <i>Materials Research Express</i> , <b>2019</b> , 6, 115701	1.7	18
52	Optimum selection of novel developed implant material using hybrid entropy-PROMETHEE approach. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2019</b> , 50, 1232-1241	0.9	5
51	Impact of high-velocity oxy-fuel sprayed TiAlN surface coating on mechanical and slurry erosion performance of aluminium alloys. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2019</b> , 50, 1250-1261	0.9	0
50	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> , <b>2019</b> , 8, 5961-5971	5.5	28
49	Influence of dolomite on mechanical, physical and erosive wear properties of natural-synthetic fiber reinforced epoxy composites. <i>Materials Research Express</i> , <b>2019</b> , 6, 125704	1.7	9
48	Parametric Optimization of Erosive Wear Response of TiAlN-Coated Aluminium Alloy Using Taguchi Method. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 838-851	1.6	11

47	Synthesis and Characterization of Al <sub>2</sub> O <sub>3</sub> /Cr <sub>2</sub> O <sub>3</sub> -Based Ceramic Composites for Artificial Hip Joint. <i>Lecture Notes in Mechanical Engineering</i> , <b>2019</b> , 21-27	0.4	3
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> , <b>2019</b> , 6, 025704	1.7	14
45	Investigating the moderating effects of multi group on safety performance: The case of civil aviation. <i>Case Studies on Transport Policy</i> , <b>2019</b> , 7, 477-488	2.7	5
44	Agriculture waste reinforced corn starch-based biocomposites: effect of rice husk/walnut shell on physicomachanical, biodegradable and thermal properties. <i>Materials Research Express</i> , <b>2019</b> , 6, 045702	1.7	28
43	Application of waste tire rubber particles in non-asbestos organic brake friction composite materials. <i>Materials Research Express</i> , <b>2019</b> , 6, 035703	1.7	13
42	Application of hybrid analytical hierarchy process and complex proportional assessment approach for optimal design of brake friction materials. <i>Polymer Composites</i> , <b>2019</b> , 40, 1602-1608	3	26
41	Physico-mechanical and Surface Wear Assessment of Magnesium Oxide Filled Ceramic Composites for Hip Implant Application. <i>Silicon</i> , <b>2019</b> , 11, 39-49	2.4	16
40	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> , <b>2018</b> , 232, 416-428	1.3	4
39	Physico-mechanical and tribological properties of nanoclay filled friction composite materials using Taguchi design of experiment approach. <i>Polymer Composites</i> , <b>2018</b> , 39, 1575-1581	3	19
38	Selection of brake friction materials using hybrid analytical hierarchy process and vise Kriterijumska Optimizacija Kompromisno Resenje approach. <i>Polymer Composites</i> , <b>2018</b> , 39, 1655-1662	3	34
37	Exergy based modeling and optimization of solar thermal collector provided with impinging air jets. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2018</b> , 30, 355-362	2.2	3
36	Heat transfer augmentation in solar thermal collectors using impinging air jets: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 3179-3190	16.2	30
35	Parametric study and optimization of multiwalled carbon nanotube filled friction composite materials using taguchi method. <i>Polymer Composites</i> , <b>2018</b> , 39, E1109-E1117	3	19
34	Impact of TQM on organisational performance: The case of Indian manufacturing and service industry. <i>Operations Research Perspectives</i> , <b>2018</b> , 5, 199-217	2.1	33
33	Tribo-performance evaluation of ecofriendly brake friction composite materials <b>2018</b> ,		1
32	Performance investigation and comparison of different turbulator shapes in solar water heating collector system <b>2018</b> ,		3
31	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> , <b>2018</b> , 5, 105705	1.7	19
30	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> , <b>2018</b> , 57, 3043-3051	6.1	11

29	Experimental investigation and optimization of cobalt bonded tungsten carbide composite by hybrid AHP-TOPSIS approach. <i>AEJ - Alexandria Engineering Journal</i> , <b>2018</b> , 57, 3419-3428	6.1	22
28	Assessment of braking performance of lapinusWollastonite fibre reinforced friction composite materials. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2017</b> , 29, 183-190	2.2	34
27	Thermo-mechanical and tribological properties of multi-walled carbon nanotubes filled friction composite materials. <i>Polymer Composites</i> , <b>2017</b> , 38, 1183-1193	3	27
26	Optimizing discrete V obstacle parameters using a novel Entropy-VIKOR approach in a solar air flow channel. <i>Renewable Energy</i> , <b>2017</b> , 106, 310-320	8.1	22
25	Experimental investigation and optimization of impinging jet solar thermal collector by Taguchi method. <i>Applied Thermal Engineering</i> , <b>2017</b> , 116, 100-109	5.8	49
24	Developing heat transfer and pressure loss in an air passage with multi discrete V-blockages. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 84, 266-278	3	17
23	Biosynthesis, characterization and antibacterial activity of silver nanoparticles using an endophytic fungal supernatant of. <i>Journal of Genetic Engineering and Biotechnology</i> , <b>2017</b> , 15, 31-39	3.1	113
22	Experimental Investigation of Influence of Process Parameters on MRR during WEDM of Al6063 alloy. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 2242-2247	1.4	15
21	Hybrid entropy TOPSIS approach for energy performance prioritization in a rectangular channel employing impinging air jets. <i>Energy</i> , <b>2017</b> , 134, 360-368	7.9	37
20	Influence of wollastonite shape and amount on tribo-performance of non-asbestos organic brake friction composites. <i>Wear</i> , <b>2017</b> , 386-387, 157-164	3.5	44
19	Thermal stability analysis of nano-particulate-filled phenolic-based friction composite materials. <i>Journal of Industrial Textiles</i> , <b>2016</b> , 45, 1335-1349	1.6	16
18	Optimization of tribological properties of cement kiln dust-filled brake pad using grey relation analysis. <i>Materials and Design</i> , <b>2016</b> , 89, 1335-1342	8.1	66
17	Optimum Design of Natural Fiber Reinforced Brake Friction Material Using Hybrid Entropy-VIKOR Approach. <i>Advanced Science Letters</i> , <b>2016</b> , 22, 3961-3964	0.1	4
16	Dry Sliding Wear Assessment of OrganicInorganic Fibre Reinforced Friction Composites Using Design of Experiment Approach. <i>Advanced Science Letters</i> , <b>2016</b> , 22, 3958-3960	0.1	
15	Investigation of the Thermal Performance of Solar Thermal Collector Provided with Impinging Air Jets. <i>Advanced Science Letters</i> , <b>2016</b> , 22, 3928-3932	0.1	2
14	Application of silver nanoparticles synthesized fromRaphanus sativusfor catalytic degradation of organic dyes. <i>MATEC Web of Conferences</i> , <b>2016</b> , 57, 05003	0.3	2
13	Optimization of parameters in solar thermal collector provided with impinging air jets based upon preference selection index method. <i>Renewable Energy</i> , <b>2016</b> , 99, 118-126	8.1	43
12	Optimum design of brake friction material using hybrid entropy-GRA approach. <i>MATEC Web of Conferences</i> , <b>2016</b> , 57, 03002	0.3	4

11	Optimization of tribo-performance of brake friction materials: Effect of nano filler. <i>Wear</i> , <b>2015</b> , 324-325, 10-16	3.5	61
10	Performance assessment of lapinus-aramid based brake pad hybrid phenolic composites in friction braking. <i>Archives of Civil and Mechanical Engineering</i> , <b>2015</b> , 15, 151-161	3.4	50
9	Thermo-mechanical characterization of nano filled and fiber reinforced brake friction materials <b>2013</b> ,		7
8	Effect of Nanoclay Reinforcement on the Friction Braking Performance of Hybrid Phenolic Friction Composites. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 796-805	1.6	28
7	Mechanical and fracture toughness behavior of TiO <sub>2</sub> -filled A384 metal alloy composites. <i>Science and Engineering of Composite Materials</i> , <b>2013</b> , 20, 209-220	1.5	5
6	FRICION BRAKING PERFORMANCE OF NANOFILLED HYBRID FIBER REINFORCED PHENOLIC COMPOSITES: INFLUENCE OF NANOCLAY AND CARBON NANOTUBES. <i>Nano</i> , <b>2013</b> , 08, 1350025	1.1	20
5	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> , <b>2012</b> , 3, 189-214	1	5
4	COMPUTATIONAL OPTIMIZATION OF TiO <sub>2</sub> FILLED A384 ALLOY COMPOSITES IN EROSION ENVIRONMENT. <i>International Journal of Computational Materials Science and Engineering</i> , <b>2012</b> , 01, 1250025	0.3	2
3	Effect of Carbon Nanotubes on Tribo-Performance of Brake Friction Materials <b>2011</b> ,		9
2	Doping studies of Tb (terbium) and Cu (copper) on CdSe nanorods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 389, 1-5	5.1	7
1	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