Akant Kumar Singh

List of Publications by Year
in descending order

31	363	933447 10	839539 18
papers	citations	h-index	g-index

31	31	31	212
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Insights to improve the tribo-performance of materials used under slurry erosion applications: A review. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2023, 237, 3-32.	1.1	5
2	Investigations on noise emission from functionally graded materials based polymer spur gears. Materials Today: Proceedings, 2022, , .	1.8	0
3	Optimizing the performance parameters of injection-molded polymer spur gears. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 717-727.	1.1	1
4	Transmission Efficiency of Polymer Spur Gears Meshing with Polymer as Well as Metal Spur Gears. Lecture Notes in Mechanical Engineering, 2021, , 167-174.	0.4	0
5	A Comparative Analysis of Transmission Efficiency of Polyamide 66 Spur Gears Meshing with Similar and Dissimilar Gear Material. Lecture Notes in Mechanical Engineering, 2021, , 291-297.	0.4	0
6	Development and investigation on transmission efficiency of functionally graded material-based polybutylene terephthalate spur gears. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 473-489.	1.8	7
7	Investigation on laser hardened and WC-Co-Cr based HVOF coated 13Cr 4Ni martensitic stainless steel materials under erosive environment. Materials Today: Proceedings, 2020, , .	1.8	0
8	Mechanical peculiarity of nano BN filled polyester based homogeneous nanocomposites and their FGMs â€“ A comparative study. Materials Today: Proceedings, 2020, 25, 908-912.	1.8	3
9	A Comparative Study for Transmission Efficiency of ABS, POM, and HDPE Spur Gears. Lecture Notes in Mechanical Engineering, 2019, , 269-277.	0.4	4
10	Optimization of the operating parameters to minimize gear tooth wear rate and surface temperature of glass fiber filled HDPE based homogeneous and FGM gears. IOP Conference Series: Materials Science and Engineering, 2019, 691, 012004.	0.6	2
11	Thermo-mechanical and Erosion Wear Peculiarity of Hybrid Composites Filled with Micro and Nano Silicon Dioxide Fillers â€“ A Comparative Study. Silicon, 2019, 11, 1885-1901.	3.3	9
12	An investigation on the mechanical and thermal performance of a novel functionally graded materialsâ€“based thermoplastic composites. Journal of Thermoplastic Composite Materials, 2019, 32, 1691-1713.	4.2	5
13	A novel technique for inâ€situ manufacturing of functionally graded materials based polymer composite spur gears. Polymer Composites, 2019, 40, 523-535.	4.6	16
14	Mechanical and thermo-mechanical peculiarity of functionally graded materials-based glass fiber-filled polybutylene terephthalate composites. Journal of Reinforced Plastics and Composites, 2018, 37, 410-426.	3.1	5
15	Mechanical and Tribological Peculiarity of Nanoâ€TiO₂â€Augmented, Polyesterâ€Based Homogeneous Nanocomposites and Their Functionally Graded Materials. Advances in Polymer Technology, 2018, 37, 679-696.	1.7	12
16	Repercussion of manufacturing techniques on mechanical and wear peculiarity of zno particulateâ€filled polyester composites. Polymer Composites, 2018, 39, 654-667.	4.6	8
17	Evaluation of Mechanical and Erosive wear Characteristics of TiO2 and ZnO Filled Bi-Directional E-glass Fiber Based Vinyl Ester Composites. Silicon, 2018, 10, 309-327.	3.3	24
18	Polymer spur gears behaviors under different loading conditions: A review. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2018, 232, 210-228.	1.8	60

#	Article	IF	Citations
19	An investigation on the thermal and wear behavior of polymer based spur gears. Tribology International, 2018, 118, 264-272.	5.9	76
20	Thermal and Wear Behavior of Glass Fiber-Filled Functionally Graded Material-Based Polyamide 66 Spur Gears Manufactured by a Novel Technique. Journal of Tribology, 2018, 140, 021601.	1.9	12
21	Noise Emission from ABS, POM and HDPE Spur Gears - A Comparative Study. Materials Today: Proceedings, 2018, 5, 18038-18044.	1.8	13
22	Noise Emission form Functionally Graded Materials based Polypropylene Spur Gears - A Tribological Investigation. Materials Today: Proceedings, 2018, 5, 8199-8205.	1.8	13
23	A Novel Technique for Manufacturing Polypropylene Based Functionally Graded Materials. International Polymer Processing, 2018, 33, 197-205.	0.5	10
24	Exploring the Possibility of Utilization of Red Mud Epoxy Based Functionally Graded Materials as Wear-Resistant Materials Using Taguchi Design of Experiment. Advances in Polymer Technology, 2017, 36, 5-22.	1.7	10
25	Investigation of subâ€micron size cenosphere fillers and filler loading on the mechanical and tribological peculiarity of polyester composites. Polymers for Advanced Technologies, 2017, 28, 1764-1777.	3.2	4
26	An investigation on the effects of the various techniques over the performance and durability of polymer gears. Materials Today: Proceedings, 2017, 4, 1606-1614.	1.8	23
27	Assessment of mechanical and three-body abrasive wear peculiarity of TiO2- and ZnO-filled bi-directional E-glass fibre-based polyester composites. Bulletin of Materials Science, 2016, 39, 971-988.	1.7	9
28	Mechanical and dry sliding wear characterization of short glass fiber reinforced polyester-based homogeneous and their functionally graded composite materials. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2015, 229, 274-298.	1.1	8
29	Repercussion of Cenosphere Filler Size on Mechanical and Dry Sliding Wear Peculiarity of Glass Fiber-Reinforced Polyester Composites Using Taguchi Analysis and Neural Network. International Polymer Processing, 2015, 30, 403-421.	0.5	4
30	Wear Peculiarity of TiO2 Filled Polyester-Based Homogeneous Composites and their Functionally Graded Materials Using Taguchi Methodology and ANN. Materials Today: Proceedings, 2015, 2, 2718-2727.	1.8	5
31	Leverage of cenosphere filler size on mechanical and dry sliding wear peculiarity of polyester composites. Journal of Composite Materials, 2015, 49, 2789-2802.	2.4	15