

Akant Kumar Singh

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

363
citations

933447

10
h-index

839539

18
g-index

31
all docs

31
docs citations

31
times ranked

212
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation on the thermal and wear behavior of polymer based spur gears. Tribology International, 2018, 118, 264-272.	5.9	76
2	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
3	Evaluation of Mechanical and Erosive wear Characteristics of TiO ₂ and ZnO Filled Bi-Directional E-glass Fiber Based Vinyl Ester Composites. Silicon, 2018, 10, 309-327.	3.3	24
4	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
5	A novel technique for in-situ manufacturing of functionally graded materials based polymer composite spur gears. Polymer Composites, 2019, 40, 523-535.	4.6	16
6	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
7	Noise Emission from ABS, POM and HDPE Spur Gears - A Comparative Study. Materials Today: Proceedings, 2018, 5, 18038-18044.	1.8	13
8	Noise Emission form Functionally Graded Materials based Polypropylene Spur Gears - A Tribological Investigation. Materials Today: Proceedings, 2018, 5, 8199-8205.	1.8	13
9	Mechanical and Tribological Peculiarity of Nano-TiO ₂ Augmented, Polyester Based Homogeneous Nanocomposites and Their Functionally Graded Materials. Advances in Polymer Technology, 2018, 37, 679-696.	1.7	12
10	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
11	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
12	A Novel Technique for Manufacturing Polypropylene Based Functionally Graded Materials. International Polymer Processing, 2018, 33, 197-205.	0.5	10
13	Assessment of mechanical and three-body abrasive wear peculiarity of TiO ₂ - and ZnO-filled bi-directional E-glass fibre-based polyester composites. Bulletin of Materials Science, 2016, 39, 971-988.	1.7	9
14	Thermo-mechanical and Erosion Wear Peculiarity of Hybrid Composites Filled with Micro and Nano Silicon Dioxide Fillers – A Comparative Study. Silicon, 2019, 11, 1885-1901.	3.3	9
15	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
16	Repercussion of manufacturing techniques on mechanical and wear peculiarity of zno particulate-filled polyester composites. Polymer Composites, 2018, 39, 654-667.	4.6	8
17	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
18	Wear Peculiarity of TiO ₂ 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

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19	Mechanical and thermo-mechanical peculiarity of functionally graded materials-based glass fiber-filled polybutylene terephthalate composites. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 410-426.	3.1	5
20	An investigation on the mechanical and thermal performance of a novel functionally graded materials-based thermoplastic composites. <i>Journal of Thermoplastic Composite Materials</i> , 2019, 32, 1691-1713.	4.2	5
21	Insights to improve the tribo-performance of materials used under slurry erosion applications: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2023, 237, 3-32.	1.1	5
22	Repercussion of Cenosphere Filler Size on Mechanical and Dry Sliding Wear Peculiarity of Glass Fiber-Reinforced Polyester Composites Using Taguchi Analysis and Neural Network. <i>International Polymer Processing</i> , 2015, 30, 403-421.	0.5	4
23	Investigation of sub-micron size cenosphere fillers and filler loading on the mechanical and tribological peculiarity of polyester composites. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1764-1777.	3.2	4
24	A Comparative Study for Transmission Efficiency of ABS, POM, and HDPE Spur Gears. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 269-277.	0.4	4
25	Mechanical peculiarity of nano BN filled polyester based homogeneous nanocomposites and their FGMs – A comparative study. <i>Materials Today: Proceedings</i> , 2020, 25, 908-912.	1.8	3
26	Optimization of the operating parameters to minimize gear tooth wear rate and surface temperature of glass fiber filled HDPE based homogeneous and FGM gears. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 691, 012004.	0.6	2
27	Optimizing the performance parameters of injection-molded polymer spur gears. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 717-727.	1.1	1
28	Investigation on laser hardened and WC-Co-Cr based HVOF coated 13Cr 4Ni martensitic stainless steel materials under erosive environment. <i>Materials Today: Proceedings</i> , 2020, , .	1.8	0
29	Transmission Efficiency of Polymer Spur Gears Meshing with Polymer as Well as Metal Spur Gears. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 167-174.	0.4	0
30	A Comparative Analysis of Transmission Efficiency of Polyamide 66 Spur Gears Meshing with Similar and Dissimilar Gear Material. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 291-297.	0.4	0
31	Investigations on noise emission from functionally graded materials based polymer spur gears. <i>Materials Today: Proceedings</i> , 2022, , .	1.8	0