

P. Ramkumar

List of Publications by Year in descending order

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23
papers

216
citations

1040056

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23
all docs

23
docs citations

23
times ranked

130
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective optimization of the two-stage helical gearbox with tribological constraints. Mechanism and Machine Theory, 2019, 138, 38-57.	4.5	36
2	Macro geometry multi-objective optimization of planetary gearbox considering scuffing constraint. Mechanism and Machine Theory, 2020, 154, 104045.	4.5	19
3	DLC coating over pre-oxidized and textured Ti6Al4V for superior adhesion and tribo-performance of hip implant. Surface and Coatings Technology, 2022, 440, 128492.	4.8	18
4	Feasibility study of micro-groove cross hatched surface texturing on Ti6Al4V for improved biotribological performance in metal-on-polymer hip implant. Tribology - Materials, Surfaces and Interfaces, 2019, 13, 150-160.	1.4	17
5	Replication of white etching area evolution using novel modified dynamic load pin-on-disc tribometer on bearing steel. Tribology International, 2018, 126, 336-343.	5.9	15
6	Comprehensive analysis of effects of dynamic load frequency and hydrogenation to instigate White Etching Areas (WEAs) formation under severe sliding condition of bearing steel. Tribology International, 2020, 144, 106131.	5.9	15
7	Finite element method based sliding wear prediction of steel-on-steel contacts using extrapolation techniques. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2019, 233, 1446-1463.	1.8	12
8	Electrostatic monitoring of the effects of carbon black on lubricated steel/steel sliding contacts. Tribology and Interface Engineering Series, 2005, , 109-121.	0.0	11
9	Effect of additives on a surface textured piston ring-cylinder liner system. Tribology - Materials, Surfaces and Interfaces, 2019, 13, 67-75.	1.4	10
10	Synergistic effect of surface texturing and coating on the friction between piston ring and cylinder liner contact. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 1298-1311.	1.8	10
11	Effect of friction modifiers compositions on tribological properties of Cu-Sn alloy/Al ₂ O ₃ brake composite material. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 1541-1550.	1.8	9
12	The Effect of Diesel Engine Oil Contamination on Friction and Wear. , 2005, , 537.		8
13	Comprehensive analysis of geometrical parameters of crosshatched texture for enhanced tribological performance under biological environment. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 434-452.	1.8	7
14	Improved oxygen diffusion and overall surface characteristics using combined laser surface texturing and heat treatment process of Ti6Al4V. Surface and Coatings Technology, 2022, 429, 127976.	4.8	7
15	Multi-Objective Optimization of Spur Gearbox with Inclusion of Tribological Aspects. Journal of Friction and Wear, 2017, 38, 430-436.	0.5	6
16	Factorial study of diesel engine oil contamination effects on steel and ceramic sliding contacts. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2019, 233, 726-740.	1.8	6
17	Comparing Wettability and Frictional Performance of Laser Micro-machined Discrete and Continuous Textures. Lecture Notes in Mechanical Engineering, 2021, , 185-192.	0.4	4
18	3-D FEM Wear Prediction of Brass Sliding against Bearing Steel Using Constant Contact Pressure Approximation Technique. Tribology Online, 2019, 14, 194-207.	0.9	3

#	ARTICLE	IF	CITATIONS
19	Research on tribological performance of piston ring/liner conjunction considering non-Gaussian roughness and cavitation. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2023, 237, 732-745.	1.8	2
20	Experimental investigation on the performance of AISI 440C martensitic stainless steel against the formation of white etching areas under sliding dynamic loading. Tribology - Materials, Surfaces and Interfaces, 2022, 16, 57-67.	1.4	1
21	Effect of soot on tribological properties of steel and ceramic contacts. International Journal of Materials and Structural Integrity, 2019, 13, 172.	0.1	0
22	Design and Analysis of Glass Fibre Reinforced Composite Based Two Stage Gearbox. Advanced Science, Engineering and Medicine, 2018, 10, 323-327.	0.3	0
23	Effect of Elevated Temperature on Tribological Properties of Steel, Silicon Nitride and Zirconia Against Steel. Advanced Science, Engineering and Medicine, 2018, 10, 434-439.	0.3	0