

Homer Rahnejat

List of Publications by Year in descending order

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papers

635
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623188

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citing authors

#	ARTICLE	IF	CITATIONS
1	Transient non-Newtonian elastohydrodynamics of rough meshing hypoid gear teeth subjected to complex contact kinematics. <i>Tribology International</i> , 2022, 167, 107398.	3.0	2
2	Non-Newtonian Thermo-Elastohydrodynamics and Sub-Surface Stress Field of High-Performance Racing Spur Gears. <i>Lubricants</i> , 2022, 10, 146.	1.2	9
3	Asperity level frictional interactions of cylinder bore materials and lubricant composition. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2021, 235, 679-686.	1.0	1
4	A Critical Review of Approaches to the Design of Floating-Liner Apparatus for Instantaneous Piston Assembly Friction Measurement. <i>Lubricants</i> , 2021, 9, 10.	1.2	1
5	Transient Nanoscale Tribofilm Growth: Analytical Prediction and Measurement. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5890.	1.3	2
6	Fundamentals and Advances in Elastohydrodynamics: The Role of Ramsey Gohar. <i>Lubricants</i> , 2021, 9, 120.	1.2	3
7	Transient Analysis of Isothermal Elastohydrodynamic Point Contacts under Complex Kinematics of Combined Rolling, Spinning and Normal Approach. <i>Lubricants</i> , 2020, 8, 81.	1.2	7
8	Analytical Elastostatic Contact Mechanics of Highly-Loaded Contacts of Varying Conformity. <i>Lubricants</i> , 2020, 8, 89.	1.2	9
9	Tribology and Dowson. <i>Lubricants</i> , 2020, 8, 63.	1.2	4
10	Viscoelastic Finite Line Contact of Thin Bonded Layered Solids of Low Elastic Modulus. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3363.	1.3	2
11	Performance of Poly Alpha Olefin Nanolubricant. <i>Lubricants</i> , 2020, 8, 17.	1.2	11
12	Lubricated Loaded Tooth Contact Analysis and Non-Newtonian Thermoelastohydrodynamics of High-Performance Spur Gear Transmission Systems. <i>Lubricants</i> , 2020, 8, 20.	1.2	13
13	Transient thermal analysis of mixed-elastohydrodynamic contact of high performance transmission in a dry sump environment. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019, 233, 326-338.	1.0	9
14	Efficiency of disengaged wet brake packs. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 1562-1569.	1.1	6
15	Atomic force microscopic measurement of a used cylinder liner for prediction of boundary friction. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 1879-1889.	1.1	7
16	Thermal conductivity and molecular heat transport of nanofluids. <i>RSC Advances</i> , 2019, 9, 2516-2524.	1.7	25
17	Integrated Thermal and Dynamic Analysis of Dry Automotive Clutch Linings. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4287.	1.3	11
18	On the dynamics of a nonlinear energy harvester with multiple resonant zones. <i>Nonlinear Dynamics</i> , 2018, 92, 1271-1286.	2.7	39

#	ARTICLE	IF	CITATIONS
19	Heat generation and transfer in automotive dry clutch engagement. Journal of Zhejiang University: Science A, 2018, 19, 175-188.	1.3	24
20	Effect of mesh phasing on the transmission efficiency and dynamic performance of wheel hub planetary gear sets. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 3469-3481.	1.1	26
21	Effect of Shaft Surface Roughness on the Performance of Radial Lip Seals. Lubricants, 2018, 6, 99.	1.2	14
22	Combined Analytical and Experimental Evaluation of Frictional Performance of Lubricated Untextured and Partially Textured Sliders. Lubricants, 2018, 6, 88.	1.2	8
23	Optimisation of the piston compression ring for improved energy efficiency of high performance race engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2017, 231, 1806-1817.	1.1	16
24	Optimisation of the vehicle transmission and the gear-shifting strategy for the minimum fuel consumption and the minimum nitrogen oxide emissions. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2017, 231, 883-899.	1.1	31
25	Broadband energy harvesting from parametric vibrations of a class of nonlinear Mathieu systems. Applied Physics Letters, 2017, 110, .	1.5	44
26	Effect of teeth micro-geometrical form modification on contact kinematics and efficiency of high performance transmissions. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2017, 231, 538-555.	0.5	23
27	Lubrication analysis and sub-surface stress field of an automotive differential hypoid gear pair under dynamic loading. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 1183-1197.	1.1	19
28	In-cycle and life-time friction transience in piston ringâ€“liner conjunction under mixed regime of lubrication. International Journal of Engine Research, 2014, 15, 862-876.	1.4	85
29	Reducing in-cylinder parasitic losses through surface modification and coating. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 391-402.	1.1	51
30	Transient mixed non-Newtonian thermo-elastohydrodynamics of vehicle differential hypoid gears with starved partial counter-flow inlet boundary. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2014, 228, 1159-1173.	1.0	22
31	Transient elastohydrodynamic lubrication of rough new or worn piston compression ring conjunction with an out-of-round cylinder bore. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 284-305.	1.0	79
32	Elastohydrodynamic lubrication of hypoid gear pairs at high loads. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 183-198.	1.0	32