Xi-qun Lu

List of Publications by Year
in descending order

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28	360	840776 11	839539 18
papers	citations	h-index	g-index

29	29	29	289
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Piston ring oil film thickness measurements in a four-stroke diesel engine during steady-state, start-up and shut-down. International Journal of Engine Research, 2023, 24, 1499-1514.	2.3	3
2	An improved contact model considered the effect of boundary lubrication regime on piston ring-liner contact for the two-stroke marine engines from the perspective of the Stribeck curve. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 2602-2616.	2.1	5
3	Tribo-dynamic analysis for aero ball bearing with 3D measured surface roughness. Engineering Failure Analysis, 2022, 131, 105848.	4.0	9
4	Lubrication characteristics of the slipperâ€“swash-plate interface in a swash-plate-type axial piston pump. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 639-651.	2.1	8
5	Lubrication analysis for the piston ring of a two-stroke marine diesel engine taking account of the oil supply. International Journal of Engine Research, 2021, 22, 949-962.	2.3	24
6	Predictions of friction and flash temperature in marine gears based on a 3D line contact mixed lubrication model considering measured surface roughness. Journal of Central South University, 2021, 28, 1570-1583.	3.0	4
7	Lubrication analysis of the piston ring of a two-stroke marine diesel engine considering thermal effects. Engineering Failure Analysis, 2021, 129, 105659.	4.0	18
8	Mixed thermal elastohydrodynamic lubrication analysis with dynamic performance of aero ball bearing during start-up and shut-down. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 873-886.	1.8	8
9	Numerical and Experimental Analysis of the Honing Texture on the Lubrication Performance of Piston Ringâ€“Cylinder Liner Tribosystem. Tribology Transactions, 2019, 62, 991-1006.	2.0	16
10	Three-dimensional mixed lubrication analysis of spur gears with machined roughness. Tribology International, 2019, 140, 105864.	5.9	40
11	Sliding Interaction for Coated Asperity with Power-Law Hardening Elastic-Plastic Coatings. Materials, 2019, 12, 2388.	2.9	1
12	A Modified Johnsonâ€“Cook Constitutive Model for the Compressive Flow Behaviors of the SnSbCu Alloy at High Strain Rates. Journal of Materials Engineering and Performance, 2019, 28, 6958-6968.	2.5	15
13	A Comparative Study on Johnson Cook, Modified Zerilliâ€“Armstrong, and Arrhenius-Type Constitutive Models to Predict Compression Flow Behavior of SnSbCu Alloy. Materials, 2019, 12, 1726.	2.9	19
14	Frictional behaviors in piston ring-cylinder liner system of diesel engine with solid particles considered. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2019, 233, 1345-1360.	1.8	7
15	Contact behaviors of a power-law hardening elasticâ€“plastic asperity with soft coating flattened by a rigid flat. International Journal of Mechanical Sciences, 2019, 152, 400-410.	6.7	19
16	Piston surface design to improve the lubrication performance of a swash plate pump. Tribology International, 2019, 132, 275-285.	5.9	22
17	Contact Behaviors of Coated Asperity with Power-Law Hardening Elasticâ€“Plastic Substrate During Loading and Unloading Process. International Journal of Applied Mechanics, 2018, 10, 1850034.	2.2	7
18	A transient hydrodynamic lubrication model for piston/cylinder interface of variable length. Tribology International, 2018, 118, 227-239.	5.9	16

#	Article	IF	Citations
19	Effect of Hardening Exponent of Power-Law Hardening Elastic-Plastic Substrate on Contact Behaviors in Coated Asperity Contact. Materials, 2018, 11, 1965.	2.9	8
20	Online measurement of torsional stiffness and fault analysis for flexible coupling under working condition. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 3175-3182.	2.1	0
21	Numerical Analysis and Experimental Evaluation of Cylinder Liner Macro-Scale Surface Texturing. , 2015, , .		3
22	A mixed-lubrication model considering elastoplastic contact for a piston ring and application to a ring pack. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 174-188.	1.9	43
23	Effect of Cylinder Liner Oil Grooves Shape on Two-Stroke Marine Diesel Engine's Piston Ring Friction Force. Advances in Mechanical Engineering, 2015, 7, 837960.	1.6	9
24	Tribological effect of piston ring pack on the crankshaft torsional vibration of diesel engine. International Journal of Engine Research, 2015, 16, 908-921.	2.3	3
25	Mobility Method Applied to Calculate the Lubrication Properties of Bearing under Dynamic Loads. ISRN Mechanical Engineering, 2013, 2013, 1-5.	0.9	1
26	Highly-dispersive electromagnetic induced transparency in planar symmetric metamaterials. Optics Express, 2012, 20, 17581.	3.4	51
27	Analysis of Tribological Performance of Piston Ring Lubrication. , 2011, , .		1
28	Macro-texture in hydrodynamic lubrication: Effects of dimple parameter, density and distribution. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622210875.	2.1	0