

Xi-qun Lu

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

360
citations

840776

11
h-index

839539

18
g-index

29
all docs

29
docs citations

29
times ranked

289
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly-dispersive electromagnetic induced transparency in planar symmetric metamaterials. <i>Optics Express</i> , 2012, 20, 17581.	3.4	51
2	A mixed-lubrication model considering elastoplastic contact for a piston ring and application to a ring pack. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015, 229, 174-188.	1.9	43
3	Three-dimensional mixed lubrication analysis of spur gears with machined roughness. <i>Tribology International</i> , 2019, 140, 105864.	5.9	40
4	Lubrication analysis for the piston ring of a two-stroke marine diesel engine taking account of the oil supply. <i>International Journal of Engine Research</i> , 2021, 22, 949-962.	2.3	24
5	Piston surface design to improve the lubrication performance of a swash plate pump. <i>Tribology International</i> , 2019, 132, 275-285.	5.9	22
6	A Comparative Study on Johnson Cook, Modified Zerilliâ€“Armstrong, and Arrhenius-Type Constitutive Models to Predict Compression Flow Behavior of SnSbCu Alloy. <i>Materials</i> , 2019, 12, 1726.	2.9	19
7	Contact behaviors of a power-law hardening elasticâ€“plastic asperity with soft coating flattened by a rigid flat. <i>International Journal of Mechanical Sciences</i> , 2019, 152, 400-410.	6.7	19
8	Lubrication analysis of the piston ring of a two-stroke marine diesel engine considering thermal effects. <i>Engineering Failure Analysis</i> , 2021, 129, 105659.	4.0	18
9	A transient hydrodynamic lubrication model for piston/cylinder interface of variable length. <i>Tribology International</i> , 2018, 118, 227-239.	5.9	16
10	Numerical and Experimental Analysis of the Honing Texture on the Lubrication Performance of Piston Ringâ€“Cylinder Liner Tribosystem. <i>Tribology Transactions</i> , 2019, 62, 991-1006.	2.0	16
11	A Modified Johnsonâ€“Cook Constitutive Model for the Compressive Flow Behaviors of the SnSbCu Alloy at High Strain Rates. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6958-6968.	2.5	15
12	Effect of Cylinder Liner Oil Grooves Shape on Two-Stroke Marine Diesel Engine's Piston Ring Friction Force. <i>Advances in Mechanical Engineering</i> , 2015, 7, 837960.	1.6	9
13	Tribo-dynamic analysis for aero ball bearing with 3D measured surface roughness. <i>Engineering Failure Analysis</i> , 2022, 131, 105848.	4.0	9
14	Effect of Hardening Exponent of Power-Law Hardening Elastic-Plastic Substrate on Contact Behaviors in Coated Asperity Contact. <i>Materials</i> , 2018, 11, 1965.	2.9	8
15	Mixed thermal elastohydrodynamic lubrication analysis with dynamic performance of aero ball bearing during start-up and shut-down. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2020, 234, 873-886.	1.8	8
16	Lubrication characteristics of the slipperâ€“swash-plate interface in a swash-plate-type axial piston pump. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 639-651.	2.1	8
17	Contact Behaviors of Coated Asperity with Power-Law Hardening Elasticâ€“Plastic Substrate During Loading and Unloading Process. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850034.	2.2	7
18	Frictional behaviors in piston ring-cylinder liner system of diesel engine with solid particles considered. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019, 233, 1345-1360.	1.8	7

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19	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
20	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
21	Numerical Analysis and Experimental Evaluation of Cylinder Liner Macro-Scale Surface Texturing. , 2015, , .		3
22	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
23	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
24	Analysis of Tribological Performance of Piston Ring Lubrication. , 2011, , .		1
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	Sliding Interaction for Coated Asperity with Power-Law Hardening Elastic-Plastic Coatings. Materials, 2019, 12, 2388.	2.9	1
27	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
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