

Zhiwei Guo

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,191
citations

361045

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h-index

433756

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61
all docs

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docs citations

61
times ranked

505
citing authors

#	ARTICLE	IF	CITATIONS
1	Tribological behavior of co-textured cylinder liner-piston ring during running-in. <i>Friction</i> , 2022, 10, 878-890.	3.4	20
2	A review of online condition monitoring and maintenance strategy for cylinder liner-piston rings of diesel engines. <i>Mechanical Systems and Signal Processing</i> , 2022, 165, 108385.	4.4	45
3	Feasibility study of an integrated air source heat pump water heater/chillers and exhaust gas boiler heating system for swimming pool on luxury cruise ship. <i>Energy Reports</i> , 2022, 8, 1260-1282.	2.5	6
4	Application of Bionic Tribology in Water-Lubricated Bearing: A Review. <i>Journal of Bionic Engineering</i> , 2022, 19, 902-934.	2.7	21
5	A Novel Finding of Tribological and Mechanical Linking to Micro-Convex Texture on Hydrophilic Composites Surface under Water-Lubricating Conditions. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	1
6	A comprehensive review on the material performance affected by gaseous alternative fuels in internal combustion engines. <i>Engineering Failure Analysis</i> , 2022, 139, 106507.	1.8	8
7	Study on the mechanical properties and defect detection of low alloy steel weldments for large cruise ships. <i>Ocean Engineering</i> , 2022, 258, 111815.	1.9	10
8	Insight into water lubrication performance of polyetheretherketone. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49701.	1.3	8
9	Designing soft/hard double network hydrogel microsphere/UHMWPE composites to promote water lubrication performance. <i>Friction</i> , 2021, 9, 551-568.	3.4	18
10	Study on tribological properties of a novel composite by filling microcapsules into UHMWPE matrix for water lubrication. <i>Tribology International</i> , 2021, 153, 106629.	3.0	29
11	A strategy that combines a hydrogel and graphene oxide to improve the water-lubricated performance of ultrahigh molecular weight polyethylene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 141, 106207.	3.8	25
12	Insight into the tribological performance of polyurethane composites under high temperature water lubrication. <i>Tribology International</i> , 2021, 155, 106784.	3.0	21
13	A Novel Hydrophilic PVA Fiber Reinforced Thermoplastic Polyurethane Materials for Water-lubricated Stern Bearing. <i>Fibers and Polymers</i> , 2021, 22, 171-183.	1.1	9
14	Effect of Material Hardness on Water Lubrication Performance of Thermoplastic Polyurethane under Sediment Environment. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 7532-7541.	1.2	11
15	Effect of polyester fiber orientation on the tribological properties of ultrahigh molecular weight polyethylene composites for water lubrication. <i>Tribology International</i> , 2021, 158, 106935.	3.0	10
16	Effects of spherical-platform texture parameters on the tribological performance of water-lubricated bearings. <i>Wear</i> , 2021, 477, 203863.	1.5	23
17	Tribological behaviors of composites reinforced by different functionalized carbon nanotube using molecular dynamic simulation. <i>Wear</i> , 2021, 476, 203669.	1.5	23
18	Friction and wear behaviours of polyacrylamide hydrogel microsphere/UHMWPE composite under water lubrication. <i>Wear</i> , 2021, 477, 203841.	1.5	12

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19	Effects of textured cylinder liner piston ring on performances of diesel engine under hot engine tests. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 146, 111193.	8.2	23
20	Effect of weld defects on the mechanical properties of stainless-steel weldments on large cruise ship. <i>Ocean Engineering</i> , 2021, 235, 109385.	1.9	8
21	An Improved Failure Risk Assessment Method for Bilge System of the Large Luxury Cruise Ship under Fire Accident Conditions. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 957.	1.2	6
22	Molecular dynamics simulation study of wear-resistant mechanism of UHMWPE composites reinforced by CNTs with different configuration directions. <i>Materials Today Communications</i> , 2021, 28, 102541.	0.9	5
23	An experimental study on tribological properties and air tightness of co-textured cylinder liner-piston ring on an engine tester. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 015005.	0.9	7
24	Effect of modified glass fiber on tribological performance of water-lubricated bearing. <i>Polymer Testing</i> , 2020, 81, 106153.	2.3	12
25	Investigating the water lubrication characteristics of sisal fiber reinforced ultrahigh molecular weight polyethylene material. <i>Polymer Composites</i> , 2020, 41, 5269-5280.	2.3	4
26	Development of modified polyacrylonitrile fibers for improving tribological performance characteristics of thermoplastic polyurethane material in water-lubricated sliding bearings. <i>Polymers for Advanced Technologies</i> , 2020, 31, 3258-3271.	1.6	5
27	Friction properties of polyacrylamide hydrogel particle/HDPE composite under water lubrication. <i>Polymer</i> , 2019, 180, 121703.	1.8	24
28	Influence of Surface Groove Width on Tribological Performance for Cylinder Liner-Piston Ring Components. <i>Tribology Transactions</i> , 2019, 62, 239-248.	1.1	17
29	Effects of MoS ₂ microencapsulation on the tribological properties of a composite material in a water-lubricated condition. <i>Wear</i> , 2019, 432-433, 102919.	1.5	29
30	Friction reduction and viscosity modification of cellulose nanocrystals as biolubricant additives in polyalphaolefin oil. <i>Carbohydrate Polymers</i> , 2019, 220, 228-235.	5.1	51
31	Influence of polyethylene wax on wear resistance for polyurethane composite material under low speed water-lubricated conditions. <i>Wear</i> , 2019, 426-427, 1008-1017.	1.5	28
32	Study on influence of micro convex textures on tribological performances of UHMWPE material under the water-lubricated conditions. <i>Wear</i> , 2019, 426-427, 1327-1335.	1.5	48
33	Effects of thread groove width in cylinder liner surface on performances of diesel engine. <i>Wear</i> , 2019, 426-427, 1296-1303.	1.5	23
34	Tribological behavior of polymer composites functionalized with various microcapsule core materials. <i>Wear</i> , 2019, 426-427, 853-861.	1.5	27
35	Effect of crosslink on tribological performance of polyurethane bearing material. <i>Tribology International</i> , 2019, 136, 276-284.	3.0	23
36	Effect of spherical-convex surface texture on tribological performance of water-lubricated bearing. <i>Tribology International</i> , 2019, 134, 341-351.	3.0	41

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37	Effect of grooved cylinder liner depths on the tribological performances of cylinder liner-piston ring. <i>Industrial Lubrication and Tribology</i> , 2019, 72, 465-471.	0.6	3
38	Effects of different surface grooved cylinder liner on the tribological performance for cylinder liner-piston ring components. <i>Industrial Lubrication and Tribology</i> , 2019, 72, 581-588.	0.6	6
39	The influence of different surface textures on wears in cylinder liner piston rings. <i>Surface Topography: Metrology and Properties</i> , 2019, 7, 045011.	0.9	9
40	Study on influence of Koch snowflake surface texture on tribological performance for marine water-lubricated bearings. <i>Tribology International</i> , 2019, 129, 29-37.	3.0	62
41	Tribological behavior of aged UHMWPE under water-lubricated condition. <i>Tribology International</i> , 2019, 133, 1-11.	3.0	45
42	Study on the tribological properties of modified polyurethane material for water-lubricated stern bearing. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46305.	1.3	14
43	Experimental Study on Wear Performance and Oil Film Characteristics of Surface Textured Cylinder Liner in Marine Diesel Engine. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2018, 31, .	1.9	26
44	Surface texture processing for tribological performance improvement of UHMWPE-based water-lubricated bearings. <i>Industrial Lubrication and Tribology</i> , 2018, 70, 1341-1349.	0.6	14
45	Effects of different grain sized sands on wear behaviours of NBR/casting copper alloys. <i>Wear</i> , 2017, 384-385, 185-191.	1.5	44
46	Study on tribological properties of novel biomimetic material for water-lubricated stern tube bearing. <i>Wear</i> , 2017, 376-377, 911-919.	1.5	67
47	3D Surface Characterizations of Wear Particles Generated from Lubricated Regular Concave Cylinder Liners. <i>Tribology Letters</i> , 2014, 55, 131-142.	1.2	13
48	Study on Influence of Cylinder Liner Surface Texture on Lubrication Performance for Cylinder Liner-Piston Ring Components. <i>Tribology Letters</i> , 2013, 51, 9-23.	1.2	65
49	Marine CM: Condition identification of the cylinder liner-piston ring in a marine diesel engine using bispectrum analysis and artificial neural networks. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2013, 55, 621-626.	0.3	7
50	A New Intelligent Fusion Method of Multi-Dimensional Sensors and Its Application to Tribo-System Fault Diagnosis of Marine Diesel Engines. <i>Tribology Letters</i> , 2012, 47, 1-15.	1.2	58
51	Study on Identification Model of Cylinder Liner-Piston Ring Using Vibration Analysis Based on Fuzzy C-means Clustering. <i>The Open Mechanical Engineering Journal</i> , 2012, 6, 126-132.	0.3	7
52	Condition Monitoring and Fault Diagnosis for Marine Diesel Engines using Information Fusion Techniques. <i>Elektronika Ir Elektrotehnika</i> , 2012, 123, .	0.4	18
53	Effects of large process structure of cylinder liner on friction of cylinder liner-piston ring. , 2011, , .		0
54	Recent Progress on Mechanical Condition Monitoring and Fault Diagnosis. <i>Procedia Engineering</i> , 2011, 15, 142-146.	1.2	32

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55	Application Research of Classical and Advanced Filtering Techniques in Condition Monitoring and Fault Diagnosis. <i>Procedia Engineering</i> , 2011, 15, 183-187.	1.2	2
56	Expert Weight Allocation for Diesel Engine Condition Identification Based on Entropy Theory and Fuzzy Logic. , 2011, , .		0
57	Effects of solid lubricants on the tribological behavior of steel-backed UHMWPE fabric composites. <i>Journal of Applied Polymer Science</i> , 0, , 51674.	1.3	4
58	Insight into friction and lubrication performances of surface-textured cylinder liners and piston rings. <i>International Journal of Engine Research</i> , 0, , 146808742110502.	1.4	3
59	Anti-friction and self-repairing abilities of ultrafine serpentine, attapulgite and kaolin in oil for the cylinder liner-piston ring tribo-systems. <i>Lubrication Science</i> , 0, , .	0.9	7
60	Tribological Properties of Aramid Fiber-Microcapsule Modified Ultra-high Molecular Weight Polyethylene Composites for Water Lubrication. <i>Journal of Materials Engineering and Performance</i> , 0, , 1.	1.2	2
61	An Investigation into Water Lubrication Performance of UHMWPE Reinforced with Oriented Polyester Fiber of Different Densities. <i>Fibers and Polymers</i> , 0, , 1.	1.1	2