

Chengqing Yuan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87

papers

961

citations

17

h-index

27

g-index

103

ext. papers

1,363

ext. citations

3.2

avg, IF

4.87

L-index

#	Paper	IF	Citations
87	Tribological behavior of cellulose nanocrystal as an eco-friendly additive in lithium-based greases.. <i>Carbohydrate Polymers</i> , 2022 , 290, 119478	10.3	0
86	Preparation of Degradable Superhydrophobic Mg/P/Z/F/H Composite Materials and Their Anticorrosion. <i>Coatings</i> , 2021 , 11, 1239	2.9	0
85	Investigation of ionic liquids with and without graphene as lubricant additive for metal/metal and metal/PEEK contacts over a wide temperature range. <i>Lubrication Science</i> , 2021 , 33, 100-111	1.3	2
84	Evaluation of Thermal Oxidative Degradation of Trimethylolpropane Trioleate by TG/DTA/DSC. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2021 , 36, 280-288	1	
83	Review of condition monitoring and fault diagnosis for marine power systems. <i>Transportation Safety and Environment</i> , 2021 , 3, 85-102	2.6	6
82	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	1.6	2
81	Experimental and molecular dynamics simulation study of chemically stable superhydrophobic surfaces. <i>Surface and Coatings Technology</i> , 2021 , 418, 127236	4.4	1
80	The evaluating on EEDI and fuel consumption of an inland river 800PCC integrated with solar photovoltaic system. <i>Journal of Marine Engineering and Technology</i> , 2021 , 20, 77-92	1.3	7
79	Insight into water lubrication performance of polyetheretherketone. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49701	2.9	2
78	Designing soft/hard double network hydrogel microsphere/UHMWPE composites to promote water lubrication performance. <i>Friction</i> , 2021 , 9, 551-568	5.6	10
77	Corrosion behaviors of carbon steel induced by life activities of <i>Phaeodactylum tricornutum</i> in a marine environment. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021 , 72, 1065-1075	1.6	2
76	Insight into the tribological performance of polyurethane composites under high temperature water lubrication. <i>Tribology International</i> , 2021 , 155, 106784	4.9	6
75	Fabrication of biomimetic slippery liquid-infused porous surface on 5086 aluminum alloy with excellent antifouling performance. <i>Surface and Interface Analysis</i> , 2021 , 53, 147-155	1.5	4
74	Faulted Feeder Identification Based on Active Adjustment of Arc Suppression Coil and Similarity Measure of Zero-Sequence Currents. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	4
73	A Novel Hydrophilic PVA Fiber Reinforced Thermoplastic Polyurethane Materials for Water-lubricated Stern Bearing. <i>Fibers and Polymers</i> , 2021 , 22, 171-183	2	1
72	Combining topography and peptide to inhibit algae attachment: Preparation of peptide-modified microstructured surfaces. <i>Surface and Interface Analysis</i> , 2021 , 53, 973	1.5	0
71	Effects of marine environment on electrical output characteristics of PV module. <i>Journal of Renewable and Sustainable Energy</i> , 2021 , 13, 053701	2.5	2

70	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	2.4	1
69	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	1.5	4
68	Antibacterial properties of Magainin II peptide onto 304 stainless steel surfaces: A comparison study of two dopamine modification methods. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 194, 111198	6	8
67	Synthesis of magnetic nanoparticles with an IDA or TED modified surface for purification and immobilization of poly-histidine tagged proteins.. <i>RSC Advances</i> , 2020 , 10, 11524-11534	3.7	5
66	Performance Analysis of Cavitation Erosion Resistance and Corrosion Behavior of HVOF-Sprayed WC-10Co-4Cr, WC-12Co, and Cr3C2-NiCr Coatings. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 798-810	2.5	9
65	Deposition and cavitation erosion behavior of multimodal WC-10Co4Cr coatings sprayed by HVOF. <i>Surface and Coatings Technology</i> , 2020 , 392, 125757	4.4	17
64	Investigating the water lubrication characteristics of sisal fiber reinforced ultrahigh-molecular-weight polyethylene material. <i>Polymer Composites</i> , 2020 , 41, 5269-5280	3	1
63	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	3.2	2
62	A novel approach to reduce deformation behaviors of HDPE polymer during friction. <i>Applied Surface Science</i> , 2020 , 503, 144311	6.7	11
61	Haloperoxidase Mimicry by CeO2 Nanorods of Different Aspect Ratios for Antibacterial Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6744-6752	8.3	21
60	Vibration and Noise Behaviors During Stick-Slip Friction. <i>Tribology Letters</i> , 2019 , 67, 1	2.8	21
59	Friction properties of polyacrylamide hydrogel particle/HDPE composite under water lubrication. <i>Polymer</i> , 2019 , 180, 121703	3.9	12
58	Role of trapped air and lubricant in the interactions between fouling and SiO nanoparticle surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 184, 110502	6	4
57	Effects of Cobalt Content on the Microstructure, Mechanical Properties and Cavitation Erosion Resistance of HVOF Sprayed Coatings. <i>Coatings</i> , 2019 , 9, 534	2.9	16
56	Rippled Polymer Surface Generated by Stick-Slip Friction. <i>Langmuir</i> , 2019 , 35, 2878-2884	4	11
55	Influence of Surface Groove Width on Tribological Performance for Cylinder Liner-Piston Ring Components. <i>Tribology Transactions</i> , 2019 , 62, 239-248	1.8	9
54	Effects of MoS2 microencapsulation on the tribological properties of a composite material in a water-lubricated condition. <i>Wear</i> , 2019 , 432-433, 102919	3.5	19
53	Friction reduction and viscosity modification of cellulose nanocrystals as biolubricant additives in polyalphaolefin oil. <i>Carbohydrate Polymers</i> , 2019 , 220, 228-235	10.3	26

52	Stainless steel coated by Cu NPs via dopamine coupling for antifouling application. <i>Surface and Interface Analysis</i> , 2019 , 51, 809-816	1.5	2
51	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	3.5	15
50	Optimal configuration of battery energy storage systems using for rooftop residential photovoltaic to improve voltage profile of distributed network. <i>Journal of Engineering</i> , 2019 , 2019, 728-732	0.7	8
49	Effect of crosslink on tribological performance of polyurethane bearing material. <i>Tribology International</i> , 2019 , 136, 276-284	4.9	8
48	Magnetic immobilization of a quorum sensing signal hydrolase, AiiA. <i>MicrobiologyOpen</i> , 2019 , 8, e00797	3.4	6
47	The application of hybrid photovoltaic system on the ocean-going ship: engineering practice and experimental research. <i>Journal of Marine Engineering and Technology</i> , 2019 , 18, 56-66	1.3	5
46	Effects of Typical Physical Properties on Tribological Behaviors of Three Kinds of Polymer Materials for Water-Lubricated Bearings. <i>Tribology Transactions</i> , 2019 , 62, 1019-1028	1.8	5
45	Preparation of Superhydrophobic Steel Surfaces with Chemical Stability and Corrosion. <i>Coatings</i> , 2019 , 9, 398	2.9	15
44	Effect of spherical-convex surface texture on tribological performance of water-lubricated bearing. <i>Tribology International</i> , 2019 , 134, 341-351	4.9	23
43	Integrating SCESS into a Ship-PV Power System to Mitigate Power Fluctuations and Improve LVRT Capability. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 6769-6781	2.5	3
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	2.9	8
41	Insight into tribological problems of green ship and corresponding research progresses. <i>Friction</i> , 2018 , 6, 472-483	5.6	22
40	A biofilm resistance surface yielded by grafting of antimicrobial peptides on stainless steel surface. <i>Surface and Interface Analysis</i> , 2018 , 50, 516-521	1.5	14
39	Power Quality Analysis for Ship-Photovoltaic Power System: A Case Study. <i>Electric Power Components and Systems</i> , 2018 , 46, 1375-1386	1	4
38	Microstructure and Cavitation Erosion Resistance of HVOF Deposited WC-Co Coatings with Different Sized WC. <i>Coatings</i> , 2018 , 8, 307	2.9	29
37	Coupling Plant-Derived Cyclotides to Metal Surfaces: An Antibacterial and Antibiofilm Study. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	19
36	Peptide-modified stainless steel with resistance capacity of Staphylococcus aureus biofilm formation. <i>Surface and Interface Analysis</i> , 2018 , 50, 1362-1369	1.5	5
35	A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 1-17	7.3	65

34	Investigating relationship between deformation behaviours and stick-slip phenomena of polymer material. <i>Wear</i> , 2017 , 376-377, 1333-1338	3.5	27
33	Study on tribological properties of novel biomimetic material for water-lubricated stern tube bearing. <i>Wear</i> , 2017 , 376-377, 911-919	3.5	40
32	Coupling mechanism between wear and oxidation processes of 304 stainless steel in hydrogen peroxide environments. <i>Scientific Reports</i> , 2017 , 7, 2327	4.9	4
31	A optimization method used for sailing route of solar ship 2017 ,		2
30	Optimal configuration of energy storage system based on frequency hierarchical control in ship power system with solar photovoltaic plant. <i>Journal of Engineering</i> , 2017 , 2017, 1511-1514	0.7	3
29	Tribological Properties of Water-lubricated Rubber Materials after Modification by MoS Nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 35023	4.9	48
28	A new remote intelligent diagnosis system for marine diesel engines based on an improved multi-kernel algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2015 , 229, 604-611	0.8	1
27	Review on the application and research progress of photovoltaics-ship power system 2015 ,		3
26	Reliability model based on stress-strength interference for marine propulsion shafting 2015 ,		1
25	Theoretical model research on I-V characteristics of solar cell under the marine environment 2015 ,		1
24	Study on wear behaviour and wear model of nitrile butadiene rubber under water lubricated conditions. <i>RSC Advances</i> , 2014 , 4, 19034-19042	3.7	28
23	3D Surface Characterizations of Wear Particles Generated from Lubricated Regular Concave Cylinder Liners. <i>Tribology Letters</i> , 2014 , 55, 131-142	2.8	12
22	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	2.8	54
21	Assessment model for tribological property of ceramic/stainless steel rubbing pairs in H ₂ O ₂ solution. <i>Science China Technological Sciences</i> , 2013 , 56, 3017-3023	3.5	6
20	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	1.3	5
19	Remote Fault Diagnosis System for Marine Power Machinery System 2013 , 292-311		
18	Remote Fault Diagnosis System for Marine Power Machinery System 2013 , 2174-2192		
17	Study on tribological and electrochemistry properties of metal materials in H ₂ O ₂ solutions. <i>Frontiers of Mechanical Engineering</i> , 2012 , 7, 93-98	3.3	1

16	Intelligent fault diagnosis method for marine diesel engines using instantaneous angular speed. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 2413-2423	1.6	66
15	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	2.8	45
14	Fault detection and diagnosis of a gearbox in marine propulsion systems using bispectrum analysis and artificial neural networks. <i>Journal of Marine Science and Application</i> , 2011 , 10, 17-24	1.2	60
13	Study on fatigue life evaluation of water lubricated rubber stern tube bearing 2011 ,		2
12	Study on tribological properties of Al ₂ O ₃ ceramics/1Cr18Ni9Ti stainless steel rubbing pairs in H ₂ O ₂ solutions. <i>Lubrication Science</i> , 2011 , 23, 41-48	1.3	6
11	A New Method of Nonlinear Feature Extraction for Multi-Fault Diagnosis of Rotor Systems. <i>Noise and Vibration Worldwide</i> , 2010 , 41, 29-37	0.8	10
10	A Fault Diagnosis Approach for Gears Using Multidimensional Features and Intelligent Classifier. <i>Noise and Vibration Worldwide</i> , 2010 , 41, 76-86	0.8	16
9	Discussion of key technology for safety of overweight/oversize cargoesWoad transportation 2009 ,		1
8	Numerical surface characterization of wear debris from artificial joints using atomic force microscopy. <i>Science Bulletin</i> , 2009 , 54, 4583-4588	10.6	10
7	Insight into friction and lubrication performances of surface-textured cylinder liners and piston rings. <i>International Journal of Engine Research</i> ,146808742110502	2.7	0
6	Tribological behavior of co-textured cylinder liner-piston ring during running-in. <i>Friction</i> ,1	5.6	3
5	Effects of solid lubricants on the tribological behavior of steel-backed UHMWPE fabric composites. <i>Journal of Applied Polymer Science</i> ,51674	2.9	1
4	Application of Bionic Tribology in Water-Lubricated Bearing: A Review. <i>Journal of Bionic Engineering</i> ,1	2.7	0
3	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> ,2100844	2.9	4
2	An Investigation into Water Lubrication Performance of UHMWPE Reinforced with Oriented Polyester Fiber of Different Densities. <i>Fibers and Polymers</i> ,1	2	
1	Friction reduction behavior of oil-infused natural wood. <i>Friction</i> ,1	5.6	0