

# Chengqing Yuan

## List of Publications by Citations

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87  
papers

961  
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h-index

27  
g-index

103  
ext. papers

1,363  
ext. citations

3.2  
avg, IF

4.87  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 87 | Intelligent fault diagnosis method for marine diesel engines using instantaneous angular speed. <i>Journal of Mechanical Science and Technology</i> , <b>2012</b> , 26, 2413-2423                            | 1.6  | 66        |
| 86 | A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 1-17                                      | 7.3  | 65        |
| 85 | 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> , <b>2011</b> , 10, 17-24 | 1.2  | 60        |
| 84 | Study on Influence of Cylinder Liner Surface Texture on Lubrication Performance for Cylinder Liner Piston Ring Components. <i>Tribology Letters</i> , <b>2013</b> , 51, 9-23                                 | 2.8  | 54        |
| 83 | Tribological Properties of Water-lubricated Rubber Materials after Modification by MoS Nanoparticles. <i>Scientific Reports</i> , <b>2016</b> , 6, 35023   | 4.9  | 48        |
| 82 | 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> , <b>2012</b> , 47, 1-15                 | 2.8  | 45        |
| 81 | Study on tribological properties of novel biomimetic material for water-lubricated stern tube bearing. <i>Wear</i> , <b>2017</b> , 376-377, 911-919  | 3.5  | 40        |
| 80 | Microstructure and Cavitation Erosion Resistance of HVOF Deposited WC-Co Coatings with Different Sized WC. <i>Coatings</i> , <b>2018</b> , 8, 307  | 2.9  | 29        |
| 79 | Study on wear behaviour and wear model of nitrile butadiene rubber under water lubricated conditions. <i>RSC Advances</i> , <b>2014</b> , 4, 19034-19042   | 3.7  | 28        |
| 78 | Investigating relationship between deformation behaviours and stick-slip phenomena of polymer material. <i>Wear</i> , <b>2017</b> , 376-377, 1333-1338   | 3.5  | 27        |
| 77 | Friction reduction and viscosity modification of cellulose nanocrystals as biolubricant additives in polyalphaolefin oil. <i>Carbohydrate Polymers</i> , <b>2019</b> , 220, 228-235                          | 10.3 | 26        |
| 76 | Effect of spherical-convex surface texture on tribological performance of water-lubricated bearing. <i>Tribology International</i> , <b>2019</b> , 134, 341-351  | 4.9  | 23        |
| 75 | Insight into tribological problems of green ship and corresponding research progresses. <i>Friction</i> , <b>2018</b> , 6, 472-483   | 5.6  | 22        |
| 74 | Vibration and Noise Behaviors During Stick-Slip Friction. <i>Tribology Letters</i> , <b>2019</b> , 67, 1   | 2.8  | 21        |
| 73 | Haloperoxidase Mimicry by CeO <sub>2</sub> Nanorods of Different Aspect Ratios for Antibacterial Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6744-6752                  | 8.3  | 21        |
| 72 | Effects of MoS <sub>2</sub> microencapsulation on the tribological properties of a composite material in a water-lubricated condition. <i>Wear</i> , <b>2019</b> , 432-433, 102919                           | 3.5  | 19        |
| 71 | Coupling Plant-Derived Cyclotides to Metal Surfaces: An Antibacterial and Antibiofilm Study. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,  | 6.3  | 19        |

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|----|---|------|----|
| 70 | Deposition and cavitation erosion behavior of multimodal WC-10Co4Cr coatings sprayed by HVOF. <i>Surface and Coatings Technology</i> , <b>2020</b> , 392, 125757  | 4.4  | 17 |
| 69 | Effects of Cobalt Content on the Microstructure, Mechanical Properties and Cavitation Erosion Resistance of HVOF Sprayed Coatings. <i>Coatings</i> , <b>2019</b> , 9, 534   | 2.9  | 16 |
| 68 | A Fault Diagnosis Approach for Gears Using Multidimensional Features and Intelligent Classifier. <i>Noise and Vibration Worldwide</i> , <b>2010</b> , 41, 76-86   | 0.8  | 16 |
| 67 | Influence of polyethylene wax on wear resistance for polyurethane composite material under low speed water-lubricated conditions. <i>Wear</i> , <b>2019</b> , 426-427, 1008-1017                                      | 3.5  | 15 |
| 66 | Preparation of Superhydrophobic Steel Surfaces with Chemical Stability and Corrosion. <i>Coatings</i> , <b>2019</b> , 9, 398  | 2.9  | 15 |
| 65 | A biofilm resistance surface yielded by grafting of antimicrobial peptides on stainless steel surface. <i>Surface and Interface Analysis</i> , <b>2018</b> , 50, 516-521  | 1.5  | 14 |
| 64 | Friction properties of polyacrylamide hydrogel particle/HDPE composite under water lubrication. <i>Polymer</i> , <b>2019</b> , 180, 121703  | 3.9  | 12 |
| 63 | 3D Surface Characterizations of Wear Particles Generated from Lubricated Regular Concave Cylinder Liners. <i>Tribology Letters</i> , <b>2014</b> , 55, 131-142  | 2.8  | 12 |
| 62 | Rippled Polymer Surface Generated by Stick-Slip Friction. <i>Langmuir</i> , <b>2019</b> , 35, 2878-2884   | 4    | 11 |
| 61 | A novel approach to reduce deformation behaviors of HDPE polymer during friction. <i>Applied Surface Science</i> , <b>2020</b> , 503, 144311  | 6.7  | 11 |
| 60 | Numerical surface characterization of wear debris from artificial joints using atomic force microscopy. <i>Science Bulletin</i> , <b>2009</b> , 54, 4583-4588   | 10.6 | 10 |
| 59 | A New Method of Nonlinear Feature Extraction for Multi-Fault Diagnosis of Rotor Systems. <i>Noise and Vibration Worldwide</i> , <b>2010</b> , 41, 29-37   | 0.8  | 10 |
| 58 | Designing soft/hard double network hydrogel microsphere/UHMWPE composites to promote water lubrication performance. <i>Friction</i> , <b>2021</b> , 9, 551-568  | 5.6  | 10 |
| 57 | Influence of Surface Groove Width on Tribological Performance for Cylinder Liner Piston Ring Components. <i>Tribology Transactions</i> , <b>2019</b> , 62, 239-248  | 1.8  | 9  |
| 56 | 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> , <b>2020</b> , 29, 798-810    | 2.5  | 9  |
| 55 | Optimal configuration of battery energy storage systems using for rooftop residential photovoltaic to improve voltage profile of distributed network. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 728-732     | 0.7  | 8  |
| 54 | Effect of crosslink on tribological performance of polyurethane bearing material. <i>Tribology International</i> , <b>2019</b> , 136, 276-284   | 4.9  | 8  |
| 53 | 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> , <b>2020</b> , 194, 111198 | 6    | 8  |

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|----|--|-----|---|
| 52 | Study on the tribological properties of modified polyurethane material for water-lubricated stern bearing. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46305  | 2.9 | 8 |
| 51 | 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> , <b>2021</b> , 20, 77-92   | 1.3 | 7 |
| 50 | Magnetic immobilization of a quorum sensing signal hydrolase, AiiA. <i>MicrobiologyOpen</i> , <b>2019</b> , 8, e00797  | 3.4 | 6 |
| 49 | Assessment model for tribological property of ceramic/stainless steel rubbing pairs in H <sub>2</sub> O <sub>2</sub> solution. <i>Science China Technological Sciences</i> , <b>2013</b> , 56, 3017-3023   | 3.5 | 6 |
| 48 | Study on tribological properties of Al <sub>2</sub> O <sub>3</sub> ceramics/1Cr18Ni9Ti stainless steel rubbing pairs in H <sub>2</sub> O <sub>2</sub> solutions. <i>Lubrication Science</i> , <b>2011</b> , 23, 41-48                                  | 1.3 | 6 |
| 47 | Review of condition monitoring and fault diagnosis for marine power systems. <i>Transportation Safety and Environment</i> , <b>2021</b> , 3, 85-102  | 2.6 | 6 |
| 46 | Insight into the tribological performance of polyurethane composites under high temperature water lubrication. <i>Tribology International</i> , <b>2021</b> , 155, 106784  | 4.9 | 6 |
| 45 | Synthesis of magnetic nanoparticles with an IDA or TED modified surface for purification and immobilization of poly-histidine tagged proteins.. <i>RSC Advances</i> , <b>2020</b> , 10, 11524-11534  | 3.7 | 5 |
| 44 | The application of hybrid photovoltaic system on the ocean-going ship: engineering practice and experimental research. <i>Journal of Marine Engineering and Technology</i> , <b>2019</b> , 18, 56-66   | 1.3 | 5 |
| 43 | Effects of Typical Physical Properties on Tribological Behaviors of Three Kinds of Polymer Materials for Water-Lubricated Bearings. <i>Tribology Transactions</i> , <b>2019</b> , 62, 1019-1028  | 1.8 | 5 |
| 42 | 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> , <b>2013</b> , 55, 621-626 | 1.3 | 5 |
| 41 | Peptide-modified stainless steel with resistance capacity of Staphylococcus aureus biofilm formation. <i>Surface and Interface Analysis</i> , <b>2018</b> , 50, 1362-1369  | 1.5 | 5 |
| 40 | Role of trapped air and lubricant in the interactions between fouling and SiO nanoparticle surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 184, 110502   | 6   | 4 |
| 39 | Coupling mechanism between wear and oxidation processes of 304 stainless steel in hydrogen peroxide environments. <i>Scientific Reports</i> , <b>2017</b> , 7, 2327  | 4.9 | 4 |
| 38 | Fabrication of biomimetic slippery liquid-infused porous surface on 5086 aluminum alloy with excellent antifouling performance. <i>Surface and Interface Analysis</i> , <b>2021</b> , 53, 147-155  | 1.5 | 4 |
| 37 | 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> , <b>2021</b> , 1-1  | 4.3 | 4 |
| 36 | Power Quality Analysis for Ship-Photovoltaic Power System: A Case Study. <i>Electric Power Components and Systems</i> , <b>2018</b> , 46, 1375-1386  | 1   | 4 |
| 35 | 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> , <b>2021</b> , 9, 015005  | 1.5 | 4 |

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|----|--|-----|---|
| 34 | Review on the application and research progress of photovoltaics-ship power system <b>2015</b> ,   |     | 3 |
| 33 | Optimal configuration of energy storage system based on frequency hierarchical control in ship power system with solar photovoltaic plant. <i>Journal of Engineering</i> , <b>2017</b> , 2017, 1511-1514   | 0.7 | 3 |
| 32 | Tribological behavior of co-textured cylinder liner-piston ring during running-in. <i>Friction</i> ,1  | 5.6 | 3 |
| 31 | Integrating SCESS into a Ship-PV Power System to Mitigate Power Fluctuations and Improve LVRT Capability. <i>Arabian Journal for Science and Engineering</i> , <b>2019</b> , 44, 6769-6781   | 2.5 | 3 |
| 30 | Stainless steel coated by Cu NPs via dopamine coupling for antifouling application. <i>Surface and Interface Analysis</i> , <b>2019</b> , 51, 809-816  | 1.5 | 2 |
| 29 | A optimization method used for sailing route of solar ship <b>2017</b> ,   |     | 2 |
| 28 | Study on fatigue life evaluation of water lubricated rubber stern tube bearing <b>2011</b> ,   |     | 2 |
| 27 | 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> , <b>2021</b> , 33, 100-111   | 1.3 | 2 |
| 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> , <b>2020</b> , 31, 3258-3271 | 3.2 | 2 |
| 25 | Effect of Material Hardness on Water Lubrication Performance of Thermoplastic Polyurethane under Sediment Environment. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 7532-7541   | 1.6 | 2 |
| 24 | Insight into water lubrication performance of polyetheretherketone. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49701   | 2.9 | 2 |
| 23 | 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> , <b>2021</b> , 72, 1065-1075  | 1.6 | 2 |
| 22 | Effects of marine environment on electrical output characteristics of PV module. <i>Journal of Renewable and Sustainable Energy</i> , <b>2021</b> , 13, 053701   | 2.5 | 2 |
| 21 | 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> , <b>2015</b> , 229, 604-611         | 0.8 | 1 |
| 20 | Study on tribological and electrochemistry properties of metal materials in H <sub>2</sub> O <sub>2</sub> solutions. <i>Frontiers of Mechanical Engineering</i> , <b>2012</b> , 7, 93-98   | 3.3 | 1 |
| 19 | Reliability model based on stress-strength interference for marine propulsion shafting <b>2015</b> ,   |     | 1 |
| 18 | Theoretical model research on I-V characteristics of solar cell under the marine environment <b>2015</b> ,   |     | 1 |
| 17 | Discussion of key technology for safety of overweight/oversize cargoesWood transportation <b>2009</b> ,  |     | 1 |

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|----|--|------|---|
| 16 | Investigating the water lubrication characteristics of sisal fiber reinforced ultrahigh-molecular-weight polyethylene material. <i>Polymer Composites</i> , <b>2020</b> , 41, 5269-5280                        | 3    | 1 |
| 15 | Experimental and molecular dynamics simulation study of chemically stable superhydrophobic surfaces. <i>Surface and Coatings Technology</i> , <b>2021</b> , 418, 127236  | 4.4  | 1 |
| 14 | A Novel Hydrophilic PVA Fiber Reinforced Thermoplastic Polyurethane Materials for Water-lubricated Stern Bearing. <i>Fibers and Polymers</i> , <b>2021</b> , 22, 171-183                                       | 2    | 1 |
| 13 | 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 |
| 12 | 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> , <b>2021</b> , 9, 957            | 2.4  | 1 |
| 11 | 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 |
| 10 | Preparation of Degradable Superhydrophobic Mg/P/Z/F/H Composite Materials and Their Anticorrosion. <i>Coatings</i> , <b>2021</b> , 11, 1239  | 2.9  | 0 |
| 9  | Combining topography and peptide to inhibit algae attachment: Preparation of peptide-modified microstructured surfaces. <i>Surface and Interface Analysis</i> , <b>2021</b> , 53, 973                          | 1.5  | 0 |
| 8  | Application of Bionic Tribology in Water-Lubricated Bearing: A Review. <i>Journal of Bionic Engineering</i> , 1  | 2.7  | 0 |
| 7  | Friction reduction behavior of oil-infused natural wood. <i>Friction</i> , 1   | 5.6  | 0 |
| 6  | Tribological behavior of cellulose nanocrystal as an eco-friendly additive in lithium-based greases.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 290, 119478   | 10.3 | 0 |
| 5  | Remote Fault Diagnosis System for Marine Power Machinery System <b>2013</b> , 292-311  |      |   |
| 4  | Remote Fault Diagnosis System for Marine Power Machinery System <b>2013</b> , 2174-2192  |      |   |
| 3  | Evaluation of Thermal Oxidative Degradation of Trimethylolpropane Trioleate by TG/DTA/DSC. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2021</b> , 36, 280-288                | 1    |   |
| 2  | 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 | 3.9  | 1 |
| 1  | An Investigation into Water Lubrication Performance of UHMWPE Reinforced with Oriented Polyester Fiber of Different Densities. <i>Fibers and Polymers</i> , 1  | 2    |   |