

# Xiaojian Xu

## 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.

63

papers

938

citations

15

h-index

29

g-index

68

ext. papers

1,196

ext. citations

2.7

avg, IF

4.58

L-index

#	Paper	IF	Citations
63	HF-Based Sensorless Control of a FTPMM in Ship Shaftless Rim-Driven Thruster System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-11	6.1	2
62	Structural stress analysis of hybrid heat exchangers in the S-CO <sub>2</sub> power cycle for marine waste heat recovery. <i>Thermal Science</i> , <b>2022</b> , 68-68	1.2	
61	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
60	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
59	Ultrasonic measurement of lubricant film thickness distribution of journal bearing. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 065111	1.7	1
58	Analysis of maritime transport accidents using Bayesian networks. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , <b>2020</b> , 234, 439-454	0.8	6
57	A Mutual Information-Based Bayesian Network Model for Consequence Estimation of Navigational Accidents in the Yangtze River. <i>Journal of Navigation</i> , <b>2020</b> , 73, 559-580	2.3	8
56	Controlling a cargo ship without human experience using deep Q-network. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2020</b> , 39, 7363-7379	1.6	3
55	A novel ship energy efficiency model considering random environmental parameters. <i>Journal of Marine Engineering and Technology</i> , <b>2020</b> , 19, 215-228	1.3	8
54	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
53	Thermal Hydraulic Performance Analysis of PCHE Precooler for Supercritical CO <sub>2</sub> Brayton Cycle <b>2019</b> ,		1
52	Rollover risk assessment and automated control for heavy duty vehicles based on vehicle-to-infrastructure information. <i>IET Intelligent Transport Systems</i> , <b>2019</b> , 13, 1001-1010	2.4	7
51	Effect of perturbation amplitudes on water film stiffness coefficients of water-lubricated plain journal bearings based on CFD/BSI methods. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2019</b> , 233, 1003-1015	1.4	4
50	Insight into tribological problems of green ship and corresponding research progresses. <i>Friction</i> , <b>2018</b> , 6, 472-483	5.6	22
49	Multi-objective path planning for unmanned surface vehicle with currents effects. <i>ISA Transactions</i> , <b>2018</b> , 75, 137-156	5.5	95
48	Risk influencing factors analysis of Arctic maritime transportation systems: a Chinese perspective. <i>Maritime Policy and Management</i> , <b>2018</b> , 45, 439-455	2.5	23
47	Optimizing ship energy efficiency: Application of particle swarm optimization algorithm. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , <b>2018</b> , 232, 379-391	0.4	9

46	Resilience in transportation systems: a systematic review and future directions. <i>Transport Reviews</i> , <b>2018</b> , 38, 479-498	9.9	104
45	A Fuzzy Logic Energy Management Strategy for a Photovoltaic/Diesel/Battery Hybrid Ship Based on Experimental Database. <i>Energies</i> , <b>2018</b> , 11, 2211	3.1	28
44	Clustering of the inland waterway navigational environment and its effects on ship energy consumption. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , <b>2017</b> , 231, 57-69	0.4	1
43	Analysis of the operational ship energy efficiency considering navigation environmental impacts. <i>Journal of Marine Engineering and Technology</i> , <b>2017</b> , 16, 150-159	1.3	13
42	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
41	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
40	The energy management and optimization strategy for fuel cell hybrid ships <b>2017</b> ,		4
39	Tribological Properties of Water-lubricated Rubber Materials after Modification by MoS Nanoparticles. <i>Scientific Reports</i> , <b>2016</b> , 6, 35023	4.9	48
38	Numerical and experimental analysis of coupled transverse and longitudinal vibration of a marine propulsion shaft. <i>Journal of Mechanical Science and Technology</i> , <b>2016</b> , 30, 5405-5412	1.6	13
37	Effectiveness of maritime safety control in different navigation zones using a spatial sequential DEA model: Yangtze River case. <i>Accident Analysis and Prevention</i> , <b>2015</b> , 81, 232-42	6.1	28
36	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
35	Major issues associated with maritime security and piracy study <b>2015</b> ,		1
34	Design of ship energy efficiency monitoring and control system considering environmental factors <b>2015</b> ,		2
33	Contribution of wind forces to rollover stability of heavy duty vehicle <b>2015</b> ,		3
32	Reliability model based on stress-strength interference for marine propulsion shafting <b>2015</b> ,		1
31	Evaluation of the effectiveness of auditory speeding warnings for commercial passenger vehicles: a field study in Wuhan, China. <i>IET Intelligent Transport Systems</i> , <b>2015</b> , 9, 467-476	2.4	6
30	Theoretical model research on I-V characteristics of solar cell under the marine environment <b>2015</b> ,		1
29	Safety management performance assessment for Maritime Safety Administration (MSA) by using generalized belief rule base methodology. <i>Safety Science</i> , <b>2014</b> , 63, 157-167	5.8	35

28	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
27	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
26	Optimal Ramp Metering Control for Weaving Segments Considering Dynamic Weaving Capacity Estimation. <i>Journal of Transportation Engineering</i> , <b>2014</b> , 140, 04014057		10
25	Challenges and Developments in Navigational Risk Assessment With Large Uncertainty <b>2014</b> ,		4
24	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
23	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
22	The Hardware-in-the-loop Simulator: A Mechatronic Testbed for Cooperative Vehicles Maneuvers. <i>International Journal of Intelligent Transportation Systems Research</i> , <b>2013</b> , 11, 11-22	1.4	6
21	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
20	Remote Fault Diagnosis System for Marine Power Machinery System <b>2013</b> , 292-311		
19	Remote Fault Diagnosis System for Marine Power Machinery System <b>2013</b> , 2174-2192		
18	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
17	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
16	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
15	Ship electric propulsion with a sensorless permanent magnet synchronous motor: A simulation study. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , <b>2012</b> , 226, 378-386	0.4	2
14	The influence of concave dimples on the metallic counterface on the wear of ultra-high molecular weight polyethylene. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2012</b> , 226, 455-462	1.4	13
13	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
12	Study on fatigue life evaluation of water lubricated rubber stern tube bearing <b>2011</b> ,		2
11	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

10	Application of Formal Safety Assessment to Navigational Risk Evaluation of Yangtze River <b>2011</b> ,		5
9	Study on remote fault diagnosis system using multi monitoring methods on dredger <b>2010</b> ,		2
8	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
7	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
6	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
5	Severity Analyses of Single-Vehicle Crashes Based on Rough Set Theory <b>2009</b> ,		2
4	A Multiclass, Multimode Traffic Assignment Model Considering Emission under Various Engine Operating Modes <b>2008</b> ,		1
3	Traffic Data Collection System Based on Floating Cars and its Application in Shanghai <b>2007</b> ,		3
2	Research on Multi-agent System Model of Diesel Engine Fault Diagnosis by Case-Based Reasoning		3
1	Structural Assessment of Printed Circuit Heat Exchangers in Supercritical CO <sub>2</sub> Waste Heat Recovery Systems for Ship Applications. <i>Journal of Thermal Science</i> ,1	1.9	1