

Xiaojian Xu

List of Publications by Year in descending order

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68
papers

1,474
citations

471477

17
h-index

330122

37
g-index

68
all docs

68
docs citations

68
times ranked

1242
citing authors

#	ARTICLE	IF	CITATIONS
1	Resilience in transportation systems: a systematic review and future directions. <i>Transport Reviews</i> , 2018, 38, 479-498.	8.8	218
2	Multi-objective path planning for unmanned surface vehicle with currents effects. <i>ISA Transactions</i> , 2018, 75, 137-156.	5.7	154
3	A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 656-672.	9.3	112
4	Intelligent fault diagnosis method for marine diesel engines using instantaneous angular speed. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2413-2423.	1.5	82
5	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.	1.7	76
6	Tribological Properties of Water-lubricated Rubber Materials after Modification by MoS ₂ Nanoparticles. <i>Scientific Reports</i> , 2016, 6, 35023.	3.3	66
7	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.	2.6	65
8	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.	2.6	58
9	A Fuzzy Logic Energy Management Strategy for a Photovoltaic/Diesel/Battery Hybrid Ship Based on Experimental Database. <i>Energies</i> , 2018, 11, 2211.	3.1	47
10	Safety management performance assessment for Maritime Safety Administration (MSA) by using generalized belief rule base methodology. <i>Safety Science</i> , 2014, 63, 157-167.	4.9	43
11	Effectiveness of maritime safety control in different navigation zones using a spatial sequential DEA model: Yangtze River case. <i>Accident Analysis and Prevention</i> , 2015, 81, 232-242.	5.7	40
12	Insight into tribological problems of green ship and corresponding research progresses. <i>Friction</i> , 2018, 6, 472-483.	6.4	40
13	Risk influencing factors analysis of Arctic maritime transportation systems: a Chinese perspective. <i>Maritime Policy and Management</i> , 2018, 45, 439-455.	3.8	37
14	Study on wear behaviour and wear model of nitrile butadiene rubber under water lubricated conditions. <i>RSC Advances</i> , 2014, 4, 19034-19042.	3.6	34
15	Analysis of the operational ship energy efficiency considering navigation environmental impacts. <i>Journal of Marine Engineering and Technology</i> , 2017, 16, 150-159.	4.1	24
16	A Fault Diagnosis Approach for Gears Using Multidimensional Features and Intelligent Classifier. <i>Noise and Vibration Worldwide</i> , 2010, 41, 76-86.	1.0	22
17	A novel ship energy efficiency model considering random environmental parameters. <i>Journal of Marine Engineering and Technology</i> , 2020, 19, 215-228.	4.1	22
18	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.	4.1	17

#	ARTICLE	IF	CITATIONS
19	Analysis of maritime transport accidents using Bayesian networks. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 439-454.	0.7	17
20	Review of condition monitoring and fault diagnosis for marine power systems. Transportation Safety and Environment, 2021, 3, 85-102.	2.1	17
21	Optimizing ship energy efficiency: Application of particle swarm optimization algorithm. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2018, 232, 379-391.	0.5	16
22	A Mutual Information-Based Bayesian Network Model for Consequence Estimation of Navigational Accidents in the Yangtze River. Journal of Navigation, 2020, 73, 559-580.	1.7	16
23	The influence of concave dimples on the metallic counterface on the wear of ultra-high molecular weight polyethylene. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 455-462.	1.8	15
24	Numerical and experimental analysis of coupled transverse and longitudinal vibration of a marine propulsion shaft. Journal of Mechanical Science and Technology, 2016, 30, 5405-5412.	1.5	15
25	Rollover risk assessment and automated control for heavy duty vehicles based on vehicleâ€™s infrastructure information. IET Intelligent Transport Systems, 2019, 13, 1001-1010.	3.0	15
26	A New Method of Nonlinear Feature Extraction for Multi-Fault Diagnosis of Rotor Systems. Noise and Vibration Worldwide, 2010, 41, 29-37.	1.0	13
27	3D Surface Characterizations of Wear Particles Generated from Lubricated Regular Concave Cylinder Liners. Tribology Letters, 2014, 55, 131-142.	2.6	13
28	Optimal Ramp Metering Control for Weaving Segments Considering Dynamic Weaving Capacity Estimation. Journal of Transportation Engineering, 2014, 140, 04014057.	0.9	11
29	The evaluating on EEDI and fuel consumption of an inland river 800PCC integrated with solar photovoltaic system. Journal of Marine Engineering and Technology, 2021, 20, 77-92.	4.1	11
30	Numerical surface characterization of wear debris from artificial joints using atomic force microscopy. Science Bulletin, 2009, 54, 4583-4588.	9.0	10
31	Evaluation of the effectiveness of auditory speeding warnings for commercial passenger vehicles â€™a field study in Wuhan, China. IET Intelligent Transport Systems, 2015, 9, 467-476.	3.0	10
32	Effect of perturbation amplitudes on water film stiffness coefficients of water-lubricated plain journal bearings based on CFDâ€™FSI methods. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2019, 233, 1003-1015.	1.8	10
33	Coupling mechanism between wear and oxidation processes of 304 stainless steel in hydrogen peroxide environments. Scientific Reports, 2017, 7, 2327.	3.3	9
34	Traffic Data Collection System Based on Floating Cars and its Application in Shanghai. , 2007, , .		8
35	HF-Based Sensorless Control of a FTPMM in Ship Shaftless Rim-Driven Thruster System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16867-16877.	8.0	8
36	Study on tribological properties of Al ₂ O ₃ ceramics/1Cr18Ni9Ti stainless steel rubbing pairs in H ₂ O ₂ solutions. Lubrication Science, 2011, 23, 41-48.	2.1	7

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37	Application of Formal Safety Assessment to Navigational Risk Evaluation of Yangtze River. , 2011, , .		7
38	The Hardware-in-the-loop Simulator: A Mechatronic Testbed for Cooperative Vehicles Maneuvers. International Journal of Intelligent Transportation Systems Research, 2013, 11, 11-22.	1.1	7
39	Marine CM: Condition identification of the cylinder liner-piston ring in a marine diesel engine using bispectrum analysis and artificial neural networks. Insight: Non-Destructive Testing and Condition Monitoring, 2013, 55, 621-626.	0.6	7
40	Ultrasonic measurement of lubricant film thickness distribution of journal bearing. Review of Scientific Instruments, 2020, 91, 065111.	1.3	7
41	Research on Multi-agent System Model of Diesel Engine Fault Diagnosis by Case-Based Reasoning. , 0, , .		6
42	Assessment model for tribological property of ceramic/stainless steel rubbing pairs in H2O2 solution. Science China Technological Sciences, 2013, 56, 3017-3023.	4.0	6
43	Thermal Hydraulic Performance Analysis of PCHE Precooler for Supercritical CO ₂ Brayton Cycle. , 2019, , .		5
44	Controlling a cargo ship without human experience using deep Q-network. Journal of Intelligent and Fuzzy Systems, 2020, 39, 7363-7379.	1.4	5
45	Structural Assessment of Printed Circuit Heat Exchangers in Supercritical CO ₂ Waste Heat Recovery Systems for Ship Applications. Journal of Thermal Science, 2022, 31, 689-700.	1.9	5
46	Challenges and Developments in Navigational Risk Assessment With Large Uncertainty. , 2014, , .		4
47	A new remote intelligent diagnosis system for marine diesel engines based on an improved multi-kernel algorithm. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2015, 229, 604-611.	0.7	4
48	The energy management and optimization strategy for fuel cell hybrid ships. , 2017, , .		4
49	Severity Analyses of Single-Vehicle Crashes Based on Rough Set Theory. , 2009, , .		3
50	Study on fatigue life evaluation of water lubricated rubber stern tube bearing. , 2011, , .		3
51	Ship electric propulsion with a sensorless permanent magnet synchronous motor: A simulation study. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2012, 226, 378-386.	0.5	3
52	Contribution of wind forces to rollover stability of heavy duty vehicle. , 2015, , .		3
53	Study on remote fault diagnosis system using multi monitoring methods on dredger. , 2010, , .		2
54	Design of ship energy efficiency monitoring and control system considering environmental factors. , 2015, , .		2

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55	Clustering of the inland waterway navigational environment and its effects on ship energy consumption. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2017, 231, 57-69.	0.5	2
56	Structural stress analysis of hybrid heat exchangers in the S-CO ₂ power cycle for marine waste heat recovery. Thermal Science, 2023, 27, 811-823.	1.1	2
57	A Multiclass, Multimode Traffic Assignment Model Considering Emission under Various Engine Operating Modes. , 2008, , .		1
58	Study of optimal monitoring point placement for marine power machinery using fault tree theory. , 2011, , .		1
59	Study on tribological and electrochemistry properties of metal materials in H ₂ O ₂ solutions. Frontiers of Mechanical Engineering, 2012, 7, 93-98.	4.3	1
60	Multi-parameter prediction modeling for analyzing the trend of turbine oil online monitoring parameters. , 2014, , .		1
61	Reliability model based on stress-strength interference for marine propulsion shafting. , 2015, , .		1
62	Reducing surface energy to improve energy efficiency of ships. , 2015, , .		1
63	Theoretical model research on I-V characteristics of solar cell under the marine environment. , 2015, , .		1
64	Major issues associated with maritime security and piracy study. , 2015, , .		1
65	Study on Heat Transfer and Pressure Drop Characteristics in Fin Micro Channels of Hybrid Heat Exchangers. , 2019, , .		1
66	Study of diagnosis system framework using remote knowledge service. , 2010, , .		0
67	Remote Fault Diagnosis System for Marine Power Machinery System. , 2013, , 292-311.		0
68	Remote Fault Diagnosis System for Marine Power Machinery System. , 2013, , 2174-2192.		0