Di Zhang

List of Publications by Year
in descending order

62 papers	2,358 citations	218677 26 h-index	223800 46 g-index
63 all docs	63 docs citations	63 times ranked	1238 citing authors

#	ARTICLE	IF	CITATIONS
1	Resilience in transportation systems: a systematic review and future directions. Transport Reviews, 2018, 38, 479-498.	8.8	218
2	Use of HFACS and fault tree model for collision risk factors analysis of icebreaker assistance in ice-covered waters. Safety Science, 2019, 111, 128-143.	4.9	178
3	An advanced fuzzy Bayesian-based FMEA approach for assessing maritime supply chain risks. Transportation Research, Part E: Logistics and Transportation Review, 2019, 125, 222-240.	7.4	160
4	A distributed anti-collision decision support formulation in multi-ship encounter situations under COLREGs. Ocean Engineering, 2015, 105, 336-348.	4.3	149
5	A framework to identify factors influencing navigational risk for Maritime Autonomous Surface Ships. Ocean Engineering, 2020, 202, 107188.	4.3	126
6	A probabilistic model of human error assessment for autonomous cargo ships focusing on humanâ€"autonomy collaboration. Safety Science, 2020, 130, 104838.	4.9	99
7	Towards a probabilistic model for predicting ship besetting in ice in Arctic waters. Reliability Engineering and System Safety, 2016, 155, 124-136.	8.9	96
8	A novel model for the quantitative evaluation of green port development â€" A case study of major ports in China. Transportation Research, Part D: Transport and Environment, 2018, 61, 431-443.	6.8	96
9	Use of fuzzy rule-based evidential reasoning approach in the navigational risk assessment of inland waterway transportation systems. Safety Science, 2016, 82, 352-360.	4.9	92
10	Risk and cost evaluation of port adaptation measures to climate change impacts. Transportation Research, Part D: Transport and Environment, 2018, 61, 444-458.	6.8	76
11	A predictive analytics method for maritime traffic flow complexity estimation in inland waterways. Reliability Engineering and System Safety, 2022, 220, 108317.	8.9	70
12	A resilience perspective on water transport systems: The case of Eastern Star. International Journal of Disaster Risk Reduction, 2019, 33, 343-354.	3.9	66
13	Incorporating CREAM and MCS into fault tree analysis of LNG carrier spill accidents. Safety Science, 2017, 96, 183-191.	4.9	61
14	Safety distance modeling for ship escort operations in Arctic ice-covered waters. Ocean Engineering, 2017, 146, 202-216.	4.3	61
15	Data-driven ship energy efficiency analysis and optimization model for route planning in ice-covered Arctic waters. Ocean Engineering, 2019, 186, 106071.	4.3	60
16	A novel real-time collision risk awareness method based on velocity obstacle considering uncertainties in ship dynamics. Ocean Engineering, 2021, 220, 108436.	4.3	59
17	Identifying important ports in maritime container shipping networks along the Maritime Silk Road. Ocean and Coastal Management, 2021, 211, 105738.	4.4	57
18	Framework for the quantitative assessment of the risk of leakage from LNG-fueled vessels by an event tree-CFD. Journal of Loss Prevention in the Process Industries, 2016, 43, 42-52.	3.3	56

#	ARTICLE	IF	CITATIONS
19	A quantitative approach for risk assessment of a ship stuck in ice in Arctic waters. Safety Science, 2018, 107, 145-154.	4.9	49
20	Safety management performance assessment for Maritime Safety Administration (MSA) by using generalized belief rule base methodology. Safety Science, 2014, 63, 157-167.	4.9	43
21	Risk influencing factors analysis of Arctic maritime transportation systems: a Chinese perspective. Maritime Policy and Management, 2018, 45, 439-455.	3.8	37
22	An integrated risk assessment model for safe Arctic navigation. Transportation Research, Part A: Policy and Practice, 2020, 142, 101-114.	4.2	32
23	Classification of Automatic Radar Plotting Aid targets based on improved Fuzzy C-Means. Transportation Research Part C: Emerging Technologies, 2015, 51, 180-195.	7.6	31
24	Analysis of risk factors influencing the safety of maritime container supply chains. International Journal of Shipping and Transport Logistics, 2019, 11, 476.	0.5	31
25	Collision risk analysis on ferry ships in Jiangsu Section of the Yangtze River based on AIS data. Reliability Engineering and System Safety, 2021, 215, 107901.	8.9	29
26	Three‐Stage Decision‐Making Model under Restricted Conditions for Emergency Response to Ships Not under Control. Risk Analysis, 2017, 37, 2455-2474.	2.7	28
27	A two-stage black-spot identification model for inland waterway transportation. Reliability Engineering and System Safety, 2021, 213, 107677.	8.9	28
28	Safety management of waterway congestions under dynamic risk conditions—A case study of the Yangtze River. Applied Soft Computing Journal, 2017, 59, 115-128.	7.2	25
29	Emerging LNG-fueled ships in the Chinese shipping industry: a hybrid analysis on its prospects. WMU Journal of Maritime Affairs, 2015, 14, 43-59.	2.7	24
30	A novel policy making aid model for the development of LNG fuelled ships. Transportation Research, Part A: Policy and Practice, 2019, 119, 29-44.	4.2	24
31	An accident data—based approach for congestion risk assessment of inland waterways: A Yangtze River case. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2014, 228, 176-188.	0.7	21
32	A risk comparison framework for autonomous ships navigation. Reliability Engineering and System Safety, 2022, 226, 108709.	8.9	21
33	Research trends in Belt and Road Initiative studies on logistics, supply chains, and transportation sector. International Journal of Logistics Research and Applications, 2020, 23, 525-543.	8.8	18
34	Towards a Framework of Operational-Risk Assessment for a Maritime Autonomous Surface Ship. Energies, 2021, 14, 3879.	3.1	17
35	A novel approach for assistance with anti-collision decision making based on the International Regulations for Preventing Collisions at Sea. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2012, 226, 250-259.	0.5	14
36	Novel Approach for Comprehensive Centrality Assessment of Ports along the Maritime Silk Road. Transportation Research Record, 2019, 2673, 461-470.	1.9	14

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37	Effectiveness of 2D optimization algorithms considering voluntary speed reduction under uncertain metocean conditions. Ocean Engineering, 2020, 200, 107063.	4.3	14
38	Evaluating recovery strategies for the disruptions in liner shipping networks: a resilience approach. International Journal of Logistics Management, 2022, 33, 389-409.	6.6	14
39	Use of Hybrid Causal Logic Method for Preliminary Hazard Analysis of Maritime Autonomous Surface Ships. Journal of Marine Science and Engineering, 2022, 10, 725.	2.6	8
40	Application of Formal Safety Assessment to Navigational Risk Evaluation of Yangtze River. , 2011, , .		7
41	Safety assessment for inland waterway transportation with an extended fuzzy TOPSIS. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2016, 230, 323-333.	0.7	7
42	Resilience assessment of maritime container shipping networks â€" A case of the Maritime Silk Road. , 2019, , .		6
43	Ship Trajectory Control Optimization in Anti-collision Maneuvering. TransNav, 2013, 7, 89-93.	0.6	6
44	Challenges and Developments in Navigational Risk Assessment With Large Uncertainty. , 2014, , .		4
45	A Fuzzy Event Tree Model for Accident Scenario Analysis of Ship Stuck in Ice in Arctic Waters. , 2016, , .		4
46	Special issue on â€˜Impacts of Chinaâ€™s Belt and Road Initiative on maritime transport and global logisticsâ€™. International Journal of Logistics Research and Applications, 2020, 23, 521-524.	8.8	4
47	Evaluating the Probability of Power Loss in Ship Electric Propulsion Systems Based on Bayesian Belief Networks. Marine Technology Society Journal, 2019, 53, 63-79.	0.4	4
48	Navigational risk factor analysis of Arctic shipping in ice-covered waters. , 2020, , 153-177.		3
49	Safety assessment of LNG carriers based on fault tree analysis. , 2015, , .		2
50	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
51	Incorporating AHP and Evidential Reasoning for Quantitative Evaluation of Inland Port Performance. Profiles in Operations Research, 2018, , 151-173.	0.4	2
52	Safety Study of Primary Loop System of Civil Marine Nuclear Power Plant. Applied Mechanics and Materials, 0, 541-542, 916-921.	0.2	1
53	Major issues associated with maritime security and piracy study. , 2015, , .		1
54	Current status and framework of China's inland passenger ship safety system. , 2016, , .		1

#	Article	IF	Citations
55	Voyage optimization for mitigating ship structural failure due to crack propagation. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 5-17.	0.7	1
56	Fast and Robust Underwater Obstacle Detection in Acoustic Vision. , 2020, , .		1
57	Use of Encounter Model for Collision Risk Assessment of Yangtze River. , 2011, , .		0
58	Use of FMECA Method for Leakage Analysis of LNG Fueled Vessels. , 2014, , .		0
59	Use of Bayesian networks for emergency assistance assessment of ship capsizing. , 2017, , .		0
60	Use of 4E framework in performance evaluation of VTS operation. , 2017, , .		0
61	Ship Navigation System. , 2020, , 1-7.		0
62	Ship Navigation System. , 2022, , 1622-1628.		0