

# Xiang Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4477917/publications.pdf>

Version: 2024-02-01

30  
papers

692  
citations

777949

13  
h-index

620720

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence-aided railroad trespassing detection and data analytics: Methodology and a case study. <i>Accident Analysis and Prevention</i> , 2022, 168, 106594.	3.0	13
2	An Empirical analysis of freight train derailment rates for unit trains and manifest trains. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2022, 236, 1168-1178.	1.3	5
3	Analysis of human-factor-caused freight train accidents in the United States. <i>Journal of Transportation Safety and Security</i> , 2021, 13, 1157-1186.	1.1	7
4	Quantifying Recent Trends in Class 1 Freight Railroad Train Length and Weight by Train Type. <i>Transportation Research Record</i> , 2021, 2675, 890-903.	1.0	8
5	Statistical Analysis of Seasonal Effect on Freight Train Derailments. <i>Journal of Transportation Engineering Part A: Systems</i> , 2021, 147, 04021073.	0.8	2
6	Safety risk analysis of restricted-speed train accidents in the United States. <i>Journal of Risk Research</i> , 2020, 23, 1158-1176.	1.4	9
7	Prevention of End-of-Track Collisions in Passenger Terminals via Positive Train Control: Benefit-Cost Analysis and Operational Impact Assessment. <i>Transportation Research Record</i> , 2020, 2674, 16-28.	1.0	1
8	Applications of Ultra-Wideband in Future Guideway Transportation Industry: Position Paper for North America Rail Context. , 2020, , .		0
9	ASSESSING THE VISIBILITY OF RAISED PAVEMENT MARKERS AND ALTERNATIVE FORMS OF DELINEATION. <i>Transport</i> , 2020, 35, 98-107.	0.6	0
10	Prevention of End-of-Track Collisions at Passenger Terminals via Positive Train Control. <i>Transportation Research Record</i> , 2019, 2673, 471-479.	1.0	2
11	Artificial Intelligence-Aided Automated Detection of Railroad Trespassing. <i>Transportation Research Record</i> , 2019, 2673, 25-37.	1.0	20
12	Adaptive Optimization of Multi-Hop Communication Protocol for Linear Wireless Monitoring Networks on High-Speed Railways. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 2313-2327.	4.7	9
13	The Nicaragua Canal: potential impact on international shipping and its attendant challenges. <i>Maritime Economics and Logistics</i> , 2019, 21, 79-98.	2.0	4
14	An Optimal Communications Protocol for Maximizing Lifetime of Railway Infrastructure Wireless Monitoring Network. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 3347-3357.	7.2	27
15	Optimal Collision-Avoidance Manoeuvres to Minimise Bunker Consumption under the Two-Ship Crossing Situation. <i>Journal of Navigation</i> , 2018, 71, 151-168.	1.0	19
16	Modeling of track geometry degradation and decisions on safety and maintenance: A literature review and possible future research directions. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 1385-1397.	1.3	32
17	Freight Railroad Network Blocking Problem: Modeling, Formulation and Improved Particle Swarm optimization Algorithm. , 2018, , .		0
18	Accident-Cause-Specific Risk Analysis of Rail Transport of Hazardous Materials. <i>Transportation Research Record</i> , 2018, 2672, 176-187.	1.0	15

#	ARTICLE	IF	CITATIONS
19	Video Analytics for Railroad Safety Research: An Artificial Intelligence Approach. <i>Transportation Research Record</i> , 2018, 2672, 269-277.	1.0	15
20	Governance of Shipping Emission of SO <sub>x</sub> in China's Coastal Waters: The SECA Policy, Challenges, and Directions. <i>Coastal Management</i> , 2018, 46, 191-209.	1.0	29
21	Statistical Causal Analysis of Freight-Train Derailments in the United States. <i>Journal of Transportation Engineering Part A: Systems</i> , 2017, 143, .	0.8	16
22	Optimal Bilateral Cooperative Slot Allocation for Two Liner Carriers under a Co-Chartering Agreement. <i>Journal of Navigation</i> , 2017, 70, 1170-1182.	1.0	15
23	Integrated Train Timetabling and Rolling Stock Scheduling Model Based on Time-Dependent Demand for Urban Rail Transit. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 856-873.	6.3	61
24	Analysis of multiple tank car releases in train accidents. <i>Accident Analysis and Prevention</i> , 2017, 107, 164-172.	3.0	9
25	Freight-train derailment rates for railroad safety and risk analysis. <i>Accident Analysis and Prevention</i> , 2017, 98, 1-9.	3.0	51
26	Risk Comparison of Transporting Hazardous Materials in Unit Trains versus Mixed Trains. <i>Transportation Research Record</i> , 2017, 2608, 134-142.	1.0	7
27	Statistical Temporal Analysis of Freight Train Derailment Rates in the United States. <i>Transportation Research Record</i> , 2015, 2476, 119-125.	1.0	34
28	Analysis of railroad tank car releases using a generalized binomial model. <i>Accident Analysis and Prevention</i> , 2015, 84, 20-26.	3.0	10
29	Analysis of U.S. freight-train derailment severity using zero-truncated negative binomial regression and quantile regression. <i>Accident Analysis and Prevention</i> , 2013, 59, 87-93.	3.0	82
30	Analysis of Causes of Major Train Derailment and Their Effect on Accident Rates. <i>Transportation Research Record</i> , 2012, 2289, 154-163.	1.0	190