

# Chengcheng 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.

93  
papers

2,383  
citations

28  
h-index

46  
g-index

106  
ext. papers

2,936  
ext. citations

4  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
93	An optimal control-based vehicle speed guidance strategy to improve traffic safety and efficiency against freeway jam waves. <i>Accident Analysis and Prevention</i> , <b>2021</b> , 163, 106429	6.1	1
92	Using empirical traffic trajectory data for crash risk evaluation under three-phase traffic theory framework. <i>Accident Analysis and Prevention</i> , <b>2021</b> , 157, 106191	6.1	6
91	Understand the impact of traffic states on crash risk in the vicinities of Type A weaving segments: A deep learning approach. <i>Accident Analysis and Prevention</i> , <b>2021</b> , 159, 106293	6.1	4
90	Investigating the predictability of crashes on different freeway segments using the real-time crash risk models. <i>Accident Analysis and Prevention</i> , <b>2021</b> , 159, 106213	6.1	6
89	Investigating the impacts of driving restriction on NO2 concentration by integrating citywide scale cellular data and traffic simulation. <i>Atmospheric Environment</i> , <b>2021</b> , 265, 118721	5.3	1
88	Assessing injury severity of secondary incidents using support vector machines. <i>Journal of Transportation Safety and Security</i> , <b>2020</b> , 1-20	1.7	3
87	A deep learning approach to real-time CO concentration prediction at signalized intersection. <i>Atmospheric Pollution Research</i> , <b>2020</b> , 11, 1370-1378	4.5	7
86	Effects of traffic enforcement cameras on macro-level traffic safety: A spatial modeling analysis considering interactions with roadway and Land use characteristics. <i>Accident Analysis and Prevention</i> , <b>2020</b> , 144, 105659	6.1	3
85	Reinforcement Learning-Based Variable Speed Limits Control to Reduce Crash Risks near Traffic Oscillations on Freeways. <i>IEEE Intelligent Transportation Systems Magazine</i> , <b>2020</b> , 1-1	2.6	6
84	Developing a New Spatial Unit for Macroscopic Safety Evaluation Based on Traffic Density Homogeneity. <i>Journal of Advanced Transportation</i> , <b>2020</b> , 2020, 1-9	1.9	1
83	Short-term prediction of safety and operation impacts of lane changes in oscillations with empirical vehicle trajectories. <i>Accident Analysis and Prevention</i> , <b>2020</b> , 135, 105345	6.1	44
82	Modeling the Spatial Effects of Land-Use Patterns on Traffic Safety Using Geographically Weighted Poisson Regression. <i>Networks and Spatial Economics</i> , <b>2020</b> , 20, 1015	1.9	2
81	Safety effects of road pavement resurfacing: A case study of city-wide scale projects in China. <i>Journal of Transportation Safety and Security</i> , <b>2020</b> , 1-20	1.7	0
80	Traffic safety analysis of inter-tunnel weaving section with conflict prediction models. <i>Journal of Transportation Safety and Security</i> , <b>2020</b> , 1-25	1.7	4
79	Deep Reinforcement Learning-Based Vehicle Driving Strategy to Reduce Crash Risks in Traffic Oscillations. <i>Transportation Research Record</i> , <b>2020</b> , 2674, 42-54	1.7	4
78	A Markov switching regression analysis of freeway crash risks considering spatial effect. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , <b>2020</b> , 173, 159-170	0.5	0
77	Investigation of extremely severe traffic crashes using fault tree analysis. <i>Transportation Letters</i> , <b>2020</b> , 12, 149-156	2.1	7

76	Investigating Dominant Trip Distance for Intercity Passenger Transport Mode Using Large-Scale Location-Based Service Data. <i>Sustainability</i> , <b>2019</b> , 11, 5325	3.6	5
75	Identifying the crash characteristics on freeway segments based on different ramp influence areas. <i>Traffic Injury Prevention</i> , <b>2019</b> , 20, 386-391	1.8	9
74	Evaluating the Effects of Household Characteristics on Household Daily Traffic Emissions Based on Household Travel Survey Data. <i>Sustainability</i> , <b>2019</b> , 11, 1684	3.6	4
73	Analysis of E-bike Trip Duration and Frequency by Bayesian Duration and Zero-inflated Count Models. <i>KSCE Journal of Civil Engineering</i> , <b>2019</b> , 23, 1806-1818	1.9	1
72	Analysis of the Risk Factors Affecting the Size of Fatal Accidents Involving Trucks Based on the Structural Equation Model. <i>Transportation Research Record</i> , <b>2019</b> , 2673, 112-124	1.7	6
71	Investigating the factors affecting secondary crash frequency caused by one primary crash using zero-inflated ordered probit regression. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 524, 121-129	3.3	10
70	Longitudinal safety impacts of cooperative adaptive cruise control vehicle's degradation. <i>Journal of Safety Research</i> , <b>2019</b> , 69, 177-192	4	23
69	Procedure for Determining the Deployment Locations of Variable Speed Limit Signs to Reduce Crash Risks at Freeway Recurrent Bottlenecks. <i>IEEE Access</i> , <b>2019</b> , 7, 47856-47863	3.5	5
68	Analysis of Freeway Secondary Crashes With a Two-Step Method by Loop Detector Data. <i>IEEE Access</i> , <b>2019</b> , 7, 22884-22890	3.5	6
67	Predicting Future Driving Risk of Crash-Involved Drivers Based on a Systematic Machine Learning Framework. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	17
66	A geographically weighted regression approach to investigate the effects of traffic conditions and road characteristics on air pollutant emissions. <i>Journal of Cleaner Production</i> , <b>2019</b> , 239, 118084	10.3	18
65	Identification of Non-Green Channel Vehicles at Highway Toll Gate Based on Logistic Regression Model <b>2019</b> ,		1
64	Non-linear fixed and multi-level random effects of origin-destination specific attributes on route choice behaviour. <i>IET Intelligent Transport Systems</i> , <b>2019</b> , 13, 654-660	2.4	9
63	Estimation of Value of Statistical Life Using Willingness-to-Pay Method: A Focus on Hangzhou, China <b>2019</b> ,		1
62	Statistical analysis of the patterns and characteristics of connected and autonomous vehicle involved crashes. <i>Journal of Safety Research</i> , <b>2019</b> , 71, 41-47	4	25
61	A crash prediction method based on bivariate extreme value theory and video-based vehicle trajectory data. <i>Accident Analysis and Prevention</i> , <b>2019</b> , 123, 365-373	6.1	75
60	Can we trust the speed-spacing relationship estimated by car-following model from non-stationary trajectory data?. <i>Transportmetrica A: Transport Science</i> , <b>2019</b> , 15, 263-284	2.5	5
59	Comparing the effects of ramp metering and variable speed limit on reducing travel time and crash risk at bottlenecks. <i>IET Intelligent Transport Systems</i> , <b>2018</b> , 12, 120-126	2.4	9

58	Evaluation of the safety performance of highway alignments based on fault tree analysis and safety boundaries. <i>Traffic Injury Prevention</i> , <b>2018</b> , 19, 409-416	1.8	4
57	Effects of the London Cycle Superhighways on the usage of the London Cycle Hire. <i>Transportation Research, Part A: Policy and Practice</i> , <b>2018</b> , 111, 304-315	3.7	14
56	A combined use of microscopic traffic simulation and extreme value methods for traffic safety evaluation. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2018</b> , 90, 281-291	8.4	80
55	Exploring unobserved heterogeneity in bicyclists' red-light running behaviors at different crossing facilities. <i>Accident Analysis and Prevention</i> , <b>2018</b> , 115, 118-127	6.1	70
54	Quantitative risk assessment of freeway crash casualty using high-resolution traffic data. <i>Reliability Engineering and System Safety</i> , <b>2018</b> , 169, 299-311	6.3	45
53	Development of analytical procedure for selection of control measures to reduce congestions at various freeway bottlenecks. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , <b>2018</b> , 22, 65-85	3.2	8
52	Investigation of contributing factors to extremely severe traffic crashes using survival theory. <i>International Journal of Injury Control and Safety Promotion</i> , <b>2018</b> , 25, 141-153	1.8	2
51	The station-free sharing bike demand forecasting with a deep learning approach and large-scale datasets. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2018</b> , 95, 47-60	8.4	122
50	Utilizing Structural Equation Modeling and Segmentation Analysis in Real-time Crash Risk Assessment on Freeways. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 2569-2577	1.9	7
49	Simulating and analyzing the effect on travel behavior of residential relocation and corresponding traffic demand management strategies. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 837-849	1.9	3
48	A Real-Time Vehicle Emission Prediction Model for Freeway Segments Based on Trajectory Data <b>2018</b> ,		1
47	On the Effects of Various Measures of Performance Selections on Simulation Model Calibration Performance. <i>Journal of Advanced Transportation</i> , <b>2018</b> , 2018, 1-16	1.9	1
46	Evaluating factors affecting electric bike users' registration of license plate in China using Bayesian approach. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , <b>2018</b> , 59, 212-221	4.5	55
45	Association rule analysis of factors contributing to extraordinarily severe traffic crashes in China. <i>Journal of Safety Research</i> , <b>2018</b> , 67, 65-75	4	49
44	Comparing Prediction Performance for Crash Injury Severity Among Various Machine Learning and Statistical Methods. <i>IEEE Access</i> , <b>2018</b> , 6, 60079-60087	3.5	63
43	Evaluating the Combined Effects of Weather and Real-Time Traffic Conditions on Freeway Crash Risks. <i>Weather, Climate, and Society</i> , <b>2018</b> , 10, 837-850	2.3	0
42	Two-echelon logistics delivery and pickup network optimization based on integrated cooperation and transportation fleet sharing. <i>Expert Systems With Applications</i> , <b>2018</b> , 113, 44-65	7.8	27
41	The effects of safety knowledge and psychological factors on self-reported risky driving behaviors including group violations for e-bike riders in China. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , <b>2018</b> , 56, 344-353	4.5	14

40	Integrated Cooperative Adaptive Cruise and Variable Speed Limit Controls for Reducing Rear-End Collision Risks Near Freeway Bottlenecks Based on Micro-Simulations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2017</b> , 18, 3157-3167	6.1	45
39	Reinforcement Learning-Based Variable Speed Limit Control Strategy to Reduce Traffic Congestion at Freeway Recurrent Bottlenecks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2017</b> , 18, 3204-3217	6.1	78
38	Identifying factors affecting the safety of mid-block bicycle lanes considering mixed 2-wheeled traffic flow. <i>Traffic Injury Prevention</i> , <b>2017</b> , 18, 761-766	1.8	10
37	Exploring Bikesharing Travel Patterns and Trip Purposes Using Smart Card Data and Online Point of Interests. <i>Networks and Spatial Economics</i> , <b>2017</b> , 17, 1231-1253	1.9	74
36	Investigating the relationship between jobs-housing balance and traffic safety. <i>Accident Analysis and Prevention</i> , <b>2017</b> , 107, 126-136	6.1	22
35	Incorporating twitter-based human activity information in spatial analysis of crashes in urban areas. <i>Accident Analysis and Prevention</i> , <b>2017</b> , 106, 358-369	6.1	43
34	Modeling faults among e-bike-related fatal crashes in China. <i>Traffic Injury Prevention</i> , <b>2017</b> , 18, 175-181	1.8	39
33	Evaluation of average travel delay caused by moving bottlenecks on highways. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183442	3.7	3
32	Investigating Spatial Interdependence in E-Bike Choice Using Spatially Autoregressive Model. <i>Promet - Traffic - Traffico</i> , <b>2017</b> , 29, 351-362	1.2	3
31	Evaluation of the predictability of real-time crash risk models. <i>Accident Analysis and Prevention</i> , <b>2016</b> , 94, 207-15	6.1	18
30	Operational analysis of the contraflow left-turn lane design at signalized intersections in China. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2016</b> , 69, 228-241	8.4	39
29	SHORT-TERM TRAFFIC FLOW PREDICTION USING A METHODOLOGY BASED ON AUTOREGRESSIVE INTEGRATED MOVING AVERAGE AND GENETIC PROGRAMMING. <i>Transport</i> , <b>2016</b> , 31, 343-358	1.4	28
28	Exploring Passenger Assessments of Bus Service Quality Using Bayesian Networks. <i>Journal of Public Transportation</i> , <b>2016</b> , 19, 36-54	26.8	13
27	Optimal Mainline Variable Speed Limit Control to Improve Safety on Large-Scale Freeway Segments. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2016</b> , 31, 366-380	8.4	28
26	Real-time identification of traffic conditions prone to injury and non-injury crashes on freeways using genetic programming. <i>Journal of Advanced Transportation</i> , <b>2016</b> , 50, 701-716	1.9	8
25	Multiobjective Evaluation of Midblock Crosswalks on Urban Streets Based on TOPSIS and Entropy Methods. <i>Transportation Research Record</i> , <b>2016</b> , 2586, 59-71	1.7	8
24	Real-time estimation of secondary crash likelihood on freeways using high-resolution loop detector data. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2016</b> , 71, 406-418	8.4	43
23	Multi-objective optimization of urban bus network using cumulative prospect theory. <i>Journal of Systems Science and Complexity</i> , <b>2015</b> , 28, 661-678	1	17

22	Safety performance of traffic phases and phase transitions in three phase traffic theory. <i>Accident Analysis and Prevention</i> , <b>2015</b> , 85, 45-57	6.1	19
21	Development of a real-time crash risk prediction model incorporating the various crash mechanisms across different traffic states. <i>Traffic Injury Prevention</i> , <b>2015</b> , 16, 28-35	1.8	34
20	Calibration of crash risk models on freeways with limited real-time traffic data using Bayesian meta-analysis and Bayesian inference approach. <i>Accident Analysis and Prevention</i> , <b>2015</b> , 85, 207-18	6.1	25
19	Understanding Factors Affecting Frequency of Traffic Conflicts between Electric Bicycles and Motorized Vehicles at Signalized Intersections. <i>Transportation Research Record</i> , <b>2015</b> , 2514, 68-78	1.7	2
18	Strategy for Multiobjective Transit Signal Priority with Prediction of Bus Dwell Time at Stops. <i>Transportation Research Record</i> , <b>2015</b> , 2488, 10-19	1.7	14
17	Using the Bayesian updating approach to improve the spatial and temporal transferability of real-time crash risk prediction models. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2014</b> , 38, 167-176	8.4	48
16	Development of a variable speed limit strategy to reduce secondary collision risks during inclement weathers. <i>Accident Analysis and Prevention</i> , <b>2014</b> , 72, 134-45	6.1	63
15	Development of a Control Strategy of Variable Speed Limits to Reduce Rear-End Collision Risks Near Freeway Recurrent Bottlenecks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 15, 866-877	6.1	43
14	Identification of freeway crash-prone traffic conditions for traffic flow at different levels of service. <i>Transportation Research, Part A: Policy and Practice</i> , <b>2014</b> , 69, 58-70	3.7	21
13	Red Light Running Behavior of Electric Bicycles at Signalized Intersections in China. <i>Transportation Research Record</i> , <b>2014</b> , 2468, 28-37	1.7	40
12	Development of a crash risk index to identify real time crash risks on freeways. <i>KSCE Journal of Civil Engineering</i> , <b>2013</b> , 17, 1788-1797	1.9	9
11	Evaluation of the impacts of speed variation on freeway traffic collisions in various traffic states. <i>Traffic Injury Prevention</i> , <b>2013</b> , 14, 861-6	1.8	26
10	Identifying crash-prone traffic conditions under different weather on freeways. <i>Journal of Safety Research</i> , <b>2013</b> , 46, 135-44	4	78
9	Predicting crash likelihood and severity on freeways with real-time loop detector data. <i>Accident Analysis and Prevention</i> , <b>2013</b> , 57, 30-9	6.1	122
8	A Genetic Programming Model for Real-Time Crash Prediction on Freeways. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2013</b> , 14, 574-586	6.1	70
7	Identifying factors affecting drivers's selection of unconventional outside left-turn lanes at signallised intersections. <i>IET Intelligent Transport Systems</i> , <b>2013</b> , 7, 396-403	2.4	10
6	Using support vector machine models for crash injury severity analysis. <i>Accident Analysis and Prevention</i> , <b>2012</b> , 45, 478-86	6.1	157
5	Evaluation of the impacts of traffic states on crash risks on freeways. <i>Accident Analysis and Prevention</i> , <b>2012</b> , 47, 162-71	6.1	119

4	Driver Response to Automated Speed Enforcement on Rural Highways in China. <i>Transportation Research Record</i> , <b>2011</b> , 2265, 109-117	1.7	8
3	Effects of transverse rumble strips on safety of pedestrian crosswalks on rural roads in China. <i>Accident Analysis and Prevention</i> , <b>2011</b> , 43, 1947-1954	6.1	34
2	Analyzing Travelers' Intention to Accept Travel Information: Structural Equation Modeling. <i>Transportation Research Record</i> , <b>2010</b> , 2156, 93-100	1.7	28
1	Combined variable speed limit and lane change guidance for secondary crash prevention using distributed deep reinforcement learning. <i>Journal of Transportation Safety and Security</i> , 1-26	1.7	1