

# Lai Zheng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2104075/publications.pdf>

Version: 2024-02-01

25  
papers

868  
citations

516710

16  
h-index

642732

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Freeway safety estimation using extreme value theory approaches: A comparative study. Accident Analysis and Prevention, 2014, 62, 32-41.	5.7	141
2	Validating the bivariate extreme value modeling approach for road safety estimation with different traffic conflict indicators. Accident Analysis and Prevention, 2019, 123, 314-323.	5.7	96
3	Bivariate extreme value modeling for road safety estimation. Accident Analysis and Prevention, 2018, 120, 83-91.	5.7	65
4	Comparison of Traffic Conflict Indicators for Crash Estimation using Peak Over Threshold Approach. Transportation Research Record, 2019, 2673, 493-502.	1.9	63
5	A novel approach for real time crash prediction at signalized intersections. Transportation Research Part C: Emerging Technologies, 2020, 117, 102683.	7.6	55
6	Before-after safety analysis using extreme value theory: A case of left-turn bay extension. Accident Analysis and Prevention, 2018, 121, 258-267.	5.7	53
7	A hierarchical bayesian peak over threshold approach for conflict-based before-after safety evaluation of leading pedestrian intervals. Accident Analysis and Prevention, 2020, 147, 105772.	5.7	43
8	Application of Extreme Value Theory for Before-After Road Safety Analysis. Transportation Research Record, 2019, 2673, 1001-1010.	1.9	40
9	Bayesian hierarchical modeling of the non-stationary traffic conflict extremes for crash estimation. Analytic Methods in Accident Research, 2019, 23, 100100.	8.2	38
10	Multi-type Bayesian hierarchical modeling of traffic conflict extremes for crash estimation. Accident Analysis and Prevention, 2021, 160, 106309.	5.7	36
11	A full Bayes approach for traffic conflict-based before-after safety evaluation using extreme value theory. Accident Analysis and Prevention, 2019, 131, 308-315.	5.7	34
12	Investigating conflict behaviours and characteristics in shared space for pedestrians, conventional bicycles and e-bikes. Accident Analysis and Prevention, 2021, 158, 106167.	5.7	28
13	A generalized exponential link function to map a conflict indicator into severity index within safety continuum framework. Accident Analysis and Prevention, 2017, 102, 23-30.	5.7	27
14	Assessing the explanatory and predictive performance of a random parameters count model with heterogeneity in means and variances. Accident Analysis and Prevention, 2020, 147, 105759.	5.7	27
15	A bivariate Bayesian hierarchical extreme value model for traffic conflict-based crash estimation. Analytic Methods in Accident Research, 2020, 25, 100111.	8.2	27
16	A comparison of collision-based and conflict-based safety evaluation of left-turn bay extension. Transportmetrica A: Transport Science, 2020, 16, 676-694.	2.0	21
17	Validating the Bayesian hierarchical extreme value model for traffic conflict-based crash estimation on freeway segments with site-level factors. Accident Analysis and Prevention, 2021, 159, 106269.	5.7	16
18	Investigating factors that influence pedestrian and cyclist violations on shared use path: An observational study on the Brooklyn bridge promenade. International Journal of Sustainable Transportation, 2020, 14, 503-512.	4.1	13

#	ARTICLE	IF	CITATIONS
19	Evaluation of Peak Over Threshold Approach for Road Safety Estimation. Journal of Transportation Safety and Security, 2015, 7, 76-90.	1.6	12
20	Investigating consecutive conflicts of pedestrian crossing at unsignalized crosswalks using the bivariate logistic approach. Accident Analysis and Prevention, 2021, 162, 106402.	5.7	8
21	Real-Time Crash-Risk Optimization at Signalized Intersections. Transportation Research Record, 2022, 2676, 32-50.	1.9	8
22	Do Simulated Traffic Conflicts Predict Crashes? An Investigation Using the Extreme Value Approach*. , 2019, , .		7
23	Investigating the transferability of Bayesian hierarchical extreme value model for traffic conflict-based crash estimation. Canadian Journal of Civil Engineering, 2021, 48, 1071-1080.	1.3	5
24	Comparison of modelling methods accounting for temporal correlation in crash counts. Journal of Transportation Safety and Security, 2020, 12, 245-262.	1.6	4
25	Using PET-Measured Traffic Conflicts to Analyze Safety Performance of Merging Areas of Freeways. , 2020, , .		1