Amirarsalan Mehrara Molan

List of Publications by Year
in descending order

32 papers	356 citations	840776 11 h-index	888059 17 g-index
32 all docs	32 docs citations	32 times ranked	165 citing authors

#	Article	IF	Citations
1	Surrogate safety assessment of super DDI design: A case study in Denver, Colorado. Journal of Transportation Safety and Security, 2023, 15, 265-290.	1.6	4
2	Evaluating the Operational Efficiency of Two Versions of Super Diverging Diamond Interchange Design: A Case Study in Denver, Colorado. Transportation Research Record, 2022, 2676, 747-762.	1.9	5
3	Evaluating safety performance of the offset diamond interchange design using VISSIM and surrogate safety assessment model. Journal of Transportation Safety and Security, 2022, 14, 1815-1837.	1.6	3
4	Comparing the New Double Contraflow Intersection to Conventional and Alternative Intersections. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	1.4	3
5	Impact of side traffic barrier features on the severity of run-off-road crashes involving horizontal curves on non-interstate roads. International Journal of Transportation Science and Technology, 2021, 10, 245-253.	3.6	4
6	Factors impacting injury severity of crashes involving traffic barrier end treatments. International Journal of Crashworthiness, 2021, 26, 202-210.	1.9	7
7	Proposing the new parclo progressA design as a substitute for the conventional partial cloverleaf A interchanges. International Journal of Modelling and Simulation, 2021, 41, 284-298.	3.3	8
8	Application of Bayesian ordinal logistic model for identification of factors to traffic barrier crashes: considering roadway classification. Transportation Letters, 2021, 13, 308-314.	3.1	6
9	Comparing the efficiency of the super diverging diamond interchange to other innovative interchangesâ€™. Simulation Modelling Practice and Theory, 2021, 106, 102174.	3.8	9
10	Microscopic Traffic Simulation as a Decision Support System for Road Diet and Tactical Urbanism Strategies. Sustainability, 2021, 13, 8076.	3.2	3
11	Modeling the impact of various variables on severity of crashes involving traffic barriers. Journal of Transportation Safety and Security, 2020, 12, 800-817.	1.6	14
12	Investigating the relationship between crash severity, traffic barrier type, and vehicle type in crashes involving traffic barrier. Journal of Traffic and Transportation Engineering (English Edition), 2020, 7, 125-136.	4.2	16
13	Analyzing injury severity of motorcycle at-fault crashes using machine learning techniques, decision tree and logistic regression models. International Journal of Transportation Science and Technology, 2020, 9, 89-99.	3.6	59
14	The impact of traffic barrier geometric features on crash frequency and injury severity of non-interstate highways. Journal of Safety Research, 2020, 75, 155-165.	3.6	11
15	Variables impacting the severity of crashes involving traffic barriers on horizontal curves: actual crash analysis of interstate roads in Wyoming. International Journal of Crashworthiness, 2020, , 1-11.	1.9	2
16	Queue Lengths Produced by the New Synchronized and Milwaukee B Interchanges Compared to Existing Designs. , 2020, , .		4
17	Estimating the effect of geometric features of side traffic barriers on crash severity of interstate roads in Wyoming. Accident Analysis and Prevention, 2020, 144, 105639.	5.7	11
18	Improving Traffic Operations at Service Interchanges using the New Offset Diamond Design. Transportation Research Record, 2020, 2674, 522-536.	1.9	8

#	Article	IF	Citations
19	Modeling traffic barriers crash severity by considering the effect of traffic barrier dimensions. Journal of Modern Transportation, 2019, 27, 141-151.	2.5	12
20	Modeling safety performance of the new super DDI design in terms of vehicular traffic and pedestrian. Accident Analysis and Prevention, 2019, 127, 198-209.	5.7	19
21	Introducing the Super DDI as a Promising Alternative Service Interchange. Transportation Research Record, 2019, 2673, 586-597.	1.9	16
22	Investigating the effect of geometric dimensions of median traffic barriers on crashes: Crash analysis of interstate roads in Wyoming using actual crash datasets. Journal of Safety Research, 2019, 71, 163-171.	3.6	18
23	Application of Multinomial Regression Model to Identify Parameters Impacting Traffic Barrier Crash Severity. Open Transportation Journal, 2019, 13, 57-64.	0.6	4
24	Travel Time Evaluation of Synchronized and Milwaukee B as New Interchange Designs. Journal of Transportation Engineering Part A: Systems, 2018, 144, .	1.4	13
25	Simulation Modeling of Pedestrian Performance in the New Synchronized and Milwaukee B Interchanges versus Existing Designs. Transportation Research Record, 2018, 2672, 151-160.	1.9	12
26	Developing the New Barrier Condition Index (BCI) to Unify the Barrier Assessments - A Case Study in Wind River Indian Reservation, Wyoming. Open Transportation Journal, 2018, 12, 182-191.	0.6	8
27	Safety analysis of the new synchronized and milwaukee B interchanges in comparison to existing designs. Accident Analysis and Prevention, 2017, 109, 29-35.	5.7	20
28	The effect of combined horizontal curve and longitudinal grade on side friction factors. KSCE Journal of Civil Engineering, 2015, 19, 303-310.	1.9	26
29	Simulation Modeling of Dynamic Response of Vehicles to Different Types of Speed Control Humps. , 2014, , .		2
30	Optimization of Speed Hump Profiles Based on Vehicle Dynamic Performance Modeling. Journal of Transportation Engineering, 2014, 140, .	0.9	28
31	Analytical Model of the Effect of Tangent Length between Vertical Curves on Train Derailments. , 2014, , .		0
32	Assessing Road Load Coefficients of a Semi-Trailer Combination Using a Mechanical Simulation Software with Calibration Corrections. SAE International Journal of Commercial Vehicles, 0, 12, 31-44.	0.4	1