

Carlos Sun

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

812
citations

687220

13
h-index

526166

27
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42
all docs

42
docs citations

42
times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Airport Wayfinding Accessibility with the Use of a Wheelchair Simulator. Transportation Research Record, 2021, 2675, 52-60.	1.0	4
2	HSM calibration factor, calibration function, or jurisdiction-specific safety model – A comparative analysis. Journal of Transportation Safety and Security, 2020, 12, 309-328.	1.1	10
3	Immersive Work Zone Inspection Training using Virtual Reality. Transportation Research Record, 2020, 2674, 224-232.	1.0	11
4	Exploring Contributing Factors of Hazardous Events in Construction Zones Using Naturalistic Driving Study Data. IEEE Transactions on Intelligent Vehicles, 2020, 5, 519-527.	9.4	5
5	Mobile Application Development and Testing for Work Zone Activity Real-Time Data Collection. Transportation Research Record, 2020, 2674, 351-362.	1.0	2
6	Simulator and Field Study of Green Lights on Truck-Mounted Attenuators in Missouri during Mobile Operations. Transportation Research Record, 2019, 2673, 769-778.	1.0	3
7	Evaluation of Truck-Mounted Automated Flagger Assistance Devices in Missouri: Case Study. Journal of Transportation Engineering Part A: Systems, 2019, 145, 05019006.	0.8	7
8	Risk Factors in Work Zone Safety Events: A Naturalistic Driving Study Analysis. Transportation Research Record, 2019, 2673, 379-387.	1.0	24
9	Design and Construction of a Virtual Bicycle Simulator for Evaluating Sustainable Facilities Design. Advances in Civil Engineering, 2018, 2018, 1-10.	0.4	10
10	Traffic Flow Modeling of Diverse Work Zone Activities. Transportation Research Record, 2018, 2672, 23-34.	1.0	7
11	Evaluation of variable advisory speed limits in congested work zones. Journal of Transportation Safety and Security, 2017, 9, 123-145.	1.1	11
12	When driving on the left side is safe: Safety of the diverging diamond interchange ramp terminals. Accident Analysis and Prevention, 2017, 100, 133-142.	3.0	14
13	Driving Simulator Study of J-Turn Acceleration–Deceleration Lane and U-Turn Spacing Configurations. Transportation Research Record, 2017, 2638, 26-34.	1.0	5
14	Enhancing Safety Risk Management with Quantitative Measures. Transportation Research Record, 2017, 2603, 1-12.	1.0	4
15	Safety Effect of Diverging Diamond Interchanges on Adjacent Roadway Facilities. Transportation Research Record, 2017, 2618, 78-90.	1.0	3
16	Safety effectiveness and crash cost benefit of red light cameras in Missouri. Traffic Injury Prevention, 2017, 18, 70-76.	0.6	9
17	Design Guidance for J-Turns on Rural High-Speed Expressways. Transportation Research Record, 2017, 2618, 69-77.	1.0	5
18	Investigation of Alternative Bicycle Pavement Markings with the Use of a Bicycle Simulator. Transportation Research Record, 2017, 2662, 143-151.	1.0	8

#	ARTICLE	IF	CITATIONS
19	Site-Specific Safety Analysis of Diverging Diamond Interchange Ramp Terminals. Transportation Research Record, 2016, 2556, 20-28.	1.0	7
20	Maintenance of Traffic for Innovative Geometric Design Work Zones. Transportation Research Record, 2016, 2556, 49-64.	1.0	4
21	Safety Evaluation of Seven of the Earliest Diverging Diamond Interchanges Installed in the United States. Transportation Research Record, 2016, 2583, 25-33.	1.0	17
22	Case Study of an Alternative Merging Sign Design for Temporary Traffic Control in Work Zones. Journal of Transportation Engineering, 2016, 142, 05015005.	0.9	1
23	Safety Evaluation of Diverging Diamond Interchanges in Missouri. Transportation Research Record, 2015, 2486, 1-10.	1.0	14
24	Evaluation of Mobile Work Zone Alarm Systems. Transportation Research Record, 2015, 2485, 42-50.	1.0	10
25	Empirical Evaluation of J-Turn Intersection Performance. Transportation Research Record, 2015, 2486, 11-18.	1.0	19
26	Is Getting an Uber-Lyft from a Sidecar Different from Hailing a Taxi?. Transportation Research Record, 2015, 2536, 60-66.	1.0	15
27	Situation assessment and decision making for lane change assistance using ensemble learning methods. Expert Systems With Applications, 2015, 42, 3875-3882.	4.4	101
28	Traffic Flow Forecasting for Urban Work Zones. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1761-1770.	4.7	97
29	Operational Analysis of a Freeway Variable Speed Limit System in St. Louis, Missouri. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2015, 19, 385-398.	2.6	7
30	Evaluation of Dynamic Message Signs on Rural Freeways: Case Study of a Full Freeway Closure. Journal of Transportation Engineering, 2014, 140, 89-98.	0.9	9
31	Modeling Mandatory Lane Changing Using Bayes Classifier and Decision Trees. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 647-655.	4.7	148
32	Programmatic Examination of Missouri Incentive/Disincentive Contracts for Mitigating Work Zone Traffic Impacts. Journal of Construction Engineering and Management - ASCE, 2014, 140, 05013004.	2.0	7
33	Evaluation of Temporary Ramp Metering for Work Zones. Transportation Research Record, 2013, 2337, 17-24.	1.0	6
34	Analytical Methods for Deriving Work Zone Capacities from Field Data. Journal of Transportation Engineering, 2012, 138, 809-818.	0.9	13
35	Safety Evaluation of Sequential Warning Lights in Tapers at Nighttime Work Zones. Transportation Research Record, 2012, 2272, 1-8.	1.0	2
36	A genetic fuzzy system for modeling mandatory lane changing. , 2012, , .		22

#	ARTICLE	IF	CITATIONS
37	Statistical Test for 85th and 15th Percentile Speeds with Asymptotic Distribution of Sample Quantiles. Transportation Research Record, 2012, 2279, 47-53.	1.0	30
38	Elevated-Risk Work Zone Evaluation of Temporary Rumble Strips. Journal of Transportation Safety and Security, 2011, 3, 157-173.	1.1	10
39	Replication of Work Zone Capacity Values in a Simulation Model. Transportation Research Record, 2009, 2130, 138-148.	1.0	24
40	Microsimulation Calibration Using Speed-Flow Relationships. Transportation Research Record, 2008, 2088, 1-9.	1.0	41
41	Heuristic Vehicle Classification Using Inductive Signatures on Freeways. Transportation Research Record, 2000, 1717, 130-136.	1.0	15
42	Individual Vehicle Speed Estimation Using Single Loop Inductive Waveforms. Journal of Transportation Engineering, 1999, 125, 531-538.	0.9	51