Tony Z Qiu

List of Publications by Year
in descending order

52 papers	639 citations	686830 13 h-index	610482 24 g-index
52 all docs	52 docs citations	52 times ranked	591 citing authors

#	Article	IF	Citations
1	Cell transmission model based variable speed limit control for freeways. Canadian Journal of Civil Engineering, 2013, 40, 46-56.	0.7	92
2	Perspectives on Future Transportation Research: Impact of Intelligent Transportation System Technologies on Next-Generation Transportation Modeling. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2012, 16, 226-242.	2.6	75
3	Variable Speed Limit Control Design for Relieving Congestion Caused by Active Bottlenecks. Journal of Transportation Engineering, 2013, 139, 358-370.	0.9	58
4	A new safe lane-change trajectory model and collision avoidance control method for automatic driving vehicles. Expert Systems With Applications, 2020, 141, 112953.	4.4	47
5	Pedestrian crossing behaviors at uncontrolled multi-lane mid-block crosswalks in developing world. Journal of Safety Research, 2018, 64, 145-154.	1.7	46
6	Modeling Microscopic Car-Following Strategy of Mixed Traffic to Identify Optimal Platoon Configurations for Multiobjective Decision-Making. Journal of Advanced Transportation, 2018, 2018, 1-15.	0.9	30
7	Optimization of snow plowing cost and time in an urban environment: A case study for the City of Edmonton. Canadian Journal of Civil Engineering, 2014, 41, 667-675.	0.7	24
8	Sceneâ€based pedestrian safety performance model in mixed traffic situation. IET Intelligent Transport Systems, 2014, 8, 209-218.	1.7	23
9	Vehicle-to-Pedestrian Communication Modeling and Collision Avoiding Method in Connected Vehicle Environment. Transportation Research Record, 2017, 2621, 21-30.	1.0	21
10	A Multi-Vehicle Longitudinal Trajectory Collision Avoidance Strategy Using AEBS With Vehicle-Infrastructure Communication. IEEE Transactions on Vehicular Technology, 2022, 71, 1253-1266.	3.9	21
11	Introducing Weather Factor Modelling into Macro Traffic State Prediction. Journal of Advanced Transportation, 2017, 2017, 1-15.	0.9	19
12	RSE-Assisted Lane-Level Positioning Method for a Connected Vehicle Environment. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2644-2656.	4.7	17
13	Cooperative Adaptive Cruise Control and exhaust emission evaluation under heterogeneous connected vehicle network environment in urban city. Journal of Environmental Management, 2020, 256, 109975.	3.8	17
14	A micro-simulation study on proactive coordinated ramp metering for relieving freeway congestion. Canadian Journal of Civil Engineering, 2016, 43, 599-608.	0.7	12
15	Platoon Priority Visualization Modeling and Optimization for Signal Coordination in the Connected Vehicle Environment. Transportation Research Record, 2019, 2673, 36-48.	1.0	10
16	METANET model improvement for traffic control. , 2011, , .		9
17	Pixel-based heterogeneous traffic measurement considering shadow and illumination variation. Signal, Image and Video Processing, 2017, 11, 1245-1252.	1.7	9
18	Kalman Filtering Used in Video-Based Traffic Monitoring System. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2006, 10, 15-21.	2.6	8

#	Article	IF	Citations
19	Active Warning System for Highway-Rail Grade Crossings Using Connected Vehicle Technologies. Journal of Advanced Transportation, 2019, 2019, 1-11.	0.9	8
20	Evaluating Performance of a Proactive Optimal Variable Speed Limit Control Using Different Objective Functions. Procedia, Social and Behavioral Sciences, 2013, 96, 2895-2906.	0.5	6
21	Compatibility analysis of macroscopic and microscopic traffic simulation modeling. Canadian Journal of Civil Engineering, 2013, 40, 613-622.	0.7	5
22	DynaTAM: an online algorithm for performing simultaneously optimized proactive traffic control for freeways. Canadian Journal of Civil Engineering, 2014, 41, 315-322.	0.7	5
23	Improving Traffic State Prediction Model for Variable Speed Limit Control by Introducing Stochastic Supply and Demand. Journal of Advanced Transportation, 2018, 2018, 1-12.	0.9	5
24	Signal Priority Request Delay Modeling and Mitigation for Emergency Vehicles in Connected Vehicle Environment. Transportation Research Record, 2018, 2672, 45-57.	1.0	5
25	Connected Vehicle-Cooperative Adaptive Cruise Control Algorithm to Divide and Reform Connected Vehicle Platoons at Signalized Intersections to Improve Traffic Throughput and Safety. Transportation Research Record, 2021, 2675, 995-1005.	1.0	5
26	The Implications of Weather and Reflectivity Variations on Automatic Traffic Sign Recognition Performance. Journal of Advanced Transportation, 2021, 2021, 1-15.	0.9	5
27	Distributed Dynamic Route Guidance and Signal Control for Mobile Edge Computing-Enhanced Connected Vehicle Environment. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12251-12262.	4.7	5
28	Link travel time and delay estimation using transit AVL data. , 2017, , .		4
29	Modeling passengers' perceptions of intercity train service quality for regular and special days. Public Transport, 2019, 11, 549-576.	1.7	4
30	A geostatistical approach to winter road surface condition estimation using mobile RWIS data. Canadian Journal of Civil Engineering, 2019, 46, 511-521.	0.7	4
31	Real-time predictive coordination based on vehicle-triggered platoon dispersion in a low penetration connected vehicle environment. IET Intelligent Transport Systems, 2021, 15, 1548-1561.	1.7	4
32	Heterogeneous Vehicular Platooning with Stable Decentralized Linear Feedback Control. , 2021, , .		4
33	Vehicle-Pedestrian Interaction Analysis in Mixed Traffic Condition. , 2011, , .		3
34	Traffic jam modeling and simulation. , 2012, , .		3
35	Method for Imputing Missing Data using Online Calibration for Urban Freeway Control. Transportation Research Record, 2018, 2672, 44-54.	1.0	3
36	Centralized and Decentralized Signal Control with Short-Term Origin-Destination Demand for Network Traffic. Journal of Advanced Transportation, 2022, 2022, 1-23.	0.9	3

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37	Modeling the impact of work-zone traffic flows upon concrete construction: a high level architecture based simulation framework. Canadian Journal of Civil Engineering, 2014, 41, 144-153.	0.7	2
38	A Geostatistical Investigation into the Effective Spatiotemporal Coverage of Road Weather Information Systems in Alberta, Canada. Journal of Advanced Transportation, 2018, 2018, 1-11.	0.9	2
39	Expansion of the Fundamental Diagram from a Microscopic Multilane Modeling Framework of Mixed Traffic. Journal of Advanced Transportation, 2020, 2020, 1-15.	0.9	2
40	Bifurcation and robust control analysis to tractor-semitrailer with interference on rainy slippery road. Future Generation Computer Systems, 2020, 107, 126-143.	4.9	2
41	Research on Roadside Unit-Assisted Cooperative Positioning Method for a Connected Vehicle Environment. Transportation Research Record, 2022, 2676, 78-90.	1.0	2
42	Adaptive Pushbutton Control for Signalized Pedestrian Midblock Crossings. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	0.8	2
43	Backpressure-Based Distributed Dynamic Route Control for Connected and Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20953-20964.	4.7	2
44	An energy-efficient sub-Nyquist sampling method based on compressed sensing in wireless sensor network for vehicle detection. , 2013, , .		1
45	Integrated performance evaluation of roadside equipment placement for real-time traffic monitoring. , 2014, , .		1
46	Transit travel time prediction for passing signalized intersection using vehicle positioning data. , 2017, , .		1
47	Verification tests for the behavioural theory of multi-lane traffic flow at a weaving segment. , 2017, , .		1
48	Impacts of night-time work-zone speed restrictions on freeway speed characteristics a case study on Edmonton, Canada. , 2017, , .		1
49	Multilane Microscopic Modeling to Measure Mobility and Safety Consequences of Mixed Traffic in Freeway Weaving Sections. Journal of Advanced Transportation, 2021, 2021, 1-21.	0.9	1
50	Introduction for Canadian Journal of Civil Engineering Special Issue of ICTIS 2017. Canadian Journal of Civil Engineering, 2019, 46, v-v.	0.7	0
51	Improved Model for Forward Collision Warning System Based on DSRC. , 2020, , .		0
52	An Occupancy-Based Adaptive Signal Control for a Congested Signalized Intersection in the Low CV Penetration Environment. Journal of Advanced Transportation, 2022, 2022, 1-18.	0.9	0