Qing He

List of Publications by Year
in descending order

89 papers	2,870 citations	257101 24 h-index	189595 50 g-index
89 all docs	89 docs citations	89 times ranked	2512 citing authors

#	Article	IF	Citations
1	A deep learning approach for detecting traffic accidents from social media data. Transportation Research Part C: Emerging Technologies, 2018, 86, 580-596.	3.9	232
2	PAMSCOD: Platoon-based arterial multi-modal signal control with online data. Transportation Research Part C: Emerging Technologies, 2012, 20, 164-184.	3.9	213
3	Recent applications of big data analytics in railway transportation systems: A survey. Transportation Research Part C: Emerging Technologies, 2018, 90, 226-246.	3.9	211
4	Multi-modal traffic signal control with priority, signal actuation and coordination. Transportation Research Part C: Emerging Technologies, 2014, 46, 65-82.	3.9	187
5	Crowdsourcing the last mile delivery of online orders by exploiting the social networks of retail store customers. Transportation Research, Part E: Logistics and Transportation Review, 2017, 105, 105-122.	3.7	184
6	Improving rail network velocity: A machine learning approach to predictive maintenance. Transportation Research Part C: Emerging Technologies, 2014, 45, 17-26.	3.9	156
7	Data-driven optimization of railway maintenance for track geometry. Transportation Research Part C: Emerging Technologies, 2018, 90, 34-58.	3.9	94
8	Prepositioning of assets and supplies in disaster operations management: Review and research gap identification. European Journal of Operational Research, 2020, 284, 1-19.	3.5	94
9	Dynamic modeling and experimental investigation of self-powered sensor nodes for freight rail transport. Applied Energy, 2020, 257, 113969.	5.1	90
10	Heuristic Algorithm for Priority Traffic Signal Control. Transportation Research Record, 2011, 2259, 1-7.	1.0	62
11	Track geometry defect rectification based on track deterioration modelling and derailment risk assessment. Journal of the Operational Research Society, 2015, 66, 392-404.	2.1	61
12	Forecasting the Subway Passenger Flow Under Event Occurrences With Social Media. IEEE Transactions on Intelligent Transportation Systems, 2016, , 1-10.	4.7	58
13	Forecasting current and next trip purpose with social media data and Google Places. Transportation Research Part C: Emerging Technologies, 2018, 97, 159-174.	3.9	56
14	Online Travel Mode Identification Using Smartphones With Battery Saving Considerations. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2921-2934.	4.7	54
15	Spatial-temporal traffic flow pattern identification and anomaly detection with dictionary-based compression theory in a large-scale urban network. Transportation Research Part C: Emerging Technologies, 2016, 71, 284-302.	3.9	52
16	Exploring the impact of foot-by-foot track geometry on the occurrence of rail defects. Transportation Research Part C: Emerging Technologies, 2019, 102, 153-172.	3.9	52
17	FASCINATE. , 2016, , .		50
18	Potentials of using social media to infer the longitudinal travel behavior: A sequential model-based clustering method. Transportation Research Part C: Emerging Technologies, 2017, 85, 396-414.	3.9	47

#	ARTICLE	IF	CITATIONS
19	Modeling the Impacts of Inclement Weather on Freeway Traffic Speed. Transportation Research Record, 2015, 2482, 82-89.	1.0	41
20	Prediction of Railcar Remaining Useful Life by Multiple Data Source Fusion. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2226-2235.	4.7	40
21	School Bus Routing with Stochastic Demand and Duration Constraints. Transportation Science, 2017, 51, 1349-1364.	2.6	37
22	A robust method for estimating transit passenger trajectories using automated data. Transportation Research Part C: Emerging Technologies, 2018, 95, 731-747.	3.9	37
23	Facets. , 2015, , .		36
24	Incident Duration Prediction with Hybrid Tree-based Quantile Regression. Complex Networks and Dynamic Systems, 2013, , 287-305.	0.6	32
25	Performance Test of Autonomous Vehicle Lidar Sensors Under Different Weather Conditions. Transportation Research Record, 2020, 2674, 319-329.	1.0	27
26	A deep reinforcement learning approach for rail renewal and maintenance planning. Reliability Engineering and System Safety, 2022, 225, 108615.	5.1	26
27	Predicting rail defect frequency: An integrated approach using fatigue modeling and data analytics. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 101-115.	6.3	24
28	Estimation of railway track longitudinal irregularity using vehicle response with information compression and Bayesian deep learning. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1260-1276.	6.3	24
29	Travel purpose inference with GPS trajectories, POIs, and geo-tagged social media data. , 2017, , .		22
30	Performance measure for reliable travel time of emergency vehicles. Transportation Research Part C: Emerging Technologies, 2016, 65, 97-110.	3.9	21
31	Traffic signal control with partial grade separation for oversaturated conditions. Transportation Research Part C: Emerging Technologies, 2016, 71, 267-283.	3.9	21
32	An electromagnetic vibration energy harvester using a magnet-array-based vibration-to-rotation conversion mechanism. Energy Conversion and Management, 2022, 253, 115146.	4.4	21
33	Cooperative and Integrated Vehicle and Intersection Control for Energy Efficiency (CIVIC-E^2). IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2325-2337.	4.7	19
34	Travel Behavior Classification: An Approach with Social Network and Deep Learning. Transportation Research Record, 2018, 2672, 68-80.	1.0	19
35	Deep Learning for the Detection and Recognition of Rail Defects in Ultrasound B-Scan Images. Transportation Research Record, 2021, 2675, 888-901.	1.0	19
36	Analysis, design and testing of a rolling magnet harvester with diametrical magnetization for train vibration. Applied Energy, 2021, 300, 117373.	5.1	18

#	Article	IF	Citations
37	Exploratory Study on Correlation Between Twitter Concentration and Traffic Surges. Transportation Research Record, 2016, 2553, 90-98.	1.0	17
38	Analyzing travel time reliability and its influential factors of emergency vehicles with generalized extreme value theory. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 1-11.	2.6	17
39	Special need students school bus routing: Consideration for mixed load and heterogeneous fleet. Socio-Economic Planning Sciences, 2019, 65, 10-19.	2.5	17
40	Underground Metro Interstation Horizontal-Alignment Optimization with an Augmented Rapidly Exploring Random-Tree Connect Algorithm. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	17
41	Capacity Analysis and Cooperative Lane Changing for Connected and Automated Vehicles: Entropy-Based Assessment Method. Transportation Research Record, 2019, 2673, 485-498.	1.0	15
42	Modelling, simulation, and experimental verification of a pendulum-flywheel vibrational energy harvester. Smart Materials and Structures, 2020, 29, 115023.	1.8	15
43	CUFuse: Camera and Ultrasound Data Fusion for Rail Defect Detection. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21971-21983.	4.7	15
44	Modeling Traffic Control Agency Decision Behavior for Multimodal Manual Signal Control Under Event Occurrences. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2467-2478.	4.7	14
45	Spatial–Temporal Model to Identify the Deformation of Underlying High-Speed Railway Infrastructure. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	14
46	A feature engineering framework for online fault diagnosis of freight train air brakes. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109672.	2.5	14
47	Low-construction-emission cross-section optimization for mountainous highway alignment designs. Transportation Research, Part D: Transport and Environment, 2022, 105, 103249.	3.2	14
48	Estimating freeway route travel time distributions with consideration to time–of–day, inclement weather, and traffic incidents. Journal of Advanced Transportation, 2016, 50, 967-987.	0.9	13
49	Performance Measures of Manual Multimodal Traffic Signal Control. Transportation Research Record, 2014, 2438, 55-63.	1.0	12
50	Bayesian Survival Approach to Analyzing the Risk of Recurrent Rail Defects. Transportation Research Record, 2019, 2673, 281-293.	1.0	12
51	Predicting gasoline shortage during disasters using social media. OR Spectrum, 2020, 42, 693-726.	2.1	12
52	Data-driven robust strategies for joint optimization of rail renewal and maintenance planning. Omega, 2021, 103, 102379.	3.6	12
53	Foreign object detection for railway ballastless trackbeds: A semisupervised learning method. Measurement: Journal of the International Measurement Confederation, 2022, 190, 110757.	2.5	12
54	PAMSCOD: Platoon-based Arterial Multi-modal Signal Control with Online Data. Procedia, Social and Behavioral Sciences, 2011, 17, 462-489.	0.5	11

#	Article	IF	Citations
55	Understanding and Modeling the Social Preferences for Riders in Rideshare Matching. Transportation, 2021, 48, 1809-1835.	2.1	11
56	Heuristic algorithms to solve 0&amp;#x2013;1 mixed integer LP formulations for traffic signal control problems. , 2010, , .		10
57	A multi-objective optimization approach to the location of road weather information system in New York State. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2018, 22, 503-516.	2.6	10
58	Bilevel Optimization of Intercity Railway Alignment. Transportation Research Record, 2021, 2675, 985-1002.	1.0	10
59	Estimation of rail renewal period in small radius Curves: A data and mechanics integrated approach. Measurement: Journal of the International Measurement Confederation, 2021, 185, 110038.	2.5	10
60	Joint Prediction of Remaining Useful Life and Failure Type of Train Wheelsets: Multitask Learning Approach. Journal of Transportation Engineering Part A: Systems, 2018, 144, .	0.8	9
61	Same-Day Delivery with Crowdshipping and Store Fulfillment in Daily Operations. Transportation Research Procedia, 2019, 38, 894-913.	0.8	9
62	Optimal Variable, Lane Groupâ€"Based Speed Limits at Freeway Lane Drops: A Multiobjective Approach. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	7
63	Forecasting Risk of Service Failures Between Successive Rail Inspections: A Data-Driven Approach. Journal of Big Data Analytics in Transportation, 2020, 2, 17-31.	1.4	7
64	Rail breaks arrival rate prediction: A physics-informed data-driven analysis for railway tracks. Measurement: Journal of the International Measurement Confederation, 2021, 172, 108858.	2.5	7
65	Fault Diagnosis for Rolling Bearings of a Freight Train under Limited Fault Data: Few-Shot Learning Method. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	0.8	7
66	Analyzing Risk of Service Failures in Heavy Haul Rail Lines: A Hybrid Approach for Imbalanced Data. Risk Analysis, 2022, 42, 1852-1871.	1.5	7
67	Vertical track irregularity analysis of high-speed railways on simply-supported beam bridges based on the virtual track inspection method. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 328-338.	1.3	7
68	Automated Vehicle Control at Freeway Lane-drops: a Deep Reinforcement Learning Approach. Journal of Big Data Analytics in Transportation, 2020, 2, 147-166.	1.4	6
69	Using Vehicle Interior Noise Classification for Monitoring Urban Rail Transit Infrastructure. Sensors, 2020, 20, 1112.	2.1	6
70	Generating a synthetic probabilistic daily activity-location schedule using large-scale, long-term and low-frequency smartphone GPS data with limited activity information. Transportation Research Part C: Emerging Technologies, 2021, 132, 103408.	3.9	6
71	A multifunctional electromagnetic device for vibration energy harvesting and rail corrugation sensing. Smart Materials and Structures, 2021, 30, 125012.	1.8	6
72	Cross-Dependency Inference in Multi-Layered Networks. ACM Transactions on Knowledge Discovery From Data, 2017, 11, 1-26.	2.5	5

#	Article	IF	Citations
73	Inferring Twitters'€™ Socio-demographics to Correct Sampling Bias of Social Media Data for Augmenting Travel Behavior Analysis. Journal of Big Data Analytics in Transportation, 2021, 3, 159-174.	1.4	5
74	Using Dynamic Flashing Yellow for Traffic Signal Control under Emergency Evacuation. Transportation Research Record, 2015, 2532, 154-163.	1.0	4
75	Personalized travel mode detection with smartphone sensors. , 2017, , .		4
76	Towards the Inference of Travel Purpose with Heterogeneous Urban Data. IEEE Transactions on Big Data, 2022, 8, 166-177.	4.4	4
77	Using Microsimulation to Estimate Effects of Boarding Conditions on Bus Dwell Time and Schedule Adherence for Passengers with Mobility Limitations. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	4
78	Forecasting Urban Rail Transit Vehicle Interior Noise and Its Applications in Railway Alignment Design. Journal of Advanced Transportation, 2020, 2020, 1-13.	0.9	3
79	On the analysis of an idealized model to manage gasoline supplies in a short-notice hurricane evacuation. OR Spectrum, 2022, 44, 911-945.	2.1	3
80	Railway tie deterioration interval estimation with Bayesian deep learning and data-driven maintenance strategy. Construction and Building Materials, 2022, 342, 128040.	3.2	3
81	Predicting failure times of railcar wheels and trucks by using wayside detector signals. , 2014, , .		2
82	Optimal routing of infiltration operations. Journal of Transportation Security, 2016, 9, 87-104.	0.9	2
83	Social Media in Transportation Research and Promising Applications. Complex Networks and Dynamic Systems, 2019, , 23-45.	0.6	2
84	The simulation research for the ATO model based on fussy predictive control. , 0, , .		1
85	Factors Affecting International Border Crossing Delays Based Upon a Rich Bluetooth Dataset. Journal of Big Data Analytics in Transportation, 2020, 2, 33-47.	1.4	1
86	Preliminary Safety Evaluation of Self-Driving, Low-Speed Shuttle. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	0.8	1
87	USING EXTREME VALUE THEORY TO IDENTIFY RAILCAR ASYMMETRIC WHEEL WEAR AND ITS BENEFIT ANALYSIS. Transport, 2019, 34, 569-578.	0.6	1
88	Multi-Modal Traffic Signal Control in Shared Space Street. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 392-403.	4.7	0
89	Realign Existing Railway Curves without Key Parameter Information. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	0.8	0