Hesham Rakha

List of Publications by Year
in descending order

331 papers	9,385 citations	46984 47 h-index	62565 80 g-index
345 all docs	345 docs citations	345 times ranked	5020 citing authors

#	Article	IF	Citations
1	Estimating Vehicle Fuel Consumption and Emissions based on Instantaneous Speed and Acceleration Levels. Journal of Transportation Engineering, 2002, 128, 182-190.	0.9	611
2	Power-based electric vehicle energy consumption model: Model development and validation. Applied Energy, 2016, 168, 257-268.	5.1	376
3	Development of VT-Micro model for estimating hot stabilized light duty vehicle and truck emissions. Transportation Research, Part D: Transport and Environment, 2004, 9, 49-74.	3.2	312
4	The effects of route choice decisions on vehicle energy consumption and emissions. Transportation Research, Part D: Transport and Environment, 2008, 13, 151-167.	3.2	243
5	Virginia Tech Comprehensive Power-Based Fuel Consumption Model: Model development and testing. Transportation Research, Part D: Transport and Environment, 2011, 16, 492-503.	3.2	230
6	Comparison of delay estimates at under-saturated and over-saturated pre-timed signalized intersections. Transportation Research Part B: Methodological, 2004, 38, 99-122.	2.8	219
7	Applying Machine Learning Techniques to Transportation Mode Recognition Using Mobile Phone Sensor Data. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2406-2417.	4.7	212
8	Eco-driving at signalized intersections using V2I communication. , 2011, , .		174
9	Vehicle Dynamics Model for Predicting Maximum Truck Acceleration Levels. Journal of Transportation Engineering, 2001, 127, 418-425.	0.9	166
10	Intersection Management via Vehicle Connectivity: The Intersection Cooperative Adaptive Cruise Control System Concept. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 17-32.	2.6	131
11	Comparison of Greenshields, Pipes, and Van Aerde Car-Following and Traffic Stream Models. Transportation Research Record, 2002, 1802, 248-262.	1.0	126
12	Comparison of MOBILE5a, MOBILE6, VT-MICRO, and CMEM models for estimating hot-stabilized light-duty gasoline vehicle emissions. Canadian Journal of Civil Engineering, 2003, 30, 1010-1021.	0.7	123
13	Estimating dynamic roadway travel times using automatic vehicle identification data for low sampling rates. Transportation Research Part B: Methodological, 2006, 40, 745-766.	2.8	115
14	Requirements for Evaluating Traffic Signal Control Impacts on Energy and Emissions Based on Instantaneous Speed and Acceleration Measurements. Transportation Research Record, 2000, 1738, 56-67.	1.0	113
15	Evaluation of Potential Transit Signal Priority Benefits along a Fixed-Time Signalized Arterial. Journal of Transportation Engineering, 2004, 130, 294-303.	0.9	109
16	Comparative field evaluation of vehicle cruise speed and acceleration level impacts on hot stabilized emissions. Transportation Research, Part D: Transport and Environment, 2005, 10, 13-30.	3.2	107
17	Developing Passenger Car Equivalency Factors for Heavy Vehicles during Congestion. Journal of Transportation Engineering, 2005, 131, 514-523.	0.9	106
18	Characterizing Driver Behavior on Signalized Intersection Approaches at the Onset of a Yellow-Phase Trigger. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 630-640.	4.7	99

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19	Vehicle Dynamics Model for Estimating Maximum Light-Duty Vehicle Acceleration Levels. Transportation Research Record, 2004, 1883, 40-49.	1.0	95
20	Intersection management for autonomous vehicles using iCACC. , 2012, , .		93
21	Impact of Stops on Vehicle Fuel Consumption and Emissions. Journal of Transportation Engineering, 2003, 129, 23-32.	0.9	92
22	Developing an Optimal Intersection Control System for Automated Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1908-1916.	4.7	91
23	Eco-Cooperative Adaptive Cruise Control at Signalized Intersections Considering Queue Effects. IEEE Transactions on Intelligent Transportation Systems, 2016, , 1-11.	4.7	88
24	Integration Modeling Framework for Estimating Mobile Source Emissions. Journal of Transportation Engineering, 2004, 130, 183-193.	0.9	87
25	Inclement Weather Impacts on Freeway Traffic Stream Behavior. Transportation Research Record, 2008, 2071, 8-18.	1.0	86
26	An Intersection Game-Theory-Based Traffic Control Algorithm in a Connected Vehicle Environment. , 2015, , .		84
27	Trip Travel-Time Reliability: Issues and Proposed Solutions. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2010, 14, 232-250.	2.6	81
28	Freeway Speed Harmonization. IEEE Transactions on Intelligent Vehicles, 2016, 1, 78-89.	9.4	79
29	Network-wide impacts of eco-routing strategies: A large-scale case study. Transportation Research, Part D: Transport and Environment, 2013, 25, 119-130.	3.2	76
30	A discrete optimization approach for locating Automatic Vehicle Identification readers for the provision of roadway travel times. Transportation Research Part B: Methodological, 2006, 40, 857-871.	2.8	75
31	Fuel consumption model for conventional diesel buses. Applied Energy, 2016, 170, 394-402.	5.1	73
32	Multistate Model for Travel Time Reliability. Transportation Research Record, 2010, 2188, 46-54.	1.0	72
33	Variable Power Vehicle Dynamics Model for Estimating Truck Accelerations. Journal of Transportation Engineering, 2002, 128, 412-419.	0.9	69
34	Fuel consumption model for heavy duty diesel trucks: Model development and testing. Transportation Research, Part D: Transport and Environment, 2017, 55, 127-141.	3.2	68
35	Deriving macroscopic fundamental diagrams from probe data: Issues and proposed solutions. Transportation Research Part C: Emerging Technologies, 2016, 66, 136-149.	3.9	62
36	Red-light running violation prediction using observational and simulator data. Accident Analysis and Prevention, 2016, 96, 316-328.	3.0	60

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37	A comparative analysis of e-scooter and e-bike usage patterns: Findings from the City of Austin, TX. International Journal of Sustainable Transportation, 2021, 15, 571-579.	2.1	60
38	Game theory algorithm for intersection-based cooperative adaptive cruise control (CACC) systems. , 2012, , .		59
39	Real-time travel time prediction using particle filtering with a non-explicit state-transition model. Transportation Research Part C: Emerging Technologies, 2014, 43, 112-126.	3.9	59
40	INTEGRATION Framework for Modeling Eco-routing Strategies: Logic and Preliminary Results. International Journal of Transportation Science and Technology, 2012, 1, 259-274.	2.0	58
41	Multi-stage dynamic programming algorithm for eco-speed control at traffic signalized intersections. , 2013, , .		58
42	Calibrating Steady-State Traffic Stream and Car-Following Models Using Loop Detector Data. Transportation Science, 2010, 44, 151-168.	2.6	57
43	Vehicle fuel consumption and emission modelling: an in-depth literature review. International Journal of Vehicle Systems Modelling and Testing, 2011, 6, 318.	0.1	57
44	A simplified behavioral vehicle longitudinal motion model. Transportation Letters, 2009, 1, 95-110.	1.8	55
45	Imputing Erroneous Data of Single-Station Loop Detectors for Nonincident Conditions: Comparison Between Temporal and Spatial Methods. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2012, 16, 159-176.	2.6	54
46	A methodology for assessing eco-cruise control for passenger vehicles. Transportation Research, Part D: Transport and Environment, 2013, 19, 20-27.	3.2	54
47	Electric train energy consumption modeling. Applied Energy, 2017, 193, 346-355.	5.1	54
48	Game Theoretical Approach to Model Decision Making for Merging Maneuvers at Freeway On-Ramps. Transportation Research Record, 2017, 2623, 19-28.	1.0	54
49	A field evaluation case study of the environmental and energy impacts of traffic calming. Transportation Research, Part D: Transport and Environment, 2009, 14, 411-424.	3.2	53
50	Application of Naturalistic Driving Data to Modeling of Driver Car-Following Behavior. Transportation Research Record, 2013, 2390, 20-33.	1.0	53
51	Dynamic travel time prediction using data clustering and genetic programming. Transportation Research Part C: Emerging Technologies, 2014, 42, 82-98.	3.9	52
52	Modeling bike counts in a bike-sharing system considering the effect of weather conditions. Case Studies on Transport Policy, 2019, 7, 261-268.	1.1	51
53	Validation of Van Aerde's simplified steadystate car-following and traffic stream model. Transportation Letters, 2009, 1, 227-244.	1.8	49
54	Leveraging Connected Vehicle Technology and Telematics to Enhance Vehicle Fuel Efficiency in the Vicinity of Signalized Intersections. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 33-44.	2.6	49

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55	Eco-Driving at Signalized Intersections: A Multiple Signal Optimization Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2943-2955.	4.7	48
56	Construction and Calibration of a Large-Scale Microsimulation Model of the Salt Lake Area. Transportation Research Record, 1998, 1644, 93-102.	1.0	47
57	Energy and Environmental Impacts of Roadway Grades. Transportation Research Record, 2006, 1987, 148-160.	1.0	45
58	COVID-19 pandemic impacts on traffic system delay, fuel consumption and emissions. International Journal of Transportation Science and Technology, 2021, 10, 184-196.	2.0	45
59	Estimating Vehicle Stops at Undersaturated and Oversaturated Fixed-Time Signalized Intersections. Transportation Research Record, 2001, 1776, 128-137.	1.0	43
60	Evaluation of Driver Deceleration Behavior at Signalized Intersections. Transportation Research Record, 2007, 2018, 29-35.	1.0	43
61	Modeling Driver Behavior within a Signalized Intersection Approach Decisionâ€"Dilemma Zone. Transportation Research Record, 2008, 2069, 16-25.	1.0	43
62	Ecodrive Application. Transportation Research Record, 2013, 2341, 1-11.	1.0	43
63	Traffic Signal Coordination Across Jurisdictional Boundaries: Field Evaluation of Efficiency, Energy, Environmental, and Safety Impacts. Transportation Research Record, 2000, 1727, 42-51.	1.0	42
64	Evaluation of Service Reliability Impacts of Traffic Signal Priority Strategies for Bus Transit. Transportation Research Record, 2003, 1841, 23-31.	1.0	41
65	Estimation of Origin-Destination Matrices: Relationship Between Practical and Theoretical Considerations. Transportation Research Record, 2003, 1831, 122-130.	1.0	40
66	Estimating Traffic Stream Space Mean Speed and Reliability from Dual- and Single-Loop Detectors. , 0, .		39
67	Analytical Procedures for Estimating Capacity of Freeway Weaving, Merge, and Diverge Sections. Journal of Transportation Engineering, 2006, 132, 618-628.	0.9	38
68	Smartphone Transportation Mode Recognition Using a Hierarchical Machine Learning Classifier and Pooled Features From Time and Frequency Domains. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 244-252.	4.7	38
69	Assessment of Alternative Polynomial Fuel Consumption Models for Use in Intelligent Transportation Systems Applications. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2013, 17, 294-303.	2.6	37
70	Virginia Tech Comprehensive Power-based Fuel Consumption Model (VT-CPFM): Model Validation and Calibration Considerations. International Journal of Transportation Science and Technology, 2013, 2, 317-336.	2.0	37
71	Procedure for Calibrating Gipps Car-Following Model. Transportation Research Record, 2009, 2124, 113-124.	1.0	36
72	Field implementation and testing of an automated eco-cooperative adaptive cruise control system in the vicinity of signalized intersections. Transportation Research, Part D: Transport and Environment, 2019, 67, 244-262.	3.2	36

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73	Sensitivity Analysis of Transit Signal Priority Impacts on Operation of a Signalized Intersection. Journal of Transportation Engineering, 2004, 130, 796-804.	0.9	35
74	Simple Vehicle Powertrain Model for Modeling Intelligent Vehicle Applications. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 770-780.	4.7	35
75	Networkwide Impacts of Vehicle Ecospeed Control in the Vicinity of Traffic Signalized Intersections. Transportation Research Record, 2015, 2503, 91-99.	1.0	35
76	A real-time vehicle-specific eco-routing model for on-board navigation applications capturing transient vehicle behavior. Transportation Research Part C: Emerging Technologies, 2019, 104, 1-21.	3.9	35
77	INTEGRATION 2.30 Framework for Modeling Lane-Changing Behavior in Weaving Sections. Transportation Research Record, 2004, 1883, 140-149.	1.0	33
78	Multistate Travel Time Reliability Models with Skewed Component Distributions. Transportation Research Record, 2012, 2315, 47-53.	1.0	33
79	Energy and Environmental Assessment of High-Speed Roundabouts. Transportation Research Record, 2009, 2123, 54-65.	1.0	32
80	Predictive eco-cruise control: Algorithm and potential benefits. , 2011, , .		32
81	Modeling bike availability in a bike-sharing system using machine learning. , 2017, , .		32
82	Comparison and calibration of FRESIM and INTEGRATION steady-state car-following behavior. Transportation Research, Part A: Policy and Practice, 2003, 37, 1-27.	2.0	31
83	Modeling Driver Merging Behavior: A Repeated Game Theoretical Approach. Transportation Research Record, 2018, 2672, 144-153.	1.0	31
84	Vehicle Platooning Impact on Drag Coefficients and Energy/Fuel Saving Implications. IEEE Transactions on Vehicular Technology, 2022, 71, 1199-1208.	3.9	31
85	Energy and Environmental Impacts of Roadway Grades. Transportation Research Record, 2006, 1987, 148-160.	1.0	29
86	Variability of traffic-flow measures across freeway lanes. Canadian Journal of Civil Engineering, 1999, 26, 270-281.	0.7	28
87	Longitudinal train dynamics model for a rail transit simulation system. Transportation Research Part C: Emerging Technologies, 2018, 86, 111-123.	3.9	28
88	A novel vehicle dynamics and human behavior car-following model: Model development and preliminary testing. International Journal of Transportation Science and Technology, 2020, 9, 14-28.	2.0	28
89	Vehicle Dynamics Model for Estimating Typical Vehicle Accelerations. Transportation Research Record, 2015, 2491, 61-71.	1.0	27
90	Adopting Machine Learning Methods to Predict Red-light Running Violations. , 2015, , .		27

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91	Development and Testing of a 3G/LTE Adaptive Data Collection System in Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 240-249.	4.7	27
92	Real-time optimal intersection control system for automated/cooperative vehicles. International Journal of Transportation Science and Technology, 2019, 8, 1-12.	2.0	27
93	Modeling driver stop/run behavior at the onset of a yellow indication considering driver run tendency and roadway surface conditions. Accident Analysis and Prevention, 2015, 83, 90-100.	3.0	26
94	Microscopic series plug-in hybrid electric vehicle energy consumption model: Model development and validation. Transportation Research, Part D: Transport and Environment, 2018, 63, 175-185.	3.2	26
95	A study of the environmental impacts of intelligent automated vehicle control at intersections via V2V and V2I communications. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 41-59.	2.6	26
96	Traffic Networks: Dynamic Traffic Routing, Assignment, and Assessment. , 2009, , 9429-9470.		26
97	Modeling Evaluation of Ecoâ€"Cooperative Adaptive Cruise Control in Vicinity of Signalized Intersections. Transportation Research Record, 2016, 2559, 108-119.	1.0	25
98	Microframework for Modeling of High-Emitting Vehicles. Transportation Research Record, 2004, 1880, 39-49.	1.0	24
99	A Fully-Distributed Heuristic Algorithm for Control of Autonomous Vehicle Movements at Isolated Intersections. International Journal of Transportation Science and Technology, 2014, 3, 297-309.	2.0	24
100	Feedback control speed harmonization algorithm: Methodology and preliminary testing. Transportation Research Part C: Emerging Technologies, 2017, 81, 209-226.	3.9	24
101	A Repeated Game Freeway Lane Changing Model. Sensors, 2020, 20, 1554.	2.1	24
102	Using Global Positioning System Data for Field Evaluation of Energy and Emission Impact of Traffic Flow Improvement Projects: Issues and Proposed Solutions. Transportation Research Record, 2001, 1768, 210-223.	1.0	23
103	Development and Preliminary Field Testing of an In-Vehicle Eco-Speed Control System in the Vicinity of Signalized Intersections. IFAC-PapersOnLine, 2016, 49, 249-254.	0.5	23
104	Ecological and safe driving: A model predictive control approach considering spatial and temporal constraints. Transportation Research, Part D: Transport and Environment, 2019, 67, 208-222.	3.2	23
105	Trip-Based Explanatory Variables For Estimating Vehicle Fuel Consumption and Emission Rates. Water, Air and Soil Pollution, 2002, 2, 61-77.	0.8	22
106	Procedures for Calibrating TRANSYT Platoon Dispersion Model. Journal of Transportation Engineering, 2006, 132, 548-554.	0.9	22
107	VT-Meso model framework for estimating hot-stabilized light-duty vehicle fuel consumption and emission rates. Canadian Journal of Civil Engineering, 2011, 38, 1274-1286.	0.7	22
108	Predictive Ecocruise Control System. Transportation Research Record, 2012, 2270, 113-123.	1.0	22

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109	Modeling the capacity drop phenomenon at freeway bottlenecks using the INTEGRATION software. Transportation Letters, 2012, 4, 227-242.	1.8	22
110	Computing optimum traffic signal cycle length considering vehicle delay and fuel consumption. Transportation Research Interdisciplinary Perspectives, 2019, 3, 100021.	1.6	22
111	Estimating Traffic Stream Space Mean Speed and Reliability from Dual- and Single-Loop Detectors. Transportation Research Record, 2005, 1925, 38-47.	1.0	21
112	Calibration Procedure for Gipps Car-Following Model. Transportation Research Record, 2007, 1999, 115-127.	1.0	21
113	Calibration Issues for Multistate Model of Travel Time Reliability. Transportation Research Record, 2010, 2188, 74-84.	1.0	21
114	Modeling Inclement Weather Impacts on Traffic Stream Behavior. International Journal of Transportation Science and Technology, 2012, 1, 25-47.	2.0	21
115	Optimum routing of battery electric vehicles: Insights using empirical data and microsimulation. Transportation Research, Part D: Transport and Environment, 2018, 64, 262-272.	3.2	21
116	Dynamic linear models to predict bike availability in a bike sharing system. International Journal of Sustainable Transportation, 2020, 14, 232-242.	2.1	21
117	Empirical Analysis of Effects of Wait Time and Rain Intensity on Driver Left-Turn Gap Acceptance Behavior. Transportation Research Record, 2010, 2173, 1-10.	1.0	20
118	Real-Time Estimation of Vehicle Counts on Signalized Intersection Approaches Using Probe Vehicle Data. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2719-2729.	4.7	20
119	Validation of the Rakha-Pasumarthy-Adjerid car-following model for vehicle fuel consumption and emission estimation applications. Transportation Research, Part D: Transport and Environment, 2017, 55, 246-261.	3.2	19
120	Real-time freeway traffic state prediction: A particle filter approach. , 2011, , .		18
121	Impact of Driver and Surrounding Traffic on Vehicle Deceleration Behavior at Onset of Yellow Indication. Transportation Research Record, 2011, 2248, 10-20.	1.0	18
122	Modeling Differences in Driver Left-Turn Gap Acceptance Behavior Using Bayesian and Bootstrap Approaches. Procedia, Social and Behavioral Sciences, 2011, 16, 739-750.	0.5	18
123	Virginia Tech Comprehensive Power-Based Fuel Consumption Model. Transportation Research Record, 2014, 2428, 1-9.	1.0	18
124	Isolated traffic signal control using a game theoretic framework. , 2016, , .		18
125	Multi-step prediction of experienced travel times using agent-based modeling. Transportation Research Part C: Emerging Technologies, 2016, 71, 108-121.	3.9	18
126	Network and station-level bike-sharing system prediction: a San Francisco bay area case study. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2022, 26, 602-612.	2.6	18

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127	Driver route choice behavior: Experiences, perceptions, and choices. , 2010, , .		17
128	Multi-state travel time reliability model: Impact of incidents on travel time reliability. , 2011, , .		17
129	Developing a Neural–Kalman Filtering Approach for Estimating Traffic Stream Density Using Probe Vehicle Data. Sensors, 2019, 19, 4325.	2.1	17
130	A Novel Decentralized Game-Theoretic Adaptive Traffic Signal Controller: Large-Scale Testing. Sensors, 2019, 19, 2282.	2.1	17
131	Field Evaluation of Energy and Environmental Impacts of Driver Route Choice Decisions. , 2007, , .		16
132	Derivation of Van Aerde Traffic Stream Model from Tandem-Queuing Theory. Transportation Research Record, 2009, 2124, 18-27.	1.0	16
133	Modeling Fuel Consumption of Hybrid Electric Buses: Model Development and Comparison with Conventional Buses. Transportation Research Record, 2016, 2539, 94-102.	1.0	16
134	Steady-State Car-Following Time Gaps: An Empirical Study Using Naturalistic Driving Data. Journal of Advanced Transportation, 2019, 2019, 1-9.	0.9	16
135	Issues and Solutions to Macroscopic Traffic Dispersion Modeling. Journal of Transportation Engineering, 2006, 132, 555-564.	0.9	15
136	An experimental exploration of route choice: Identifying drivers choices and choice patterns, and capturing network evolution. , 2010, , .		15
137	Agent-based modeling of Eco-Cooperative Adaptive Cruise Control systems in the vicinity of intersections. , 2012, , .		15
138	Enhancing Roundabout Operations via Vehicle Connectivity. Transportation Research Record, 2013, 2381, 91-100.	1.0	15
139	Reducing Vehicle Fuel Consumption and Delay at Signalized Intersections: Controlled-Field Evaluation of Effectiveness of Infrastructure-to-Vehicle Communication. Transportation Research Record, 2017, 2621, 10-20.	1.0	15
140	A novel approach for estimation of dynamic from static origin–destination matrices. Transportation Letters, 2019, 11, 219-228.	1.8	15
141	A Novel Supervised Clustering Algorithm for Transportation System Applications. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 222-232.	4.7	15
142	Sliding Mode Network Perimeter Control. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2933-2942.	4.7	15
143	Development and Testing of a Novel Game Theoretic De-Centralized Traffic Signal Controller. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 231-242.	4.7	15
144	Spatiotemporal Traffic State Prediction Based on Discriminatively Pre-trained Deep Neural Networks. Advances in Science, Technology and Engineering Systems, 2017, 2, 678-686.	0.4	15

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145	Estimating Truck Equivalencies for Freeway Sections. Transportation Research Record, 2007, 2027, 73-84.	1.0	14
146	Novel Stochastic Procedure for Designing Yellow Intervals at Signalized Intersections. Journal of Transportation Engineering, 2012, 138, 751-759.	0.9	14
147	Fuel Economy Impacts of Manual, Conventional Cruise Control, and Predictive Eco-Cruise Control Driving. International Journal of Transportation Science and Technology, 2013, 2, 227-242.	2.0	14
148	Latent Class Choice Model of Heterogeneous Drivers' Route Choice Behavior Based on Learning in a Real-World Experiment. Transportation Research Record, 2013, 2334, 84-94.	1.0	14
149	Enhancing and Calibrating the Rakha-Pasumarthy-Adjerid Car-Following Model using Naturalistic Driving Data. International Journal of Transportation Science and Technology, 2014, 3, 229-247.	2.0	14
150	Convex Fuel Consumption Model for Diesel and Hybrid Buses. Transportation Research Record, 2017, 2647, 50-60.	1.0	14
151	Queue length estimation using conventional vehicle detector and probe vehicle data. , 2012, , .		13
152	City-Wide Eco-Routing Navigation Considering Vehicular Communication Impacts. Sensors, 2019, 19, 290.	2.1	13
153	The wireless control plane: An overview and directions for future research. Journal of Network and Computer Applications, 2019, 126, 104-122.	5.8	13
154	Truck Performance Curves Reflective of Truck and Pavement Characteristics. Journal of Transportation Engineering, 2004, 130, 753-767.	0.9	12
155	Agent-based behavioral modeling framework of driver behavior at the onset of yellow indication at signalized intersections. , 2011, , .		12
156	Sensitivity Analysis of Combined Distribution–Assignment Model with Applications. Transportation Research Record, 2012, 2284, 10-20.	1.0	12
157	MODELING AND ESTIMATING THE CAPACITY OF URBAN TRANSPORTATION NETWORK WITH RAPID TRANSIT. Transport, 2014, 29, 165-174.	0.6	12
158	Classification of Driver Stop/Run Behavior at the Onset of a Yellow Indication for Different Vehicles and Roadway Surface Conditions Using Historical Behavior. Procedia Manufacturing, 2015, 3, 858-865.	1.9	12
159	Estimation of Traffic Stream Density Using Connected Vehicle Data: Linear and Nonlinear Filtering Approaches. Sensors, 2020, 20, 4066.	2.1	12
160	Comparison of Simulation Modules of TRANSYT and INTEGRATION Models. Transportation Research Record, 1996, 1566, 1-7.	1.0	12
161	Evaluating Alternative Truck Management Strategies Along Interstate 81. Transportation Research Record, 2005, 1925, 76-86.	1.0	12
162	COVID-19 Impact on Ride-hailing: The Chicago Case Study. Findings, 0, , .	0.0	12

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163	Evaluating Alternative Truck Management Strategies along Interstate 81. Transportation Research Record, 2005, 1925, 76-86.	1.0	11
164	Modeling the Effect of Heavy Vehicles on Sign Occlusion at Multilane Highways. Journal of Transportation Engineering, 2005, 131, 219-228.	0.9	11
165	Estimating Highway Capacity Considering Two-Regime Models. Journal of Transportation Engineering, 2009, 135, 670-676.	0.9	11
166	Eco-Routing Using V2I Communication: System Evaluation. , 2015, , .		11
167	Survey on In-vehicle Technology Use: Results and Findings. International Journal of Transportation Science and Technology, 2015, 4, 135-149.	2.0	11
168	Impact of Differences in Driver-Desired Speed on Steady-State Traffic Stream Behavior. Transportation Research Record, 2006, 1965, 142-151.	1.0	11
169	Developing a Hydrogen Fuel Cell Vehicle (HFCV) Energy Consumption Model for Transportation Applications. Energies, 2022, 15, 529.	1.6	11
170	Field Evaluation of Safety Impacts of Adaptive Cruise Control. Journal of Intelligent Transportation Systems, 2001, 6, 225-259.	0.1	10
171	Closure to â€œEstimating Vehicle Fuel Consumption and Emissions based on Instantaneous Speed and Acceleration Levelsâ€•by Kyoung Ahn, Hesham Rakha, Antonio Trani, and Michel Van Aerde. Journal of Transportation Engineering, 2003, 129, 579-581.	0.9	10
172	Network Route-Choice Evolution in a Real-World Experiment. Transportation Research Record, 2012, 2322, 70-81.	1.0	10
173	Designing Yellow Intervals for Rainy and Wet Roadway Conditions. International Journal of Transportation Science and Technology, 2012, 1, 171-189.	2.0	10
174	Impact of underlying steady-state fundamental diagram on moving bottleneck passing rates using a second-order traffic model. Transportation Letters, 2014, 6, 185-196.	1.8	10
175	Agent-Based Simulation of Ecospeed-Controlled Vehicles at Signalized Intersections. Transportation Research Record, 2014, 2427, 1-12.	1.0	10
176	Multimodal Intelligent Traffic Signal System Simulation Model Development and Assessment. Transportation Research Record, 2016, 2558, 92-102.	1.0	10
177	Developing a de-centralized cycle-free nash bargaining arterial traffic signal controller. , 2017, , .		10
178	A heuristic for rebalancing bike sharing systems based on a deferred acceptance algorithm. , 2017, , .		10
179	Quantifying grade effects on vehicle fuel consumption for use in sustainable highway design. International Journal of Sustainable Transportation, 2018, 12, 441-451.	2.1	10
180	Battery Electric Vehicle Eco-Cooperative Adaptive Cruise Control in the Vicinity of Signalized Intersections. Energies, 2020, 13, 2433.	1.6	10

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181	Empirical Study of Effect of Dynamic Travel Time Information on Driver Route Choice Behavior. Sensors, 2020, 20, 3257.	2.1	10
182	An in-depth spatiotemporal analysis of ride-hailing travel: The Chicago case study. Case Studies on Transport Policy, 2022, 10, 118-129.	1.1	10
183	Field Evaluation of Truck Weigh Station Operations. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2006, 10, 49-57.	2.6	9
184	Evaluation of Driver Perception–Reaction Time under Rainy or Wet Roadway Conditions at Onset of Yellow Indication. Transportation Research Record, 2013, 2384, 18-24.	1.0	9
185	Enhanced Modeling of Driver Stop-or-Run Actions at a Yellow Indication. Transportation Research Record, 2014, 2423, 24-34.	1.0	9
186	Optimal Lane Selection on Freeways within a Connected Vehicle Environment. , 2018, , .		9
187	Decision Support Tool for Planning Neighborhood-Scale Deployment of Low-Speed Shared Automated Shuttles. Transportation Research Record, 2020, 2674, 1-14.	1.0	9
188	Development of a Connected Vehicle Dynamic Freeway Variable Speed Controller. IEEE Access, 2020, 8, 99219-99226.	2.6	9
189	INTEGRATION Large-Scale Modeling Framework of Direct Cellular Vehicle-to-All (C-V2X) Applications. Sensors, 2021, 21, 2127.	2.1	9
190	Comparison of Simulation Modules of TRANSYT and INTEGRATION Models. Transportation Research Record, 1996, 1566, 1-7.	1.0	8
191	Development of fuel and emission models for high speed heavy duty trucks, light duty trucks, and light duty vehicles. , 2010, , .		8
192	Continuous flow intersections: A safety and environmental perspective. , 2010, , .		8
193	Prediction of dynamic freeway travel times based on vehicle trajectory construction. , 2012, , .		8
194	Impact of Intelligent Transportation Systems on Vehicle Fuel Consumption and Emission Modeling: An Overview. SAE International Journal of Materials and Manufacturing, 2014, 7, 129-146.	0.3	8
195	Comprehensive Framework for Estimating Traffic Stream Flow Rates past Moving Bottlenecks. Transportation Research Record, 2014, 2422, 61-70.	1.0	8
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