

# Matthew J Roorda

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

4,082  
citations

117571

34  
h-index

128225

60  
g-index

104  
all docs

104  
docs citations

104  
times ranked

3276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prototype Model of Household Activity-Travel Scheduling. <i>Transportation Research Record</i> , 2003, 1831, 114-121.	1.0	273
2	Relative Accessibility Deprivation Indicators for Urban Settings: Definitions and Application to Food Deserts in Montreal. <i>Urban Studies</i> , 2010, 47, 1415-1438.	2.2	203
3	Modelling the impact of weather conditions on active transportation travel behaviour. <i>Transportation Research, Part D: Transport and Environment</i> , 2012, 17, 129-137.	3.2	172
4	A conceptual framework for agent-based modelling of logistics services. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2010, 46, 18-31.	3.7	169
5	Distance traveled in three Canadian cities: Spatial analysis from the perspective of vulnerable population segments. <i>Journal of Transport Geography</i> , 2011, 19, 39-50.	2.3	157
6	Accessibility to health care facilities in Montreal Island: an application of relative accessibility indicators from the perspective of senior and non-senior residents. <i>International Journal of Health Geographics</i> , 2010, 9, 52.	1.2	138
7	Vehicle relocation and staff rebalancing in one-way carsharing systems. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2015, 81, 98-113.	3.7	133
8	A tour-based model of travel mode choice. <i>Transportation</i> , 2005, 32, 399-422.	2.1	118
9	A dynamic carsharing decision support system. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 66, 36-50.	3.7	118
10	Agent based model for dynamic ridesharing. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 64, 117-132.	3.9	116
11	Designing parking facilities for autonomous vehicles. <i>Transportation Research Part B: Methodological</i> , 2018, 109, 110-127.	2.8	110
12	Using GIS for Evaluation of Neighborhood Pedestrian Accessibility. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 1997, 123, 10-17.	0.8	105
13	Exploring spatial variety in patterns of activity-travel behaviour: initial results from the Toronto Travel-Activity Panel Survey (TTAPS). <i>Transportation</i> , 2008, 35, 697-722.	2.1	102
14	Trip generation of vulnerable populations in three Canadian cities: a spatial ordered probit approach. <i>Transportation</i> , 2010, 37, 525-548.	2.1	89
15	Built Environment and School Travel Mode Choice in Toronto, Canada. <i>Transportation Research Record</i> , 2010, 2156, 150-159.	1.0	88
16	Development of simulated driving cycles for light, medium, and heavy duty trucks: Case of the Toronto Waterfront Area. <i>Transportation Research, Part D: Transport and Environment</i> , 2015, 34, 255-266.	3.2	88
17	Validation of TASHA: A 24-h activity scheduling microsimulation model. <i>Transportation Research, Part A: Policy and Practice</i> , 2008, 42, 360-375.	2.0	81
18	A comparative assessment of multi-sensor data fusion techniques for freeway traffic speed estimation using microsimulation modeling. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 26, 33-48.	3.9	77

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19	Fusing a Bluetooth Traffic Monitoring System With Loop Detector Data for Improved Freeway Traffic Speed Estimation. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2013, 17, 152-164.	2.6	70
20	Simulating impacts of automated driving behavior and traffic conditions on vehicle emissions. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 76, 176-192.	3.2	67
21	Computerized Household Activity-Scheduling Survey for Toronto, Canada, Area: Design and Assessment. <i>Transportation Research Record</i> , 2004, 1894, 140-149.	1.0	65
22	Moving freight on public transit: Best practices, challenges, and opportunities. <i>International Journal of Sustainable Transportation</i> , 2017, 11, 120-132.	2.1	64
23	An integrated model of vehicle transactions, activity scheduling and mode choice. <i>Transportation Research Part B: Methodological</i> , 2009, 43, 217-229.	2.8	63
24	Impacts of driving patterns on tank-to-wheel energy use of plug-in hybrid electric vehicles. <i>Transportation Research, Part D: Transport and Environment</i> , 2012, 17, 243-250.	3.2	60
25	Transportation network reliability in emergency response. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2015, 80, 56-73.	3.7	60
26	DEVELOPING A MULTI-SCALE MULTI-REGION INPUT-OUTPUT MODEL. <i>Economic Systems Research</i> , 2015, 27, 172-193.	1.2	55
27	Carsharing operations policies: a comparison between one-way and two-way systems. <i>Transportation</i> , 2015, 42, 497-518.	2.1	55
28	Life cycle GHG emissions and lifetime costs of medium-duty diesel and battery electric trucks in Toronto, Canada. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 55, 91-98.	3.2	53
29	Urban rail service design for collaborative passenger and freight transport. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2021, 147, 102205.	3.7	48
30	Truck parking in urban areas: Application of choice modelling within traffic microsimulation. <i>Transportation Research, Part A: Policy and Practice</i> , 2014, 64, 54-64.	2.0	46
31	A time-use investigation of shopping participation in three Canadian cities: is there evidence of social exclusion?. <i>Transportation</i> , 2011, 38, 17-44.	2.1	44
32	Impact of hourly parking pricing on travel demand. <i>Transportation Research, Part A: Policy and Practice</i> , 2017, 98, 28-45.	2.0	43
33	The Plugin Hybrid Electric Vehicle routing problem: A power-management strategy model. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 111, 318-333.	3.9	39
34	Analysis of Freight Global Positioning System Data. <i>Transportation Research Record</i> , 2011, 2246, 83-91.	1.0	37
35	Measuring the completeness of complete streets. <i>Transport Reviews</i> , 2018, 38, 73-95.	4.7	33
36	Equilibrium scheduling of vehicle-to-grid technology using activity based modelling. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 65, 79-96.	3.9	31

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37	Explaining transport mode use of low-income persons for journey to work in urban areas: a case study of Ontario and Quebec. <i>Transportmetrica</i> , 2012, 8, 157-179.	1.8	30
38	Disaggregate Analysis of Relationships between Commercial Vehicle Parking Citations, Parking Supply, and Parking Demand. <i>Transportation Research Record</i> , 2015, 2478, 28-34.	1.0	30
39	Integrated model for microsimulating vehicle emissions, pollutant dispersion and population exposure. <i>Transportation Research, Part D: Transport and Environment</i> , 2013, 18, 16-24.	3.2	29
40	Optimal traffic management policies for mixed human and automated traffic flows. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 135, 130-143.	2.0	29
41	Implications of Driving Patterns on Well-to-Wheel Performance of Plug-in Hybrid Electric Vehicles. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6363-6370.	4.6	28
42	Multilevel modelling of commercial vehicle inter-arrival duration using GPS data. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2013, 56, 94-107.	3.7	25
43	Safety Evaluation of Truck Lane Restriction Strategies Using Microsimulation Modeling. <i>Transportation Research Record</i> , 2009, 2099, 123-131.	1.0	24
44	Freight Market Interactions Simulation (FREMIS): An Agent-based Modeling Framework. <i>Procedia Computer Science</i> , 2013, 19, 867-873.	1.2	24
45	Toronto Area Car Ownership Study: A Retrospective Interview and Its Applications. <i>Transportation Research Record</i> , 2000, 1719, 69-76.	1.0	23
46	Fully autonomous vehicles: analyzing transportation network performance and operating scenarios in the Greater Toronto Area, Canada. <i>Transportation Planning and Technology</i> , 2019, 42, 99-112.	0.9	23
47	Simulation of Exclusive Truck Facilities on Urban Freeways. <i>Journal of Transportation Engineering</i> , 2011, 137, 547-562.	0.9	22
48	Long- and short-term dynamics in activity scheduling: A structural equations approach. <i>Transportation Research, Part A: Policy and Practice</i> , 2008, 42, 545-562.	2.0	21
49	Application of sequence alignment methods in clustering and analysis of routine weekly activity schedules. <i>Transportation Letters</i> , 2009, 1, 197-211.	1.8	20
50	Including Minor Modes of Transport in a Tour-Based Mode Choice Model with Household Interactions. <i>Journal of Transportation Engineering</i> , 2009, 135, 935-945.	0.9	20
51	Quantifying the air quality and health benefits of greening freight movements. <i>Environmental Research</i> , 2020, 183, 109193.	3.7	20
52	Jobs and the Single Parent: An Analysis of Accessibility to Employment in Toronto. <i>Urban Geography</i> , 2013, 34, 815-842.	1.7	19
53	Stochastic Last-Mile Delivery with Crowd-Shipping and Mobile Depots. <i>Transportation Science</i> , 2022, 56, 612-630.	2.6	19
54	Stated Adaptation Survey of Activity Rescheduling. <i>Transportation Research Record</i> , 2007, 2021, 45-54.	1.0	18

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55	Parking enforcement policies for commercial vehicles. <i>Transportation Research, Part A: Policy and Practice</i> , 2017, 102, 33-50.	2.0	18
56	Exclusive Truck Facilities in Toronto, Ontario, Canada. <i>Transportation Research Record</i> , 2010, 2168, 114-128.	1.0	17
57	Assessment of spatial transferability of an activity-based model, TASHA. <i>Transportation Research, Part A: Policy and Practice</i> , 2015, 78, 200-213.	2.0	16
58	Incorporating Within-Household Interactions into Mode Choice Model with Genetic Algorithm for Parameter Estimation. <i>Transportation Research Record</i> , 2006, 1985, 171-179.	1.0	16
59	Analysis of Planning Decisions during the Activity-Scheduling Process. <i>Transportation Research Record</i> , 2008, 2054, 46-55.	1.0	15
60	A business establishment fleet ownership and composition model. <i>Transportation</i> , 2018, 45, 971-987.	2.1	14
61	Improved Time-to-Collision Definition for Simulating Traffic Conflicts on Truck-Only Infrastructure. <i>Transportation Research Record</i> , 2011, 2237, 31-40.	1.0	13
62	Comparison of Parametric and Nonparametric Hazard Models for Stop Durations on Urban Tours with Commercial Vehicles. <i>Transportation Research Record</i> , 2012, 2269, 117-126.	1.0	13
63	Applications of Random-Utility-based Multi-region Input-Output Models of Transport and the Spatial Economy. <i>Transport Reviews</i> , 2014, 34, 418-440.	4.7	13
64	A vehicle routing problem with movement synchronization of drones, sidewalk robots, or foot-walkers. <i>Transportation Research Procedia</i> , 2020, 46, 29-36.	0.8	13
65	Assessing planning decisions by activity type during the scheduling process. <i>Transportmetrica</i> , 2011, 7, 417-442.	1.8	12
66	Modeling Freight Vehicle Type Choice using Machine Learning and Discrete Choice Methods. <i>Transportation Research Record</i> , 2022, 2676, 541-552.	1.0	12
67	Implementation of Scheduling Conflict Resolution Model in Activity-Scheduling System. <i>Transportation Research Record</i> , 2009, 2135, 96-105.	1.0	11
68	Multisensor Data Integration and Fusion in Traffic Operations and Management. <i>Transportation Research Record</i> , 2012, 2308, 27-36.	1.0	11
69	Life-Cycle Assessment of Diesel-Electric Hybrid and Conventional Diesel Trucks for Deliveries. <i>Journal of Transportation Engineering</i> , 2015, 141, .	0.9	11
70	Multi-objective calibration of traffic microsimulation models. <i>Transportation Letters</i> , 2019, 11, 311-319.	1.8	10
71	Two Cities, Two Realities?. <i>Transportation Research Record</i> , 2008, 2082, 156-167.	1.0	9
72	An eco-score system incorporating driving behavior, vehicle characteristics, and traffic conditions. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 95, 102866.	3.2	9

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73	Investigation of Commercial Vehicle Parking Permits in Toronto, Ontario, Canada. Transportation Research Record, 2016, 2547, 11-18.	1.0	9
74	Autonomous vehicle parking policies: A case study of the City of Toronto. Transportation Research, Part A: Policy and Practice, 2022, 155, 283-296.	2.0	9
75	Incorporating Within-Household Interactions into Mode Choice Model with Genetic Algorithm for Parameter Estimation. Transportation Research Record, 2006, 1985, 171-179.	1.0	8
76	A complementarity equilibrium model for electric vehicles with charging. International Journal of Transportation Science and Technology, 2017, 6, 255-271.	2.0	8
77	Macro-, meso-, and micro-level validation of an activity-based travel demand model. Transportmetrica A: Transport Science, 2017, 13, 222-249.	1.3	8
78	A Mesoscopic Simulation Model for Airport Curbside Management. Journal of Advanced Transportation, 2017, 2017, 1-19.	0.9	8
79	Pilot Off-Peak Delivery Program in the Region of Peel. Sustainability, 2021, 13, 246.	1.6	8
80	Steps in Reserve. Transportation Research Record, 2009, 2140, 111-119.	1.0	7
81	Comprehensive Transportation Data Collection: Case Study in the Greater Golden Horseshoe, Canada. Journal of the Urban Planning and Development Division, ASCE, 2011, 137, 193-203.	0.8	7
82	Global Trade Creation, Trade Diversion, and Economic Impacts from Changing Global Transport Costs. Transportation Research Record, 2016, 2598, 46-57.	1.0	7
83	Modelling carrier type and vehicle type choice of small and medium size firms. Transportation Research, Part E: Logistics and Transportation Review, 2022, 160, 102655.	3.7	7
84	Trend analysis of activity generation attributes over time. Transportation, 2017, 44, 69-89.	2.1	6
85	Discrete Choice Modeling of Freight Outsourcing Decisions of Canadian Manufacturers. Transportation Research Record, 2017, 2610, 76-86.	1.0	6
86	Illegal parking and optimal enforcement policies with search friction. Transportation Research, Part E: Logistics and Transportation Review, 2020, 141, 102026.	3.7	6
87	A continuous approximation model for the fleet composition problem on the rectangular grid. OR Spectrum, 2017, 39, 373-401.	2.1	5
88	Empirical Analysis of Travel and Housing Expenditures in the Greater Toronto, Canada, Area. Transportation Research Record, 2004, 1898, 191-201.	1.0	4
89	Data collection strategies for benchmarking urban goods movement across Canada. Transportation Letters, 2011, 3, 175-199.	1.8	4
90	Shipper/Carrier Interactions Data Collection: Web-Based Respondent Customized Stated Preference (WRCSP) Survey. , 2013, , 257-278.		4

#	ARTICLE	IF	CITATIONS
91	Data Fusion of Commercial Vehicle GPS and Roadside Intercept Survey Data. Transportation Research Record, 2018, 2672, 10-20.	1.0	4
92	Autonomous vehicle relocation problem in a parking facility. Transportmetrica A: Transport Science, 2020, 16, 1604-1627.	1.3	4
93	Joint and sequential models for freight vehicle type and shipment size choice. Transportation, 2023, 50, 1613-1629.	2.1	4
94	Bayesian Approach for Identifying Efficient Stated-Choice Survey Designs with Reduced Prior Information. Transportation Research Record, 2011, 2246, 38-46.	1.0	3
95	Solution of Two-Echelon Facility Location Problems by Approximation Methods. Transportation Research Record, 2017, 2610, 1-9.	1.0	3
96	Cruising for Parking with Autonomous and Conventional Vehicles. Journal of Advanced Transportation, 2021, 2021, 1-16.	0.9	3
97	Climate and air quality impacts of off-peak commercial deliveries. Transportation Research, Part D: Transport and Environment, 2022, 109, 103360.	3.2	3
98	A GPS-aided survey for assessing trip reporting accuracy and travel of students without telephone land lines. Transportation Planning and Technology, 2012, 35, 161-173.	0.9	2
99	Estimating regional trade flows using commercial vehicle survey data. Annals of Regional Science, 2015, 54, 855-876.	1.0	2
100	TTS2.0: A research and development (R&D) project on passenger travel survey methods. Transportation Research Procedia, 2018, 32, 659-665.	0.8	2
101	Modeling the Impacts of Off-Peak Delivery in the Greater Toronto and Hamilton Area. Transportation Research Record, 2022, 2676, 413-425.	1.0	2
102	Assessment of Canada's Transportation System under the Comprehensive Economic and Trade Agreement. Transportation Research Record, 2018, 2672, 10-18.	1.0	1
103	A Structural Equation Model of Commercial Vehicle Ownership. , 2019, , 203-218.		1