

John W Polak

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

3,794
citations

31
h-index

58
g-index

123
ext. papers

4,333
ext. citations

4
avg, IF

5.77
L-index

#	Paper	IF	Citations
120	The valuation of reliability for personal travel. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2001 , 37, 191-229	9	471
119	Travel time variability: A review of theoretical and empirical issues. <i>Transport Reviews</i> , 2002 , 22, 39-54	9.9	248
118	On the use of a Modified Latin Hypercube Sampling (MLHS) method in the estimation of a Mixed Logit Model for vehicle choice. <i>Transportation Research Part B: Methodological</i> , 2006 , 40, 147-163	7.2	215
117	Autonomous cars: The tension between occupant experience and intersection capacity. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 52, 1-14	8.4	142
116	Mixed logit modelling of airport choice in multi-airport regions. <i>Journal of Air Transport Management</i> , 2005 , 11, 59-68	5.1	142
115	Modelling airport and airline choice behaviour with the use of stated preference survey data. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2007 , 43, 221-233	9	132
114	Electric vehicle charging choices: Modelling and implications for smart charging services. <i>Transportation Research Part C: Emerging Technologies</i> , 2017 , 81, 36-56	8.4	99
113	Estimation of value of travel-time savings using mixed logit models. <i>Transportation Research, Part A: Policy and Practice</i> , 2005 , 39, 221-236	3.7	95
112	Spatial context and the complexity of daily travel patterns: an international comparison. <i>Journal of Transport Geography</i> , 2003 , 11, 37-46	5.2	92
111	Choice of parking: Stated preference approach. <i>Transportation</i> , 1991 , 18, 59-81	4	90
110	Modelling electric vehicles use: a survey on the methods. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 447-460	16.2	87
109	A new approach to predict the market and impacts of round-trip and point-to-point carsharing systems: Case study of London. <i>Transportation Research, Part D: Transport and Environment</i> , 2014 , 32, 218-229	6.4	85
108	On cost-efficiency of the global container shipping network. <i>Maritime Policy and Management</i> , 2005 , 32, 15-30	2.5	78
107	Non-trading, lexicographic and inconsistent behaviour in stated choice data. <i>Transportation Research, Part D: Transport and Environment</i> , 2010 , 15, 405-417	6.4	76
106	The impact of free-floating carsharing on car ownership: Early-stage findings from London. <i>Transport Policy</i> , 2019 , 75, 119-127	5.7	70
105	Exploring the potential for cross-nesting structures in airport-choice analysis: A case-study of the Greater London area. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2006 , 42, 63-81	8.9	69
104	The acquisition of pre-trip information: A stated preference approach. <i>Transportation</i> , 1993 , 20, 179-198	4	63

103	Taste heterogeneity and market segmentation in freight shippers' mode choice behaviour. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2011 , 47, 138-148	9	56
102	New Approach to Modeling Mixed Traffic Containing Motorcycles in Urban Areas. <i>Transportation Research Record</i> , 2009 , 2140, 195-205	1.7	56
101	Flexible substitution patterns in models of mode and time of day choice: new evidence from the UK and the Netherlands. <i>Transportation</i> , 2007 , 34, 213-238	4	56
100	Airport, airline and access mode choice in the San Francisco Bay area*. <i>Papers in Regional Science</i> , 2006 , 85, 543-567	1.8	55
99	Exploring the role of individual attitudes and perceptions in predicting the demand for cycling: a hybrid choice modelling approach. <i>Transportation</i> , 2014 , 41, 1287-1304	4	53
98	. <i>IEEE/ACM Transactions on Networking</i> , 2011 , 19, 195-208	3.8	47
97	Predictor fusion for short-term traffic forecasting. <i>Transportation Research Part C: Emerging Technologies</i> , 2018 , 92, 90-100	8.4	37
96	A computationally efficient two-stage method for short-term traffic prediction on urban roads. <i>Transportation Planning and Technology</i> , 2013 , 36, 62-75	1.6	37
95	Utility of Schedules: Theoretical Model of Departure-Time Choice and Activity-Time Allocation with Application to Individual Activity Schedules. <i>Transportation Research Record</i> , 2004 , 1894, 84-98	1.7	37
94	Predicting new forms of activity/mobility patterns enabled by shared-mobility services through a needs-based stated-response method: Case study of grocery shopping. <i>Transport Policy</i> , 2014 , 32, 60-68	5.7	35
93	Highway infrastructure and state-level employment: A causal spatial analysis. <i>Papers in Regional Science</i> , 2009 , 88, 133-159	1.8	34
92	Modelling the joint choice of activity timing and duration. <i>Transportation Research, Part A: Policy and Practice</i> , 2007 , 41, 827-841	3.7	34
91	Factors associated with young adults delaying and forgoing driving licenses: results from Britain. <i>Traffic Injury Prevention</i> , 2014 , 15, 794-800	1.8	31
90	Short-term prediction of traffic flow using a binary neural network. <i>Neural Computing and Applications</i> , 2014 , 25, 1639-1655	4.8	31
89	Effect of parking information on travelers' knowledge and behavior. <i>Transportation</i> , 1993 , 20, 373-393	4	30
88	Introduction to special issue: new directions in shared-mobility research. <i>Transportation</i> , 2015 , 42, 407-411	1	28
87	Automated cars: Queue discharge at signalized intersections with Assured-Clear-Distance-Ahead driving strategies. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 62, 35-54	8.4	26
86	HIGHWAY INFRASTRUCTURE INVESTMENT AND COUNTY EMPLOYMENT GROWTH: A DYNAMIC PANEL REGRESSION ANALYSIS*. <i>Journal of Regional Science</i> , 2009 , 49, 263-286	1.8	26

85	Modeling Timing and Duration of Activities and Trips in Response to Road-Pricing Policies. <i>Transportation Research Record</i> , 2004 , 1894, 1-10	1.7	26
84	On the estimation of space-mean-speed from inductive loop detector data. <i>Transportation Planning and Technology</i> , 2010 , 33, 91-104	1.6	25
83	Illegal parking and the enforcement of parking regulations: causes, effects and interactions. <i>Transport Reviews</i> , 1992 , 12, 49-75	9.9	25
82	Estimating Capacity of Europe's Airspace Using a Simulation Model of Air Traffic Controller Workload. <i>Transportation Research Record</i> , 2001 , 1744, 30-43	1.7	24
81	Accounting for Random Taste Heterogeneity in Airport Choice Modeling		24
80	Development of joint models for channel, store, and travel mode choice: Grocery shopping in London. <i>Transportation Research, Part A: Policy and Practice</i> , 2017 , 99, 147-162	3.7	23
79	Analysis of Factors Affecting the Frequency and Type of Activity Schedule Modification		23
78	Entangled communities and spatial synchronization lead to criticality in urban traffic. <i>Scientific Reports</i> , 2013 , 3, 1798	4.9	22
77	A new concept of accessibility to personal activities: development of theory and application to an empirical study of mobility resource holdings. <i>Journal of Transport Geography</i> , 2013 , 31, 1-10	5.2	21
76	A framework for joint modelling of activity choice, duration, and productivity while travelling. <i>Transportation Research Part B: Methodological</i> , 2017 , 106, 153-172	7.2	19
75	Estimation of European Airspace Capacity from a Model of Controller Workload. <i>Journal of Navigation</i> , 2002 , 55, 381-403	2.3	19
74	Empirical Application of Expenditure Diary Instrument to Quantify Relationships between In-Store and Online Grocery Shopping: Case Study of Greater London. <i>Transportation Research Record</i> , 2015 , 2496, 45-54	1.7	18
73	2007 ,		18
72	Modeling Urban Link Travel Time with Inductive Loop Detector Data by Using the k-NN Method. <i>Transportation Research Record</i> , 2005 , 1935, 47-56	1.7	18
71	What is the relationship between online activity and driving-licence-holding amongst young adults?. <i>Transportation</i> , 2014 , 41, 1071-1098	4	17
70	Towards a microeconomic framework for modelling the joint choice of activity-travel behaviour and ICT use. <i>Transportation Research, Part A: Policy and Practice</i> , 2015 , 76, 92-112	3.7	16
69	Right-of-way reallocation for mixed flow of autonomous vehicles and human driven vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 115, 102630	8.4	16
68	How is ICT use linked to household transport expenditure? A cross-national macro analysis of the influence of home broadband access. <i>Journal of Transport Geography</i> , 2017 , 60, 231-242	5.2	15

67	Energy demand and economic consequences of transport policy. <i>International Journal of Environmental Science and Technology</i> , 2013 , 10, 1075-1082	3.3	15
66	Patent and Latent Predictors of Electric Vehicle Charging Behavior. <i>Transportation Research Record</i> , 2015 , 2502, 116-123	1.7	15
65	Modelling of particulate matter mass emissions from a light-duty diesel vehicle. <i>Transportation Research, Part D: Transport and Environment</i> , 2006 , 11, 344-357	6.4	15
64	Effects of Speed Limit Enforcement Cameras on Accident Rates. <i>Transportation Research Record</i> , 2003 , 1830, 25-33	1.7	15
63	Space-Time User Benefit and Utility Accessibility Measures for Individual Activity Schedules. <i>Transportation Research Record</i> , 2003 , 1854, 62-73	1.7	15
62	Traveller preferences for free-floating carsharing vehicle allocation mechanisms. <i>Transportation Research Part C: Emerging Technologies</i> , 2019 , 102, 1-19	8.4	14
61	Nonlinearity and Specification of Attitudes toward Risk in Discrete Choice Models. <i>Transportation Research Record</i> , 2007 , 2014, 27-31	1.7	14
60	A nationwide study of factors associated with household car ownership in China. <i>IATSS Research</i> , 2018 , 42, 128-137	4.2	13
59	Urban link travel time estimation using traffic states-based data fusion. <i>IET Intelligent Transport Systems</i> , 2018 , 12, 651-663	2.4	13
58	The kinematic features of motorcycles in congested urban networks. <i>Accident Analysis and Prevention</i> , 2012 , 49, 203-11	6.1	13
57	Short-term traffic prediction under normal and incident conditions using singular spectrum analysis and the k-nearest neighbour method 2012 ,		13
56	Modelling travellers' risky choice in a revealed preference context: a comparison of EUT and non-EUT approaches. <i>Transportation</i> , 2012 , 39, 825-841	4	13
55	Design of a Strategic-Tactical Stated-Choice Survey Methodology Using a Constructed Avatar. <i>Transportation Research Record</i> , 2011 , 2246, 55-63	1.7	13
54	Choice set pruning in residential location choice modelling: a comparison of sampling and choice set generation approaches in greater London. <i>Transportation Planning and Technology</i> , 2012 , 35, 87-106	1.6	13
53	Acceptability of Transport Pricing Measures Among Public and Professionals in Europe. <i>Transportation Research Record</i> , 2003 , 1839, 34-44	1.7	13
52	Overtaking Rule Method for the Cleaning of Matched License-Plate Data. <i>Journal of Transportation Engineering</i> , 2006 , 132, 609-617		12
51	Framework for Travel Time Learning and Behavioral Adaptation in Route and Departure Time Choice. <i>Transportation Research Record</i> , 2006 , 1985, 231-240	1.7	12
50	The vehicle emissions and performance monitoring system: analysis of tailpipe emissions and vehicle performance. <i>Transportation Planning and Technology</i> , 2004 , 27, 431-447	1.6	12

49	Comparison of modelling approaches for short term traffic prediction under normal and abnormal conditions 2010 ,		11
48	Time allocation in urban and transport settings: an international, inter-urban perspective. <i>Transport Policy</i> , 2002 , 9, 79-93	5.7	11
47	Assessing User Benefits with Discrete Choice Models: Implications of Specification Errors Under Random Taste Heterogeneity		11
46	A tenuous result: re-analysis of the link between Internet usage and young adults' driving license holding. Comments on "Recent changes in the age composition of drivers in 15 countries". <i>Traffic Injury Prevention</i> , 2013 , 14, 654-7	1.8	10
45	Accounting for Random Taste Heterogeneity in Airport Choice Modeling. <i>Transportation Research Record</i> , 2005 , 1915, 36-43	1.7	10
44	Analysis of the relationship between internet usage and allocation of time for personal travel and out of home activities: Case study of Scotland in 2005/6. <i>Travel Behaviour & Society</i> , 2016 , 4, 49-59	5.3	9
43	The Contribution of Benefit-in-Kind Taxation Policy in Britain to the Peak Car Phenomenon. <i>Transport Reviews</i> , 2013 , 33, 526-547	9.9	9
42	The influence of alternative data smoothing prediction techniques on the performance of a two-stage short-term urban travel time prediction framework. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2017 , 21, 214-226	3.2	8
41	Factors associated with round-trip carsharing frequency and driving-mileage impacts in London. <i>International Journal of Sustainable Transportation</i> , 2020 , 14, 177-186	3.6	8
40	Is Heightened Environmental Sensitivity Responsible for Drop in Young Adults' Rates of Driver's License Acquisition?. <i>Transportation Research Record</i> , 2014 , 2465, 73-78	1.7	7
39	Global and local information in traffic congestion. <i>Europhysics Letters</i> , 2009 , 88, 20010	1.6	7
38	A mobile environmental sensing system to manage transportation and urban air quality 2008 ,		7
37	Demonstration of robust multi-hop wireless packet broadcasts for moving vehicles using aggregated redundancy 2007 ,		7
36	Framework for Travel Time Learning and Behavioral Adaptation in Route and Departure Time Choice		7
35	Dynamic pricing of free-floating carsharing networks with sensitivity to travellers' attitudes towards risk. <i>Transportation</i> , 1	4	7
34	Establishing the Links between Online Activity and Car Use: Evidence from a Combined Travel Diary and Online-Activity Pseudodiary Data Set. <i>Transportation Research Record</i> , 2014 , 2405, 68-77	1.7	6
33	Free-floating carsharing users' willingness-to-pay/accept for logistics management mechanisms. <i>Travel Behaviour & Society</i> , 2020 , 21, 154-166	5.3	6
32	Capturing Correlation and Taste Heterogeneity with Mixed GEV Models 2005 , 55-75		6

31	Simplified probabilistic choice set formation models in a residential location choice context. <i>Journal of Choice Modelling</i> , 2013 , 9, 3-13	3.8	5
30	Random covariance heterogeneity in discrete choice models. <i>Transportation</i> , 2010 , 37, 391-411	4	5
29	Characterizing Global Activity Schedule Adjustment Behavior by Using a Sequence Alignment Method		5
28	Hazard based modelling of electric vehicles charging patterns 2016 ,		5
27	Optimal transmission probabilities in VANETs with inhomogeneous node distribution 2009 ,		4
26	Assessment of User Benefits in Presence of Random Taste Heterogeneity: Comparison of Parametric and Nonparametric Models. <i>Transportation Research Record</i> , 2009 , 2132, 78-86	1.7	4
25	Vehicle automation and freeway pipeline capacity in the context of legal standards of care. <i>Transportation</i> , 2019 , 46, 1215-1244	4	4
24	A novel peer-to-peer congestion pricing marketplace enabled by vehicle-automation. <i>Transportation Research, Part A: Policy and Practice</i> , 2016 , 94, 483-494	3.7	3
23	Effect of Transport Models on Connectivity of Interbus Communication Networks. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2011 , 15, 161-178	3.2	3
22	Toward the future of travel behaviour and demand modelling. <i>Transportation Letters</i> , 2012 , 4, 75-77	2.1	3
21	Equilibrium analysis of the scheduling of tours in congested networks. <i>Journal of Advanced Transportation</i> , 2006 , 40, 184-202	1.9	3
20	Public-private partnerships for future urban infrastructure. <i>Proceedings of Institution of Civil Engineers: Management, Procurement and Law</i> , 2016 , 169, 150-158	0.5	2
19	Modeling Joint Charging and Parking Choices of Electric Vehicle Drivers: Decentralized Control Approach for Charging Service Providers. <i>Transportation Research Record</i> , 2015 , 2502, 124-133	1.7	2
18	Modelling Traveller Learning in Stochastic Traffic Assignment. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997 , 30, 627-632		2
17	Empirical Analysis of Factors Affecting the Resolution of Activity-Scheduling Conflicts. <i>Transportation Research Record</i> , 2005 , 1926, 50-60	1.7	2
16	Empirical Analysis of Attrition and Underreporting in Mailback and Personal Interview Panel Surveys. <i>Transportation Research Record</i> , 1999 , 1660, 164-171	1.7	2
15	Using the Internet To Improve Long-Distance Travel Data Collection. <i>Transportation Research Record</i> , 1999 , 1660, 148-155	1.7	2
14	Functional Approximations to Alternative-specific Constants in Time-period Choice-modelling 2005 , 545-564		2

13	Inverse discrete choice modelling: theoretical and practical considerations for imputing respondent attributes from the patterns of observed choices. <i>Transportation Planning and Technology</i> , 2018 , 41, 58-79	1.6	2
12	Modelling the influence of peers' attitudes on choice behaviour: Theory and empirical application on electric vehicle preferences. <i>Transportation Research, Part A: Policy and Practice</i> , 2020 , 140, 278-298	3.7	1
11	Does the income elasticity of road traffic depend on the source of income?. <i>Transportation Research, Part A: Policy and Practice</i> , 2014 , 67, 15-29	3.7	1
10	Stochastic traffic and connectivity dynamics for vehicular ad-hoc networks in signaled road systems 2009 ,		1
9	Best Practices in Data Fusion: Synthesis of a Workshop 2009 , 613-619		1
8	How much disruption to activities could fuel shortages cause? The British fuel crisis of September 2000. <i>Transportation</i> , 2003 , 30, 459-481	4	1
7	A comment on Supernak's critique of transport modelling. <i>Transportation</i> , 1987 , 14, 63	4	1
6	Capturing the effect of multiple social influence sources on the adoption of new transport technologies and services. <i>Journal of Choice Modelling</i> , 2022 , 42, 100344	3.8	1
5	Optimal Pricing of Vehicle-to-Grid Services Using Disaggregate Demand Models. <i>Energies</i> , 2021 , 14, 1090	3.1	1
4	Empirically Constrained Efficiency in a Strategic-Tactical Stated Choice Survey of the Usage Patterns of Emerging Carsharing Services 2013 , 453-470		
3	A tribute to Ryuichi Kitamura: an IATBR perspective. <i>Transportation</i> , 2009 , 36, 649-650	4	
2	Converging Bio-inspired Robotics and Socio-inspired Agents for Intelligent Transportation Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 304-306	0.9	
1	Sentiment analysis of popular-music references to automobiles, 1950s to 2010s. <i>Transportation</i> , 2021 , 1-38	4	