

John W Polak

List of Publications by Year in descending order

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120
papers

4,964
citations

126708

33
h-index

102304

66
g-index

123
all docs

123
docs citations

123
times ranked

3790
citing authors

#	ARTICLE	IF	CITATIONS
1	The valuation of reliability for personal travel. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2001, 37, 191-229.	3.7	583
2	Travel time variability: A review of theoretical and empirical issues. <i>Transport Reviews</i> , 2002, 22, 39-54.	4.7	298
3	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.	2.8	287
4	Mixed logit modelling of airport choice in multi-airport regions. <i>Journal of Air Transport Management</i> , 2005, 11, 59-68.	2.4	186
5	Autonomous cars: The tension between occupant experience and intersection capacity. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 52, 1-14.	3.9	179
6	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.	3.7	173
7	Electric vehicle charging choices: Modelling and implications for smart charging services. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 81, 36-56.	3.9	170
8	Modelling electric vehicles use: a survey on the methods. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 447-460.	8.2	150
9	Estimation of value of travel-time savings using mixed logit models. <i>Transportation Research, Part A: Policy and Practice</i> , 2005, 39, 221-236.	2.0	141
10	Choice of parking: Stated preference approach. <i>Transportation</i> , 1991, 18, 59-81.	2.1	111
11	Spatial context and the complexity of daily travel patterns: an international comparison. <i>Journal of Transport Geography</i> , 2003, 11, 37-46.	2.3	108
12	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.	3.2	103
13	Non-trading, lexicographic and inconsistent behaviour in stated choice data. <i>Transportation Research, Part D: Transport and Environment</i> , 2010, 15, 405-417.	3.2	99
14	The impact of free-floating carsharing on car ownership: Early-stage findings from London. <i>Transport Policy</i> , 2019, 75, 119-127.	3.4	98
15	On cost-efficiency of the global container shipping network. <i>Maritime Policy and Management</i> , 2005, 32, 15-30.	1.9	86
16	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.	3.7	86
17	The acquisition of pre-trip information: A stated preference approach. <i>Transportation</i> , 1993, 20, 179-198.	2.1	73
18	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.	3.7	73

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19	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.	2.1	73
20	Airport, airline and access mode choice in the San Francisco Bay area. <i>Papers in Regional Science</i> , 2006, 85, 543-567.	1.0	66
21	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.	2.1	64
22	New Approach to Modeling Mixed Traffic Containing Motorcycles in Urban Areas. <i>Transportation Research Record</i> , 2009, 2140, 195-205.	1.0	64
23	Predictor fusion for short-term traffic forecasting. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 92, 90-100.	3.9	63
24	Stochastic Model and Connectivity Dynamics for VANETs in Signalized Road Systems. <i>IEEE/ACM Transactions on Networking</i> , 2011, 19, 195-208.	2.6	59
25	A computationally efficient two-stage method for short-term traffic prediction on urban roads. <i>Transportation Planning and Technology</i> , 2013, 36, 62-75.	0.9	46
26	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.	3.9	42
27	Modelling the joint choice of activity timing and duration. <i>Transportation Research, Part A: Policy and Practice</i> , 2007, 41, 827-841.	2.0	39
28	Highway infrastructure and state-level employment: A causal spatial analysis. <i>Papers in Regional Science</i> , 2009, 88, 133-160.	1.0	39
29	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.	3.4	39
30	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.	1.0	38
31	Introduction to special issue: new directions in shared-mobility research. <i>Transportation</i> , 2015, 42, 407-411.	2.1	38
32	Effect of parking information on travelers' knowledge and behavior. <i>Transportation</i> , 1993, 20, 373-393.	2.1	37
33	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.	2.0	37
34	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.	3.9	36
35	Factors Associated With Young Adults Delaying and Forgoing Driving Licenses: Results From Britain. <i>Traffic Injury Prevention</i> , 2014, 15, 794-800.	0.6	35
36	Short-term prediction of traffic flow using a binary neural network. <i>Neural Computing and Applications</i> , 2014, 25, 1639-1655.	3.2	35

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37	Empirical Application of Expenditure Diary Instrument to Quantify Relationships between In-Store and Online Grocery Shopping. <i>Transportation Research Record</i> , 2015, 2496, 45-54.	1.0	34
38	HIGHWAY INFRASTRUCTURE INVESTMENT AND COUNTY EMPLOYMENT GROWTH: A DYNAMIC PANEL REGRESSION ANALYSIS*. <i>Journal of Regional Science</i> , 2009, 49, 263-286.	2.1	32
39	Illegal parking and the enforcement of parking regulations: causes, effects and interactions. <i>Transport Reviews</i> , 1992, 12, 49-75.	4.7	30
40	Estimation of European Airspace Capacity from a Model of Controller Workload. <i>Journal of Navigation</i> , 2002, 55, 381-403.	1.0	30
41	Estimating Capacity of Europe's Airspace Using a Simulation Model of Air Traffic Controller Workload. <i>Transportation Research Record</i> , 2001, 1744, 30-43.	1.0	29
42	On the estimation of space-mean-speed from inductive loop detector data. <i>Transportation Planning and Technology</i> , 2010, 33, 91-104.	0.9	29
43	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.	2.3	29
44	Accounting for Random Taste Heterogeneity in Airport Choice Modeling. <i>Transportation Research Record</i> , 2005, 1915, 36-43.	1.0	28
45	Modeling Timing and Duration of Activities and Trips in Response to Road-Pricing Policies. <i>Transportation Research Record</i> , 2004, 1894, 1-10.	1.0	26
46	Entangled communities and spatial synchronization lead to criticality in urban traffic. <i>Scientific Reports</i> , 2013, 3, 1798.	1.6	26
47	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.	2.3	26
48	A framework for joint modelling of activity choice, duration, and productivity while travelling. <i>Transportation Research Part B: Methodological</i> , 2017, 106, 153-172.	2.8	26
49	Analysis of Factors Affecting the Frequency and Type of Activity Schedule Modification. , 0, .		25
50	Node Connectivity in Vehicular Ad Hoc Networks with Structured Mobility. , 2007, , .		24
51	The kinematic features of motorcycles in congested urban networks. <i>Accident Analysis and Prevention</i> , 2012, 49, 203-211.	3.0	24
52	Patent and Latent Predictors of Electric Vehicle Charging Behavior. <i>Transportation Research Record</i> , 2015, 2502, 116-123.	1.0	24
53	A nationwide study of factors associated with household car ownership in China. <i>IATSS Research</i> , 2018, 42, 128-137.	1.8	24
54	Urban link travel time estimation using traffic states-based data fusion. <i>IET Intelligent Transport Systems</i> , 2018, 12, 651-663.	1.7	23

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55	Traveller preferences for free-floating carsharing vehicle allocation mechanisms. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 102, 1-19.	3.9	23
56	Modeling Urban Link Travel Time with Inductive Loop Detector Data by Using the <i>k</i> -NN Method. <i>Transportation Research Record</i> , 2005, 1935, 47-56.	1.0	21
57	Energy demand and economic consequences of transport policy. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 1075-1082.	1.8	21
58	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.	0.9	20
59	Demonstration of robust multi-hop wireless packet broadcasts for moving vehicles using aggregated redundancy. , 2007, , .		19
60	What is the relationship between online activity and driving-licence-holding amongst young adults?. <i>Transportation</i> , 2014, 41, 1071-1098.	2.1	19
61	Towards a microeconomic framework for modelling the joint choice of activityâ€“travel behaviour and ICT use. <i>Transportation Research, Part A: Policy and Practice</i> , 2015, 76, 92-112.	2.0	19
62	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.	3.2	18
63	Effects of Speed Limit Enforcement Cameras on Accident Rates. <i>Transportation Research Record</i> , 2003, 1830, 25-33.	1.0	17
64	Space-Time User Benefit and Utility Accessibility Measures for Individual Activity Schedules. <i>Transportation Research Record</i> , 2003, 1854, 62-73.	1.0	17
65	Overtaking Rule Method for the Cleaning of Matched License-Plate Data. <i>Journal of Transportation Engineering</i> , 2006, 132, 609-617.	0.9	17
66	Short-term traffic prediction under normal and incident conditions using singular spectrum analysis and the <i>k</i> -nearest neighbour method. , 2012, , .		17
67	The vehicle emissions and performance monitoring system: analysis of tailpipe emissions and vehicle performance. <i>Transportation Planning and Technology</i> , 2004, 27, 431-447.	0.9	16
68	Comparison of modelling approaches for short term traffic prediction under normal and abnormal conditions. , 2010, , .		16
69	Factors associated with round-trip carsharing frequency and driving-mileage impacts in London. <i>International Journal of Sustainable Transportation</i> , 2020, 14, 177-186.	2.1	16
70	Acceptability of Transport Pricing Measures Among Public and Professionals in Europe. <i>Transportation Research Record</i> , 2003, 1839, 34-44.	1.0	14
71	Accounting for Random Taste Heterogeneity in Airport Choice Modeling. <i>Transportation Research Record</i> , 2005, 1915, 36-43.	1.0	14
72	Nonlinearity and Specification of Attitudes toward Risk in Discrete Choice Models. <i>Transportation Research Record</i> , 2007, 2014, 27-31.	1.0	14

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73	Design of a Strategic-Tactical Stated-Choice Survey Methodology Using a Constructed Avatar. Transportation Research Record, 2011, 2246, 55-63.	1.0	14
74	Modelling travellers' risky choice in a revealed preference context: a comparison of EUT and non-EUT approaches. Transportation, 2012, 39, 825-841.	2.1	14
75	Assessing User Benefits with Discrete Choice Models: Implications of Specification Errors Under Random Taste Heterogeneity. Transportation Research Record, 2005, 1926, 61-69.	1.0	14
76	Time allocation in urban and transport settings: an international, inter-urban perspective. Transport Policy, 2002, 9, 79-93.	3.4	13
77	Free-floating carsharing users' willingness-to-pay/accept for logistics management mechanisms. Travel Behaviour & Society, 2020, 21, 154-166.	2.4	13
78	Framework for Travel Time Learning and Behavioral Adaptation in Route and Departure Time Choice. Transportation Research Record, 2006, 1985, 231-240.	1.0	12
79	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. Travel Behaviour & Society, 2016, 4, 49-59.	2.4	12
80	The influence of alternative data smoothing prediction techniques on the performance of a two-stage short-term urban travel time prediction framework. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2017, 21, 214-226.	2.6	12
81	The Contribution of Benefit-in-Kind Taxation Policy in Britain to the "Peak Car" Phenomenon. Transport Reviews, 2013, 33, 526-547.	4.7	10
82	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". Traffic Injury Prevention, 2013, 14, 654-657.	0.6	10
83	Dynamic pricing of free-floating carsharing networks with sensitivity to travellers' attitudes towards risk. Transportation, 2022, 49, 679-702.	2.1	10
84	A mobile environmental sensing system to manage transportation and urban air quality. , 2008, , .		9
85	Global and local information in traffic congestion. Europhysics Letters, 2009, 88, 20010.	0.7	9
86	Hazard based modelling of electric vehicles charging patterns. , 2016, , .		9
87	Capturing Correlation and Taste Heterogeneity with Mixed GEV Models. , 2005, , 55-75.		9
88	Capturing the effect of multiple social influence sources on the adoption of new transport technologies and services. Journal of Choice Modelling, 2022, 42, 100344.	1.2	9
89	Random covariance heterogeneity in discrete choice models. Transportation, 2010, 37, 391-411.	2.1	8
90	Simplified probabilistic choice set formation models in a residential location choice context. Journal of Choice Modelling, 2013, 9, 3-13.	1.2	8

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91	Is Heightened Environmental Sensitivity Responsible for Drop in Young Adults's Rates of Driver's License Acquisition?. Transportation Research Record, 2014, 2465, 73-78.	1.0	8
92	Establishing the Links between Online Activity and Car Use. Transportation Research Record, 2014, 2405, 68-77.	1.0	7
93	Framework for Travel Time Learning and Behavioral Adaptation in Route and Departure Time Choice. , 0, .		7
94	Effect of Transport Models on Connectivity of Interbus Communication Networks. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2011, 15, 161-178.	2.6	6
95	Vehicle automation and freeway "pipeline" capacity in the context of legal standards of care. Transportation, 2019, 46, 1215-1244.	2.1	6
96	Modelling the influence of peers's attitudes on choice behaviour: Theory and empirical application on electric vehicle preferences. Transportation Research, Part A: Policy and Practice, 2020, 140, 278-298.	2.0	6
97	Public-private partnerships for future urban infrastructure. Proceedings of Institution of Civil Engineers: Management, Procurement and Law, 2016, 169, 150-158.	0.4	5
98	Inverse discrete choice modelling: theoretical and practical considerations for imputing respondent attributes from the patterns of observed choices. Transportation Planning and Technology, 2018, 41, 58-79.	0.9	5
99	Characterizing Global Activity Schedule Adjustment Behavior by Using a Sequence Alignment Method. , 0, .		5
100	Stochastic traffic and connectivity dynamics for vehicular ad-hoc networks in signalized road systems. , 2009, , .		4
101	Optimal transmission probabilities in VANETs with inhomogeneous node distribution. , 2009, , .		4
102	Assessment of User Benefits in Presence of Random Taste Heterogeneity. Transportation Research Record, 2009, 2132, 78-86.	1.0	4
103	A novel peer-to-peer congestion pricing marketplace enabled by vehicle-automation. Transportation Research, Part A: Policy and Practice, 2016, 94, 483-494.	2.0	4
104	Optimal Pricing of Vehicle-to-Grid Services Using Disaggregate Demand Models. Energies, 2021, 14, 1090.	1.6	4
105	Modelling Traveller Learning in Stochastic Traffic Assignment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 627-632.	0.4	3
106	Title is missing!. Transportation, 2003, 30, 459-481.	2.1	3
107	Equilibrium analysis of the scheduling of tours in congested networks. Journal of Advanced Transportation, 2006, 40, 184-202.	0.9	3
108	Toward the future of travel behaviour and demand modelling. Transportation Letters, 2012, 4, 75-77.	1.8	3

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109	A comment on Supernak's critique of transport modelling. Transportation, 1987, 14, 63.	2.1	2
110	Empirical Analysis of Attrition and Underreporting in Mailback and Personal Interview Panel Surveys. Transportation Research Record, 1999, 1660, 164-171.	1.0	2
111	Empirical Analysis of Factors Affecting the Resolution of Activity-Scheduling Conflicts. Transportation Research Record, 2005, 1926, 50-60.	1.0	2
112	Does the income elasticity of road traffic depend on the source of income?. Transportation Research, Part A: Policy and Practice, 2014, 67, 15-29.	2.0	2
113	Modeling Joint Charging and Parking Choices of Electric Vehicle Drivers. Transportation Research Record, 2015, 2502, 124-133.	1.0	2
114	Functional Approximations to Alternative-specific Constants in Time-period Choice-modelling. , 2005, , 545-564.		2
115	Using the Internet To Improve Long-Distance Travel Data Collection. Transportation Research Record, 1999, 1660, 148-155.	1.0	2
116	Sentiment analysis of popular-music references to automobiles, 1950s to 2010s. Transportation, 2022, 49, 641-678.	2.1	1
117	Selected papers on applications of discrete choice models presented at the European Regional Science conference, Amsterdam, August 2005. Transportation Research, Part A: Policy and Practice, 2007, 41, 787.	2.0	0
118	A tribute to Ryuichi Kitamura: an IATBR perspective. Transportation, 2009, 36, 649-650.	2.1	0
119	Empirically Constrained Efficiency in a Strategic-Tactical Stated Choice Survey of the Usage Patterns of Emerging Carsharing Services. , 2013, , 453-470.		0
120	Converging Bio-inspired Robotics and Socio-inspired Agents for Intelligent Transportation Systems. Lecture Notes in Computer Science, 2010, , 304-306.	1.0	0