

David Z W Wang

List of Publications by Year in descending order

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85
papers

2,283
citations

236612

25
h-index

233125

45
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86
all docs

86
docs citations

86
times ranked

1712
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal location of wireless charging facilities for electric vehicles: Flow-capturing location model with stochastic user equilibrium. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 58, 1-12.	3.9	193
2	Global optimum of the linearized network design problem with equilibrium flows. <i>Transportation Research Part B: Methodological</i> , 2010, 44, 482-492.	2.8	167
3	Equity-based timetable synchronization optimization in urban subway network. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 51, 1-18.	3.9	146
4	Locating multiple types of charging facilities for battery electric vehicles. <i>Transportation Research Part B: Methodological</i> , 2017, 103, 30-55.	2.8	143
5	A Sustainable Road Network Design Problem with Land Use Transportation Interaction over Time. <i>Networks and Spatial Economics</i> , 2015, 15, 791-822.	0.7	109
6	A novel discrete network design problem formulation and its global optimization solution algorithm. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2015, 79, 213-230.	3.7	98
7	V2G Capacity Estimation Using Dynamic EV Scheduling. <i>IEEE Transactions on Smart Grid</i> , 2014, 5, 1051-1060.	6.2	94
8	Global optimization method for network design problem with stochastic user equilibrium. <i>Transportation Research Part B: Methodological</i> , 2015, 72, 20-39.	2.8	88
9	Bounded-rationality based day-to-day evolution model for travel behavior analysis of urban railway network. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 31, 73-82.	3.9	66
10	Continuum modeling of park-and-ride services considering travel time reliability and heterogeneous commuters – A linear complementarity system approach. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 71, 58-81.	3.7	66
11	A dynamic pricing scheme with negative prices in dockless bike sharing systems. <i>Transportation Research Part B: Methodological</i> , 2019, 127, 201-224.	2.8	61
12	Multi-fleet ferry service network design with passenger preferences for differential services. <i>Transportation Research Part B: Methodological</i> , 2008, 42, 798-822.	2.8	58
13	Identification of critical combination of vulnerable links in transportation networks – a global optimisation approach. <i>Transportmetrica A: Transport Science</i> , 2016, 12, 346-365.	1.3	54
14	A joint liner ship path, speed and deployment problem under emission reduction measures. <i>Transportation Research Part B: Methodological</i> , 2021, 144, 155-173.	2.8	51
15	Train Routing Model and Algorithm Combined with Train Scheduling. <i>Journal of Transportation Engineering</i> , 2013, 139, 81-91.	0.9	40
16	Agitated behavior and elastic characteristics of pedestrians in an alternative floor field model for pedestrian dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 2390-2400.	1.2	36
17	Convergence of ADMM for multi-block nonconvex separable optimization models. <i>Frontiers of Mathematics in China</i> , 2017, 12, 1139-1162.	0.4	35
18	Optimal bus service design with limited stop services in a travel corridor. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2018, 111, 70-86.	3.7	33

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19	Tree-Based Logistic Regression Approach for Work Zone Casualty Risk Assessment. Risk Analysis, 2013, 33, 493-504.	1.5	32
20	On the morning commute problem with distant parking options in the era of autonomous vehicles. Transportation Research Part C: Emerging Technologies, 2020, 120, 102799.	3.9	32
21	Reliability-Based Modeling of Park-and-Ride Service on Linear Travel Corridor. Transportation Research Record, 2013, 2333, 16-26.	1.0	31
22	Cellular Automaton Modeling of the Interaction between Vehicles and Pedestrians at Signalized Crosswalk. Journal of Transportation Engineering, 2012, 138, 1442-1452.	0.9	29
23	MEAN-SEMIVARIANCE MODELS FOR PORTFOLIO OPTIMIZATION PROBLEM WITH MIXED UNCERTAINTY OF FUZZINESS AND RANDOMNESS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2013, 21, 127-139.	0.9	27
24	Continuum modelling of spatial and dynamic equilibrium in a travel corridor with heterogeneous commuters—A partial differential complementarity system approach. Transportation Research Part B: Methodological, 2016, 85, 1-18.	2.8	27
25	Analyzing Customized Bus Service on a Multimodal Travel Corridor: An Analytical Modeling Approach. Journal of Transportation Engineering Part A: Systems, 2017, 143, .	0.8	27
26	Morning commute problem with supply management considering parking and ride-sourcing. Transportation Research Part C: Emerging Technologies, 2019, 105, 626-647.	3.9	27
27	Traffic managements for household travels in congested morning commute. Transportation Research, Part E: Logistics and Transportation Review, 2016, 91, 173-189.	3.7	26
28	Discrete-time day-to-day dynamic congestion pricing scheme considering multiple equilibria. Transportation Research Part B: Methodological, 2017, 104, 1-16.	2.8	25
29	Modelling urban traffic dynamics based upon the variational formulation of kinematic waves. Transportmetrica B, 2015, 3, 169-191.	1.4	24
30	Influence of CAVs platooning on intersection capacity under mixed traffic. Physica A: Statistical Mechanics and Its Applications, 2022, 593, 126989.	1.2	21
31	A Symmetric Alternating Direction Method of Multipliers for Separable Nonconvex Minimization Problems. Asia-Pacific Journal of Operational Research, 2017, 34, 1750030.	0.9	20
32	Multi-modal morning commute with endogenous shared autonomous vehicle penetration considering parking space constraint. Transportation Research, Part E: Logistics and Transportation Review, 2021, 151, 102354.	3.7	20
33	Planning for modular-vehicle transit service system: Model formulation and solution methods. Transportation Research Part C: Emerging Technologies, 2022, 138, 103627.	3.9	20
34	Scheduling synchronization in urban rail transit networks: Trade-offs between transfer passenger and last train operation. Transportation Research, Part A: Policy and Practice, 2020, 138, 463-490.	2.0	19
35	Discrete-time dynamic road congestion pricing under stochastic user optimal principle. Transportation Research, Part E: Logistics and Transportation Review, 2019, 131, 24-36.	3.7	17
36	Taxi Dispatching and Stable Marriage. Procedia Computer Science, 2016, 83, 163-170.	1.2	16

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37	Optimal transit fare in a bimodal network under demand uncertainty and bounded rationality. Journal of Advanced Transportation, 2014, 48, 957-973.	0.9	14
38	Electric vehicle charging profile prediction for efficient energy management in buildings. , 2012, , .		12
39	Financial sustainability of rail transit service: The effect of urban development pattern. Transport Policy, 2016, 48, 23-33.	3.4	12
40	Macroscopic analysis of the fundamental diagram with inhomogeneous network and instable traffic. Transportmetrica A: Transport Science, 2016, 12, 20-42.	1.3	12
41	A tri-level optimization model for a private road competition problem with traffic equilibrium constraints. European Journal of Operational Research, 2019, 273, 190-197.	3.5	12
42	Braess Paradox of traffic networks with mixed equilibrium behaviors. Transportation Research, Part E: Logistics and Transportation Review, 2016, 93, 95-114.	3.7	11
43	Optimization of bus stop spacing for on-demand public bus service. Transportation Letters, 2020, 12, 329-339.	1.8	11
44	Autonomous and conventional bus fleet optimization for fixed-route operations considering demand uncertainty. Transportation, 2021, 48, 2735-2763.	2.1	11
45	Allocation strategies in a dockless bike sharing system: a community structure-based approach. International Journal of Sustainable Transportation, 2022, 16, 95-104.	2.1	11
46	Quantitative Approaches to Resilience in Transport Networks. Transportmetrica A: Transport Science, 2015, 11, 751-753.	1.3	10
47	Public transit service operation strategy under indifference thresholdsâ€based biâ€modal equilibrium. Journal of Advanced Transportation, 2016, 50, 1124-1138.	0.9	10
48	Overcoming the Downs-Thomson Paradox by transit subsidy policies. Transportation Research, Part A: Policy and Practice, 2017, 95, 126-147.	2.0	10
49	Which service is better on a linear travel corridor: Park & ride or on-demand public bus?. Transportation Research, Part A: Policy and Practice, 2018, 118, 803-818.	2.0	10
50	Simulation of Pedestrian Evacuation in University Canteen Based on Cellular Automata. IEEE Access, 2019, 7, 130120-130132.	2.6	10
51	Managing the Accessibility on Mass Public Transit: the Case of Hong Kong. Journal of Transport and Land Use, 2008, 1, .	0.7	9
52	Managing mixed traffic with autonomous vehicles â€ A day-to-day routing allocation scheme. Transportation Research Part C: Emerging Technologies, 2022, 140, 103726.	3.9	9
53	A simple self-adaptive alternating direction method for linear variational inequality problems. Computers and Mathematics With Applications, 2007, 53, 1595-1604.	1.4	8
54	The combination of continuous network design and route guidance. Computers and Operations Research, 2016, 73, 92-103.	2.4	8

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55	Modeling and solving discrete network design problem with stochastic user equilibrium. Journal of Advanced Transportation, 2016, 50, 1295-1313.	0.9	8
56	Equilibrium trip scheduling in single bottleneck traffic flows considering multi-class travellers and uncertainty – a complementarity formulation. Transportmetrica A: Transport Science, 2016, 12, 297-312.	1.3	8
57	Optimal bus transit route packaging in a privatized contracting regime. Transportation Research, Part A: Policy and Practice, 2017, 97, 146-157.	2.0	8
58	Mining commuting behavior of urban rail transit network by using association rules. Physica A: Statistical Mechanics and Its Applications, 2020, 559, 125094.	1.2	8
59	Service operation design in a transit network with congested common lines. Transportation Research Part B: Methodological, 2021, 144, 81-102.	2.8	8
60	Effects of traffic lights for Manhattan-like urban traffic network in intelligent transportation systems. Transportmetrica B, 2018, 6, 4-16.	1.4	6
61	Modeling Pedestrian Choice Behavior of Vertical Walking Facilities in Rail Transit Station Considering Reminder Sign. IEEE Access, 2019, 7, 122006-122018.	2.6	6
62	Methodology for optimizing the number of electric vehicles deployed under a smart grid. , 2013, , .		5
63	Global Optimization for Transport Network Expansion and Signal Setting. Mathematical Problems in Engineering, 2015, 2015, 1-18.	0.6	5
64	Solving Continuous Network Design Problem with Generalized Geometric Programming Approach. Transportation Research Record, 2016, 2567, 38-46.	1.0	5
65	Simulation of separating pedestrian flow in T-shaped passage based on guide sign considering unbalanced flow. International Journal of Modern Physics C, 2019, 30, 1950001.	0.8	5
66	Mixed-Fleet Ferry Routing and Scheduling. , 2008, , 181-194.		5
67	An efficient Peaceman–Rachford splitting method for constrained TGV-shearlet-based MRI reconstruction. Inverse Problems in Science and Engineering, 2019, 27, 115-133.	1.2	4
68	A discrete-time second-best dynamic road pricing scheme considering the existence of multiple equilibria. Transportmetrica B, 2021, 9, 303-323.	1.4	4
69	On the Morning Commute Problem in a Y-shaped Network with Individual and Household Travelers. Transportation Science, 2022, 56, 848-876.	2.6	4
70	Solving Constrained TV ₂ L ₁ -L ₂ MRI Signal Reconstruction via an Efficient Alternating Direction Method of Multipliers. Numerical Mathematics, 2017, 10, 895-912.	0.6	3
71	An efficient projection method for nonlinear inverse problems with sparsity constraints. Inverse Problems and Imaging, 2016, 10, 689-709.	0.6	3
72	Reliable transportation network design considering uncertain demand variability. International Journal of Sustainable Transportation, 2016, 10, 752-763.	2.1	2

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73	Urban development with financially sustainable rail service. Journal of Advanced Transportation, 2016, 50, 1139-1155.	0.9	2
74	Optimal urban development density along a multimodal linear travel corridor with time-distance toll scheme. Transportmetrica A: Transport Science, 2016, 12, 853-877.	1.3	2
75	A stochastic process traffic assignment model considering stochastic traffic demand. Transportmetrica B, 2018, 6, 169-189.	1.4	2
76	An operator splitting method for monotone variational inequalities with a new perturbation strategy. Optimization Letters, 2018, 12, 103-122.	0.9	2
77	Optimizing the number of employment subcenters to decentralize a congested city. Regional Science and Urban Economics, 2021, 90, 103699.	1.4	2
78	On the commute travel pattern with compressed work schedule. Transportation Research, Part A: Policy and Practice, 2020, 136, 334-356.	2.0	2
79	A Two-Stage Location and Allocation Framework of Dockless Bike-Sharing System. IEEE Intelligent Transportation Systems Magazine, 2023, 15, 181-192.	2.6	2
80	Urban Development with Sustainable Public Transit Services. , 2006, , 749.		1
81	Optimal Urban Development Density along A Multi-Modal Linear Travel Corridor with Time-distance Toll Scheme. Transportation Research Procedia, 2015, 9, 130-148.	0.8	1
82	Models and Technologies for Transport System Flow Analysis. Journal of Advanced Transportation, 2019, 2019, 1-4.	0.9	1
83	Predicting the Impact of Disruptions to Urban Rail Transit Systems. , 2021, , .		1
84	Day-to-Day Scheduling Travel Time Adjustment Behavior and Simulation. Mathematical Problems in Engineering, 2014, 2014, 1-7.	0.6	0
85	Robustness and Pre-warning of Real-time Service of Station-based Bike-sharing System under Normal Operation. IEEE Intelligent Transportation Systems Magazine, 2021, , 0-0.	2.6	0