Xinyu Cao

List of Publications by Year
in descending order

137 papers	9,657 citations	36271 51 h-index	42364 92 g-index
139 all docs	139 docs citations	139 times ranked	4117 citing authors

#	Article	IF	Citations
1	Correlation or causality between the built environment and travel behavior? Evidence from Northern California. Transportation Research, Part D: Transport and Environment, 2005, 10, 427-444.	3.2	789
2	Examining the Impacts of Residential Selfâ€Selection on Travel Behaviour: A Focus on Empirical Findings. Transport Reviews, 2009, 29, 359-395.	4.7	786
3	Examining the impacts of residential self-selection on travel behavior: A focus on methodologies. Transportation Research Part B: Methodological, 2008, 42, 204-228.	2.8	587
4	Self-Selection in the Relationship between the Built Environment and Walking: Empirical Evidence from Northern California. Journal of the American Planning Association, 2006, 72, 55-74.	0.9	495
5	Do changes in neighborhood characteristics lead to changes in travel behavior? A structural equations modeling approach. Transportation, 2007, 34, 535-556.	2.1	319
6	The Influences of the Built Environment and Residential Self-Selection on Pedestrian Behavior: Evidence from Austin, TX. Transportation, 2006, 33, 1-20.	2.1	307
7	A geographically and temporally weighted regression model to explore the spatiotemporal influence of built environment on transit ridership. Computers, Environment and Urban Systems, 2018, 70, 113-124.	3.3	184
8	The relationship between the built environment and nonwork travel: A case study of Northern California. Transportation Research, Part A: Policy and Practice, 2009, 43, 548-559.	2.0	172
9	Exploring the influence of built environment on travel mode choice considering the mediating effects of car ownership and travel distance. Transportation Research, Part A: Policy and Practice, 2017, 100, 65-80.	2.0	169
10	Applying gradient boosting decision trees to examine non-linear effects of the built environment on driving distance in Oslo. Transportation Research, Part A: Policy and Practice, 2018, 110, 107-117.	2.0	164
11	Prioritizing Influential Factors for Freeway Incident Clearance Time Prediction Using the Gradient Boosting Decision Trees Method. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2303-2310.	4.7	161
12	How does neighborhood design affect life satisfaction? Evidence from Twin Cities. Travel Behaviour & Society, 2016, 5, 68-76.	2.4	157
13	How does the station-area built environment influence Metrorail ridership? Using gradient boosting decision trees to identify non-linear thresholds. Journal of Transport Geography, 2019, 77, 70-78.	2.3	150
14	The interactions between e-shopping and traditional in-store shopping: an application of structural equations model. Transportation, 2012, 39, 957-974.	2.1	118
15	Cross-Sectional and Quasi-Panel Explorations of the Connection between the Built Environment and Auto Ownership. Environment and Planning A, 2007, 39, 830-847.	2.1	115
16	Exploring Causal Effects of Neighborhood Type on Walking Behavior Using Stratification on the Propensity Score. Environment and Planning A, 2010, 42, 487-504.	2.1	112
17	Exploring the non-linear associations between spatial attributes and walking distance to transit. Journal of Transport Geography, 2020, 82, 102560.	2.3	108
18	Neighborhood Design and the Accessibility of the Elderly: An Empirical Analysis in Northern California. International Journal of Sustainable Transportation, 2010, 4, 347-371.	2.1	102

#	Article	IF	Citations
19	Satisfaction with travel and residential self-selection: How do preferences moderate the impact of the Hiawatha Light Rail Transit line?. Journal of Transport and Land Use, 2014, 7, 93-108.	0.7	102
20	Joint analysis of the spatial impacts of built environment on car ownership and travel mode choice. Transportation Research, Part D: Transport and Environment, 2018, 60, 28-40.	3.2	101
21	Threshold and moderating effects of land use on metro ridership in Shenzhen: Implications for TOD planning. Journal of Transport Geography, 2020, 89, 102878.	2.3	98
22	Synergistic effects of the built environment and commuting programs on commute mode choice. Transportation Research, Part A: Policy and Practice, 2018, 118, 104-118.	2.0	94
23	Exploring the influence of built environment on tour-based commuter mode choice: A cross-classified multilevel modeling approach. Transportation Research, Part D: Transport and Environment, 2014, 32, 230-238.	3.2	93
24	Examining threshold effects of built environment elements on travel-related carbon-dioxide emissions. Transportation Research, Part D: Transport and Environment, 2019, 75, 1-12.	3.2	93
25	Nonlinear effect of accessibility on car ownership in Beijing: Pedestrian-scale neighborhood planning. Transportation Research, Part D: Transport and Environment, 2020, 86, 102445.	3.2	91
26	The Causal Influence of Neighborhood Design on Physical Activity within the Neighborhood: Evidence from Northern California. American Journal of Health Promotion, 2008, 22, 350-358.	0.9	87
27	Understanding neighbourhood design impact on travel behaviour: An application of structural equations model to a British metropolitan data. Transportation Research, Part A: Policy and Practice, 2012, 46, 22-32.	2.0	86
28	Sustainable station-level planning: An integrated transport and land use design model for transit-oriented development. Journal of Cleaner Production, 2018, 170, 1052-1063.	4.6	85
29	Environmental correlates of residential satisfaction: An exploration of mismatched neighborhood characteristics in the Twin Cities. Landscape and Urban Planning, 2016, 150, 26-35.	3.4	84
30	How perceptions mediate the effects of the built environment on travel behavior?. Transportation, 2019, 46, 175-197.	2.1	83
31	Neighborhood design and vehicle type choice: Evidence from Northern California. Transportation Research, Part D: Transport and Environment, 2006, 11, 133-145.	3.2	77
32	A gradient boosting logit model to investigate driver's stop-or-run behavior at signalized intersections using high-resolution traffic data. Transportation Research Part C: Emerging Technologies, 2016, 72, 225-238.	3.9	77
33	The Impacts of LRT, Neighbourhood Characteristics, and Self-selection on Auto Ownership: Evidence from Minneapolis-St. Paul. Urban Studies, 2014, 51, 2068-2087.	2.2	72
34	Disentangling the influence of neighborhood type and self-selection on driving behavior: an application of sample selection model. Transportation, 2009, 36, 207-222.	2.1	70
35	E-Shopping, Spatial Attributes, and Personal Travel. Transportation Research Record, 2009, 2135, 160-169.	1.0	70
36	The interactions between e-shopping and store shopping in the shopping process for search goods and experience goods. Transportation, 2017, 44, 885-904.	2.1	68

#	ARTICLE	IF	CITATIONS
37	How do individuals adapt their personal travel? Objective and subjective influences on the consideration of travel-related strategies for San Francisco Bay Area commuters. Transport Policy, 2005, 12, 291-302.	3.4	67
38	Examining the impacts of neighborhood design and residential self-selection on active travel: a methodological assessment. Urban Geography, 2015, 36, 236-255.	1.7	67
39	How does the built environment at residential and work locations affect car ownership? An application of cross-classified multilevel model. Journal of Transport Geography, 2019, 75, 37-45.	2.3	65
40	The Impact of Hiawatha Light Rail on Commercial and Industrial Property Values in Minneapolis. Journal of Public Transportation, 2013, 16, 47-66.	0.3	65
41	Exploring the Influences of Density on Travel Behavior Using Propensity Score Matching. Environment and Planning B: Planning and Design, 2012, 39, 459-470.	1.7	64
42	Heterogeneous effects of neighborhood type on commute mode choice: An exploration of residential dissonance in the Twin Cities. Journal of Transport Geography, 2015, 48, 188-196.	2.3	64
43	The association between spatial attributes and e-shopping in the shopping process for search goods and experience goods: Evidence from Nanjing. Journal of Transport Geography, 2018, 66, 291-299.	2.3	63
44	Examining the effects of the built environment on auto ownership in two Norwegian urban regions. Transportation Research, Part D: Transport and Environment, 2019, 67, 464-474.	3.2	62
45	Investigating the impacts of built environment on vehicle miles traveled and energy consumption: Differences between commuting and non-commuting trips. Cities, 2017, 68, 25-36.	2.7	61
46	Influence of E-Shopping on Shopping Travel. Transportation Research Record, 2010, 2157, 147-154.	1.0	59
47	The relationships between e-shopping and store shopping in the shopping process of search goods. Transportation Research, Part A: Policy and Practice, 2012, 46, 993-1002.	2.0	58
48	Exploring the connections among residential location, self-selection, and driving: Propensity score matching with multiple treatments. Transportation Research, Part A: Policy and Practice, 2010, 44, 797-805.	2.0	57
49	Influences of built environment characteristics and individual factors on commuting distance: A multilevel mixture hazard modeling approach. Transportation Research, Part D: Transport and Environment, 2017, 51, 314-325.	3.2	56
50	How do individuals adapt their personal travel? A conceptual exploration of the consideration of travel-related strategies. Transport Policy, 2005, 12, 199-206.	3.4	55
51	Associations Between Online Purchasing and Store Purchasing for Four Types of Products in Nanjing, China. Transportation Research Record, 2016, 2566, 93-101.	1.0	54
52	How will smart growth land-use policies affect travel? A theoretical discussion on the importance of residential sorting. Environment and Planning B: Planning and Design, 2016, 43, 58-73.	1.7	54
53	Elaborating non-linear associations and synergies of subway access and land uses with urban vitality in Shenzhen. Transportation Research, Part A: Policy and Practice, 2021, 144, 74-88.	2.0	54
54	The association between light rail transit and satisfactions with travel and life: evidence from Twin Cities. Transportation, 2013, 40, 921-933.	2.1	53

#	Article	IF	Citations
55	Geographic Distribution of E-Shopping. Transportation Research Record, 2013, 2383, 18-26.	1.0	53
56	Residential self-selection in the relationships between the built environment and travel behavior: Introduction to the special issue. Journal of Transport and Land Use, 2014, 7, 1-3.	0.7	53
57	Exploring the influential factors in incident clearance time: Disentangling causation from self-selection bias. Accident Analysis and Prevention, 2015, 85, 58-65.	3.0	52
58	Effects of metro transit on the ownership of mobility instruments in Xiâ€™an, China. Transportation Research, Part D: Transport and Environment, 2017, 52, 495-505.	3.2	51
59	Examining pedestrian satisfaction in gated and open communities: An integration of gradient boosting decision trees and impact-asymmetry analysis. Landscape and Urban Planning, 2019, 185, 246-257.	3.4	51
60	A novel analysis of consumption-based carbon footprints in China: Unpacking the effects of urban settlement and rural-to-urban migration. Global Environmental Change, 2016, 39, 285-293.	3.6	50
61	Applying the IPAâ€"Kano model to examine environmental correlates of residential satisfaction: A case study of Xi'an. Habitat International, 2016, 53, 461-472.	2.3	50
62	Comparing importance-performance analysis and three-factor theory in assessing rider satisfaction with transit. Journal of Transport and Land Use, 2017, 10, .	0.7	49
63	Exploring the Nonlinear Relationship between the Built Environment and Active Travel in the Twin Cities. Journal of Planning Education and Research, 2023, 43, 637-652.	1.5	47
64	Shopping-Related Attitudes: A Factor and Cluster Analysis of Northern California Shoppers. Environment and Planning B: Planning and Design, 2009, 36, 204-228.	1.7	45
65	Non-linear relationships between built environment characteristics and electric-bike ownership in Zhongshan, China. Transportation Research, Part D: Transport and Environment, 2019, 75, 286-296.	3.2	45
66	Exploring Travel Behavior of Elderly Women in Rural and Small Urban North Dakota. Transportation Research Record, 2008, 2082, 125-131.	1.0	41
67	The influence of light rail transit on transit use: An exploration of station area residents along the Hiawatha line in Minneapolis. Transportation Research, Part A: Policy and Practice, 2014, 59, 134-143.	2.0	41
68	How does the propensity of living near rail transit moderate the influence of rail transit on transit trip frequency in Xi'an?. Journal of Transport Geography, 2016, 54, 194-204.	2.3	41
69	Can metro transit reduce driving? Evidence from Xi'an, China. Transport Policy, 2019, 81, 350-359.	3.4	41
70	Catalysts and magnets: Built environment and bicycle commuting. Journal of Transport Geography, 2015, 47, 100-108.	2.3	40
71	Examining factors that keep residents with high transit preference away from transit-rich zones and associated behavior outcomes. Journal of Transport Geography, 2018, 66, 224-234.	2.3	40
72	Non-linear associations between zonal built environment attributes and transit commuting mode choice accounting for spatial heterogeneity. Transportation Research, Part A: Policy and Practice, 2021, 148, 22-35.	2.0	40

#	Article	IF	Citations
73	Influences of LRT on travel behaviour: A retrospective study on movers in Minneapolis. Urban Studies, 2017, 54, 2504-2520.	2.2	39
74	No Particular Place to Go. Environment and Behavior, 2009, 41, 233-257.	2.1	38
75	How do passengers use travel time? A case study of Shanghai–Nanjing high speed rail. Transportation, 2018, 45, 451-477.	2.1	38
76	A panel analysis of the effect of the urban environment on the spatiotemporal pattern of taxi demand. Travel Behaviour & Society, 2020, 18, 29-36.	2.4	37
77	Gender Role–Based Differences in Time Allocation. Transportation Research Record, 2007, 2014, 58-66.	1.0	36
78	Exploring built environment correlates of walking distance of transit egress in the Twin Cities. Journal of Transport Geography, 2017, 64, 132-138.	2.3	36
79	Differentiating the Influence of Accessibility, Attitudes, and Demographics on Stop Participation and Frequency during the Evening Commute. Environment and Planning B: Planning and Design, 2008, 35, 431-442.	1.7	35
80	Exploring rider satisfaction with arterial BRT: An application of impact asymmetry analysis. Travel Behaviour & Society, 2020, 19, 82-89.	2.4	34
81	Travel-based residential self-selection: A qualitatively improved understanding from Norway. Cities, 2019, 87, 87-102.	2.7	33
82	Is Alternative Development Undersupplied?. Transportation Research Record, 2008, 2077, 97-105.	1.0	32
83	The impacts of same day delivery online shopping on local store shopping in Nanjing, China. Transportation Research, Part A: Policy and Practice, 2020, 136, 35-47.	2.0	31
84	Driving as a commuting travel mode choice of car owners in urban China: Roles of the built environment. Cities, 2021, 112, 103114.	2.7	31
85	Real estate development in anticipation of the Green Line light rail transit in St. Paul. Transport Policy, 2016, 51, 24-32.	3.4	30
86	The association between transit access and auto ownership: evidence from Guangzhou, China. Transportation Planning and Technology, 2016, 39, 269-283.	0.9	29
87	The interaction between e-shopping and store shopping: empirical evidence from Nanjing, China. Transportation Letters, 2020, 12, 157-165.	1.8	29
88	Examining non-linear associations between population density and waist-hip ratio: An application of gradient boosting decision trees. Cities, 2020, 107, 102899.	2.7	29
89	Understanding the Role of Built Environment in Reducing Vehicle Miles Traveled Accounting for Spatial Heterogeneity. Sustainability, 2014, 6, 589-601.	1.6	28
90	Examining Built Environmental Correlates of Neighborhood Satisfaction: A Focus on Analysis Approaches. Journal of Planning Literature, 2018, 33, 419-432.	2.2	28

#	Article	IF	Citations
91	Nonlinear and interaction effects of land use and motorcycles/E-bikes on car ownership. Transportation Research, Part D: Transport and Environment, 2022, 102, 103115.	3.2	28
92	Association between subway and life satisfaction: Evidence from Xiâ€™an, China. Transportation Research, Part D: Transport and Environment, 2021, 96, 102869.	3.2	27
93	When and How Much Did the Green Line LRT Increase Single-Family Housing Values in St. Paul, Minnesota?. Journal of Planning Education and Research, 2018, 38, 427-436.	1.5	25
94	Which Dâ€™s are the important ones? The effects of regional location and density on driving distance in Oslo and Stavanger. Journal of Transport and Land Use, 2017, 10, .	0.7	25
95	Impacts of the built environment on activity-travel behavior: Are there differences between public and private housing residents in Hong Kong?. Transportation Research, Part A: Policy and Practice, 2017, 103, 25-35.	2.0	24
96	Exploring satisfaction of choice and captive bus riders: An impact asymmetry analysis. Transportation Research, Part D: Transport and Environment, 2021, 93, 102798.	3.2	24
97	Exploring correlates of passenger satisfaction and service improvement priorities of the Shanghai-Nanjing High Speed Rail. Journal of Transport and Land Use, 2018, 11, .	0.7	24
98	Walking for Purpose and Pleasure. Transportation Research Record, 2014, 2464, 67-76.	1.0	22
99	Built environment effects on fuel consumption of driving to work: Insights from on-board diagnostics data of personal vehicles. Transportation Research, Part D: Transport and Environment, 2019, 67, 565-575.	3.2	22
100	Prioritizing neighborhood attributes to enhance neighborhood satisfaction: An impact asymmetry analysis. Cities, 2020, 105, 102854.	2.7	22
101	Using three-factor theory to identify improvement priorities for express and local bus services: An application of regression with dummy variables in the Twin Cities. Transportation Research, Part A: Policy and Practice, 2018, 113, 184-196.	2.0	20
102	Exploring urban-rural disparity of the multiple deprivation index in Guangzhou City from 2000 to 2010. Cities, 2018, 79, 1-11.	2.7	20
103	Exploring rider satisfaction with transit service in Indore, India: an application of the three-factor theory. Transportation Letters, 2019, 11, 469-477.	1.8	20
104	Exploring the asymmetric influences of stop attributes on rider satisfaction with bus stops. Travel Behaviour & Society, 2020, 19, 162-169.	2.4	20
105	Residential self-selection in the relationship between the built environment and travel behavior: A literature review and research agenda. Advances in Transport Policy and Planning, 2022, , 75-94.	0.7	20
106	On the importance of Shenzhen metro transit to land development and threshold effect. Transport Policy, 2020, 99, 1-11.	3.4	19
107	Examining the effect of the Hiawatha LRT on auto use in the Twin Cities. Transport Policy, 2019, 81, 284-292.	3.4	18
108	The effect of BRT implementation and streetscape redesign on physical activity: A case study of Mexico City. Transportation Research, Part A: Policy and Practice, 2017, 100, 337-347.	2.0	16

#	Article	IF	Citations
109	Land use and transportation in China. Transportation Research, Part D: Transport and Environment, 2017, 52, 423-427.	3.2	16
110	Voyage of the SS Minivan. Transportation Research Record, 2006, 1956, 141-148.	1.0	15
111	The role of access and egress in passenger overall satisfaction with high speed rail. Transportation, 2019, 46, 2137-2150.	2.1	15
112	Relationship between Online Shopping and Store Shopping in the Shopping Process: Empirical Study for Search Goods and Experience Goods in Nanjing, China. Transportation Research Record, 2019, 2673, 38-47.	1.0	14
113	The gaps in satisfaction with transit services among BRT, metro, and bus riders: Evidence from Guangzhou. Journal of Transport and Land Use, 0, , .	0.7	14
114	Associations among Distance, Quality, and Safety When Walking from a Park-and-Ride Facility to the Transit Station in the Twin Cities. Journal of Planning Education and Research, 2019, 39, 496-507.	1.5	12
115	Voyage of the SS Minivan: Women's Travel Behavior in Traditional and Suburban Neighborhoods. , 0, .		12
116	Exploring changes in public transport use and walking following residential relocation: a British case study. Journal of Transport and Land Use, 0, , .	0.7	12
117	Autonomous vehicle policies with equity implications: Patterns and gaps. Transportation Research Interdisciplinary Perspectives, 2022, 13, 100521.	1.6	11
118	Exploring the importance of neighborhood characteristics to and their nonlinear effects on life satisfaction of displaced senior farmers. Cities, 2022, 124, 103605.	2.7	11
119	High-speed rail. Transportation Letters, 2017, 9, 185-186.	1.8	10
120	The Impact of Employer Attitude to Green Commuting Plans on Reducing Car Driving: A Mixed Method Analysis. Promet - Traffic - Traffico, 2014, 26, 109-119.	0.3	10
121	How does same-day-delivery online shopping reshape social interactions among neighbors in Nanjing?. Cities, 2021, 114, 103219.	2.7	8
122	Residential Preference and Choice of Movers in Light Rail Neighborhoods in Minneapolis, Minnesota. Transportation Research Record, 2015, 2494, 1-10.	1.0	7
123	Joint Analysis of the Commuting Departure Time and Travel Mode Choice: Role of the Built Environment. Journal of Advanced Transportation, 2018, 2018, 1-13.	0.9	7
124	Rapid transit and land development in a diverse world. Transport Policy, 2016, 51, 1-3.	3.4	6
125	Examining motivations for owning autonomous vehicles: Implications for land use and transportation. Journal of Transport Geography, 2022, 102, 103361.	2.3	6
126	The impacts of vehicle automation on transport-disadvantaged people. Transportation Research Interdisciplinary Perspectives, 2021, 11, 100447.	1.6	5

#	Article	IF	Citations
127	The first 25 years of Transportation Research Part D: Transport and Environment. Transportation Research, Part D: Transport and Environment, 2021, 100, 103078.	3.2	5
128	Low carbon cities: Land use and transportation interventions. Journal of Regional Science, 2017, 57, 467-469.	2.1	3
129	Preparing Transit in the Advent of Automated Vehicles: A Focus-group Study in the Twin Cities. Findings, 0, , .	0.0	3
130	Examining the adaptation process of people's behavioral response to high gasoline costs. KSCE Journal of Civil Engineering, 2013, 17, 815-823.	0.9	2
131	Marginal Impacts of Park-and-Ride Facilities in the Twin Cities Region of the US. Transportation Research Record, 2020, 2674, 403-413.	1.0	2
132	The Road Less Traveled: Does Rail Transit Matter?. Journal of Planning Education and Research, 0, , 0739456X2110358.	1.5	2
133	The effects of neighbourhood type and self-selection on driving: a case study of Northern California. , 2015, , .		2
134	The connections among accessibility, self- selection and walking behaviour: a case study of Northern California residents. , 2012, , .		2
135	Examining the Impacts of Residential Self-Selection on Travel Behaviour: A Focus on Empirical Findings. , 0, .		1
136	Did the A Line Arterial Bus Rapid Transit Affect Housing Values in Ramsey County, MN?. Findings, 0, , .	0.0	1
137	The Association Between Travel and Satisfaction with Travel and Life: Evidence from the Twin Cities. , 2016, , 151-167.		0