# Lijun Sun

## List of Publications by Citations

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|---|---|---|---|
| 66 papers | 1,628 citations | 21 h-index | 39 g-index |
| 69 ext. papers | 2,168 ext. citations | 5.6 avg, IF | 5.7 L-index |

| # | Paper | IF | Citations |
|---|-------|-----|-----------|
| 66 | Demand-driven timetable design for metro services. *Transportation Research Part C: Emerging Technologies*, **2014**, 46, 284-299 | 8.4 | 172 |
| 65 | Understanding metropolitan patterns of daily encounters. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 13774-9 | 11.5 | 143 |
| 64 | Enhancing metro network resilience via localized integration with bus services. *Transportation Research, Part E: Logistics and Transportation Review*, **2014**, 63, 17-30 | 9 | 137 |
| 63 | Discovering themes and trends in transportation research using topic modeling. *Transportation Research Part C: Emerging Technologies*, **2017**, 77, 49-66 | 8.4 | 120 |
| 62 | A Bayesian tensor decomposition approach for spatiotemporal traffic data imputation. *Transportation Research Part C: Emerging Technologies*, **2019**, 98, 73-84 | 8.4 | 105 |
| 61 | Understanding urban mobility patterns with a probabilistic tensor factorization framework. *Transportation Research Part B: Methodological*, **2016**, 91, 511-524 | 7.2 | 95 |
| 60 | An integrated Bayesian approach for passenger flow assignment in metro networks. *Transportation Research Part C: Emerging Technologies*, **2015**, 52, 116-131 | 8.4 | 81 |
| 59 | Effectiveness of Vegetable Oils as Rejuvenators for Aged Asphalt Binders. *Journal of Materials in Civil Engineering*, **2017**, 29, | 3 | 69 |
| 58 | Using smart card data to extract passenger's spatio-temporal density and train's trajectory of MRT system **2012**, | | 59 |
| 57 | A Bayesian network approach for population synthesis. *Transportation Research Part C: Emerging Technologies*, **2015**, 61, 49-62 | 8.4 | 58 |
| 56 | Valuation of sitting and standing in metro trains using revealed preferences. *Transport Policy*, **2016**, 47, 94-104 | 5.7 | 54 |
| 55 | Unpacking the polarization of workplace skills. *Science Advances*, **2018**, 4, eaao6030 | 14.3 | 47 |
| 54 | Models of bus boarding and alighting dynamics. *Transportation Research, Part A: Policy and Practice*, **2014**, 69, 447-460 | 3.7 | 40 |
| 53 | Small cities face greater impact from automation. *Journal of the Royal Society Interface*, **2018**, 15, | 4.1 | 34 |
| 52 | Dynamic holding control to avoid bus bunching: A multi-agent deep reinforcement learning framework. *Transportation Research Part C: Emerging Technologies*, **2020**, 116, 102661 | 8.4 | 33 |
| 51 | A nonconvex low-rank tensor completion model for spatiotemporal traffic data imputation. *Transportation Research Part C: Emerging Technologies*, **2020**, 117, 102673 | 8.4 | 31 |
| 50 | Optimizing fleet size and scheduling of feeder transit services considering the influence of bike-sharing systems. *Journal of Cleaner Production*, **2019**, 236, 117550 | 10.3 | 24 |

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| 49 | Optimal allocation of protective resources in urban rail transit networks against intentional attacks. *Transportation Research, Part E: Logistics and Transportation Review*, **2015**, 84, 73-87 | 9 | 24 |
| 48 | Urban Human Mobility. *SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining*, **2019**, 21, 1-19 | 4.6 | 22 |
| 47 | A hierarchical mixture modeling framework for population synthesis. *Transportation Research Part B: Methodological*, **2018**, 114, 199-212 | 7.2 | 22 |
| 46 | Efficient detection of contagious outbreaks in massive metropolitan encounter networks. *Scientific Reports*, **2014**, 4, 5099 | 4.9 | 21 |
| 45 | Bayesian Temporal Factorization for Multidimensional Time Series Prediction. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP, | 13.3 | 20 |
| 44 | Coauthorship network in transportation research. *Transportation Research, Part A: Policy and Practice*, **2017**, 100, 135-151 | 3.7 | 18 |
| 43 | Quantifying long-term evolution of intra-urban spatial interactions. *Journal of the Royal Society Interface*, **2015**, 12, 20141089 | 4.1 | 18 |
| 42 | Short-Term Origin-Destination Based Metro Flow Prediction with Probabilistic Model Selection Approach. *Journal of Advanced Transportation*, **2018**, 2018, 1-15 | 1.9 | 14 |
| 41 | Detecting reciprocity at a global scale. *Science Advances*, **2018**, 4, eaao5348 | 14.3 | 12 |
| 40 | Impact of COVID-19-Related Traffic Slowdown on Urban Heat Characteristics. *Atmosphere*, **2021**, 12, 243 | 2.7 | 12 |
| 39 | Heterogeneity in Valuation of Travel Time Reliability and In-Vehicle Crowding for Mode Choices in Multimodal Networks. *Journal of Transportation Engineering Part A: Systems*, **2018**, 144, 04018061 | 1.5 | 10 |
| 38 | Limited Information-Sharing Strategy for Taxi–Customer Searching Problem in Nonbooking Taxi Service. *Transportation Research Record*, **2013**, 2333, 46-54 | 1.7 | 10 |
| 37 | Incremental Bayesian matrix/tensor learning for structural monitoring data imputation and response forecasting. *Mechanical Systems and Signal Processing*, **2021**, 158, 107734 | 7.8 | 10 |
| 36 | Quantifying privacy vulnerability of individual mobility traces: A case study of license plate recognition data. *Transportation Research Part C: Emerging Technologies*, **2019**, 104, 78-94 | 8.4 | 9 |
| 35 | Scaling of contact networks for epidemic spreading in urban transit systems. *Scientific Reports*, **2021**, 11, 4408 | 4.9 | 9 |
| 34 | Modeling Temporal Flow Assignment in Metro Networks Using Smart Card Data **2015**, | | 8 |
| 33 | Scalable low-rank tensor learning for spatiotemporal traffic data imputation. *Transportation Research Part C: Emerging Technologies*, **2021**, 129, 103226 | 8.4 | 8 |
| 32 | Spatio-Temporal Usage Patterns of Dockless Bike-Sharing Service Linking to a Metro Station: A Case Study in Shanghai, China. *Sustainability*, **2020**, 12, 851 | 3.6 | 7 |

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| 31 | Integrating probabilistic tensor factorization with Bayesian supervised learning for dynamic ridesharing pattern analysis. *Transportation Research Part C: Emerging Technologies*, **2021**, 124, 102916 | 8.4 | 7 |
| 30 | Pavement distress detection using convolutional neural network (CNN): A case study in Montreal, Canada. *International Journal of Transportation Science and Technology*, **2021**, | 3.3 | 6 |
| 29 | Scoot over: Determinants of shared electric scooter presence in Washington D.C. *Case Studies on Transport Policy*, **2021**, 9, 418-430 | 2.7 | 6 |
| 28 | A Probabilistic Tensor Factorization Approach to Detect Anomalies in Spatiotemporal Traffic Activities **2019**, | | 6 |
| 27 | Incorporating travel behavior regularity into passenger flow forecasting. *Transportation Research Part C: Emerging Technologies*, **2021**, 128, 103200 | 8.4 | 5 |
| 26 | Propagation Index on Airport Delays. *Transportation Research Record*, **2019**, 2673, 536-543 | 1.7 | 4 |
| 25 | Probabilistic model for destination inference and travel pattern mining from smart card data. *Transportation*, **2021**, 48, 2035-2053 | 4 | 4 |
| 24 | Left-Side On-Ramp Metering for Improving Safety and Efficiency in Underground Expressway Systems. *Sustainability*, **2019**, 11, 3247 | 3.6 | 3 |
| 23 | Characterizing Flight Delay Profiles with a Tensor Factorization Framework. *Engineering*, **2021**, 7, 465-472 | 3.7 | 3 |
| 22 | Modeling bike-sharing demand using a regression model with spatially varying coefficients. *Journal of Transport Geography*, **2021**, 93, 103059 | 5.2 | 3 |
| 21 | . *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-10 | 6.1 | 3 |
| 20 | Inertia effects of past behavior in commuting modal shift behavior: interactions, variations and implications for demand estimation. *Transportation*,1 | 4 | 3 |
| 19 | Real-Time Forecasting of Metro Origin-Destination Matrices with High-Order Weighted Dynamic Mode Decomposition. *Transportation Science*, | 4.4 | 3 |
| 18 | Understanding the Structure of Urban Bus Networks: TheC-Space Representation Approach **2015**, | | 2 |
| 17 | Estimation of Traffic Incident Delay and its Impact Analysis Based on cell transmission model **2011**, | | 2 |
| 16 | Winter Road Surface Conditions Classification using Convolutional Neural Network (CNN): Visible Light and Thermal Images Fusion. *Canadian Journal of Civil Engineering*, | 1.3 | 2 |
| 15 | Influence of in-vehicle crowding on passenger travel time value: Insights from bus transit in Shanghai, China. *International Journal of Transportation Science and Technology*, **2021**, | 3.3 | 2 |
| 14 | Bayesian Kernelized Matrix Factorization for Spatiotemporal Traffic Data Imputation and Kriging. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-13 | 6.1 | 2 |

# List of Publications

| 13 | Optimal Layout of Static Guidance Information in Comprehensive Transportation Hubs Based on Passenger Pathfinding Behavior. *Sustainability*, **2019**, 11, 3684 | 3.6 | 1 |
|----|----|----|----|
| 12 | Diagnosing Spatiotemporal Traffic Anomalies With Low-Rank Tensor Autoregression. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-10 | 6.1 | 1 |
| 11 | Identifying Station-Link Correlation for Target Passenger Flow Control in Subway Network **2018**, | | 1 |
| 10 | Deep Learning-Based Super-Resolution Climate Simulator-Emulator Framework for Urban Heat Studies. *Geophysical Research Letters*, **2021**, 48, e2021GL094737 | 4.9 | 1 |
| 9 | A Universal Framework of Spatiotemporal Bias Block for Long-Term Traffic Forecasting. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-12 | 6.1 | 1 |
| 8 | Anticipatory traveller information system for freeway-arterial networks. *IET Intelligent Transport Systems*, **2014**, 8, 286-297 | 2.4 | 0 |
| 7 | The twenty-first century of structural engineering research: A topic modeling approach. *Structures*, **2022**, 35, 577-590 | 3.4 | 0 |
| 6 | Applying Data Mining Approaches for Analyzing Hazardous Materials Transportation Accidents on Different Types of Roads. *Sustainability*, **2021**, 13, 12773 | 3.6 | 0 |
| 5 | Quantifying out-of-station waiting time in oversaturated urban metro systems. *Communications in Transportation Research*, **2022**, 2, 100052 | | 0 |
| 4 | Speed choice behaviour-based methodology for evaluating the effects of pavement roughness on travel time cost and discomfort cost. *International Journal of Pavement Engineering*, **2020**, 1-13 | 2.6 | |
| 3 | Perpetual Pavements Design Criterions **2007**, 106 | | |
| 2 | Routine Pattern Discovery and Anomaly Detection in Individual Travel Behavior. *Networks and Spatial Economics*,1 | 1.9 | |
| 1 | Real-time dispatching of operating buses during unplanned disruptions to urban rail transit system. *Transportation Research Part C: Emerging Technologies*, **2022**, 139, 103696 | 8.4 | |