Zuo-Jun Max Shen

List of Publications by Year
in descending order

167 papers	9,073 citations

57681

46 h-index	

56606

87 g-index	

170 all docs	170 docs citations

170 times ranked	5767 citing authors

#	ARTICLE	IF	CITATIONS
1	JD.com: Transaction-Level Data for the 2020 MSOM Data Driven Research Challenge. Manufacturing and Service Operations Management, 2024, 26, 2-10.	2.3	12
2	Strengthening supply chain resilience during <scp>COVID</scp>â€19: A case study of <scp>JD</scp>.com. Journal of Operations Management, 2023, 69, 359-383.	3.3	117
3	Mind the gap between research and practice in operations management. IISE Transactions, 2023, 55, 32-42.	1.6	4
4	Distributionally Robust Conditional Quantile Prediction with Fixed Design. Management Science, 2022, 68, 1639-1658.	2.4	5
5	Coordinating Installation of Electric Vehicle Charging Stations between Governments and Automakers. Production and Operations Management, 2022, 31, 681-696.	2.1	33
6	Dynamic Inventory Relocation in Disaster Relief. Production and Operations Management, 2022, 31, 1052-1070.	2.1	2
7	Urban Bike Lane Planning with Bike Trajectories: Models, Algorithms, and a Real-World Case Study. Manufacturing and Service Operations Management, 2022, 24, 2500-2515.	2.3	7
8	Dataâ€Driven Newsvendor Problems Regularized by a Profit Risk Constraint. Production and Operations Management, 2022, 31, 1630-1644.	2.1	15
9	Digital twin-driven smart supply chain. Frontiers of Engineering Management, 2022, 9, 56-70.	3.3	35
10	Real-Time Delivery Time Forecasting and Promising in Online Retailing: When Will Your Package Arrive?. Manufacturing and Service Operations Management, 2022, 24, 1421-1436.	2.3	14
11	Offline-Channel Planning in Smart Omnichannel Retailing. Manufacturing and Service Operations Management, 2022, 24, 2444-2462.	2.3	14
12	Smart urban transport and logistics: A business analytics perspective. Production and Operations Management, 2022, 31, 3771-3787.	2.1	11
13	The value of trade credit under risk controls. International Journal of Production Research, 2021, 59, 2498-2521.	4.9	13
14	On-Time Last-Mile Delivery: Order Assignment with Travel-Time Predictors. Management Science, 2021, 67, 4095-4119.	2.4	94
15	When Tripleâ€A Supply Chains Meet Digitalization: The Case of JD.com's C2M Model. Production and Operations Management, 2021, 30, 656-665.	2.1	60
16	A Review of Robust Operations Management under Model Uncertainty. Production and Operations Management, 2021, 30, 1927-1943.	2.1	28
17	The Migratory Beekeeping Routing Problem: Model and an Exact Algorithm. INFORMS Journal on Computing, 2021, 33, 319-335.	1.0	1
18	Data-driven framework for large-scale prediction of charging energy in electric vehicles. Applied Energy, 2021, 282, 116175.	5.1	28

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19	Quantifying the impact of ecosystem services for landscape management under wildfire hazard. Natural Hazards, 2021, 106, 531-560.	1.6	3
20	A column-and-constraint generation algorithm for two-stage stochastic programming problems. Top, 2021, 29, 781-798.	1.1	4
21	Robustifying humanitarian relief systems against travel time uncertainty. Naval Research Logistics, 2021, 68, 871-885.	1.4	18
22	Data Center Network Design for Internet–Related Services and Cloud Computing. Production and Operations Management, 2021, 30, 2077-2101.	2.1	4
23	Assessment of battery utilization and energy consumption in the large-scale development of urban electric vehicles. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	22
24	Hybrid of fixed and mobile charging systems for electric vehicles: System design and analysis. Transportation Research Part C: Emerging Technologies, 2021, 126, 103068.	3.9	12
25	Beyond Repositioning: Crowd–Sourcing and Geo–Fencing for Shared–Mobility Systems. Production and Operations Management, 2021, 30, 3448-3466.	2.1	11
26	3-D Dynamic UAV Base Station Location Problem. INFORMS Journal on Computing, 2021, 33, 839-860.	1.0	4
27	Rhythmic Control of Automated Traffic—Part II: Grid Network Rhythm and Online Routing. Transportation Science, 2021, 55, 988-1009.	2.6	20
28	Mechanism Design for Stochastic Dynamic Parking Resource Allocation. Production and Operations Management, 2021, 30, 3615-3634.	2.1	4
29	Analyzing the Effects of Road Type and Rainy Weather on Fuel Consumption and Emissions: A Mesoscopic Model Based on Big Traffic Data. IEEE Access, 2021, 9, 62298-62315.	2.6	9
30	A flow picking system for order fulfillment in e-commerce warehouses. IISE Transactions, 2021, 53, 541-551.	1.6	8
31	Coordinating Project Outsourcing Through Bilateral Contract Negotiations. Manufacturing and Service Operations Management, 2021, 23, 1543-1561.	2.3	5
32	Product Sourcing and Distribution Strategies under Supply Disruption and Recall Risks. Production and Operations Management, 2020, 29, 9-23.	2.1	38
33	OM Forum—Challenges and Strategies in Managing Nonprofit Operations: An Operations Management Perspective. Manufacturing and Service Operations Management, 2020, 22, 888-905.	2.3	53
34	A Balancing Act of Regulating On-Demand Ride Services. Management Science, 2020, 66, 2975-2992.	2.4	117
35	Smart City Operations: Modeling Challenges and Opportunities. Manufacturing and Service Operations Management, 2020, 22, 203-213.	2.3	54
36	Concavity and Unimodality of Expected Revenue Under Discrete Willingness to Pay Distributions. Production and Operations Management, 2020, 29, 788-796.	2.1	4

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37	Data‐driven research in retail operations—A review. Naval Research Logistics, 2020, 67, 595-616.	1.4	26
38	Transactional and in‐store display data of a large supermarket for data‐driven decision‐making. Naval Research Logistics, 2020, 67, 617-626.	1.4	0
39	Pricing during Disruptions: Order Variability versus Profit. Decision Sciences, 2020, , .	3.2	9
40	Transient-State Natural Gas Transmission in Gunbarrel Pipeline Networks. INFORMS Journal on Computing, 2020, 32, 697-713.	1.0	4
41	Role of resource flexibility and responsive pricing in mitigating the uncertainties in production systems. European Journal of Operational Research, 2020, 284, 498-513.	3.5	9
42	Dispatch of autonomous vehicles for taxi services: A deep reinforcement learning approach. Transportation Research Part C: Emerging Technologies, 2020, 115, 102626.	3.9	59
43	Reliable Hub Location Model for Air Transportation Networks Under Random Disruptions. Manufacturing and Service Operations Management, 2020, , .	2.3	4
44	A Smart‐City Scope of Operations Management. Production and Operations Management, 2019, 28, 393-406.	2.1	74
45	Demand-side energy management under time-varying prices. IISE Transactions, 2019, 51, 422-436.	1.6	6
46	Optimization models for electric vehicle service operations: A literature review. Transportation Research Part B: Methodological, 2019, 128, 462-477.	2.8	145
47	EEG-Based Motor Imagery Classification with Deep Multi-Task Learning. , 2019, , .		15
48	Optimizing natural gas pipeline transmission with nonuniform elevation: A new initialization approach. Naval Research Logistics, 2019, 66, 547-564.	1.4	1
49	Charging Network Planning for Electric Bus Cities: A Case Study of Shenzhen, China. Sustainability, 2019, 11, 4713.	1.6	41
50	Maintenance Location Routing for Rolling Stock Under Line and Fleet Planning Uncertainty. Transportation Science, 2019, 53, 1252-1270.	2.6	18
51	Sequential Choice Bandits: Learning with Marketing Fatigue. SSRN Electronic Journal, 2019, , .	0.4	5
52	Multistage large-scale charging station planning for electric buses considering transportation network and power grid. Transportation Research Part C: Emerging Technologies, 2019, 107, 423-443.	3.9	133
53	Designing locations and capacities for charging stations to support intercity travel of electric vehicles: An expanded network approach. Transportation Research Part C: Emerging Technologies, 2019, 102, 210-232.	3.9	50
54	Operations Research Enables Better Planning of Natural Gas Pipelines. Interfaces, 2019, 49, 23-39.	1.6	11

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55	Behaviors and Performance Improvement in a Vendor–Managed Inventory Program: An Experimental Study. Production and Operations Management, 2019, 28, 1818-1836.	2.1	14
56	Reliable Flexibility Design of Supply Chains Via Extended Probabilistic Expanders. Production and Operations Management, 2019, 28, 700-720.	2.1	10
57	On the Formation of Producers' Information–Sharing Coalitions. Production and Operations Management, 2018, 27, 917-927.	2.1	21
58	The hot-versus-cold effect in a punishment game: a multi-round experimental study. Annals of Operations Research, 2018, 268, 333-355.	2.6	2
59	Robust Shortest Path Problem With Distributional Uncertainty. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1080-1090.	4.7	39
60	Robust Defibrillator Deployment Under Cardiac Arrest Location Uncertainty via Row-and-Column Generation. Operations Research, 2018, 66, 358-379.	1.2	47
61	Process flexibility in homogeneous production–inventory systems with a single-period demand. IISE Transactions, 2018, 50, 463-483.	1.6	5
62	Exact Algorithms for Distributionally β-Robust Machine Scheduling with Uncertain Processing Times. INFORMS Journal on Computing, 2018, 30, 662-676.	1.0	26
63	Inverse Optimization with Noisy Data. Operations Research, 2018, 66, 870-892.	1.2	82
64	A reinforcement learning framework for the adaptive routing problem in stochastic time-dependent network. Transportation Research Part C: Emerging Technologies, 2018, 93, 179-197.	3.9	38
65	Data-Driven Order Assignment for Last Mile Delivery. SSRN Electronic Journal, 2018, , .	0.4	8
66	A Smart-City Scope of Operations Management. SSRN Electronic Journal, 2018, , .	0.4	1
67	Improving Consumer Welfare and Manufacturer Profit via Government Subsidy Programs: Subsidizing Consumers or Manufacturers?. Manufacturing and Service Operations Management, 2018, 20, 752-766.	2.3	136
68	Shared Mobility for Last-Mile Delivery: Design, Operational Prescriptions, and Environmental Impact. Manufacturing and Service Operations Management, 2018, 20, 737-751.	2.3	131
69	Optimal dynamic pricing of mobile data plans in wireless communications. Omega, 2017, 66, 91-105.	3.6	12
70	Agility and Proximity Considerations in Supply Chain Design. Management Science, 2017, 63, 1026-1041.	2.4	54
71	Improving the electrification rate of the vehicle miles traveled in Beijing: A data-driven approach. Transportation Research, Part A: Policy and Practice, 2017, 97, 106-120.	2.0	28
72	Service Region Design for Urban Electric Vehicle Sharing Systems. Manufacturing and Service Operations Management, 2017, 19, 309-327.	2.3	196

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73	Lagrangian relaxation for the reliable shortest path problem with correlated link travel times. Transportation Research Part B: Methodological, 2017, 104, 501-521.	2.8	47
74	Process flexibility design in heterogeneous and unbalanced networks: A stochastic programming approach. IISE Transactions, 2017, 49, 781-799.	1.6	14
75	Measuring fine-grained metro interchange time via smartphones. Transportation Research Part C: Emerging Technologies, 2017, 81, 153-171.	3.9	12
76	Bullwhip and reverse bullwhip effects under the rationing game. Naval Research Logistics, 2017, 64, 203-216.	1.4	23
77	Sharing demand-side energy resources - A conceptual design. Energy, 2017, 135, 455-465.	4.5	37
78	Planning for electric taxi charging system from the perspective of transport energy supply chain: A data-driven approach in Beijing. , 2017, , .		4
79	Risk-averse joint capacity evaluation of PV generation and electric vehicle charging stations in distribution networks. , 2017, , .		2
80	Data-driven planning of plug-in hybrid electric taxi charging stations in urban environments: A case in the central area of Beijing. , 2017, , .		6
81	Local water storage control for the developing world. , 2017, , .		2
82	Product Geographical Distribution under Recall Risk. SSRN Electronic Journal, 2017, , .	0.4	2
83	Service Region Design for Urban Electric Vehicle Sharing Systems. SSRN Electronic Journal, 2016, , .	0.4	6
84	On efficiency of multistage channel with bargaining over wholesale prices. Naval Research Logistics, 2016, 63, 449-459.	1.4	13
85	Parametric search for the bi-attribute concave shortest path problem. Transportation Research Part B: Methodological, 2016, 94, 150-168.	2.8	15
86	Distributionally Robust Optimization of Two‐Stage Lot‐Sizing Problems. Production and Operations Management, 2016, 25, 2116-2131.	2.1	34
87	Integrated Modeling for Location Analysis. Foundations and Trends in Technology, Information and Operations Management, 2016, 9, 1-152.	0.4	6
88	The electric vehicle touring problem. Transportation Research Part B: Methodological, 2016, 86, 163-180.	2.8	56
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90	Optimal pricing and scheduling control of product shipping. Naval Research Logistics, 2015, 62, 215-227.	1.4	5

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91	Risk Mitigation Benefit from Backup Suppliers in the Presence of the Horizontal Fairness Concern. Decision Sciences, 2015, 46, 663-696.	3.2	26
92	Reliable Facility Location Design Under Uncertain Correlated Disruptions. Manufacturing and Service Operations Management, 2015, 17, 445-455.	2.3	107
93	Joint Planning of Energy Storage and Transmission for Wind Energy Generation. Operations Research, 2015, 63, 1280-1293.	1.2	51
94	Modeling taxi services with smartphone-based e-hailing applications. Transportation Research Part C: Emerging Technologies, 2015, 58, 93-106.	3.9	131
95	The impact of demand uncertainty on product line design under endogenous substitution. Naval Research Logistics, 2015, 62, 143-157.	1.4	17
96	Air cargo operations: Literature review and comparison with practices. Transportation Research Part C: Emerging Technologies, 2015, 56, 263-280.	3.9	104
97	Technical note - operational statistics: Properties and the risk-averse case. Naval Research Logistics, 2015, 62, 206-214.	1.4	9
98	Incentive for Peer‑to‑Peer Knowledge Sharing among Farmers in Developing Economies. Production and Operations Management, 2015, 24, 1430-1440.	2.1	50
99	A Capacitated Facility Location Model with Bidirectional Flows. Transportation Science, 2015, 49, 114-129.	2.6	25
100	Centralization versus decentralization: Risk pooling, risk diversification, and supply chain disruptions. Omega, 2015, 52, 201-212.	3.6	152
101	An automated planning engine for biopharmaceutical production. European Journal of Operational Research, 2014, 238, 327-338.	3.5	12
102	Hierarchical Coordinated Control of Plug-in Electric Vehicles Charging in Multifamily Dwellings. IEEE Transactions on Smart Grid, 2014, 5, 1465-1474.	6.2	126
103	Pooling and Dependence of Demand and Yield in Multiple-Location Inventory Systems. Manufacturing and Service Operations Management, 2014, 16, 263-269.	2.3	34
104	Training, Production, and Channel Separation in ITC's E‑Choupal Network. Production and Operations Management, 2013, 22, 348-364.	2.1	67
105	Stochastic Control for Smart Grid Users With Flexible Demand. IEEE Transactions on Smart Grid, 2013, 4, 2296-2308.	6.2	42
106	Infrastructure Planning for Electric Vehicles with Battery Swapping. Management Science, 2013, 59, 1557-1575.	2.4	390
107	A simulation-based approach to inventory management in batch process with flexible recipes. , 2013, , .		0
108	An Efficient Approach for Solving Reliable Facility Location Models. INFORMS Journal on Computing, 2013, 25, 720-729.	1.0	48

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109	Process Flexibility Design in Unbalanced Networks. Manufacturing and Service Operations Management, 2013, 15, 24-32.	2.3	47
110	How Inventory Cost Influences Introduction Timing of Product Line Extensions. Production and Operations Management, 2013, 22, 1214-1231.	2.1	7
111	Customer Influence Value and Purchase Acceleration in New Product Diffusion. Marketing Science, 2012, 31, 236-256.	2.7	33
112	An analysis of a supply chain with options contracts and service requirements. IIE Transactions, 2012, 44, 805-819.	2.1	92
113	Risk diversification and risk pooling in supply chain design. IIE Transactions, 2012, 44, 603-621.	2.1	53
114	A Conic Integer Programming Approach to Stochastic Joint Location-Inventory Problems. Operations Research, 2012, 60, 366-381.	1.2	111
115	Agility and Proximity Considerations in Supply Chain Design - An Analytical Approach. SSRN Electronic Journal, 2012, , .	0.4	4
116	Centralization versus Decentralization: Risk Pooling, Risk Diversification, and Supply Chain Disruptions. SSRN Electronic Journal, 2012, , .	0.4	7
117	Inventory Policy with Parametric Demand: Operational Statistics, Linear Correction, and Regression. Production and Operations Management, 2012, 21, 291-308.	2.1	25
118	The Reliable Facility Location Problem: Formulations, Heuristics, and Approximation Algorithms. INFORMS Journal on Computing, 2011, 23, 470-482.	1.0	170
119	Product substitution and dual sourcing under random supply failures. Transportation Research Part B: Methodological, 2011, 45, 1251-1265.	2.8	49
120	Exact algorithms for integrated facility location and production planning problems. Naval Research Logistics, 2011, 58, 419-436.	1.4	21
121	Fix-and-optimize heuristics for capacitated lot-sizing with sequence-dependent setups and substitutions. European Journal of Operational Research, 2011, 214, 595-605.	3.5	51
122	Worst-case analysis of demand point aggregation for the Euclidean p-median problem. European Journal of Operational Research, 2010, 202, 434-443.	3.5	8
123	Integrating facility location and production planning decisions. Networks, 2010, 55, 78-89.	1.6	24
124	Inventory systems with stochastic demand and supply: Properties and approximations. European Journal of Operational Research, 2010, 206, 313-328.	3.5	127
125	Dynamic Assortment Optimization with a Multinomial Logit Choice Model and Capacity Constraint. Operations Research, 2010, 58, 1666-1680.	1.2	351
126	A Power-of-Two Ordering Policy for One-Warehouse Multiretailer Systems with Stochastic Demand. Operations Research, 2010, 58, 492-502.	1.2	31

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127	Reliable Facility Location Design Under the Risk of Disruptions. Operations Research, 2010, 58, 998-1011.	1.2	363
128	The Effect of Supply Disruptions on Supply Chain Design Decisions. Transportation Science, 2010, 44, 274-289.	2.6	141
129	Pricing during Disruptions: A Cause of the Reverse Bullwhip Effect. SSRN Electronic Journal, 2009, , .	0.4	9
130	Approximation algorithms for general oneâ€warehouse multiâ€retailer systems. Naval Research Logistics, 2009, 56, 642-658.	1.4	18
131	A twoâ€echelon inventoryâ€location problem with service considerations. Naval Research Logistics, 2009, 56, 730-744.	1.4	34
132	Stochastic programming approach to process flexibility design. Flexible Services and Manufacturing Journal, 2009, 21, 75-91.	1.9	32
133	A PTAS for capacitated sum-of-ratios optimization. Operations Research Letters, 2009, 37, 230-238.	0.5	40
134	A Continuousâ€Review Inventory Model with Disruptions at Both Supplier and Retailer. Production and Operations Management, 2009, 18, 516-532.	2.1	77
135	The impact of ordering behavior on order-quantity variability: a study of forward and reverse bullwhip effects. Flexible Services and Manufacturing Journal, 2008, 20, 95-124.	1.9	42
136	Solving operational statistics via a Bayesian analysis. Operations Research Letters, 2008, 36, 110-116.	0.5	75
137	Truthful Double Auction Mechanisms. Operations Research, 2008, 56, 102-120.	1.2	54
138	Probabilistic asymptotic analysis of stochastic online scheduling problems. IIE Transactions, 2007, 39, 525-538.	2.1	13
139	A supply chain design model with unreliable supply. Naval Research Logistics, 2007, 54, 829-844.	1.4	76
140	Incorporating inventory and routing costs in strategic location models. European Journal of Operational Research, 2007, 179, 372-389.	3.5	247
141	Trade reduction vs. multi-stage: A comparison of double auction design approaches. European Journal of Operational Research, 2007, 180, 677-691.	3.5	14
142	Planning and approximation models for delivery route based services with price-sensitive demands. European Journal of Operational Research, 2007, 183, 460-471.	3.5	16
143	Ranked Items Auctions and Online Advertisement. Production and Operations Management, 2007, 16, 510-522.	2.1	23
144	Customer Behavior Modeling in Revenue Management and Auctions: A Review and New Research Opportunities. Production and Operations Management, 2007, 16, 713-728.	2.1	274

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146	Agent Competition Double-Auction Mechanism. Management Science, 2006, 52, 1215-1222.	2.4	52
147	Inventory placement in acyclic supply chain networks. Operations Research Letters, 2006, 34, 228-238.	0.5	73
148	A profit-maximizing supply chain network design model with demand choice flexibility. Operations Research Letters, 2006, 34, 673-682.	0.5	82
149	The Î±-reliable mean-excess regret model for stochastic facility location modeling. Naval Research Logistics, 2006, 53, 617-626.	1.4	75
150	An economic lot-sizing problem with perishable inventory and economies of scale costs: Approximation solutions and worst case analysis. Naval Research Logistics, 2005, 52, 536-548.	1.4	41
151	Stochastic Transportation-Inventory Network Design Problem. Operations Research, 2005, 53, 48-60.	1.2	238
152	Trade-offs Between Customer Service and Cost in Integrated Supply Chain Design. Manufacturing and Service Operations Management, 2005, 7, 188-207.	2.3	133
153	A multi-commodity supply chain design problem. IIE Transactions, 2005, 37, 753-762.	2.1	112
154	A Joint Location-Inventory Model. Transportation Science, 2003, 37, 40-55.	2.6	551
155	Effective Zero-Inventory-Ordering Policies for the Single-Warehouse Multiretailer Problem with Piecewise Linear Cost Structures. Management Science, 2002, 48, 1446-1460.	2.4	123
156	An Inventory-Location Model: Formulation, Solution Algorithm and Computational Results. Annals of Operations Research, 2002, 110, 83-106.	2.6	460
157	Bullwhip and Reverse Bullwhip Effects under the Rationing Game. SSRN Electronic Journal, 0, , .	0.4	9
158	Smart City Operations: Modelling Challenges and Opportunities. SSRN Electronic Journal, 0, , .	0.4	0
159	Data-Driven Incentive Design in the Medicare Shared Savings Program. Operations Research, 0, , .	1.2	7
160	Data Center Network Design for Internet-Related Services and Cloud Computing. SSRN Electronic Journal, 0, , .	0.4	2
161	Constrained Assortment Optimization Problem under the Multilevel Nested Logit Model. Production and Operations Management, 0, , .	2.1	3
162	Urban Bike Lane Planning with Bike Trajectories: Models, Algorithms, and a Real-World Case Study. SSRN Electronic Journal, 0, , .	0.4	0

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163	Offline-Channel Planning in Smart Omnichannel Retailing. SSRN Electronic Journal, 0, , .	0.4	0
164	Procurement of New Products: Data-Driven Newsvendor with Profit Risk. SSRN Electronic Journal, 0, , .	0.4	2
165	Data-Driven Research in Supply Chain Operations - A Review. SSRN Electronic Journal, 0, , .	0.4	1
166	A Practical End-to-End Inventory Management Model with Deep Learning. SSRN Electronic Journal, 0, , .	0.4	6
167	Learning Operational Decisions with Intertemporal Dependence and Moderate Non-stationarities. SSRN Electronic Journal, 0, , .	0.4	0