RenÃ© Bm De Koster

List of Publications by Year
in descending order

154 papers	9,957 citations	36303 51 h-index	40979 93 g-index
157 all docs	157 docs citations	157 times ranked	3499 citing authors

#	Article	IF	Citations
1	Design and control of warehouse order picking: A literature review. European Journal of Operational Research, 2007, 182, 481-501.	5.7	1,323
2	Transshipment of containers at a container terminal: An overview. European Journal of Operational Research, 2003, 147, 1-16.	5.7	593
3	Warehousing in the e-commerce era: A survey. European Journal of Operational Research, 2019, 277, 396-411.	5.7	348
4	A review of design and control of automated guided vehicle systems. European Journal of Operational Research, 2006, 171, 1-23.	5.7	343
5	Robotized and Automated Warehouse Systems: Review and Recent Developments. Transportation Science, 2019, 53, 917-945.	4.4	274
6	Routing methods for warehouses with multiple cross aisles. International Journal of Production Research, 2001, 39, 1865-1883.	7.5	265
7	Planning and control of autonomous mobile robots for intralogistics: Literature review and research agenda. European Journal of Operational Research, 2021, 294, 405-426.	5.7	235
8	Routing order pickers in a warehouse with a middle aisle. European Journal of Operational Research, 2001, 133, 32-43.	5.7	234
9	Designing efficient order picking systems by combining planning problems: State-of-the-art classification and review. European Journal of Operational Research, 2018, 267, 1-15.	5.7	205
10	Efficient orderbatching methods in warehouses. International Journal of Production Research, 1999, 37, 1479-1504.	7.5	203
11	Estimating performance in a Robotic Mobile Fulfillment System. European Journal of Operational Research, 2017, 256, 976-990.	5.7	164
12	Routing orderpickers in a warehouse: a comparison between optimal and heuristic solutions. IIE Transactions, 1998, 30, 469-480.	2.1	159
13	Accidents happen: The influence of safety€specific transformational leadership, safety consciousness, and hazard reducing systems on warehouse accidents. Journal of Operations Management, 2011, 29, 753-765.	5.2	154
14	Delivering Goods in Urban Areas: How to Deal with Urban Policy Restrictions and the Environment. Transportation Science, 2009, 43, 211-227.	4.4	147
15	The impact of order batching and picking area zoning on order picking system performance. European Journal of Operational Research, 2009, 198, 480-490.	5.7	129
16	Sea container terminals: New technologies and OR models. Maritime Economics and Logistics, 2016, 18, 103-140.	4.0	128
17	Travel time estimation and order batching in a 2-block warehouse. European Journal of Operational Research, 2007, 176, 374-388.	5.7	119
18	The distribution-free newsboy problem with resalable returns. International Journal of Production Economics, 2005, 97, 329-342.	8.9	113

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19	Exploring retailers' sensitivity to local sustainability policies. Journal of Operations Management, 2007, 25, 1103-1122.	5.2	113
20	Optimal storage rack design for a 3-dimensional compact AS/RS. International Journal of Production Research, 2008, 46, 1495-1514.	7.5	105
21	Travel distance estimation and storage zone optimization in a 2-block class-based storage strategy warehouse. International Journal of Production Research, 2005, 43, 3561-3581.	7.5	104
22	A fast simulated annealing method for batching precedence-constrained customer orders in a warehouse. European Journal of Operational Research, 2014, 236, 968-977.	5.7	98
23	Robot-storage zone assignment strategies in mobile fulfillment systems. Transportation Research, Part E: Logistics and Transportation Review, 2019, 122, 119-142.	7.4	95
24	Determination of the number of automated guided vehicles required at a semi-automated container terminal. Journal of the Operational Research Society, 2001, 52, 409-417.	3.4	92
25	Scheduling Twin Yard Cranes in a Container Block. Transportation Science, 2015, 49, 686-705.	4.4	91
26	Evaluating battery charging and swapping strategies in a robotic mobile fulfillment system. European Journal of Operational Research, 2018, 267, 733-753.	5.7	90
27	Evaluating order throughput time in 2-block warehouses with time window batching. International Journal of Production Economics, 2009, 121, 654-664.	8.9	87
28	Modeling parallel movement of lifts and vehicles in tier-captive vehicle-based warehousing systems. European Journal of Operational Research, 2016, 254, 51-67.	5.7	85
29	Minimum Vehicle Fleet Size Under Time-Window Constraints at a Container Terminal. Transportation Science, 2005, 39, 249-260.	4.4	81
30	Modeling, Analysis, and Design Insights for Shuttle-Based Compact Storage Systems. Transportation Science, 2017, 51, 269-295.	4.4	81
31	Linking warehouse complexity to warehouse planning and control structure. International Journal of Physical Distribution and Logistics Management, 2002, 32, 381-395.	7.4	80
32	Designing an optimal turnover-based storage rack for a 3D compact automated storage and retrieval system. International Journal of Production Research, 2009, 47, 1551-1571.	7.5	76
33	A polling-based dynamic order picking system for online retailers. IIE Transactions, 2008, 40, 1070-1082.	2.1	75
34	Optimal zone boundaries for two-class-based compact three-dimensional automated storage and retrieval systems. IIE Transactions, 2009, 41, 194-208.	2.1	75
35	Determining the number of zones in a pick-and-sort order picking system. International Journal of Production Research, 2012, 50, 757-771.	7.5	75
36	An exact method for scheduling a yard crane. European Journal of Operational Research, 2014, 235, 431-447.	5.7	70

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37	Exploring the role of picker personality in predicting picking performance with pick by voice, pick to light and RF-terminal picking. International Journal of Production Research, 2016, 54, 2260-2274.	7.5	70
38	Distribution structures for food home shopping. International Journal of Physical Distribution and Logistics Management, 2002, 32, 362-380.	7.4	66
39	Inventory allocation in robotic mobile fulfillment systems. IISE Transactions, 2020, 52, 1-17.	2.4	66
40	Distribution strategies for online retailers. IEEE Transactions on Engineering Management, 2003, 50, 448-457.	3.5	64
41	Improving Order-Picking Response Time at Ankor's Warehouse. Interfaces, 2004, 34, 303-313.	1.5	64
42	Organizing warehouse management. International Journal of Operations and Production Management, 2013, 33, 1230-1256.	5.9	64
43	Performance approximation of pick-to-belt orderpicking systems. European Journal of Operational Research, 1994, 72, 558-573.	5.7	63
44	A review on stochastic models and analysis of warehouse operations. Logistics Research, 2011, 3, 191-205.	1.6	63
45	Utilizing individual picker skills to improve order batching in a warehouse. European Journal of Operational Research, 2017, 263, 888-899.	5.7	62
46	Worth the wait? How restaurant waiting time influences customer behavior and revenue. Journal of Operations Management, 2018, 63, 59-78.	5.2	62
47	Testing and classifying vehicle dispatching rules in three real-world settings. Journal of Operations Management, 2004, 22, 369-386.	5.2	61
48	Warehouse design and management. International Journal of Production Research, 2017, 55, 6327-6330.	7.5	60
49	Classâ€Based Storage with a Finite Number of Items: Using More Classes is not Always Better. Production and Operations Management, 2015, 24, 1235-1247.	3.8	59
50	Managing warehouse efficiency and worker discomfort through enhanced storage assignment decisions. International Journal of Production Research, 2017, 55, 6407-6422.	7.5	57
51	Estimation of line efficiency by aggregation. International Journal of Production Research, 1987, 25, 615-625.	7.5	56
52	Return handling: an exploratory study with nine retailer warehouses. International Journal of Retail and Distribution Management, 2002, 30, 407-421.	4.7	56
53	Small is Beautiful: A Framework for Evaluating and Optimizing Live-Cube Compact Storage Systems. Transportation Science, 2017, 51, 34-51.	4.4	56
54	Stochastic modeling of unloading and loading operations at a container terminal using automated lifting vehicles. European Journal of Operational Research, 2018, 266, 895-910.	5.7	56

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55	Storing Fresh Produce for Fast Retrieval in an Automated Compact Cross‐Dock System. Production and Operations Management, 2015, 24, 1266-1284.	3.8	53
56	A decision-tree stacking heuristic minimising the expected number of reshuffles at a container terminal. International Journal of Production Research, 2014, 52, 2592-2611.	7.5	52
57	A non-linear traffic flow-based queuing model to estimate container terminal throughput with AGVs. International Journal of Production Research, 2016, 54, 472-493.	7.5	52
58	Sequencing heuristics for storing and retrieving unit loads in 3D compact automated warehousing systems. IIE Transactions, 2012, 44, 69-87.	2.1	51
59	Decision rules for robotic mobile fulfillment systems. Operations Research Perspectives, 2019, 6, 100128.	2.1	51
60	The forgotten sons: Warehousing systems for brick-and-mortar retail chains. European Journal of Operational Research, 2021, 288, 361-381.	5.7	51
61	State of the Practice: A Review of the Application of OR/MS in Freight Transportation. Interfaces, 2014, 44, 535-554.	1.5	50
62	Integrated storage-order picking systems: Technology, performance models, and design insights. European Journal of Operational Research, 2019, 274, 947-965.	5.7	49
63	On-line dispatching rules for vehicle-based internal transport systems. International Journal of Production Research, 2005, 43, 1711-1728.	7.5	48
64	Forecasting demand for single-period products: A case study in the apparel industry. European Journal of Operational Research, 2011, 211, 139-147.	5.7	45
65	Container terminal layout design: transition and future. Maritime Economics and Logistics, 2020, 22, 610-639.	4.0	45
66	Benchmarking and Monitoring International Warehouse Operations in Europe. Production and Operations Management, 2008, 17, 175-183.	3.8	43
67	A Flexible Evaluative Framework for Order Picking Systems. Production and Operations Management, 2010, 19, 70-82.	3.8	42
68	Impact of required storage space on storage policy performance in a unit-load warehouse. International Journal of Production Research, 2016, 54, 2405-2418.	7.5	40
69	Designing efficient order picking systems: The effect of real-life features on the relationship among planning problems. Transportation Research, Part E: Logistics and Transportation Review, 2019, 125, 47-73.	7.4	40
70	Shared Capacity Routing Problem â' An omni-channel retail study. European Journal of Operational Research, 2019, 273, 731-739.	5.7	40
71	On using DEA for benchmarking container terminals. International Journal of Operations and Production Management, 2009, 29, 1140-1155.	5.9	39
72	Solving semi-open queuing networks with time-varying arrivals: An application in container terminal landside operations. European Journal of Operational Research, 2018, 267, 855-876.	5.7	39

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73	Aligning Order Picking Methods, Incentive Systems, and Regulatory Focus to Increase Performance. Production and Operations Management, 2016, 25, 1363-1376.	3.8	37
74	Scheduling Trucks in a Cross-Dock with Mixed Service Mode Dock Doors. Transportation Science, 2017, 51, 112-131.	4.4	37
75	Modelling load retrievals in puzzle-based storage systems. International Journal of Production Research, 2017, 55, 6423-6435.	7.5	37
76	Performance approximation and design of pick-and-pass order picking systems. IIE Transactions, 2008, 40, 1054-1069.	2.1	35
77	Polynomial Time Algorithms to Minimize Total Travel Time in a Two-Depot Automated Storage/Retrieval System. Transportation Science, 2017, 51, 19-33.	4.4	35
78	Integrated scheduling and assignment of trucks at unit-load cross-dock terminals with mixed service mode dock doors. European Journal of Operational Research, 2019, 278, 752-771.	5.7	35
79	Storage policies and optimal shape of a storage system. International Journal of Production Research, 2013, 51, 6891-6899.	7.5	34
80	Determinants of safe and productive truck driving: Empirical evidence from long-haul cargo transport. Transportation Research, Part E: Logistics and Transportation Review, 2017, 97, 113-131.	7.4	34
81	Modeling and Design of Container Terminal Operations. Operations Research, 2020, 68, 686-715.	1.9	34
82	American, Asian and thirdâ€party international warehouse operations in Europe. International Journal of Operations and Production Management, 2005, 25, 762-780.	5.9	32
83	Factory gate pricing: An analysis of the Dutch retail distribution. European Journal of Operational Research, 2006, 174, 1950-1967.	5.7	32
84	Operating Policies in Robotic Compact Storage and Retrieval Systems. Transportation Science, 2018, 52, 788-811.	4.4	32
85	Design, Modeling, and Analysis of Vertical Robotic Storage and Retrieval Systems. Transportation Science, 2019, 53, 1213-1234.	4.4	32
86	The impact of integrated cluster-based storage allocation on parts-to-picker warehouse performance. Transportation Research, Part E: Logistics and Transportation Review, 2021, 146, 102207.	7.4	32
87	Optimal two-class-based storage in a live-cube compact storage system. IISE Transactions, 2017, 49, 653-668.	2.4	30
88	Reduction of Walking Time in the Distribution Center of De Bijenkorf. Lecture Notes in Economics and Mathematical Systems, 1999, , 215-234.	0.3	30
89	Collaborative solutions for inter terminal transport. International Journal of Production Research, 2017, 55, 6527-6546.	7.5	29
90	Nonâ€dominated Timeâ€Window Policies in City Distribution. Production and Operations Management, 2013, 22, 739-751.	3.8	28

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91	Safety Does Not Happen by Accident: Antecedents To A Safer Warehouse. Production and Operations Management, 2016, 25, 1377-1390.	3.8	27
92	Automated and Robotic Warehouses: Developments and Research Opportunities. , 2018, 38, 33.		27
93	Response time analysis of a live-cube compact storage system with two storage classes. IISE Transactions, 2017, 49, 461-480.	2.4	26
94	Enhancing performance in order picking processes by dynamic storage systems. International Journal of Production Research, 2010, 48, 4785-4806.	7.5	25
95	Determining time windows in urban freight transport: A city cooperative approach. Transportation Research, Part E: Logistics and Transportation Review, 2018, 118, 34-50.	7.4	25
96	Optimal stack layout in a sea container terminal with automated lifting vehicles. International Journal of Production Research, 2017, 55, 3747-3765.	7.5	24
97	Business transformation in an age of turbulence â€" Lessons learned from COVID-19. Technological Forecasting and Social Change, 2022, 176, 121452.	11.6	23
98	Minimizing makespan and throughput times at Aalsmeer flower auction. Journal of the Operational Research Society, 2008, 59, 1182-1190.	3.4	22
99	Capacity Analysis of Sequential Zone Picking Systems. Operations Research, 2020, 68, 161-179.	1.9	21
100	Optimal design and planning for compact automated parking systems. European Journal of Operational Research, 2019, 273, 948-967.	5.7	20
101	In pursuit of humanised order picking planning: methodological review, literature classification and input from practice. International Journal of Production Research, 2023, 61, 3300-3330.	7.5	20
102	Travel time models for split-platform automated storage and retrieval systems. International Journal of Production Economics, 2018, 197, 197-214.	8.9	19
103	Survival of the fittest: the impact of fit between warehouse management structure and warehouse context on warehouse performance. International Journal of Production Research, 2018, 56, 120-139.	7.5	19
104	Robotic Sorting Systems: Performance Estimation and Operating Policies Analysis. Transportation Science, 2021, 55, 1430-1455.	4.4	19
105	On the suboptimality of full turnover-based storage. International Journal of Production Research, 2013, 51, 1635-1647.	7.5	18
106	Service investment for online retailers with social mediaâ€"Does it pay off?. Transportation Research, Part E: Logistics and Transportation Review, 2018, 118, 606-628.	7.4	18
107	Performance evaluation of dynamic scheduling approaches in vehicle-based internal transport systems. International Journal of Production Research, 2010, 48, 7219-7242.	7.5	17
108	A stochastic model for the throughput analysis of passing dual yard cranes. Computers and Operations Research, 2017, 87, 40-51.	4.0	17

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109	Sequencing storage and retrieval requests in a container block with multiple open locations. Transportation Research, Part E: Logistics and Transportation Review, 2019, 125, 261-284.	7.4	17
110	Stochastic modeling of parallel process flows in intra-logistics systems: Applications in container terminals and compact storage systems. European Journal of Operational Research, 2021, 290, 159-176.	5.7	17
111	A cooperative quay crane-based stochastic model to estimate vessel handling time. Flexible Services and Manufacturing Journal, 2017, 29, 97-124.	3.4	15
112	An improved algorithm to approximate the behaviour of flow linesâ€. International Journal of Production Research, 1988, 26, 691-700.	7.5	14
113	Risk sensitivity, independence of irrelevant alternatives and continuity of bargaining solutions. Mathematical Social Sciences, 1983, 4, 295-300.	0.5	13
114	Increasing the Revenue of Selfâ€Storage Warehouses by Facility Design. Production and Operations Management, 2013, 22, 555-570.	3.8	13
115	Local and integral control of workload. International Journal of Production Research, 1989, 27, 43-52.	7.5	12
116	A novel approach for designing rental vehicle repositioning strategies. IIE Transactions, 2014, 46, 948-967.	2.1	12
117	Designing self-storage warehouses with customer choice. International Journal of Production Research, 2016, 54, 3080-3104.	7.5	12
118	Workforce Scheduling with Order-Picking Assignments in Distribution Facilities. Transportation Science, 2021, 55, 725-746.	4.4	10
119	E-business models for reverse logistics: contributions and challenges. , 0, , .		9
120	Increasing the revenue of self-storage warehouses by optimizing order scheduling. European Journal of Operational Research, 2016, 252, 69-78.	5.7	9
121	Vertical Expansion: A Solution for Future Container Terminals. Transportation Science, 2019, 53, 1235-1251.	4.4	9
122	Forward-reserve storage strategies with order picking: When do they pay off?. IISE Transactions, 2020, 52, 961-976.	2.4	9
123	Fast and Faultless? Quantity and Quality Feedback in Order Picking. Production and Operations Management, 2022, 31, 1536-1559.	3.8	9
124	Optimizing product allocation in a polling-based milkrun picking system. IISE Transactions, 2019, 51, 486-500.	2.4	8
125	Editorial: Online-to-offline ecommerce operations management (EOM). Transportation Research, Part E: Logistics and Transportation Review, 2020, 138, 101920.	7.4	8
126	When to apply optimal or heuristic routing of orderpickers. Lecture Notes in Economics and Mathematical Systems, 1998, , 375-401.	0.3	8

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127	Quantifying the impact of sharing resources in a collaborative warehouse. European Journal of Operational Research, 2022, 302, 518-529.	5.7	8
128	Approximate analysis of production systems. European Journal of Operational Research, 1988, 37, 214-226.	5.7	7
129	Approximation of Flow Lines with Integrally Controlled Buffers. IIE Transactions, 1988, 20, 374-381.	2.1	7
130	Performance evaluation of automated medicine delivery systems. Transportation Research, Part E: Logistics and Transportation Review, 2021, 147, 102242.	7.4	7
131	An evaluation of cross-efficiency methods: With an application to warehouse performance. Applied Mathematics and Computation, 2021, 406, 126261.	2.2	7
132	Modeling landside container terminal queues: Exact analysis and approximations. Transportation Research Part B: Methodological, 2022, 162, 73-102.	5.9	7
133	Capacity analysis of two-stage production lines with many products. Engineering Costs and Production Economics, 1987, 12, 175-186.	0.2	6
134	Conveyor Merges in Zone Picking Systems: A Tractable and Accurate Approximate Model. Transportation Science, 2018, 52, 1428-1443.	4.4	6
135	Routing orderpickers in a warehouse: a comparison between optimal and heuristic solutions. IIE Transactions, 1999, 30, 469-480.	2.1	5
136	Supply-Chain Culture Clashes in Europe. Pitfalls in Japanese Service Operations. Supply Chain Forum, 2006, 7, 60-68.	4.2	5
137	Analysis and Design of Rack-Climbing Robotic Storage and Retrieval Systems. Transportation Science, 2022, 56, 1658-1676.	4.4	5
138	How to charge in servicizing: Per period or per use?. European Journal of Operational Research, 2023, 304, 981-996.	5.7	5
139	On The Equivalence Of Multi-Stage Production Lines And Two-Stage Lines. IIE Transactions, 1987, 19, 351-354.	2.1	4
140	The analysis of batch sojourn-times in polling systems. Queueing Systems, 2017, 85, 313-335.	0.9	4
141	Performance evaluation of compact automated parking systems with mobile application and customer service priority. International Journal of Production Research, 2021, 59, 2926-2959.	7.5	4
142	Travel Distance Estimation in Single-block ABC- Storage Strategy Warehouses. Lecture Notes in Economics and Mathematical Systems, 2005, , 185-200.	0.3	4
143	On the reversibility of manufacturing networks. Journal of Mathematical Analysis and Applications, 1990, 145, 309-327.	1.0	3
144	Maritime and container logistics. Flexible Services and Manufacturing Journal, 2017, 29, 1-3.	3.4	3

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145	Dense and fast: Achieving shortest unimpeded retrieval with a minimum number of empty cells in puzzle-based storage systems. IISE Transactions, 2023, 55, 156-171.	2.4	3
146	Special Issue of <i>Transportation Science</i> on Facility Logistics. Transportation Science, 2017, 51, 1-2.	4.4	2
147	Performance estimation of a passing-crane automated storage and retrieval system. International Journal of Production Research, 2020, , 1-21.	7.5	2
148	Dynamic Vehicle Allocation Policies for Shared Autonomous Electric Fleets. Transportation Science, 2022, 56, 1238-1258.	4.4	2
149	Making the Right Pick: Aligning Order Picking Methods, Incentive Systems and Regulatory Focus to Increase Picking Performance. IFAC-PapersOnLine, 2015, 48, 585.	0.9	1
150	Approximate Optimal Order Batch Sizes in a Parallel aisle Warehouse. Lecture Notes in Economics and Mathematical Systems, 2009, , 175-194.	0.3	1
151	Optimal Stack Layout Configurations at Automated Container Terminals Using Queuing Network Models. Operations Research/ Computer Science Interfaces Series, 2020, , 437-461.	0.3	1
152	Call for Papersâ€"Focused Issue of <i>Transportation Science</i> on Facility Logistics. Transportation Science, 2013, 47, 129-129.	4.4	0
153	Serving the world: papers from the 19th EurOMA/4th P&OM World Conference in Amsterdam. International Journal of Operations and Production Management, 2015, 35, .	5.9	0
154	Special Issue of <i>Production and Operations Management Journal</i> â€œManaging Autonomous and IoTâ€driven Intralogistics Operationsâ€• Production and Operations Management, 2020, 29, 2877-2878.	3.8	0