

Christoph H Glock

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145 papers	4,407 citations	39 h-index	59 g-index
154 ext. papers	5,293 ext. citations	5.6 avg, IF	6.76 L-index

#	Paper	IF	Citations
145	Supply chain coordination with emissions reduction incentives. <i>International Journal of Production Research</i> , 2013 , 51, 69-82	7.8	261
144	The joint economic lot size problem: A review. <i>International Journal of Production Economics</i> , 2012 , 135, 671-686	9.3	236
143	Incorporating human factors in order picking planning models: framework and research opportunities. <i>International Journal of Production Research</i> , 2015 , 53, 695-717	7.8	204
142	Lead time reduction strategies in a single-vendor-single-buyer integrated inventory model with lot size-dependent lead times and stochastic demand. <i>International Journal of Production Economics</i> , 2012 , 136, 37-44	9.3	130
141	The lot sizing problem: A tertiary study. <i>International Journal of Production Economics</i> , 2014 , 155, 39-51	9.3	123
140	Human factors in order picking: a content analysis of the literature. <i>International Journal of Production Research</i> , 2017 , 55, 1260-1276	7.8	122
139	Systematic literature review of decision support models for energy-efficient production planning. <i>Computers and Industrial Engineering</i> , 2016 , 101, 243-259	6.4	107
138	Industry 4.0 and the human factor – A systems framework and analysis methodology for successful development. <i>International Journal of Production Economics</i> , 2021 , 233, 107992	9.3	104
137	A closed-loop supply chain for deteriorating products under stochastic container return times. <i>Omega</i> , 2014 , 43, 30-40	7.2	82
136	The effect of worker learning and forgetting on storage reassignment decisions in order picking systems. <i>Computers and Industrial Engineering</i> , 2013 , 66, 653-662	6.4	75
135	Human factors in production and logistics systems of the future. <i>Annual Reviews in Control</i> , 2020 , 49, 295-305	10.3	71
134	The effect of worker learning on manual order picking processes. <i>International Journal of Production Economics</i> , 2015 , 170, 882-890	9.3	69
133	Energy management for stationary electric energy storage systems: A systematic literature review. <i>European Journal of Operational Research</i> , 2018 , 264, 582-606	5.6	68
132	Sustainability strategies in an EPQ model with price- and quality-sensitive demand. <i>International Journal of Logistics Management</i> , 2012 , 23, 340-359	4.5	65
131	Methods for mitigating disruptions in complex supply chain structures: a systematic literature review. <i>International Journal of Production Research</i> , 2020 , 58, 1835-1856	7.8	61
130	Purchasing Organization and Design: A Literature Review. <i>Business Research</i> , 2011 , 4, 149-191	3.8	59
129	Order picker routing in warehouses: A systematic literature review. <i>International Journal of Production Economics</i> , 2020 , 224, 107564	9.3	59

128	Batch sizing with controllable production rates. <i>International Journal of Production Research</i> , 2010 , 48, 5925-5942	7.8	58
127	On the use of RFID in the management of reusable containers in closed-loop supply chains under stochastic container return quantities. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014 , 64, 12-27	9	57
126	Applications of learning curves in production and operations management: A systematic literature review. <i>Computers and Industrial Engineering</i> , 2019 , 131, 422-441	6.4	56
125	Decision support models for managing returnable transport items in supply chains: A systematic literature review. <i>International Journal of Production Economics</i> , 2017 , 183, 561-569	9.3	54
124	Analysis of economic and ergonomic performance measures of different rack layouts in an order picking warehouse. <i>Computers and Industrial Engineering</i> , 2017 , 111, 527-536	6.4	54
123	A multi-stage production-inventory model with learning and forgetting effects, rework and scrap. <i>Computers and Industrial Engineering</i> , 2013 , 64, 708-720	6.4	54
122	An experimental investigation of learning effects in order picking systems. <i>Journal of Manufacturing Technology Management</i> , 2013 , 24, 850-872	7.1	54
121	Storage policies and order picking strategies in U-shaped order-picking systems with a movable base. <i>International Journal of Production Research</i> , 2012 , 50, 4344-4357	7.8	54
120	Production economics and the learning curve: A meta-analysis. <i>International Journal of Production Economics</i> , 2015 , 170, 401-412	9.3	52
119	Human energy expenditure in order picking storage assignment: A bi-objective method. <i>Computers and Industrial Engineering</i> , 2016 , 94, 147-157	6.4	52
118	A multiple-vendor single-buyer integrated inventory model with a variable number of vendors. <i>Computers and Industrial Engineering</i> , 2011 , 60, 173-182	6.4	51
117	Decision support models for production ramp-up: a systematic literature review. <i>International Journal of Production Research</i> , 2015 , 53, 6637-6651	7.8	49
116	Batch sizing with controllable production rates in a multi-stage production system. <i>International Journal of Production Research</i> , 2011 , 49, 6017-6039	7.8	49
115	A single-vendor single-manufacturer integrated inventory model with stochastic demand and variable production rate. <i>International Journal of Production Economics</i> , 2017 , 191, 335-350	9.3	45
114	The effect of forward integration on a single-vendor multi-retailer supply chain under retailer competition. <i>International Journal of Production Economics</i> , 2015 , 164, 179-192	9.3	45
113	Systematic literature reviews in purchasing and supply management research: a tertiary study. <i>International Journal of Integrated Supply Management</i> , 2012 , 7, 215	3.8	45
112	A two-level delay in payments contract for supply chain coordination: The case of credit-dependent demand. <i>International Journal of Production Economics</i> , 2017 , 191, 26-36	9.3	44
111	Energy implications in a two-stage production system with controllable production rates. <i>International Journal of Production Economics</i> , 2014 , 149, 164-171	9.3	44

110	A joint economic lot size model with financial collaboration and uncertain investment opportunity. <i>International Journal of Production Economics</i> , 2016 , 176, 170-182	9.3	44
109	Decision support models for supplier development: Systematic literature review and research agenda. <i>International Journal of Production Economics</i> , 2017 , 193, 798-812	9.3	41
108	Incorporating human factors into decision support models for production and logistics: current state of research. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6900-6905	0.7	39
107	Production planning for a ramp-up process with learning in production and growth in demand. <i>International Journal of Production Research</i> , 2012 , 50, 5707-5718	7.8	39
106	Machine scheduling problems in production: A tertiary study. <i>Computers and Industrial Engineering</i> , 2017 , 111, 403-416	6.4	36
105	The effects of human behavior on the efficiency of routing policies in order picking: The case of route deviations. <i>Computers and Industrial Engineering</i> , 2017 , 111, 537-551	6.4	34
104	Multi-objective supplier selection and order allocation under quantity discounts with fuzzy goals and fuzzy constraints. <i>International Journal of Applied Decision Sciences</i> , 2014 , 7, 66	0.8	33
103	An integrated model to improve ergonomic and economic performance in order picking by rotating pallets. <i>European Journal of Operational Research</i> , 2019 , 273, 516-534	5.6	32
102	A learning curve for tasks with cognitive and motor elements. <i>Computers and Industrial Engineering</i> , 2013 , 64, 866-871	6.4	32
101	Reducing lead time risk through multiple sourcing: the case of stochastic demand and variable lead time. <i>International Journal of Production Research</i> , 2013 , 51, 43-56	7.8	32
100	A comment: Integrated single vendor-single buyer model with stochastic demand and variable lead time. <i>International Journal of Production Economics</i> , 2009 , 122, 790-792	9.3	30
99	An integrated storage assignment method for manual order picking warehouses considering cost, workload and posture. <i>International Journal of Production Research</i> , 2019 , 57, 2392-2408	7.8	30
98	Integrated product and container inventory model for a single-vendor single-buyer supply chain with owned and rented returnable transport items. <i>International Journal of Production Research</i> , 2016 , 54, 1964-1979	7.8	29
97	An investigation of the effects of storage assignment and picker routing on the occurrence of picker blocking in manual picker-to-parts warehouses. <i>International Journal of Logistics Management</i> , 2017 , 28, 841-863	4.5	29
96	A closed-loop supply chain with stochastic product returns and worker experience under learning and forgetting. <i>International Journal of Production Research</i> , 2017 , 55, 6760-6778	7.8	29
95	Picker routing and storage-assignment strategies for precedence-constrained order picking. <i>Computers and Industrial Engineering</i> , 2018 , 123, 338-347	6.4	28
94	Optimizing inventory and sales decisions in a two-stage supply chain with imperfect production and backorders. <i>Computers and Industrial Engineering</i> , 2014 , 74, 219-227	6.4	27
93	Maverick picking: the impact of modifications in work schedules on manual order picking processes. <i>International Journal of Production Research</i> , 2017 , 55, 6344-6360	7.8	27

92	Coordinating a supply chain with a heterogeneous vehicle fleet under greenhouse gas emissions. <i>International Journal of Logistics Management</i> , 2015 , 26, 494-516	4.5	27
91	Pricing and inventory decisions in a dual-channel supply chain with learning and forgetting. <i>Computers and Industrial Engineering</i> , 2019 , 136, 397-420	6.4	26
90	Single sourcing versus dual sourcing under conditions of learning. <i>Computers and Industrial Engineering</i> , 2012 , 62, 318-328	6.4	26
89	Literature reviews in supply chain management: a tertiary study. <i>Management Review Quarterly</i> , 2015 , 65, 239-280	2.6	25
88	On the use of waste heat in a two-stage production system with controllable production rates. <i>International Journal of Production Economics</i> , 2016 , 181, 174-190	9.3	25
87	Coordination of a production network with a single buyer and multiple vendors. <i>International Journal of Production Economics</i> , 2012 , 135, 771-780	9.3	25
86	An EOQ model with fuzzy demand and learning in fuzziness. <i>International Journal of Services and Operations Management</i> , 2012 , 12, 90	0.4	25
85	Optimal production and distribution policies for a two-stage supply chain with imperfect items and price- and advertisement-sensitive demand: A note. <i>Applied Mathematical Modelling</i> , 2018 , 57, 625-632	4.5	24
84	Ergo-lot-sizing: An approach to integrate ergonomic and economic objectives in manual materials handling. <i>International Journal of Production Economics</i> , 2017 , 185, 230-239	9.3	23
83	Learning effects and the phenomenon of moving bottlenecks in a two-stage production system. <i>Applied Mathematical Modelling</i> , 2013 , 37, 8617-8628	4.5	23
82	Production planning for a two-stage production system with multiple parallel machines and variable production rates. <i>International Journal of Production Economics</i> , 2018 , 196, 284-292	9.3	23
81	Container management in a single-vendor-multiple-buyer supply chain. <i>Logistics Research</i> , 2014 , 7, 1		22
80	A comparison of alternative delivery structures in a dual sourcing environment. <i>International Journal of Production Research</i> , 2012 , 50, 3095-3114	7.8	22
79	Operating a storage-augmented hybrid microgrid considering battery aging costs. <i>Journal of Cleaner Production</i> , 2018 , 188, 638-654	10.3	21
78	Safety measures in the joint economic lot size model with returnable transport items. <i>International Journal of Production Economics</i> , 2016 , 181, 24-33	9.3	21
77	An integrated cost and worker fatigue evaluation model of a packaging process. <i>International Journal of Production Economics</i> , 2019 , 207, 107-124	9.3	21
76	Using qualitative interviewing to examine human factors in warehouse order picking: technical note. <i>International Journal of Logistics Systems and Management</i> , 2016 , 23, 499	0.7	20
75	Machine scheduling in production: A content analysis. <i>Applied Mathematical Modelling</i> , 2017 , 50, 279-299	4.5	19

74	Using inventory models for sizing energy storage systems: An interdisciplinary approach. <i>Journal of Energy Storage</i> , 2016 , 8, 339-348	7.8	19
73	Optimal Sizing of Electrical Energy Storage Systems using Inventory Models. <i>Energy Procedia</i> , 2015 , 73, 48-58	2.3	17
72	A mathematical programming model for a multi-objective supplier selection and order allocation problem with fuzzy objectives. <i>International Journal of Services and Operations Management</i> , 2015 , 21, 435	0.4	17
71	Optimal manufacturing lot size for a single-stage production system with rework in a fuzzy environment. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 27, 3067-3080	1.6	17
70	Shipment consolidation in a multiple-vendor-single-buyer integrated inventory model. <i>Computers and Industrial Engineering</i> , 2014 , 70, 31-42	6.4	16
69	Human Factors in Order Picking System Design: A Content Analysis. <i>IFAC-PapersOnLine</i> , 2015 , 48, 320-325	7	16
68	New simple constructive heuristic algorithms for minimizing total flow-time in the permutation flowshop scheduling problem. <i>Computers and Operations Research</i> , 2016 , 74, 165-174	4.6	16
67	Flow shop scheduling with grid-integrated onsite wind power using stochastic MILP. <i>International Journal of Production Research</i> , 2018 , 56, 2076-2098	7.8	16
66	A joint economic lot size model with returnable transport items. <i>International Journal of Integrated Supply Management</i> , 2015 , 9, 202	3.8	15
65	Assistive devices for manual materials handling in warehouses: a systematic literature review. <i>International Journal of Production Research</i> , 2021 , 59, 3446-3469	7.8	15
64	Smart lighting systems: state-of-the-art and potential applications in warehouse order picking. <i>International Journal of Production Research</i> , 2021 , 59, 3817-3839	7.8	15
63	Optimal order picker routing in a conventional warehouse with two blocks and arbitrary starting and ending points of a tour. <i>International Journal of Production Research</i> , 2020 , 58, 5337-5358	7.8	13
62	A multi-stage joint economic lot size model with lead time penalty costs. <i>Computers and Industrial Engineering</i> , 2013 , 66, 133-146	6.4	13
61	Reprint of Decision support models for supplier development: Systematic literature review and research agenda. <i>International Journal of Production Economics</i> , 2017 , 194, 246-260	9.3	13
60	Size and structure in the purchasing function: Evidence from German municipalities. <i>Journal of Public Procurement</i> , 2013 , 13, 1-38	1.4	13
59	Channel coordination and variance reduction in a newsvendor setting. <i>International Journal of Services and Operations Management</i> , 2012 , 12, 269	0.4	13
58	Enriching demand forecasts with managerial information to improve inventory replenishment decisions: Exploiting judgment and fostering learning. <i>European Journal of Operational Research</i> , 2017 , 261, 182-194	5.6	12
57	Training suppliers by delegating workers: A decision support model. <i>Computers and Industrial Engineering</i> , 2016 , 93, 302-309	6.4	12

56	The influence of financial conditions on optimal ordering and payment policies under progressive interest schemes. <i>Omega</i> , 2017 , 70, 15-30	7.2	12
55	A group learning curve model with and without worker turnover. <i>Journal of Modelling in Management</i> , 2014 , 9, 179-199	2.2	12
54	The impact of controllable production rates on the performance of inventory systems: A systematic review of the literature. <i>European Journal of Operational Research</i> , 2021 , 288, 703-720	5.6	12
53	Ergonomic and economic optimization of layout and item assignment of a U-shaped order picking zone. <i>Computers and Industrial Engineering</i> , 2019 , 138, 106094	6.4	11
52	Self-induced learning vs. project-based supplier development for production ramp-up with two supply options. <i>International Journal of Production Economics</i> , 2018 , 198, 60-69	9.3	10
51	Governing the dynamics of multi-stage production systems subject to learning and forgetting effects: A simulation study. <i>International Journal of Production Research</i> , 2018 , 56, 3439-3461	7.8	10
50	The Organization of Purchasing at German Universities: An Empirical Investigation. <i>International Journal of Public Administration</i> , 2011 , 34, 662-673	1.7	10
49	Prerequisites of efficient decentralized waste heat recovery and energy storage in production planning. <i>Journal of Business Economics</i> , 2017 , 87, 41-72	2.3	9
48	Coordination of a production network with a single buyer and multiple vendors with geometrically increasing batch shipments. <i>International Journal of Production Economics</i> , 2017 , 193, 633-646	9.3	9
47	Ergo-Lot-Sizing: Considering Ergonomics in Lot-Sizing Decisions. <i>IFAC-PapersOnLine</i> , 2015 , 48, 326-331	0.7	9
46	A note on: Optimal ordering policy for stock-dependent demand under progressive payment scheme. <i>European Journal of Operational Research</i> , 2014 , 232, 423-426	5.6	9
45	Optimal order picker routing in the chevron warehouse. <i>IIE Transactions</i> , 2020 , 52, 665-687	3.3	9
44	Models for an ergonomic evaluation of order picking from different rack layouts. <i>IFAC-PapersOnLine</i> , 2016 , 49, 1715-1720	0.7	9
43	A coordination mechanism for supply chains with capacity expansions and order-dependent lead times. <i>European Journal of Operational Research</i> , 2020 , 285, 247-262	5.6	8
42	Hybrid order picking: A simulation model of a joint manual and autonomous order picking system. <i>Computers and Industrial Engineering</i> , 2022 , 167, 107981	6.4	8
41	Determining the source of human-system errors in manual order picking with respect to human factors. <i>International Journal of Production Research</i> , 1-23	7.8	8
40	Loading tow trains ergonomically for just-in-time part supply. <i>European Journal of Operational Research</i> , 2020 , 284, 325-344	5.6	8
39	Modeling (and Learning from) Inventory Inaccuracies in E-retailing/B2B contexts. <i>Decision Sciences</i> , 2019 , 50, 1184-1223	3.7	7

38	Scheduling personnel for the build-up of unit load devices at an air cargo terminal with limited space. <i>OR Spectrum</i> , 2020 , 42, 397-426	1.9	7
37	An economic production quantity (EPQ) model for a customer-dominated supply chain with defective items, reworking and scrap. <i>International Journal of Services and Operations Management</i> , 2013 , 14, 236	0.4	7
36	The machine breakdown paradox: How random shifts in the production rate may increase company profits. <i>Computers and Industrial Engineering</i> , 2013 , 66, 1171-1176	6.4	7
35	A new iterative method for solving the joint dynamic storage location assignment, order batching and picker routing problem in manual picker-to-parts warehouses. <i>Computers and Industrial Engineering</i> , 2020 , 147, 106645	6.4	7
34	The effect of worker fatigue on the performance of a bucket brigade order picking system. <i>IFAC-PapersOnLine</i> , 2019 , 52, 2195-2200	0.7	7
33	Accuracy evaluation of two markerless motion capture systems for measurement of upper extremities: Kinect V2 and Captiv. <i>Human Factors and Ergonomics in Manufacturing</i> , 2020 , 30, 291-302	1.4	6
32	Scheduling a storage-augmented discrete production facility under incentive-based demand response. <i>International Journal of Production Research</i> , 2019 , 57, 250-270	7.8	6
31	Ordering policy for stock-dependent demand rate under progressive payment scheme: a comment. <i>International Journal of Systems Science</i> , 2015 , 46, 872-877	2.3	6
30	A method for efficiently routing order pickers in the leaf warehouse. <i>International Journal of Production Economics</i> , 2021 , 234, 108069	9.3	6
29	Integration of energy aspects into the economic lot scheduling problem. <i>International Journal of Production Economics</i> , 2019 , 209, 399-410	9.3	6
28	Scheduling electric vehicles making milk-runs for just-in-time delivery. <i>IIE Transactions</i> , 2018 , 50, 1013-1025	10.5	6
27	Celebrating the 10th volume of IJISM: a bibliographic review and outlook. <i>International Journal of Integrated Supply Management</i> , 2017 , 11, 332	3.8	5
26	The impact of batch shipments on the Economic Lot Scheduling Problem. <i>Computers and Industrial Engineering</i> , 2016 , 96, 126-139	6.4	5
25	The economic lot scheduling problem: a content analysis. <i>International Journal of Production Research</i> , 2020 , 58, 3437-3454	7.8	5
24	Strategy alignment in purchasing and supply management: a systematic literature review and research framework on the performance impact. <i>International Journal of Integrated Supply Management</i> , 2017 , 11, 44	3.8	4
23	. <i>IEEE Engineering Management Review</i> , 2019 , 47, 101-107	3.6	4
22	Energy Implications in the Single-Vendor Single-Buyer Integrated Production Inventory Model. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 57-64	0.5	4
21	Inventory Forecasting: Mind the gap. <i>European Journal of Operational Research</i> , 2021 , 299, 397-397	5.6	4

20	Production planning for a ramp-up process in a multi-stage production system with worker learning and growth in demand. <i>International Journal of Production Research</i> , 2020 , 1-20	7.8	3
19	Using smart lighting systems to reduce energy costs in warehouses: A simulation study. <i>International Journal of Logistics Research and Applications</i> , 1-19	3.8	3
18	Lagerplatzvergabe in U-förmigen Kommissionierlagern. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2011 , 106, 65-68	0.5	2
17	Lerneffekte in der Kommissionierung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2012 , 107, 266-269	0.5	2
16	Menschliche Faktoren in der Kommissionierung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2013 , 108, 203-207	0.5	2
15	Routing automated lane-guided transport vehicles in a warehouse handling returns. <i>European Journal of Operational Research</i> , 2021 , 292, 1085-1098	5.6	2
14	Agent-based analysis of picker blocking in manual order picking systems: Effects of routing combinations on throughput time 2015 ,		1
13	Batch sizing with controllable production rates. <i>International Journal of Production Research</i> , 2011 , 49, 2455-2455	7.8	1
12	New solution procedures for the order picker routing problem in U-shaped pick areas with a movable depot. <i>OR Spectrum</i> , 1	1.9	1
11	Estimating the participation value of electricity demand-response programmes for a two-stage production system. <i>International Journal of Production Research</i> , 1-21	7.8	0
10	The average-cost formulation of lot sizing models and inventory carrying charges: a technical note. <i>Operations Management Research</i> , 2021 , 14, 194	3.6	0
9	A Learning Curve with Improvement in Process Quality. <i>IFAC-PapersOnLine</i> , 2018 , 51, 681-685	0.7	0
8	Improving processes and ergonomics at air freight handling agents: a case study. <i>International Journal of Logistics Research and Applications</i> , 1-22	3.8	0
7	Systematic review of Kinect-based solutions for physical risk assessment in manual materials handling in industrial and laboratory environments. <i>Computers and Industrial Engineering</i> , 2021 , 162, 107660	6.4	0
6	Reprint of Ergo-lot-sizing: An approach to integrate ergonomic and economic objectives in manual materials handling <i>International Journal of Production Economics</i> , 2017 , 194, 32-42	9.3	
5	Decomposing bills of materials using the Gozinto-list-method. <i>International Journal of Information and Operations Management Education</i> , 2015 , 6, 93	0	
4	Ökonomisch und ergonomisch optimierte Gestaltung von U-förmigen Kommissionierlagern. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2020 , 115, 590-594	0.5	
3	Planung von effizienten Kommissionierprozessen mit Excel-Spreadsheets. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014 , 109, 499-503	0.5	

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| 2 | Losgrößenplanung in einem Presswerk mithilfe gemischt-ganzzahliger Programmierung. <i>ZWF Zeitschrift Für Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 186-190 | 0.5 |
| 1 | Mensch-Roboter-Kollaboration in der Kommissionierung. <i>ZWF Zeitschrift Für Wirtschaftlichen Fabrikbetrieb</i> , 2021 , 116, 372-376 | 0.5 |