

Ana Paula Barbosa-Povoa

List of Publications by Year in descending order

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Version: 2024-02-01

304
papers

8,082
citations

44069

48
h-index

62596

80
g-index

313
all docs

313
docs citations

313
times ranked

5106
citing authors

#	ARTICLE	IF	CITATIONS
1	An optimization model for the design of a capacitated multi-product reverse logistics network with uncertainty. <i>European Journal of Operational Research</i> , 2007, 179, 1063-1077.	5.7	437
2	Towards supply chain sustainability: economic, environmental and social design and planning. <i>Journal of Cleaner Production</i> , 2015, 105, 14-27.	9.3	313
3	Opportunities and challenges in sustainable supply chain: An operations research perspective. <i>European Journal of Operational Research</i> , 2018, 268, 399-431.	5.7	262
4	Supply Chain Resilience: Definitions and quantitative modelling approaches – A literature review. <i>Computers and Industrial Engineering</i> , 2018, 115, 109-122.	6.3	231
5	Design and planning of supply chains with integration of reverse logistics activities under demand uncertainty. <i>European Journal of Operational Research</i> , 2013, 226, 436-451.	5.7	212
6	Simple Continuous-Time Formulation for Short-Term Scheduling of Batch and Continuous Processes. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 105-118.	3.7	168
7	Simultaneous design and planning of supply chains with reverse flows: A generic modelling framework. <i>European Journal of Operational Research</i> , 2010, 203, 336-349.	5.7	167
8	Research challenges in municipal solid waste logistics management. <i>Waste Management</i> , 2016, 48, 584-592.	7.4	167
9	Planning a sustainable reverse logistics system: Balancing costs with environmental and social concerns. <i>Omega</i> , 2014, 48, 60-74.	5.9	162
10	Resilience metrics in the assessment of complex supply-chains performance operating under demand uncertainty. <i>Omega</i> , 2015, 56, 53-73.	5.9	156
11	Multi-period design and planning of closed-loop supply chains with uncertain supply and demand. <i>Computers and Chemical Engineering</i> , 2014, 66, 151-164.	3.8	152
12	Quantitative indicators for social sustainability assessment of supply chains. <i>Journal of Cleaner Production</i> , 2018, 180, 748-768.	9.3	138
13	An Improved RTN Continuous-Time Formulation for the Short-term Scheduling of Multipurpose Batch Plants. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 2059-2068.	3.7	136
14	Process systems engineering – The generation next?. <i>Computers and Chemical Engineering</i> , 2021, 147, 107252.	3.8	128
15	Sustainable supply chains: An integrated modeling approach under uncertainty. <i>Omega</i> , 2018, 77, 32-57.	5.9	123
16	Microgrid reliability modeling and battery scheduling using stochastic linear programming. <i>Electric Power Systems Research</i> , 2013, 103, 61-69.	3.6	121
17	Pipeline Scheduling and Inventory Management of a Multiproduct Distribution Oil System. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7841-7855.	3.7	119
18	Bi-objective optimization approach to the design and planning of supply chains: Economic versus environmental performances. <i>Computers and Chemical Engineering</i> , 2011, 35, 1454-1468.	3.8	115

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19	Location allocation approaches for hospital network planning under uncertainty. <i>European Journal of Operational Research</i> , 2015, 240, 791-806.	5.7	107
20	Supplier selection in the processed food industry under uncertainty. <i>European Journal of Operational Research</i> , 2016, 252, 801-814.	5.7	102
21	Optimal investment and scheduling of distributed energy resources with uncertainty in electric vehicle driving schedules. <i>Energy</i> , 2014, 64, 17-30.	8.8	93
22	A warehouse-based design model for reverse logistics. <i>Journal of the Operational Research Society</i> , 2006, 57, 615-629.	3.4	87
23	Detailed design of multipurpose batch plants. <i>Computers and Chemical Engineering</i> , 1994, 18, 1013-1042.	3.8	84
24	A strategic and tactical model for closed-loop supply chains. <i>OR Spectrum</i> , 2009, 31, 573-599.	3.4	83
25	Modelling a recovery network for WEEE: A case study in Portugal. <i>Waste Management</i> , 2011, 31, 1645-1660.	7.4	83
26	Metrics for bullwhip effect analysis. <i>Journal of the Operational Research Society</i> , 2013, 64, 1-16.	3.4	81
27	Planning and scheduling of industrial supply chains with reverse flows: A real pharmaceutical case study. <i>Computers and Chemical Engineering</i> , 2008, 32, 2606-2625.	3.8	80
28	The smart waste collection routing problem: Alternative operational management approaches. <i>Expert Systems With Applications</i> , 2018, 103, 146-158.	7.6	79
29	Addressing the uncertain quality and quantity of returns in closed-loop supply chains. <i>Computers and Chemical Engineering</i> , 2012, 47, 237-247.	3.8	77
30	A critical review on the design and retrofit of batch plants. <i>Computers and Chemical Engineering</i> , 2007, 31, 833-855.	3.8	74
31	Optimal scheduling for flexible job shop operation. <i>International Journal of Production Research</i> , 2005, 43, 2323-2353.	7.5	73
32	Integrating harvesting decisions in the design of agro-food supply chains. <i>European Journal of Operational Research</i> , 2019, 276, 247-258.	5.7	73
33	Planning waste cooking oil collection systems. <i>Waste Management</i> , 2013, 33, 1691-1703.	7.4	70
34	Incorporating social aspects in sustainable supply chains: Trends and future directions. <i>Journal of Cleaner Production</i> , 2019, 237, 117500.	9.3	70
35	Supply chain optimization of residual forestry biomass for bioenergy production: The case study of Portugal. <i>Biomass and Bioenergy</i> , 2015, 83, 245-256.	5.7	69
36	Reactive Scheduling Framework for a Multiproduct Pipeline with Inventory Management. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 5659-5672.	3.7	64

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37	Strategic network design of downstream petroleum supply chains: Single versus multi-entity participation. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1557-1587.	5.6	60
38	The effect of Inventory Record Inaccuracy in Information Exchange Supply Chains. <i>European Journal of Operational Research</i> , 2015, 243, 120-129.	5.7	59
39	Downstream oil supply chain management: A critical review and future directions. <i>Computers and Chemical Engineering</i> , 2016, 92, 78-92.	3.8	59
40	Optimal Periodic Scheduling of Batch Plants Using RTN-Based Discrete and Continuous-Time Formulations: A Case Study Approach. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 3346-3360.	3.7	57
41	An Operational Scheduling Model to Product Distribution through a Pipeline Network. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5661-5682.	3.7	57
42	Organizing hospitals into networks: a hierarchical and multiservice model to define location, supply and referrals in planned hospital systems. <i>OR Spectrum</i> , 2012, 34, 319-348.	3.4	57
43	Effectiveness of extended producer responsibility policies implementation: The case of Portuguese and Spanish packaging waste systems. <i>Journal of Cleaner Production</i> , 2019, 210, 217-230.	9.3	56
44	On risk management of a two-stage stochastic mixed 0-1 model for the closed-loop supply chain design problem. <i>European Journal of Operational Research</i> , 2019, 274, 91-107.	5.7	56
45	The Wicked Character of Sustainable Supply Chain Management: Evidence from Sustainability Reports. <i>Business Strategy and the Environment</i> , 2016, 25, 449-477.	14.3	55
46	Stochastic programming approach for the optimal tactical planning of the downstream oil supply chain. <i>Computers and Chemical Engineering</i> , 2018, 108, 314-336.	3.8	55
47	Describing and organizing green practices in the context of Green Supply Chain Management: Case studies. <i>Resources, Conservation and Recycling</i> , 2019, 145, 1-10.	10.8	55
48	Social sustainability management in the apparel supply chains. <i>Journal of Cleaner Production</i> , 2021, 280, 124214.	9.3	54
49	Integrated scheduling and inventory management of an oil products distribution system. <i>Omega</i> , 2013, 41, 955-968.	5.9	52
50	Integrating financial risk measures into the design and planning of closed-loop supply chains. <i>Computers and Chemical Engineering</i> , 2016, 85, 105-123.	3.8	52
51	The effect of uncertainty on the optimal closed-loop supply chain planning under different partnerships structure. <i>Computers and Chemical Engineering</i> , 2009, 33, 2144-2158.	3.8	51
52	Simultaneous Design and Scheduling of Multipurpose Plants Using Resource Task Network Based Continuous-Time Formulations. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 343-357.	3.7	49
53	Heuristic batch sequencing on a multiproduct oil distribution system. <i>Computers and Chemical Engineering</i> , 2009, 33, 712-730.	3.8	49
54	Information sharing in supply chains with heterogeneous retailers. <i>Omega</i> , 2018, 79, 116-132.	5.9	49

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55	Reactive scheduling in a make-to-order flexible job shop with re-entrant process and assembly: a mathematical programming approach. <i>International Journal of Production Research</i> , 2013, 51, 5120-5141.	7.5	48
56	Modeling the demand for long-term care services under uncertain information. <i>Health Care Management Science</i> , 2012, 15, 385-412.	2.6	46
57	Assessment and optimization of sustainable forest wood supply chains – A systematic literature review. <i>Forest Policy and Economics</i> , 2019, 105, 112-135.	3.4	45
58	Life Cycle Assessment for the Design of Chemical Processes, Products, and Supply Chains. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 203-233.	6.8	44
59	Simulation-based decision support tool for in-house logistics: the basis for a digital twin. <i>Computers and Industrial Engineering</i> , 2021, 153, 107094.	6.3	43
60	Optimal two-dimensional layout of industrial facilities. <i>International Journal of Production Research</i> , 2001, 39, 2567-2593.	7.5	41
61	Building disaster preparedness and response capacity in humanitarian supply chains using the Social Vulnerability Index. <i>European Journal of Operational Research</i> , 2021, 292, 250-275.	5.7	41
62	Progresses and challenges in process industry supply chains optimization. <i>Current Opinion in Chemical Engineering</i> , 2012, 1, 446-452.	7.8	40
63	Optimal 3D layout of industrial facilities. <i>International Journal of Production Research</i> , 2002, 40, 1669-1698.	7.5	39
64	An integrated approach for planning a long-term care network with uncertainty, strategic policy and equity considerations. <i>European Journal of Operational Research</i> , 2015, 247, 321-334.	5.7	36
65	Economic and environmental concerns in planning recyclable waste collection systems. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 62, 34-54.	7.4	35
66	OVAP: A strategy to implement partial information sharing among supply chain retailers. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2018, 110, 122-136.	7.4	35
67	Green Supply Chain Management: Conceptual Framework and Models for Analysis. <i>Sustainability</i> , 2021, 13, 8127.	3.2	35
68	Integrating decisions of product and closed-loop supply chain design under uncertain return flows. <i>Computers and Chemical Engineering</i> , 2018, 112, 211-238.	3.8	34
69	Design and Planning of Sustainable Industrial Networks: Application to a Recovery Network of Residual Products. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 4230-4248.	3.7	33
70	Multi-depot vehicle routing problem: a comparative study of alternative formulations. <i>International Journal of Logistics Research and Applications</i> , 2020, 23, 103-120.	8.8	33
71	Process supply chains: Perspectives from academia and industry. <i>Computers and Chemical Engineering</i> , 2020, 132, 106606.	3.8	33
72	Sustainable Supply Chains: Key Challenges. <i>Computer Aided Chemical Engineering</i> , 2009, , 127-132.	0.5	32

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73	Title is missing!. Annals of Operations Research, 2003, 120, 201-230.	4.1	31
74	Optimal design and retrofit of batch plants with a periodic mode of operation. Computers and Chemical Engineering, 2005, 29, 1293-1303.	3.8	31
75	A multi-objective meta-heuristic approach for the design and planning of green supply chains - MBSA. Expert Systems With Applications, 2016, 47, 71-84.	7.6	31
76	Valuing data in aircraft maintenance through big data analytics: A probabilistic approach for capacity planning using Bayesian networks. Computers and Industrial Engineering, 2019, 128, 920-936.	6.3	31
77	Decision-support challenges in the chemical-pharmaceutical industry: Findings and future research directions. Computers and Chemical Engineering, 2020, 134, 106672.	3.8	30
78	Moving towards an equitable long-term care network: A multi-objective and multi-period planning approach. Omega, 2016, 58, 69-85.	5.9	29
79	Planning and Sequencing Product Distribution in a Real-World Pipeline Network: An MILP Decomposition Approach. Industrial & Engineering Chemistry Research, 2012, 51, 4591-4609.	3.7	28
80	Simultaneous regular and non-regular production scheduling of multipurpose batch plants: A real chemicalâ€œpharmaceutical case study. Computers and Chemical Engineering, 2014, 67, 83-102.	3.8	28
81	An IT-enabled supply chain model: a simulation study. International Journal of Systems Science, 2014, 45, 2327-2341.	5.5	27
82	Dynamic modelling and scheduling of an industrial batch system. Computers and Chemical Engineering, 2002, 26, 671-686.	3.8	26
83	Design of Multipurpose Batch Plants: A Comparative Analysis between the STN, m-STN, and RTN Representations and Formulations. Industrial & Engineering Chemistry Research, 2008, 47, 6025-6044.	3.7	26
84	Production and maintenance planning optimisation in biopharmaceutical processes under performance decay using a continuous-time formulation: A multi-objective approach. Computers and Chemical Engineering, 2017, 107, 111-139.	3.8	26
85	An integrated approach for production lot sizing and raw material purchasing. European Journal of Operational Research, 2018, 269, 923-938.	5.7	26
86	Designing and planning the downstream oil supply chain under uncertainty using a fuzzy programming approach. Computers and Chemical Engineering, 2021, 151, 107373.	3.8	26
87	Optimal design of heat-integrated multipurpose batch facilities: a mixed-integer mathematical formulation. Computers and Chemical Engineering, 2001, 25, 547-559.	3.8	25
88	Life cycle assessment in chemical industry â€œ a review. Current Opinion in Chemical Engineering, 2019, 26, 139-147.	7.8	25
89	Supply Chain Management with Optimal Scheduling. Industrial & Engineering Chemistry Research, 2008, 47, 116-132.	3.7	24
90	A supporting framework for maintenance capacity planning and scheduling: Development and application in the aircraft MRO industry. International Journal of Production Economics, 2019, 218, 1-15.	8.9	24

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91	A multi-objective matheuristic for designing and planning sustainable supply chains. <i>Computers and Industrial Engineering</i> , 2019, 135, 1203-1223.	6.3	24
92	Design and Planning of Closed-Loop Supply Chains: A Risk-Averse Multistage Stochastic Approach. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6236-6249.	3.7	23
93	A matheuristic decomposition approach for the scheduling of a single-source and multiple destinations pipeline system. <i>European Journal of Operational Research</i> , 2018, 268, 665-687.	5.7	23
94	Quantitative indicators for social sustainability assessment of society and product responsibility aspects in supply chains. <i>Journal of International Studies</i> , 2017, 10, 9-36.	1.9	23
95	Multiproduct pipeline scheduling integrating for inbound and outbound inventory management. <i>Computers and Chemical Engineering</i> , 2018, 115, 377-396.	3.8	21
96	A simulation-optimization approach to integrate process design and planning decisions under technical and market uncertainties: A case from the chemical-pharmaceutical industry. <i>Computers and Chemical Engineering</i> , 2017, 106, 796-813.	3.8	19
97	Integrated staff scheduling at a medical emergency service: An optimisation approach. <i>Expert Systems With Applications</i> , 2018, 112, 62-76.	7.6	19
98	A discrete time reactive scheduling model for new order insertion in job shop, make-to-order industries. <i>International Journal of Production Research</i> , 2010, 48, 7395-7422.	7.5	18
99	Collaborative Design and Tactical Planning of Downstream Petroleum Supply Chains. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17155-17181.	3.7	18
100	Assessing and improving management practices when planning packaging waste collection systems. <i>Resources, Conservation and Recycling</i> , 2014, 85, 116-129.	10.8	18
101	New General Discrete-Time Scheduling Model for Multipurpose Batch Plants. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17206-17220.	3.7	17
102	Order-up-to-level policy update procedure for a supply chain subject to market demand uncertainty. <i>Computers and Industrial Engineering</i> , 2017, 113, 347-355.	6.3	17
103	An efficient Lagrangian-based heuristic to solve a multi-objective sustainable supply chain problem. <i>European Journal of Operational Research</i> , 2021, 294, 70-90.	5.7	17
104	Comparing models for lot-sizing and scheduling of single-stage continuous processes: Operations research and process systems engineering approaches. <i>Computers and Chemical Engineering</i> , 2013, 52, 177-192.	3.8	16
105	Optimal planning and campaign scheduling of biopharmaceutical processes using a continuous-time formulation. <i>Computers and Chemical Engineering</i> , 2016, 91, 422-444.	3.8	16
106	A model-based decision support framework for the optimisation of production planning in the biopharmaceutical industry. <i>Computers and Industrial Engineering</i> , 2019, 129, 354-367.	6.3	16
107	Environmental monetization and risk assessment in supply chain design and planning. <i>Journal of Cleaner Production</i> , 2020, 270, 121552.	9.3	16
108	An application of a multi-agent auction-based protocol to the tactical planning of oil product transport in the Brazilian multimodal network. <i>Computers and Chemical Engineering</i> , 2013, 59, 17-32.	3.8	15

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109	Solution Methodology for Scheduling Problems in Batch Plants. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19265-19281.	3.7	15
110	The vehicle routing problem with backhauls towards a sustainability perspective: a review. <i>Top</i> , 2020, 28, 358-401.	1.6	15
111	A two-level optimisation-simulation method for production planning and scheduling: the industrial case of a human-robot collaborative assembly line. <i>International Journal of Production Research</i> , 2022, 60, 2942-2962.	7.5	15
112	Design of Multipurpose Plants Using the Resource-Task Network Unified Framework. <i>Computers and Chemical Engineering</i> , 1997, 21, S703-S708.	3.8	15
113	Selection of tailored practices for supply chain management. <i>International Journal of Operations and Production Management</i> , 2013, 33, 1040-1074.	5.9	14
114	Designing closed-loop supply chains with nonlinear dimensioning factors using ant colony optimization. <i>Soft Computing</i> , 2015, 19, 2245-2264.	3.6	14
115	Business strategy for sustainable development: Impact of life cycle inventory and life cycle impact assessment steps in supply chain design and planning. <i>Business Strategy and the Environment</i> , 2020, 29, 87-117.	14.3	14
116	A new matheuristic approach for the multi-depot vehicle routing problem with inter-depot routes. <i>OR Spectrum</i> , 2020, 42, 75-110.	3.4	14
117	The wicked problem of sustainable development in supply chains. <i>Business Strategy and the Environment</i> , 2022, 31, 46-58.	14.3	14
118	A hybrid metaheuristic for smart waste collection problems with workload concerns. <i>Computers and Operations Research</i> , 2022, 137, 105518.	4.0	14
119	Optimal Design and Layout of Industrial Facilities: A Simultaneous Approach. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 3601-3609.	3.7	13
120	Synthesis and optimization of the recovery route for residual products under uncertain product demand. <i>Computers and Operations Research</i> , 2007, 34, 1463-1490.	4.0	13
121	Risk Management Framework for the Petroleum Supply Chain. <i>Computer Aided Chemical Engineering</i> , 2010, , 157-162.	0.5	13
122	Resilience assessment of supply chains under different types of disruption. <i>Computer Aided Chemical Engineering</i> , 2014, 34, 759-764.	0.5	13
123	Assessment of financial risk in the design and scheduling of multipurpose plants under demand uncertainty. <i>International Journal of Production Research</i> , 2021, 59, 6125-6145.	7.5	13
124	Design and Scheduling of Periodic Multipurpose Batch Plants under Uncertainty. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 9655-9670.	3.7	12
125	Mixed Integer Linear Programming Formulation for Aiding Planning Activities in a Complex Pipeline Network. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 11417-11433.	3.7	12
126	HOW TO DESIGN AND PLAN SUSTAINABLE SUPPLY CHAINS THROUGH OPTIMIZATION MODELS?. <i>Pesquisa Operacional</i> , 2018, 38, 363-388.	0.4	12

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127	Blood supply chain: a two-stage approach for tactical and operational planning. <i>OR Spectrum</i> , 2020, 42, 1023-1053.	3.4	12
128	ForeSim-BI: A predictive analytics decision support tool for capacity planning. <i>Decision Support Systems</i> , 2020, 131, 113266.	5.9	12
129	Blood inventory management: Ordering policies for hospital blood banks under uncertainty. <i>International Transactions in Operational Research</i> , 2023, 30, 273-301.	2.7	12
130	A Divide and Conquer Strategy for the Scheduling of Process Plants Subject to Changeovers Using Continuous-Time Formulations. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 7939-7950.	3.7	11
131	Design of multipurpose production facilities: A RTN decomposition-based algorithm. <i>Computers and Chemical Engineering</i> , 1999, 23, S7-S10.	3.8	10
132	A Two-Stage Stochastic Model for the Design and Planning of a Multi-Product Closed Loop Supply Chain. <i>Computer Aided Chemical Engineering</i> , 2012, 30, 412-416.	0.5	10
133	A Simulated Annealing Algorithm for the Design and Planning of Supply Chains with Economic and Environmental Objectives. <i>Computer Aided Chemical Engineering</i> , 2012, 30, 21-25.	0.5	10
134	A MILP (Mixed Integer Linear Programming) decomposition solution to the scheduling of heavy oil derivatives in a real-world pipeline. <i>Computers and Chemical Engineering</i> , 2014, 66, 124-138.	3.8	10
135	Effective bullwhip metrics for multi-echelon distribution systems under order batching policies with cyclic demand. <i>International Journal of Production Research</i> , 2018, 56, 1593-1619.	7.5	10
136	A solution framework for the long-term scheduling and inventory management of straight pipeline systems with multiple-sources. <i>Computers and Operations Research</i> , 2021, 127, 105143.	4.0	10
137	Optimal design of multipurpose batch plants 1. Problem formulation. <i>Computers and Chemical Engineering</i> , 1993, 17, S33-S38.	3.8	9
138	Optimal Design and Layout of Industrial Facilities: An Application to Multipurpose Batch Plants. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 3610-3620.	3.7	9
139	Modeling Integrated Biorefinery Supply Chains. <i>Computer Aided Chemical Engineering</i> , 2013, , 79-84.	0.5	9
140	Design and Planning of Sustainable Vaccine Supply Chain. <i>Lecture Notes in Logistics</i> , 2019, , 23-55.	0.8	9
141	Using Machine Learning for Enhancing the Understanding of Bullwhip Effect in the Oil and Gas Industry. <i>Machine Learning and Knowledge Extraction</i> , 2019, 1, 994-1012.	5.0	9
142	Redesign of a multipurpose batch pilot plant with cleaning in place (CIP) integration. <i>Computers and Chemical Engineering</i> , 1994, 18, S277-S281.	3.8	8
143	Towards supply chain sustainability: balancing costs with environmental and social impacts. <i>Computer Aided Chemical Engineering</i> , 2013, 32, 895-900.	0.5	8
144	Process Supply Chains Management - Where are We? Where to Go Next?. <i>Frontiers in Energy Research</i> , 2014, 2, .	2.3	8

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145	Downstream Petroleum Supply Chain Planning under Uncertainty. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 1889-1894.	0.5	8
146	Optimization of Production Planning and Scheduling in the Ice Cream Industry. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 2231-2236.	0.5	8
147	From problem structuring to optimization: A multi-methodological framework to assist the planning of medical training. <i>European Journal of Operational Research</i> , 2019, 273, 662-683.	5.7	8
148	Stochastic programming of vehicle to building interactions with uncertainty in PEVs driving for a medium office building. , 2013, , .		7
149	How to assess social aspects in supply chains?. <i>Computer Aided Chemical Engineering</i> , 2014, , 801-806.	0.5	7
150	Challenges and Perspectives of Process Systems Engineering in Supply Chain Management. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 87-96.	0.5	7
151	Multi-objective optimization approach to design and planning hydrogen supply chain under uncertainty: A Portugal study case. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 1309-1314.	0.5	7
152	An economic and environmental comparison between forest wood products “ Uncoated woodfree paper, natural cork stoppers and particle boards. <i>Journal of Cleaner Production</i> , 2021, 296, 126469.	9.3	7
153	Pharmaceutical industry supply chains: How to sustainably improve access to vaccines?. <i>Chemical Engineering Research and Design</i> , 2022, 182, 324-341.	5.6	7
154	Optimal planning of closed loop supply chains: A discrete versus a continuous-time formulation. <i>Computer Aided Chemical Engineering</i> , 2007, 24, 673-678.	0.5	6
155	A Meta-Heuristics Approach for the Design and Scheduling of Multipurpose Batch Plants. <i>Computer Aided Chemical Engineering</i> , 2010, 28, 1315-1320.	0.5	6
156	Supply Chain Risk Management Review and a New Framework for Petroleum Supply Chains. , 2011, , 227-264.		6
157	Multimodal Green Food Supply Chain Design and Planning under Uncertainty. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 181-186.	0.5	6
158	Modelling and Analysing Supply Chain Resilience Flow Complexity. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 815-820.	0.5	6
159	Adjustable Robust Optimization for Planning Logistics Operations in Downstream Oil Networks. <i>Processes</i> , 2019, 7, 507.	2.8	6
160	Decomposition approaches for the design and scheduling of multiproduct multistage batch plants with parallel lines. <i>Computers and Chemical Engineering</i> , 2019, 127, 111-126.	3.8	6
161	Scheduling of a single-source multiproduct pipeline system by a matheuristic approach: Combining simulated annealing and MILP. <i>Computers and Chemical Engineering</i> , 2020, 136, 106784.	3.8	6
162	A graph modeling framework to design and plan the downstream oil supply chain. <i>International Transactions in Operational Research</i> , 2022, 29, 1502-1519.	2.7	6

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163	Optimal design of multipurpose batch plants 1. Problem formulation. Computers and Chemical Engineering, 1993, 17, S33-S38.	3.8	6
164	Scheduling of industrial distribution manifolds with pre-conditions. European Journal of Operational Research, 1999, 119, 461-478.	5.7	5
165	Pipeline scheduling and distribution centre management – A real-world scenario at CLC. Computer Aided Chemical Engineering, 2006, 21, 2135-2140.	0.5	5
166	The retrofit of a closed-loop distribution network: the case of lead batteries. Computer Aided Chemical Engineering, 2010, , 1213-1218.	0.5	5
167	Strategic Planning of Petroleum Supply Chains. Computer Aided Chemical Engineering, 2011, 29, 1738-1742.	0.5	5
168	Optimization of Closed-Loop Supply Chains under Uncertain Quality of Returns. Computer Aided Chemical Engineering, 2011, 29, 945-949.	0.5	5
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