

Lazaros G Papageorgiou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9408691/publications.pdf>

Version: 2024-02-01

203
papers

6,803
citations

61857

43
h-index

74018

75
g-index

227
all docs

227
docs citations

227
times ranked

4996
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal production allocation and distribution supply chain networks. <i>International Journal of Production Economics</i> , 2008, 111, 468-483.	5.1	428
2	Efficient energy consumption and operation management in a smart building with microgrid. <i>Energy Conversion and Management</i> , 2013, 74, 209-222.	4.4	278
3	Supply chain optimisation for the process industries: Advances and opportunities. <i>Computers and Chemical Engineering</i> , 2009, 33, 1931-1938.	2.0	262
4	A mathematical programming approach for optimal design of distributed energy systems at the neighbourhood level. <i>Energy</i> , 2012, 44, 96-104.	4.5	259
5	Multiobjective optimisation of production, distribution and capacity planning of global supply chains in the process industry. <i>Omega</i> , 2013, 41, 369-382.	3.6	248
6	Optimal design and operation of distributed energy systems: Application to Greek residential sector. <i>Renewable Energy</i> , 2013, 51, 331-342.	4.3	178
7	Strategic Supply Chain Optimization for the Pharmaceutical Industries. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 275-286.	1.8	172
8	A combined optimization and agent-based approach to supply chain modelling and performance assessment. <i>Production Planning and Control</i> , 2001, 12, 81-88.	5.8	138
9	A hierarchical solution approach for multi-site capacity planning under uncertainty in the pharmaceutical industry. <i>Computers and Chemical Engineering</i> , 2004, 28, 707-725.	2.0	138
10	Towards a sustainable hydrogen economy: Optimisation-based framework for hydrogen infrastructure development. <i>Computers and Chemical Engineering</i> , 2017, 102, 110-127.	2.0	131
11	A mixed integer quadratic programming formulation for the economic dispatch of generators with prohibited operating zones. <i>Electric Power Systems Research</i> , 2007, 77, 1292-1296.	2.1	124
12	Optimal design of CHP-based microgrids: Multiobjective optimisation and life cycle assessment. <i>Energy</i> , 2015, 85, 181-193.	4.5	124
13	Economic and environmental scheduling of smart homes with microgrid: DER operation and electrical tasks. <i>Energy Conversion and Management</i> , 2016, 110, 113-124.	4.4	124
14	Optimal design of an electrodialysis brackish water desalination plant. <i>Desalination</i> , 2005, 173, 173-186.	4.0	120
15	An optimisation framework for a hybrid first/second generation bioethanol supply chain. <i>Computers and Chemical Engineering</i> , 2012, 42, 101-114.	2.0	112
16	Economic optimisation of a UK advanced biofuel supply chain. <i>Biomass and Bioenergy</i> , 2012, 41, 57-72.	2.9	107
17	Optimization-Based Approaches for Bioethanol Supply Chains. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 4927-4938.	1.8	102
18	Optimal Campaign Planning/Scheduling of Multipurpose Batch/Semicontinuous Plants. 1. Mathematical Formulation. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 488-509.	1.8	94

#	ARTICLE	IF	CITATIONS
19	Transfer Prices for Multienterprise Supply Chain Optimization. Industrial & Engineering Chemistry Research, 2001, 40, 1650-1660.	1.8	90
20	Capacity Planning Under Uncertainty for the Pharmaceutical Industry. Chemical Engineering Research and Design, 2003, 81, 665-678.	2.7	89
21	Global supply chain planning for pharmaceuticals. Chemical Engineering Research and Design, 2011, 89, 2396-2409.	2.7	89
22	A regression tree approach using mathematical programming. Expert Systems With Applications, 2017, 78, 347-357.	4.4	89
23	Mathematical programming for piecewise linear regression analysis. Expert Systems With Applications, 2016, 44, 156-167.	4.4	85
24	Fair transfer price and inventory holding policies in two-enterprise supply chains. European Journal of Operational Research, 2002, 143, 582-599.	3.5	84
25	An optimization framework for the integration of water management and shale gas supply chain design. Computers and Chemical Engineering, 2016, 92, 230-255.	2.0	84
26	Optimal multi-floor process plant layout. Computers and Chemical Engineering, 2002, 26, 575-583.	2.0	82
27	Optimal Campaign Planning/Scheduling of Multipurpose Batch/Semicontinuous Plants. 2. A Mathematical Decomposition Approach. Industrial & Engineering Chemistry Research, 1996, 35, 510-529.	1.8	78
28	An MILP Approach to Safe Process Plant Layout. Chemical Engineering Research and Design, 2004, 82, 579-586.	2.7	74
29	Continuous-Domain Mathematical Models for Optimal Process Plant Layout. Industrial & Engineering Chemistry Research, 1998, 37, 3631-3639.	1.8	70
30	Optimal Scheduling of Heat-Integrated Multipurpose Plants. Industrial & Engineering Chemistry Research, 1994, 33, 3168-3186.	1.8	68
31	Finding community structures in complex networks using mixed integer optimisation. European Physical Journal B, 2007, 60, 231-239.	0.6	67
32	Robustness metrics for dynamic optimization models under parameter uncertainty. AIChE Journal, 1998, 44, 1993-2006.	1.8	63
33	A mixed integer optimisation approach for integrated water resources management. Computers and Chemical Engineering, 2011, 35, 858-875.	2.0	63
34	The importance of economies of scale, transport costs and demand patterns in optimising hydrogen fuelling infrastructure: An exploration with SHIPMod (Spatial hydrogen infrastructure planning) Tj ETQq0 0 0 rgBT /08erlock 10 Tf 50 13	0.8	62
35	Supply chain design and multilevel planning—An industrial case. Computers and Chemical Engineering, 2008, 32, 2643-2663.	2.0	59
36	Fair cost distribution among smart homes with microgrid. Energy Conversion and Management, 2014, 80, 498-508.	4.4	56

#	ARTICLE	IF	CITATIONS
37	Customer Demand Forecasting via Support Vector Regression Analysis. <i>Chemical Engineering Research and Design</i> , 2005, 83, 1009-1018.	2.7	55
38	Optimal Cleaning Policies in Heat Exchanger Networks under Rapid Fouling. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 441-454.	1.8	54
39	A hybrid MILP/CLP algorithm for multipurpose batch process scheduling. <i>Computers and Chemical Engineering</i> , 2005, 29, 1277-1291.	2.0	51
40	An MILP formulation for the optimal management of microgrids with task interruptions. <i>Applied Energy</i> , 2017, 206, 1131-1146.	5.1	49
41	A TSP-based MILP Model for Medium-Term Planning of Single-Stage Continuous Multiproduct Plants. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 7733-7743.	1.8	48
42	Fair electricity transfer price and unit capacity selection for microgrids. <i>Energy Economics</i> , 2013, 36, 581-593.	5.6	47
43	Medium Term Planning of Biopharmaceutical Manufacture using Mathematical Programming. <i>Biotechnology Progress</i> , 2005, 21, 1478-1489.	1.3	44
44	Interactions of Maintenance and Production Planning for Multipurpose Process Plants A System Effectiveness Approach. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 3195-3207.	1.8	42
45	A mixed integer optimisation model for data classification. <i>Computers and Industrial Engineering</i> , 2009, 56, 1205-1215.	3.4	40
46	A mathematical programming approach for cyclic production and cleaning scheduling of multistage continuous plants. <i>Computers and Chemical Engineering</i> , 2004, 28, 3-15.	2.0	38
47	Optimal design and operation of continuous ultrafiltration plants. <i>Journal of Membrane Science</i> , 2004, 235, 131-138.	4.1	38
48	Robustness of the p53 network and biological hackers. <i>FEBS Letters</i> , 2005, 579, 3037-3042.	1.3	38
49	Detection of Composite Communities in Multiplex Biological Networks. <i>Scientific Reports</i> , 2015, 5, 10345.	1.6	37
50	A rolling horizon approach for optimal management of microgrids under stochastic uncertainty. <i>Chemical Engineering Research and Design</i> , 2018, 131, 293-317.	2.7	37
51	A product portfolio approach in the pharmaceutical industry. <i>Computers and Chemical Engineering</i> , 1999, 23, S883-S886.	2.0	36
52	Optimization of vendor-managed inventory systems in a rolling horizon framework. <i>Computers and Industrial Engineering</i> , 2008, 54, 1019-1047.	3.4	36
53	Capacity planning for batch and perfusion bioprocesses across multiple biopharmaceutical facilities. <i>Biotechnology Progress</i> , 2014, 30, 594-606.	1.3	36
54	Optimal Production and Maintenance Planning of Biopharmaceutical Manufacturing under Performance Decay. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17075-17091.	1.8	35

#	ARTICLE	IF	CITATIONS
55	Efficient Solution Approaches for the Multifloor Process Plant Layout Problem. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 811-824.	1.8	32
56	An optimisation framework for the strategic design of synthetic natural gas (BioSNG) supply chains. <i>Applied Energy</i> , 2017, 187, 929-955.	5.1	32
57	Closed-loop integration of planning, scheduling and multi-parametric nonlinear control. <i>Computers and Chemical Engineering</i> , 2019, 122, 172-192.	2.0	32
58	On the modelling of valve point loadings for power electricity dispatch. <i>Applied Energy</i> , 2012, 91, 301-303.	5.1	31
59	Mathematical programming formulations for non-smooth and non-convex electricity dispatch problems. <i>Electric Power Systems Research</i> , 2013, 95, 302-308.	2.1	28
60	Global supply chain network optimisation for pharmaceuticals. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 1189-1194.	0.3	27
61	Fast genetic algorithm approaches to solving discrete-time mixed integer linear programming problems of capacity planning and scheduling of biopharmaceutical manufacture. <i>Computers and Chemical Engineering</i> , 2019, 121, 212-223.	2.0	27
62	A hierarchical approach for campaign planning of multipurpose batch plants. <i>Computers and Chemical Engineering</i> , 1993, 17, S27-S32.	2.0	26
63	Medium-Term Planning of Single-Stage Single-Unit Multiproduct Plants Using a Hybrid Discrete/Continuous-Time MILP Model. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1925-1934.	1.8	25
64	Design of hydrogen transmission pipeline networks with hydraulics. <i>Chemical Engineering Research and Design</i> , 2018, 131, 266-278.	2.7	25
65	A MILP model for N-dimensional allocation. <i>Computers and Chemical Engineering</i> , 2007, 31, 1702-1714.	2.0	24
66	Process plant layout using an improvement-type algorithm. <i>Chemical Engineering Research and Design</i> , 2009, 87, 780-788.	2.7	24
67	MINLP Models for the Synthesis of Optimal Peptide Tags and Downstream Protein Processing. <i>Biotechnology Progress</i> , 2008, 21, 875-884.	1.3	23
68	MILP-based approaches for medium-term planning of single-stage continuous multiproduct plants with parallel units. <i>Computational Management Science</i> , 2010, 7, 407-435.	0.8	23
69	Module detection in complex networks using integer optimisation. <i>Algorithms for Molecular Biology</i> , 2010, 5, 36.	0.3	23
70	Optimising chromatography strategies of antibody purification processes by mixed integer fractional programming techniques. <i>Computers and Chemical Engineering</i> , 2014, 68, 151-164.	2.0	23
71	Integrated Optimization of Upstream and Downstream Processing in Biopharmaceutical Manufacturing under Uncertainty: A Chance Constrained Programming Approach. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4599-4612.	1.8	23
72	Multiobjective Long-Term Planning of Biopharmaceutical Manufacturing Facilities. <i>Biotechnology Progress</i> , 2007, 23, 1383-1393.	1.3	22

#	ARTICLE	IF	CITATIONS
73	Piecewise regression analysis through information criteria using mathematical programming. Expert Systems With Applications, 2019, 121, 362-372.	4.4	22
74	An iterative mixed integer optimisation approach for medium term planning of biopharmaceutical manufacture under uncertainty. Chemical Engineering Research and Design, 2008, 86, 259-267.	2.7	21
75	Least Economic Cost Regional Water Supply Planning – Optimising Infrastructure Investments and Demand Management for South East England’s 17.6 Million People. Water Resources Management, 2013, 27, 5017.	1.9	21
76	Designing cost-effective biopharmaceutical facilities using mixed-integer optimization. Biotechnology Progress, 2013, 29, 1472-1483.	1.3	21
77	Optimal scheduling of heat-integrated multipurpose plants under fouling conditions. Applied Thermal Engineering, 2001, 21, 1675-1697.	3.0	20
78	Integrated Management of Non-conventional Water Resources in Anhydrous Islands. Water Resources Management, 2012, 26, 359-375.	1.9	19
79	Fair design of CCS infrastructure for power plants in Qatar under carbon trading scheme. International Journal of Greenhouse Gas Control, 2017, 56, 43-54.	2.3	19
80	Medium-term optimization-based approach for the integration of production planning, scheduling and maintenance. Computers and Chemical Engineering, 2018, 116, 191-211.	2.0	19
81	Optimal Piecewise Linear Regression Algorithm for QSAR Modelling. Molecular Informatics, 2019, 38, e1800028.	1.4	19
82	Integrated shale gas supply chain design and water management under uncertainty. AIChE Journal, 2019, 65, 924-936.	1.8	19
83	Optimal synthesis of chromatographic trains for downstream protein processing. Biotechnology Progress, 2011, 27, 1653-1660.	1.3	18
84	Community Structure Detection for Overlapping Modules through Mathematical Programming in Protein Interaction Networks. PLoS ONE, 2014, 9, e112821.	1.1	18
85	Optimisation approaches for the synthesis of water treatment plants. Computers and Chemical Engineering, 2017, 106, 849-871.	2.0	18
86	A Construction-Based Approach to Process Plant Layout Using Mixed-Integer Optimization. Industrial & Engineering Chemistry Research, 2007, 46, 351-358.	1.8	17
87	Single-Stage Scheduling of Multiproduct Batch Plants: An Edible-Oil Deodorizer Case Study. Industrial & Engineering Chemistry Research, 2010, 49, 8657-8669.	1.8	17
88	Multi-parametric mixed integer linear programming under global uncertainty. Computers and Chemical Engineering, 2018, 116, 279-295.	2.0	17
89	Operational envelopes for batch processes. AIChE Journal, 2001, 47, 2277-2288.	1.8	16
90	A Model Predictive Control Framework for Residential Microgrids. Computer Aided Chemical Engineering, 2012, 30, 327-331.	0.3	16

#	ARTICLE	IF	CITATIONS
91	Mathematical programming approaches for downstream processing optimisation of biopharmaceuticals. <i>Chemical Engineering Research and Design</i> , 2015, 94, 18-31.	2.7	16
92	Optimal planning and campaign scheduling of biopharmaceutical processes using a continuous-time formulation. <i>Computers and Chemical Engineering</i> , 2016, 91, 422-444.	2.0	16
93	Traveling Salesman Problem-Based Integration of Planning, Scheduling, and Optimal Control for Continuous Processes. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11186-11205.	1.8	16
94	Optimal design of low-cost supply chain networks on the benefits of new product formulations. <i>Computers and Industrial Engineering</i> , 2020, 139, 106189.	3.4	16
95	Optimal maintenance planning and crew allocation for multipurpose batch plants. <i>International Journal of Production Research</i> , 2004, 42, 355-377.	4.9	15
96	The Economic Lot Scheduling Problem under Performance Decay. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 6463-6475.	1.8	15
97	Multitechelon supply chain planning with sequence-dependent changeovers and price elasticity of demand under uncertainty. <i>AIChE Journal</i> , 2012, 58, 3390-3403.	1.8	15
98	Preliminary Evaluation of Shale Gas Reservoirs: Appraisal of Different Well-Pad Designs via Performance Metrics. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10334-10349.	1.8	15
99	Disclosing water-energy-economics nexus in shale gas development. <i>Applied Energy</i> , 2018, 225, 710-731.	5.1	15
100	Optimal cyclic cleaning scheduling in heat exchanger networks under fouling. <i>Computers and Chemical Engineering</i> , 1999, 23, S203-S206.	2.0	14
101	Active demand management for substitute products through price optimisation. <i>OR Spectrum</i> , 2007, 29, 551-577.	2.1	14
102	Analysis of metabolic networks using a pathway distance metric through linear programming. <i>Metabolic Engineering</i> , 2003, 5, 211-219.	3.6	13
103	Layout Aspects of Pipeless Batch Plants. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 5672-5679.	1.8	13
104	A novel efficient optimisation system for purification process synthesis. <i>Biochemical Engineering Journal</i> , 2012, 67, 186-193.	1.8	13
105	Sample re-weighting hyper box classifier for multi-class data classification. <i>Computers and Industrial Engineering</i> , 2015, 85, 44-56.	3.4	13
106	Mixed Integer Linear Programming Based Approaches for Medium-Term Planning and Scheduling in Multiproduct Multistage Continuous Plants. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 5636-5651.	1.8	13
107	Integration of environmental aspects in modelling and optimisation of water supply chains. <i>Science of the Total Environment</i> , 2018, 636, 314-338.	3.9	13
108	Optimization-Based Approach for Process Plant Layout. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10482-10490.	1.8	13

#	ARTICLE	IF	CITATIONS
109	Network-based piecewise linear regression for QSAR modelling. <i>Journal of Computer-Aided Molecular Design</i> , 2019, 33, 831-844.	1.3	13
110	Medium Term Planning of Biopharmaceutical Manufacture with Uncertain Fermentation Titers. <i>Biotechnology Progress</i> , 2006, 22, 1630-1636.	1.3	13
111	Process design for maintainability: an optimization approach. <i>Computers and Chemical Engineering</i> , 2000, 24, 203-208.	2.0	12
112	Optimisation-based scheduling: A discrete manufacturing case study. <i>Computers and Industrial Engineering</i> , 2005, 49, 118-145.	3.4	12
113	Efficient MILP formulations for the simultaneous optimal peptide tag design and downstream processing synthesis. <i>AIChE Journal</i> , 2009, 55, 2303-2317.	1.8	12
114	Multi-parametric linear programming under global uncertainty. <i>AIChE Journal</i> , 2017, 63, 3871-3895.	1.8	12
115	Nonlinear Model-Based Process Operation under Uncertainty Using Exact Parametric Programming. <i>Engineering</i> , 2017, 3, 202-213.	3.2	12
116	Multi-objective optimisation for biopharmaceutical manufacturing under uncertainty. <i>Computers and Chemical Engineering</i> , 2018, 119, 383-393.	2.0	12
117	Optimal multi-floor process plant layout with production sections. <i>Chemical Engineering Research and Design</i> , 2018, 137, 488-501.	2.7	12
118	Community Structure Detection for Directed Networks through Modularity Optimisation. <i>Algorithms</i> , 2016, 9, 73.	1.2	11
119	Key aspects in the strategic development of synthetic natural gas (BioSNG) supply chains. <i>Biomass and Bioenergy</i> , 2018, 110, 80-97.	2.9	11
120	An MILP formulation for the synthesis of protein purification processes. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1262-1270.	2.7	10
121	Optimisation approaches for supply chain planning and scheduling under demand uncertainty. <i>Chemical Engineering Research and Design</i> , 2018, 138, 341-357.	2.7	10
122	Optimal layout of multi-floor process plants using MILP. <i>Computers and Chemical Engineering</i> , 2019, 131, 106573.	2.0	10
123	Scenario tree reduction for optimisation under uncertainty using sensitivity analysis. <i>Computers and Chemical Engineering</i> , 2019, 125, 449-459.	2.0	10
124	Robust optimal fermentation operating policies. <i>Computers and Chemical Engineering</i> , 1998, 22, S167-S174.	2.0	9
125	Mixed Integer Optimization for Cyclic Scheduling of Multiproduct Plants Under Exponential Performance Decay. <i>Chemical Engineering Research and Design</i> , 2005, 83, 1208-1217.	2.7	9
126	DETECTION OF DISJOINT AND OVERLAPPING MODULES IN WEIGHTED COMPLEX NETWORKS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1150023.	0.9	9

#	ARTICLE	IF	CITATIONS
127	A mixed integer linear programming model for the optimal operation of a network of gas oil separation plants. <i>Chemical Engineering Research and Design</i> , 2016, 111, 147-160.	2.7	9
128	A mathematical programming approach for sequential clustering of dynamic networks. <i>European Physical Journal B</i> , 2016, 89, 1.	0.6	9
129	Optimal Antibody Purification Strategies Using Data-Driven Models. <i>Engineering</i> , 2019, 5, 1077-1092.	3.2	8
130	A game-theoretic optimisation approach to fair customer allocation in oligopolies. <i>Optimization and Engineering</i> , 2020, 21, 1459-1486.	1.3	8
131	Detection of Multi-clustered Genes and Community Structure for the Plant Pathogenic Fungus <i>Fusarium graminearum</i> . <i>Lecture Notes in Computer Science</i> , 2012, , 69-86.	1.0	8
132	Energy Consumption Scheduling of Smart Homes with Microgrid under Multi-objective Optimisation. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 2441-2446.	0.3	7
133	Optimization-based framework for resin selection strategies in biopharmaceutical purification process development. <i>Biotechnology Progress</i> , 2017, 33, 1116-1126.	1.3	7
134	A graph theory approach for scenario aggregation for stochastic optimisation. <i>Computers and Chemical Engineering</i> , 2020, 137, 106810.	2.0	7
135	Mixed integer optimisation of antibody purification processes. <i>Computer Aided Chemical Engineering</i> , 2013, 32, 157-162.	0.3	7
136	Optimisation of policy parameters in supply chain applications. <i>International Journal of Logistics Research and Applications</i> , 2005, 8, 15-36.	5.6	6
137	An Optimisation-based Approach for Integrated Water Resources Management. <i>Computer Aided Chemical Engineering</i> , 2010, , 1075-1080.	0.3	6
138	Pathway activity inference for multiclass disease classification through a mathematical programming optimisation framework. <i>BMC Bioinformatics</i> , 2014, 15, 390.	1.2	6
139	Closed loop integration of planning, scheduling and control via exact multi-parametric nonlinear programming. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 1273-1278.	0.3	6
140	An MILP model for safe multi-floor process plant layout using the domino hazard index. <i>Chemical Engineering Research and Design</i> , 2021, 148, 137-165.	2.7	6
141	Tree regression models using statistical testing and mixed integer programming. <i>Computers and Industrial Engineering</i> , 2021, 153, 107059.	3.4	6
142	An MILP Model for the Strategic Design of the UK Bioethanol Supply Chain. <i>Computer Aided Chemical Engineering</i> , 2011, , 1799-1803.	0.3	5
143	Pathway-level disease data mining through hyper-box principles. <i>Mathematical Biosciences</i> , 2015, 260, 25-34.	0.9	5
144	Towards a sustainable hydrogen economy: role of carbon price for achieving GHG emission targets. <i>Computer Aided Chemical Engineering</i> , 2016, , 1015-1020.	0.3	5

#	ARTICLE	IF	CITATIONS
145	Optimal design of water treatment processes. <i>Desalination and Water Treatment</i> , 2016, 57, 26954-26975.	1.0	5
146	Optimal management of microgrids under uncertainty using scenario reduction. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2257-2262.	0.3	5
147	Piecewise Regression through the Akaike Information Criterion using Mathematical Programming. <i>IFAC-PapersOnLine</i> , 2018, 51, 730-735.	0.5	5
148	Multi Set-Point Explicit Model Predictive Control for Nonlinear Process Systems. <i>Processes</i> , 2021, 9, 1156.	1.3	5
149	Capacity planning under clinical trials uncertainty for the pharmaceutical industry. <i>Computer Aided Chemical Engineering</i> , 2001, , 865-870.	0.3	4
150	Safe Process Plant Layout using Mathematical Programming. <i>Computer Aided Chemical Engineering</i> , 2002, 10, 295-300.	0.3	4
151	Supply Chain Management and Optimization. , 0, , 621-641.		4
152	Life cycle assessment and optimization on the production of petrochemicals and energy from polymers for the Greater London Area. <i>Computer Aided Chemical Engineering</i> , 2012, , 101-106.	0.3	4
153	Optimal planning of water and wastewater management infrastructure for insular areas: the role of water reuse. <i>Water Science and Technology: Water Supply</i> , 2015, 15, 701-708.	1.0	4
154	A reformulation strategy for mixed-integer linear bi-level programming problems. <i>Computers and Chemical Engineering</i> , 2021, 153, 107409.	2.0	4
155	An integrated platform for intuitive mathematical programming modeling using LaTeX. <i>PeerJ Computer Science</i> , 2018, 4, e161.	2.7	4
156	Medium term planning of biopharmaceutical manufacture with uncertain fermentation titers. <i>Biotechnology Progress</i> , 2006, 22, 1630-6.	1.3	4
157	Batch process design and operation using operational envelopes. <i>Computers and Chemical Engineering</i> , 1999, 23, S887-S890.	2.0	3
158	A problem formulation for optimal mixed-sized box packing. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 913-918.	0.3	3
159	Medium term planning of biopharmaceutical manufacture under uncertainty. <i>Computer Aided Chemical Engineering</i> , 2006, 21, 2069-2074.	0.3	3
160	Medium-term planning of multistage multiproduct continuous plants using mixed integer optimisation. <i>Computer Aided Chemical Engineering</i> , 2009, 26, 393-398.	0.3	3
161	A two-step optimisation approach for integrated water resources management. <i>Computer Aided Chemical Engineering</i> , 2012, 30, 96-100.	0.3	3
162	An MILP model for safe multi-floor process plant layout. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 379-384.	0.3	3

#	ARTICLE	IF	CITATIONS
163	Hierarchical Approach to Integrated Planning of Industrial Gas Supply Chains. Industrial & Engineering Chemistry Research, 2021, 60, 5207-5219.	1.8	3
164	Fair Shale Gas Water Cost Distribution Using Nash Bargaining Game. Chemical Engineering Research and Design, 2021, , .	2.7	3
165	Multi-objective optimisation for safe multi-floor process plant layout using the Dow's Fire & Explosion Index. Journal of Loss Prevention in the Process Industries, 2022, 76, 104722.	1.7	3
166	Investigating the Trade-Off between Design and Operational Flexibility in Continuous Manufacturing of Pharmaceutical Tablets: A Case Study of the Fluid Bed Dryer. Processes, 2022, 10, 454.	1.3	3
167	An MILP model for optimal design of purification tags and synthesis of downstream processing. Computer Aided Chemical Engineering, 2005, , 1537-1542.	0.3	2
168	A discrete/continuous-time MILP model for medium-term planning of single stage multiproduct plants. Computer Aided Chemical Engineering, 2007, , 685-690.	0.3	2
169	An MINLP Formulation for the Synthesis of Chromatographic Protein Purification Processes with Product Loss. Computer Aided Chemical Engineering, 2009, 26, 1057-1062.	0.3	2
170	Management of desalinated seawater, wastewater and reclaimed water in insular and geographically isolated areas using optimisation techniques. Desalination and Water Treatment, 2011, 33, 3-13.	1.0	2
171	A Mathematical Programming Approach to Community Structure Detection in Complex Networks. Computer Aided Chemical Engineering, 2012, 30, 1387-1391.	0.3	2
172	Production planning of batch and semi-continuous bioprocesses across multiple biopharmaceutical facilities. Computer Aided Chemical Engineering, 2012, 30, 377-381.	0.3	2
173	An Optimisation-based Approach for Biopharmaceutical Manufacturing. Computer Aided Chemical Engineering, 2014, 33, 1183-1188.	0.3	2
174	Optimisation as a Tool for Gaining Insight: An Application to the Built Environment. Journal of Algorithms and Computational Technology, 2015, 9, 13-26.	0.4	2
175	Optimisation of Maintenance Planning into the Production of Biopharmaceuticals with Performance Decay using a Continuous-time Formulation. Computer Aided Chemical Engineering, 2016, 38, 1749-1754.	0.3	2
176	Resource-constrained formulation for production scheduling and maintenance. Computer Aided Chemical Engineering, 2017, 40, 1375-1380.	0.3	2
177	Uncertainty aware integration of planning, scheduling and multi-parametric control. Computer Aided Chemical Engineering, 2018, 44, 1171-1176.	0.3	2
178	Optimisation based analysis of a dwelling with an air source heat pump. Computer Aided Chemical Engineering, 2012, 30, 312-316.	0.3	2
179	A mathematical programming approach for the optimal scheduling of heat-integrated multipurpose plants under fouling conditions. Computer Aided Chemical Engineering, 2000, 8, 1111-1116.	0.3	1
180	Optimal multi-floor process plant layout. Computer Aided Chemical Engineering, 2001, 9, 475-480.	0.3	1

#	ARTICLE	IF	CITATIONS
181	Cyclic Production and Cleaning Scheduling of Multiproduct Continuous Plants. Computer Aided Chemical Engineering, 2002, , 613-618.	0.3	1
182	Discrete model and visualization interface for water distribution network design. Computer Aided Chemical Engineering, 2003, 14, 119-124.	0.3	1
183	A hybrid CLP and MILP approach to batch process scheduling. Computer Aided Chemical Engineering, 2003, 15, 582-587.	0.3	1
184	Multi-site capacity planning for the pharmaceutical industry using mathematical programming. Computer Aided Chemical Engineering, 2003, 14, 1097-1102.	0.3	1
185	An iterative solution approach to process plant layout using mixed integer optimisation. Computer Aided Chemical Engineering, 2007, 24, 419-424.	0.3	1
186	Disease Classification through Integer Optimisation. Computer Aided Chemical Engineering, 2011, 29, 1548-1552.	0.3	1
187	Synthesis of Water Treatment Processes using Mixed Integer Programming. Computer Aided Chemical Engineering, 2015, 37, 1379-1384.	0.3	1
188	Continuous-Time Heuristic Model for Medium-Term Capacity Planning of a Multi-Suite, Multi-Product Biopharmaceutical Facility. Computer Aided Chemical Engineering, 2017, 40, 1303-1308.	0.3	1
189	A novel scenario aggregation framework based on network community detection methods. Computer Aided Chemical Engineering, 2019, 46, 811-816.	0.3	1
190	Improved layout structure with complexity measures for the Manufacturer's Pallet Loading Problem		

#	ARTICLE	IF	CITATIONS
199	A mixed integer optimisation approach for data classification with multiple groups. Computer Aided Chemical Engineering, 2007, 24, 291-296.	0.3	0
200	Global Optimization of Water Distribution Systems. , 2008, , .		0
201	Supply Chain Planning with Vehicle Allocation for Gas Industry. Computer Aided Chemical Engineering, 2021, , 1803-1808.	0.3	0
202	Bridging the Gap Between Production, Finances, and Risk in Supply Chain Optimization. , 0, , 1-44.		0
203	A Two Step Hybrid Optimization Procedure for the Design of Optimal Water Distribution Networks. , 0, , 311-332.		0