

Nilay Shah

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6657465/publications.pdf>

Version: 2024-02-01

349
papers

30,524
citations

11908

72
h-index

5873

166
g-index

362
all docs

362
docs citations

362
times ranked

37149
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-economic evaluation of integrated energy systems for heat recovery applications in food retail buildings. <i>Applied Energy</i> , 2022, 305, 117799.	5.1	11
2	Developing a dynamic carbon benchmarking method for large building property estates. <i>Energy and Buildings</i> , 2022, 256, 111683.	3.1	3
3	Perspective on the hydrogen economy as a pathway to reach net-zero CO ₂ emissions in Europe. <i>Energy and Environmental Science</i> , 2022, 15, 1034-1077.	15.6	132
4	A Comparative Study of Different Sorbents in the Context of Direct Air Capture (DAC): Evaluation of Key Performance Indicators and Comparisons. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2618.	1.3	20
5	Pandemic-response adenoviral vector and RNA vaccine manufacturing. <i>Npj Vaccines</i> , 2022, 7, 29.	2.9	12
6	Factors affecting COVID-19 vaccine hesitancy in parents of children with cancer. <i>Pediatric Blood and Cancer</i> , 2022, 69, e29707.	0.8	14
7	A hierarchical coupled optimization approach for dynamic simulation of building thermal environment and integrated planning of energy systems with supply and demand synergy. <i>Energy Conversion and Management</i> , 2022, 258, 115497.	4.4	20
8	Hydrogen Production and Its Applications to Mobility. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022, 13, 501-528.	3.3	7
9	Quality by Design for enabling RNA platform production processes. <i>Trends in Biotechnology</i> , 2022, 40, 1213-1228.	4.9	36
10	Multi-model assessment of heat decarbonisation options in the UK using electricity and hydrogen. <i>Renewable Energy</i> , 2022, 194, 1261-1276.	4.3	14
11	Unravelling the potential of sustainable aviation fuels to decarbonise the aviation sector. <i>Energy and Environmental Science</i> , 2022, 15, 3291-3309.	15.6	18
12	CaboMain: A phase 2 study of cabozantinib as a maintenance agent in patients with ultra-high risk pediatric solid tumors.. <i>Journal of Clinical Oncology</i> , 2022, 40, TPS10060-TPS10060.	0.8	0
13	Real-world implementation and cost of a cloud-based MPC retrofit for HVAC control systems in commercial buildings. <i>Energy and Buildings</i> , 2022, 270, 112269.	3.1	23
14	A whole-system approach for quantifying the value of smart electrification for decarbonising heating in buildings. <i>Energy Conversion and Management</i> , 2022, 268, 115952.	4.4	13
15	Plant-wide assessment of high-pressure membrane contactors in natural gas sweetening â€œ Part I: Model development. <i>Separation and Purification Technology</i> , 2021, 258, 117898.	3.9	2
16	Plant-wide assessment of high-pressure membrane contactors in natural gas sweetening â€œ Part II: Process analysis. <i>Separation and Purification Technology</i> , 2021, 258, 117938.	3.9	3
17	Emerging supply chain of utilising electrical vehicle retired batteries in distributed energy systems. <i>Advances in Applied Energy</i> , 2021, 1, 100002.	6.6	26
18	Emerging Challenges and Opportunities in Pharmaceutical Manufacturing and Distribution. <i>Processes</i> , 2021, 9, 457.	1.3	22

#	ARTICLE	IF	CITATIONS
19	Quality by design modelling to support rapid RNA vaccine production against emerging infectious diseases. Npj Vaccines, 2021, 6, 65.	2.9	36
20	A carbon neutral chemical industry powered by the sun. Discover Chemical Engineering, 2021, 1, 1.	1.1	17
21	Progress and Perspectives in Photo- and Electrochemical Oxidation of Biomass for Sustainable Chemicals and Hydrogen Production. Advanced Energy Materials, 2021, 11, 2101180.	10.2	200
22	Proteomics identify nuclear export as a targetable pathway in neuroblastoma: Comment on XPO1 inhibition with selinexor synergizes with proteasome inhibition in neuroblastoma by targeting nuclear export of β -catenin. Translational Oncology, 2021, 14, 101150.	1.7	0
23	Relative optimization potential: A novel perspective to address trade-off challenges in urban energy system planning. Applied Energy, 2021, 304, 117741.	5.1	10
24	Resources, Production Scales and Time Required for Producing RNA Vaccines for the Global Pandemic Demand. Vaccines, 2021, 9, 3.	2.1	74
25	Model-Based Planning and Delivery of Mass Vaccination Campaigns against Infectious Disease: Application to the COVID-19 Pandemic in the UK. Vaccines, 2021, 9, 1460.	2.1	8
26	Hybrid solar-biomass combined Brayton/organic Rankine-cycle plants integrated with thermal storage: Techno-economic feasibility in selected Mediterranean areas. Renewable Energy, 2020, 147, 2913-2931.	4.3	88
27	Computationally efficient identification of probabilistic design spaces through application of metamodeling and adaptive sampling. Computers and Chemical Engineering, 2020, 132, 106608.	2.0	13
28	Synthesis, integration, and intensification of solid oxide fuel cell systems: process systems engineering perspective. , 2020, , 185-215.		0
29	Optimizing Qatar's energy system for a post-carbon future. Energy Transitions, 2020, 4, 11-29.	3.6	11
30	Environmental and economic analysis of liquefied natural gas (LNG) for heavy goods vehicles in the UK: A Well-to-Wheel and total cost of ownership evaluation. Energy Policy, 2020, 137, 111161.	4.2	37
31	Optimal design of low-cost supply chain networks on the benefits of new product formulations. Computers and Industrial Engineering, 2020, 139, 106189.	3.4	16
32	The potential impact of Molten Salt Reactors on the UK electricity grid. Journal of Cleaner Production, 2020, 276, 122873.	4.6	3
33	A roadmap investment strategy to reduce carbon intensive refrigerants in the food retail industry. Journal of Cleaner Production, 2020, 275, 123039.	4.6	17
34	Modelling of national and local interactions between heat and electricity networks in low-carbon energy systems. Applied Energy, 2020, 276, 115522.	5.1	30
35	The development of a low-carbon roadmap investment strategy to reach Science Based Targets for commercial organisations with multi-site properties. Building and Environment, 2020, 186, 107311.	3.0	13
36	A model-based optimization study on greywater reuse as an alternative urban water resource. Sustainable Production and Consumption, 2020, 22, 186-194.	5.7	16

#	ARTICLE	IF	CITATIONS
37	Cabozantinib for relapsed neuroblastoma: Single institution case series. <i>Pediatric Blood and Cancer</i> , 2020, 67, e28317.	0.8	8
38	Hybrid Mechanistic-Empirical Approach to the Modeling of Twin Screw Feeders for Continuous Tablet Manufacturing. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6650-6661.	1.8	8
39	Fuel cells as combined heat and power systems in commercial buildings: A case study in the food-retail sector. <i>Energy</i> , 2020, 206, 118046.	4.5	27
40	Quantifying the contribution of individual technologies in integrated urban energy systems – A system value approach. <i>Applied Energy</i> , 2020, 266, 114859.	5.1	21
41	Analysis of biomass polygeneration integrated energy system based on a mixed-integer nonlinear programming optimization method. <i>Journal of Cleaner Production</i> , 2020, 271, 122761.	4.6	37
42	Techno-economic potential of low-temperature, jacket-water heat recovery from stationary internal combustion engines with organic Rankine cycles: A cross-sector food-retail study. <i>Applied Energy</i> , 2020, 274, 115260.	5.1	16
43	Multi-level system modelling of the resource-food-bioenergy nexus in the global south. <i>Energy</i> , 2020, 197, 117196.	4.5	26
44	Autologous CAR T-cell therapies supply chain: challenges and opportunities?. <i>Cancer Gene Therapy</i> , 2020, 27, 799-809.	2.2	46
45	Techno-Economic Assessment of Cell-Free Synthesis of Monoclonal Antibodies Using CHO Cell Extracts. <i>Processes</i> , 2020, 8, 454.	1.3	5
46	What is needed to deliver carbon-neutral heat using hydrogen and CCS?. <i>Energy and Environmental Science</i> , 2020, 13, 4204-4224.	15.6	54
47	Emerging Technologies for Low-Cost, Rapid Vaccine Manufacture. <i>Biotechnology Journal</i> , 2019, 14, e1800376.	1.8	86
48	Linear estimators of biomass yield maps for improved biomass supply chain optimisation. <i>Applied Energy</i> , 2019, 253, 113526.	5.1	16
49	Exploring the impact space of different technologies using a portfolio constraint based approach for multi-objective optimization of integrated urban energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109249.	8.2	28
50	Iron-based chemical-looping technology for decarbonising iron and steel production. <i>International Journal of Greenhouse Gas Control</i> , 2019, 91, 102766.	2.3	15
51	Natural gas and BECCS: A comparative analysis of alternative configurations for negative emissions power generation. <i>International Journal of Greenhouse Gas Control</i> , 2019, 90, 102798.	2.3	25
52	Modelling and Evaluation of Multi-Vector Energy Networks in Smart Cities. , 2019, , .		3
53	Distributed or centralized? Designing district-level urban energy systems by a hierarchical approach considering demand uncertainties. <i>Applied Energy</i> , 2019, 252, 113424.	5.1	58
54	Continent-wide planning of seed production: mathematical model and industrial application. <i>Optimization and Engineering</i> , 2019, 20, 881-906.	1.3	3

#	ARTICLE	IF	CITATIONS
55	Constrained global sensitivity analysis for bioprocess design space identification. Computers and Chemical Engineering, 2019, 125, 558-568.	2.0	22
56	Combinatorial BRD4 and AURKA inhibition is synergistic against preclinical models of Ewing sarcoma. Cancer Reports, 2019, 2, .	0.6	0
57	Energy-water nexus design and operation towards the sustainable development goals. Computers and Chemical Engineering, 2019, 124, 162-171.	2.0	29
58	Control of Small-Scale Chromatographic Systems Under Disturbances. Computer Aided Chemical Engineering, 2019, 47, 269-274.	0.3	4
59	China's roadmap to low-carbon electricity and water: Disentangling greenhouse gas (GHG) emissions from electricity-water nexus via renewable wind and solar power generation, and carbon capture and storage. Applied Energy, 2019, 235, 31-42.	5.1	60
60	The multi-scale challenges of biomass fast pyrolysis and bio-oil upgrading: Review of the state of art and future research directions. Progress in Energy and Combustion Science, 2019, 71, 1-80.	15.8	316
61	Smart energy systems for sustainable smart cities: Current developments, trends and future directions. Applied Energy, 2019, 237, 581-597.	5.1	246
62	Whole-System Assessment of the Benefits of Integrated Electricity and Heat System. IEEE Transactions on Smart Grid, 2019, 10, 1132-1145.	6.2	59
63	The role of hydrogen and fuel cells in the global energy system. Energy and Environmental Science, 2019, 12, 463-491.	15.6	2,253
64	Dodging the bullet: therapeutic resistance mechanisms in pediatric cancers. , 2019, 2, 428-446.		3
65	Optimising European supply chains for carbon capture, transport and sequestration, including uncertainty on geological storage availability. Computer Aided Chemical Engineering, 2019, 46, 199-204.	0.3	2
66	MYCN drives glutaminolysis in neuroblastoma and confers sensitivity to an ROS augmenting agent. Cell Death and Disease, 2018, 9, 220.	2.7	46
67	Iterative peptide synthesis in membrane cascades: Untangling operational decisions. Computers and Chemical Engineering, 2018, 115, 275-285.	2.0	3
68	A Nexus Approach for Sustainable Urban Energy-Water-Waste Systems Planning and Operation. Environmental Science & Technology, 2018, 52, 3257-3266.	4.6	55
69	Carbon capture and storage (CCS): the way forward. Energy and Environmental Science, 2018, 11, 1062-1176.	15.6	2,378
70	A MINLP multi-objective optimization model for operational planning of a case study CCHP system in urban China. Applied Energy, 2018, 210, 1126-1140.	5.1	93
71	Sustainable biopolymer synthesis via superstructure and multiobjective optimization. AIChE Journal, 2018, 64, 91-103.	1.8	11
72	Framework for WASH Sector Data Improvements in Data-Poor Environments, Applied to Accra, Ghana. Water (Switzerland), 2018, 10, 1278.	1.2	4

#	ARTICLE	IF	CITATIONS
73	Impact of myopic decision-making and disruptive events in power systems planning. Nature Energy, 2018, 3, 634-640.	19.8	58
74	Lead acid battery recycling for the twenty-first century. Royal Society Open Science, 2018, 5, 171368.	1.1	65
75	Supply Chain Mixed Integer Linear Program Model Integrating a Biorefining Technology Superstructure. Industrial & Engineering Chemistry Research, 2018, 57, 9849-9865.	1.8	10
76	Sustainable production of chemical intermediates for nylon manufacture: A techno-economic analysis for renewable production of caprolactone. Chemical Engineering Research and Design, 2018, 135, 140-152.	2.7	41
77	Precision healthcare supply chain design through multi-objective stochastic programming. Computer Aided Chemical Engineering, 2018, , 2137-2142.	0.3	10
78	Assessment of technology portfolios with enhanced economic and environmental performance for the energy, water and food nexus. Computer Aided Chemical Engineering, 2018, , 537-542.	0.3	14
79	Dual BRD4 and AURKA Inhibition Is Synergistic against MYCN-Amplified and Nonamplified Neuroblastoma. Neoplasia, 2018, 20, 965-974.	2.3	32
80	Screening and techno-economic assessment of biomass-based power generation with CCS technologies to meet 2050 CO2 targets. Applied Energy, 2017, 190, 481-489.	5.1	126
81	Romiplostim for therapy-related thrombocytopenia in pediatric malignancies. Pediatric Blood and Cancer, 2017, 64, e26473.	0.8	14
82	Screening Synthesis Pathways for Biomass-Derived Sustainable Polymer Production. ACS Sustainable Chemistry and Engineering, 2017, 5, 4388-4398.	3.2	28
83	Development of an Optimization-Based Framework for Simultaneous Process Synthesis and Heat Integration. Industrial & Engineering Chemistry Research, 2017, 56, 5000-5013.	1.8	9
84	Clinical efficacy of cabozantinib in two pediatric patients with recurrent renal cell carcinoma. Pediatric Blood and Cancer, 2017, 64, e26586.	0.8	13
85	Novel hybrid CSP-biomass CHP for flexible generation: Thermo-economic analysis and profitability assessment. Applied Energy, 2017, 204, 994-1006.	5.1	97
86	Multi-product biorefineries from lignocelluloses: a pathway to revitalisation of the sugar industry?. Biotechnology for Biofuels, 2017, 10, 87.	6.2	151
87	Energy Performance and Thermo-economic Assessment of a Microturbine-based Dual-fuel Gas-biomass Trigeneration System. Energy Procedia, 2017, 105, 764-772.	1.8	13
88	A systems approach to quantifying the value of power generation and energy storage technologies in future electricity networks. Computers and Chemical Engineering, 2017, 107, 247-256.	2.0	108
89	Thermo-economic Assessment of an Externally Fired Hybrid CSP/biomass Gas Turbine and Organic Rankine Combined Cycle. Energy Procedia, 2017, 105, 174-181.	1.8	14
90	The role of CO2 capture and utilization in mitigating climate change. Nature Climate Change, 2017, 7, 243-249.	8.1	725

#	ARTICLE	IF	CITATIONS
91	Modelling the kinetics of pyrolysis oil hydrothermal upgrading based on the connectivity of oxygen atoms, quantified by 31 P-NMR. Biomass and Bioenergy, 2017, 98, 272-290.	2.9	6
92	Cost and performance of some carbon capture technology options for producing different quality CO ₂ product streams. International Journal of Greenhouse Gas Control, 2017, 57, 185-195.	2.3	68
93	What is the Value of CCS in the Future Energy System?. Energy Procedia, 2017, 114, 7564-7572.	1.8	16
94	Solar/biomass hybrid cycles with thermal storage and bottoming ORC: System integration and economic analysis. Energy Procedia, 2017, 129, 724-731.	1.8	13
95	Optimization methods for petroleum fields development and production systems: a review. Optimization and Engineering, 2017, 18, 907-941.	1.3	30
96	An MILP Modeling Approach to Systemic Energy Technology Valuation in the 21st Century Energy System. Energy Procedia, 2017, 114, 6358-6365.	1.8	5
97	Multi-stage Stochastic Optimisation of a CO ₂ Transport and Geological Storage in the UK. Energy Procedia, 2017, 114, 6514-6525.	1.8	8
98	Optimization based planning of urban energy systems: Retrofitting a Chinese industrial park as a case-study. Energy, 2017, 139, 31-41.	4.5	27
99	On the global limits of bioenergy and land use for climate change mitigation. GCB Bioenergy, 2017, 9, 1721-1735.	2.5	38
100	An efficient model construction strategy to simulate microalgal lutein photo-production dynamic process. Biotechnology and Bioengineering, 2017, 114, 2518-2527.	1.7	23
101	Integration of greenhouse gas control technologies within the energy, water and food nexus to enhance the environmental performance of food production systems. Journal of Cleaner Production, 2017, 162, 1592-1606.	4.6	76
102	An Optimisation-based Framework for Simultaneous Process Synthesis and Heat Integration. Computer Aided Chemical Engineering, 2017, 40, 619-624.	0.3	0
103	Modeling and Experimental Study of a Small Scale Olive Pomace Gasifier for Cogeneration: Energy and Profitability Analysis. Energies, 2017, 10, 1930.	1.6	23
104	Biobased Supply Chain Optimisation Model under Uncertainties. Computer Aided Chemical Engineering, 2017, , 961-966.	0.3	3
105	Integration of CAPE Models and Data for the Domain of Biorefining: InterCAPEmodel Ontology Design. Computer Aided Chemical Engineering, 2017, 40, 2341-2346.	0.3	1
106	12 Carbon Capture. Green Chemistry and Chemical Engineering, 2017, , 457-632.	0.0	1
107	Supply Chain Optimisation of Nipa-based bioethanol industry in Thailand. Computer Aided Chemical Engineering, 2016, 38, 913-918.	0.3	2
108	Quantifying the value of CCS for the future electricity system. Energy and Environmental Science, 2016, 9, 2497-2510.	15.6	91

#	ARTICLE	IF	CITATIONS
109	Global sensitivity analysis using sparse high dimensional model representations generated by the group method of data handling. <i>Mathematics and Computers in Simulation</i> , 2016, 128, 42-54.	2.4	24
110	Implementing land-use and ecosystem service effects into an integrated bioenergy value chain optimisation framework. <i>Computers and Chemical Engineering</i> , 2016, 91, 392-406.	2.0	30
111	A Technology Selection and Operation (TSO) optimisation model for distributed energy systems: Mathematical formulation and case study. <i>Applied Energy</i> , 2016, 180, 491-503.	5.1	58
112	Designing an Artificial Golgi reactor to achieve targeted glycosylation of monoclonal antibodies. <i>AIChE Journal</i> , 2016, 62, 2959-2973.	1.8	4
113	An overview of advances in biomass gasification. <i>Energy and Environmental Science</i> , 2016, 9, 2939-2977.	15.6	844
114	HOXC10 Expression Supports the Development of Chemotherapy Resistance by Fine Tuning DNA Repair in Breast Cancer Cells. <i>Cancer Research</i> , 2016, 76, 4443-4456.	0.4	52
115	Modelling of amorphous cellulose depolymerisation by cellulases, parametric studies and optimisation. <i>Biochemical Engineering Journal</i> , 2016, 105, 455-472.	1.8	18
116	Carbon capture from natural gas combined cycle power plants: Solvent performance comparison at an industrial scale. <i>AIChE Journal</i> , 2016, 62, 166-179.	1.8	14
117	Economic and environmental evaluation of nitrogen removal and recovery methods from wastewater. <i>Bioresource Technology</i> , 2016, 215, 227-238.	4.8	80
118	Enhancing energy efficiency in supermarket refrigeration systems through a robust energy performance indicator. <i>International Journal of Refrigeration</i> , 2016, 64, 40-50.	1.8	24
119	Techno-economic assessment of the production of phthalic anhydride from corn stover. <i>Chemical Engineering Research and Design</i> , 2016, 107, 181-194.	2.7	29
120	A techno-economic analysis of post-combustion CO ₂ capture and compression applied to a combined cycle gas turbine: Part I. A parametric study of the key technical performance indicators. <i>International Journal of Greenhouse Gas Control</i> , 2016, 44, 26-41.	2.3	27
121	A review on hydrothermal pre-treatment technologies and environmental profiles of algal biomass processing. <i>Bioresource Technology</i> , 2016, 199, 288-299.	4.8	117
122	Lignocellulosic supply chain MILP model: a Hungarian case study. <i>Computer Aided Chemical Engineering</i> , 2016, , 253-258.	0.3	3
123	Renewable electricity integration at a regional level: Cantabria case study. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 211-216.	0.3	0
124	Enhancing Corporate Environmental Performance Through Reporting and Roadmaps. <i>Business Strategy and the Environment</i> , 2015, 24, 289-308.	8.5	34
125	Comparative studies of CO ₂ capture solvents for gas-fired power plants: Integrated modelling and pilot plant assessments. <i>International Journal of Greenhouse Gas Control</i> , 2015, 43, 124-132.	2.3	10
126	Thermo-Economic Assessment of a Olive Pomace Gasifier for Cogeneration Applications. <i>Energy Procedia</i> , 2015, 75, 252-258.	1.8	22

#	ARTICLE	IF	CITATIONS
127	Reframing the policy approach to greenhouse gas removal technologies. <i>Energy Policy</i> , 2015, 78, 125-136.	4.2	69
128	Supply chain network design and operation: Systematic decision-making for centralized, distributed, and mobile biofuel production using mixed integer linear programming (MILP) under uncertainty. <i>Biomass and Bioenergy</i> , 2015, 81, 401-414.	2.9	81
129	An approach to optimize multi-enterprise biofuel supply chains including Nash equilibrium models. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 2255-2260.	0.3	6
130	BVCM: A comprehensive and flexible toolkit for whole system biomass value chain analysis and optimisation – Mathematical formulation. <i>Applied Energy</i> , 2015, 147, 131-160.	5.1	65
131	An integrated process for biomass pyrolysis oil upgrading: A synergistic approach. <i>Biomass and Bioenergy</i> , 2015, 76, 108-117.	2.9	40
132	Integrated biorefineries: CO2 utilization for maximum biomass conversion. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 151-161.	8.2	49
133	The optimum is not enough: A near-optimal solution paradigm for energy systems synthesis. <i>Energy</i> , 2015, 82, 446-456.	4.5	81
134	H2FC SUPERGEN: An overview of the Hydrogen and Fuel Cell research across the UK. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5534-5543.	3.8	21
135	Thermo-economic Assessment of Small Scale Biomass CHP: Steam Turbines vs ORC in Different Energy Demand Segments. <i>Energy Procedia</i> , 2015, 75, 1609-1617.	1.8	23
136	Development of a life cycle assessment tool for the assessment of food production systems within the energy, water and food nexus. <i>Sustainable Production and Consumption</i> , 2015, 2, 52-66.	5.7	159
137	Nothing but NET: A review of norepinephrine transporter expression and efficacy of ¹³¹ I- α -mIBG therapy. <i>Pediatric Blood and Cancer</i> , 2015, 62, 5-11.	0.8	77
138	Metabolic characterization and modeling of fermentation process of an engineered <i>Geobacillus thermoglucosidasius</i> strain for bioethanol production with gas stripping. <i>Chemical Engineering Science</i> , 2015, 122, 138-149.	1.9	18
139	Development of a Life Cycle Assessment Model for the Analysis of the Energy, Water and Food Nexus. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 1039-1044.	0.3	6
140	CO2QUEST: Techno-economic Assessment of CO2 Quality Effect on Its Storage and Transport. <i>Energy Procedia</i> , 2014, 63, 2622-2629.	1.8	19
141	PBX1 Is a Favorable Prognostic Biomarker as It Modulates 13- <i>cis</i> Retinoic Acid-Mediated Differentiation in Neuroblastoma. <i>Clinical Cancer Research</i> , 2014, 20, 4400-4412.	3.2	22
142	Corporate reporting implication in migrating from defined benefit to defined contribution pension schemes: A focus on the UK. <i>Accounting Forum</i> , 2014, 38, 18-37.	1.7	19
143	ESCO business models for biomass heating and CHP: Profitability of ESCO operations in Italy and key factors assessment. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 30, 237-253.	8.2	60
144	Integration of biomass into urban energy systems for heat and power. Part I: An MILP based spatial optimization methodology. <i>Energy Conversion and Management</i> , 2014, 83, 347-361.	4.4	52

#	ARTICLE	IF	CITATIONS
145	Natural gas–biomass dual fuelled microturbines: Comparison of–operating strategies in the Italian residential sector. Applied Thermal Engineering, 2014, 71, 686-696.	3.0	56
146	Integration of biomass into urban energy systems for heat and power. Part II: Sensitivity assessment of main techno-economic factors. Energy Conversion and Management, 2014, 83, 362-376.	4.4	37
147	Workforce planning and technology installation optimisation for utilities. Computers and Industrial Engineering, 2014, 67, 72-81.	3.4	6
148	Modelling and optimization of retrofitting residential energy systems at the urban scale. Energy, 2014, 64, 220-233.	4.5	55
149	Carbon capture and storage update. Energy and Environmental Science, 2014, 7, 130-189.	15.6	1,765
150	Inexpensive ionic liquids: [HSO ₄] ⁻ -based solvent production at bulk scale. Green Chemistry, 2014, 16, 3098-3106.	4.6	309
151	A mixed integer nonlinear programming (MINLP) supply chain optimisation framework for carbon negative electricity generation using biomass to energy with CCS (BECCS) in the UK. International Journal of Greenhouse Gas Control, 2014, 28, 189-202.	2.3	51
152	Sustainable supply chain optimisation: An industrial case study. Computers and Industrial Engineering, 2014, 74, 68-83.	3.4	102
153	Fixed-flowrate total water network synthesis under uncertainty with risk management. Journal of Cleaner Production, 2014, 77, 79-93.	4.6	26
154	Optimization of Water Network Synthesis for Single-Site and Continuous Processes: Milestones, Challenges, and Future Directions. Industrial & Engineering Chemistry Research, 2014, 53, 10257-10275.	1.8	46
155	Dynamic modelling and analysis of a coal-fired power plant integrated with a novel split-flow configuration post-combustion CO ₂ capture process. International Journal of Greenhouse Gas Control, 2014, 27, 103-119.	2.3	39
156	Global sensitivity analysis and meta-modeling of an ethanol production process. Chemical Engineering Science, 2014, 114, 114-127.	1.9	31
157	Multi-period Least Cost Optimisation Model of an Integrated Carbon Dioxide Capture Transportation and Storage Infrastructure in the UK. Energy Procedia, 2014, 63, 2655-2662.	1.8	29
158	Optimisation of Post-combustion CO ₂ Capture for Flexible Operation. Energy Procedia, 2014, 63, 1525-1535.	1.8	37
159	The Effect of Market and Leasing Conditions on the Techno-economic Performance of Complex CO ₂ transport and storage value chains. Energy Procedia, 2014, 63, 7225-7233.	1.8	7
160	Estimating plug-in electric vehicle demand flexibility through an agent-based simulation model. , 2014, , .		13
161	The Good, the Bad, and Your Real Choices – Decision Support for Energy Systems Synthesis through Near-Optimal Solutions Analysis. Computer Aided Chemical Engineering, 2014, , 25-30.	0.3	1
162	Fair electricity transfer price and unit capacity selection for microgrids. Energy Economics, 2013, 36, 581-593.	5.6	47

#	ARTICLE	IF	CITATIONS
163	Identification of the cost-optimal degree of CO ₂ capture: An optimisation study using dynamic process models. <i>International Journal of Greenhouse Gas Control</i> , 2013, 13, 44-58.	2.3	81
164	Development and design of bio-pharmaceutical processes. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 435-441.	3.8	17
165	Diagnostic tools of energy performance for supermarkets using Artificial Neural Network algorithms. <i>Energy and Buildings</i> , 2013, 62, 304-314.	3.1	71
166	Metamodelling with independent and dependent inputs. <i>Computer Physics Communications</i> , 2013, 184, 1570-1580.	3.0	64
167	A risk management approach to the economic and environmental strategic design of ethanol supply chains. <i>Biomass and Bioenergy</i> , 2013, 58, 31-51.	2.9	74
168	Thermo-economic assessment of externally fired micro-gas turbine fired by natural gas and biomass: Applications in Italy. <i>Energy Conversion and Management</i> , 2013, 75, 202-213.	4.4	89
169	Dynamic modelling and analysis of an amine-based post-combustion CO ₂ capture absorption column. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 247-258.	2.3	89
170	Assessment of optimal size of anaerobic co-digestion plants: An application to cattle farms in the province of Bari (Italy). <i>Renewable and Sustainable Energy Reviews</i> , 2013, 20, 57-70.	8.2	86
171	Contrasting perspectives on China's rare earths policies: Reframing the debate through a stakeholder lens. <i>Energy Policy</i> , 2013, 63, 55-68.	4.2	63
172	Multiscale Design and Analysis of CO ₂ Capture, Transport and Storage Networks. <i>Energy Procedia</i> , 2013, 37, 2552-2561.	1.8	18
173	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
174	Anticoagulation Monitoring during Pediatric Extracorporeal Membrane Oxygenation. <i>ASAIO Journal</i> , 2013, 59, 63-68.	0.9	119
175	The Changing Role of Optimization in Urban Planning. <i>Springer Optimization and Its Applications</i> , 2013, , 175-193.	0.6	4
176	Spatial and temporal electric vehicle demand forecasting in central London. , 2013, , .		0
177	HOXB13 Mediates Tamoxifen Resistance and Invasiveness in Human Breast Cancer by Suppressing ER α and Inducing IL-6 Expression. <i>Cancer Research</i> , 2013, 73, 5449-5458.	0.4	80
178	Modelling spatial and temporal agent travel patterns for optimal charging of electric vehicles in low carbon networks. , 2012, , .		16
179	Design and Analysis of CO ₂ Capture, Transport, and Storage Networks. , 2012, , .		2
180	High-level techno-economic assessment of negative emissions technologies. <i>Chemical Engineering Research and Design</i> , 2012, 90, 501-510.	2.7	74

#	ARTICLE	IF	CITATIONS
181	An optimisation framework for a hybrid first/second generation bioethanol supply chain. Computers and Chemical Engineering, 2012, 42, 101-114.	2.0	112
182	A superstructure optimization approach for water network synthesis with membrane separation-based regenerators. Computers and Chemical Engineering, 2012, 42, 48-63.	2.0	49
183	Flexible operation of solvent regeneration systems for CO2 capture processes using advanced control techniques: Towards operational cost minimisation. International Journal of Greenhouse Gas Control, 2012, 11, 236-250.	2.3	75
184	Food supply chain planning and quality optimization approach.. Computer Aided Chemical Engineering, 2012, 30, 1172-1176.	0.3	0
185	An optimization of the food quality products throughout the supply chain. Computer Aided Chemical Engineering, 2012, 31, 1025-1029.	0.3	0
186	Multiechelon supply chain planning with sequence-dependent changeovers and price elasticity of demand under uncertainty. AIChE Journal, 2012, 58, 3390-3403.	1.8	15
187	Dutch hydrogen economy: evolution of optimal supply infrastructure and evaluation of key influencing elements. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 534-546.	0.8	7
188	Design and operation of a stochastic hydrogen supply chain network under demand uncertainty. International Journal of Hydrogen Energy, 2012, 37, 3965-3977.	3.8	126
189	Solar-assisted Post-combustion Carbon Capture feasibility study. Applied Energy, 2012, 92, 668-676.	5.1	100
190	The impact of CHP (combined heat and power) planning restrictions on the efficiency of urban energy systems. Energy, 2012, 41, 93-103.	4.5	93
191	Evaluating biomass energy strategies for a UK eco-town with an MILP optimization model. Biomass and Bioenergy, 2012, 39, 306-316.	2.9	49
192	Economic optimisation of a UK advanced biofuel supply chain. Biomass and Bioenergy, 2012, 41, 57-72.	2.9	107
193	A comprehensive approach to the design of ethanol supply chains including carbon trading effects. Bioresource Technology, 2012, 107, 175-185.	4.8	121
194	Optimisation of petroleum refinery water network systems retrofit incorporating reuse, regeneration and recycle strategies. Canadian Journal of Chemical Engineering, 2012, 90, 137-143.	0.9	14
195	Optimal water network synthesis with detailed membrane-based regenerator models. Computer Aided Chemical Engineering, 2012, , 1457-1461.	0.3	1
196	Optimal water network synthesis with membrane separation-based regenerators. Computer Aided Chemical Engineering, 2012, 30, 36-40.	0.3	0
197	Multi-scale process and supply chain modelling: from lignocellulosic feedstock to process and products. Interface Focus, 2011, 1, 255-262.	1.5	20
198	A Superstructure Optimization Approach for Membrane Separation-Based Water Regeneration Network Synthesis with Detailed Nonlinear Mechanistic Reverse Osmosis Model. Industrial & Engineering Chemistry Research, 2011, 50, 13444-13456.	1.8	42

#	ARTICLE	IF	CITATIONS
199	Optimization-Based Approaches for Bioethanol Supply Chains. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 4927-4938.	1.8	102
200	Extensive and coordinated transcription of noncoding RNAs within cell-cycle promoters. <i>Nature Genetics</i> , 2011, 43, 621-629.	9.4	1,080
201	Optimal charging strategies of electric vehicles in the UK power market. , 2011, , .		44
202	Robust optimisation methodology for the process synthesis of continuous technologies. <i>Computer Aided Chemical Engineering</i> , 2011, , 351-355.	0.3	6
203	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
204	Plant-wide optimisation and control of a multi-scale pharmaceutical process. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 713-717.	0.3	2
205	Complex Network Optimization in FMCG. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 890-894.	0.3	0
206	Multiscale whole-systems design and analysis of CO2 capture and transport networks. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1205-1209.	0.3	8
207	Multiscale Modeling of Biorefineries. <i>Computer Aided Chemical Engineering</i> , 2011, , 1688-1692.	0.3	2
208	Optimal integration strategies for a syngas fuelled SOFC and gas turbine hybrid. <i>Journal of Power Sources</i> , 2011, 196, 9516-9527.	4.0	85
209	Calculating minimum energy urban layouts with mathematical programming and Monte Carlo analysis techniques. <i>Computers, Environment and Urban Systems</i> , 2011, 35, 368-377.	3.3	28
210	Discrete and continuous time representations and mathematical models for large production scheduling problems: A case study from the pharmaceutical industry. <i>European Journal of Operational Research</i> , 2011, 215, 383-392.	3.5	63
211	Comparison between two optimization strategies for solid oxide fuel cell-gas turbine hybrid cycles. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10235-10246.	3.8	33
212	Modelling enzymatic hydrolysis of cellulose part I: Population balance modelling of hydrolysis by endoglucanase. <i>Biomass and Bioenergy</i> , 2011, 35, 3841-3848.	2.9	25
213	Enzymatic hydrolysis of cellulose part II: Population balance modelling of hydrolysis by exoglucanase and universal kinetic model. <i>Biomass and Bioenergy</i> , 2011, 35, 3830-3840.	2.9	17
214	Global supply chain planning for pharmaceuticals. <i>Chemical Engineering Research and Design</i> , 2011, 89, 2396-2409.	2.7	89
215	Biofuels carbon footprints: Whole-systems optimisation for GHG emissions reduction. <i>Bioresource Technology</i> , 2011, 102, 7457-7465.	4.8	37
216	An assessment of options for CO2 removal from the atmosphere. <i>Energy Procedia</i> , 2011, 4, 2877-2884.	1.8	8

#	ARTICLE	IF	CITATIONS
217	Optimisation based design of a district energy system for an eco-town in the United Kingdom. Energy, 2011, 36, 1292-1308.	4.5	198
218	Optimal transition towards a large-scale hydrogen infrastructure for the transport sector: The case for the Netherlands. International Journal of Hydrogen Energy, 2011, 36, 4619-4635.	3.8	80
219	The identification of model effective dimensions using global sensitivity analysis. Reliability Engineering and System Safety, 2011, 96, 440-449.	5.1	107
220	A superstructure optimization approach for optimal refinery water network systems synthesis with membrane-based regenerators. Computer Aided Chemical Engineering, 2011, 29, 361-365.	0.3	2
221	Optimal Design of Petroleum Refinery Topology using a Discrete Optimization Approach with Logical Constraints. Journal of Applied Sciences, 2011, 11, 3571-3578.	0.1	6
222	Whole-system Optimisation for Carbon Footprints Reduction of Corn Bioethanol. , 2011, , .		0
223	The Development and Application of a Novel Optimisation Strategy for Solid Oxide Fuel Cell Gas Turbine Hybrid Cycles. Fuel Cells, 2010, 10, 181-193.	1.5	4
224	Performance analysis of integrated biomass gasification fuel cell (BGFC) and biomass gasification combined cycle (BGCC) systems. Chemical Engineering Science, 2010, 65, 1942-1954.	1.9	63
225	Quasi-random-sampling high dimensional model representations for the construction of reduced discrete time state space dynamic models. Procedia, Social and Behavioral Sciences, 2010, 2, 7696-7697.	0.5	0
226	Long non-coding RNA HOTAIR reprograms chromatin state to promote cancer metastasis. Nature, 2010, 464, 1071-1076.	13.7	4,648
227	The Hox genes and their roles in oncogenesis. Nature Reviews Cancer, 2010, 10, 361-371.	12.8	685
228	Techno-economical tradeoffs from embedded technologies with storage capabilities on electric and gas distribution networks. , 2010, , .		6
229	An overview of CO2 capture technologies. Energy and Environmental Science, 2010, 3, 1645.	15.6	1,376
230	Multiscale Modeling of Hydrothermal Pretreatment: From Hemicellulose Hydrolysis to Biomass Size Optimization. Energy & Fuels, 2010, 24, 4673-4680.	2.5	19
231	Energy Integration and Analysis of Solid Oxide Fuel Cell Based Microcombined Heat and Power Systems and Other Renewable Systems Using Biomass Waste Derived Syngas. Industrial & Engineering Chemistry Research, 2010, 49, 11506-11516.	1.8	25
232	Effects of optimised plug-in hybrid vehicle charging strategies on electric distribution network losses. , 2010, , .		106
233	Heat and mass transfer in a horizontal pipe absorber for a heat transformer. Desalination and Water Treatment, 2009, 10, 238-244.	1.0	3
234	Supply Chain Optimization for Bioethanol Production System in Northern Italy: Environmentally Conscious Strategic Design. Computer Aided Chemical Engineering, 2009, 27, 2037-2042.	0.3	3

#	ARTICLE	IF	CITATIONS
235	The greenhouse gas emissions performance of cellulosic ethanol supply chains in Europe. <i>Biotechnology for Biofuels</i> , 2009, 2, 15.	6.2	43
236	The commercial performance of cellulosic ethanol supply-chains in Europe. <i>Biotechnology for Biofuels</i> , 2009, 2, 3.	6.2	30
237	Design and operation of a future hydrogen supply chain: Multi-period model. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7883-7897.	3.8	406
238	Monte Carlo evaluation of derivative-based global sensitivity measures. <i>Reliability Engineering and System Safety</i> , 2009, 94, 1135-1148.	5.1	213
239	Multiscale modelling of biomass pretreatment for biofuels production. <i>Chemical Engineering Research and Design</i> , 2009, 87, 1251-1260.	2.7	25
240	Multiscale modelling of hydrothermal biomass pretreatment for chip size optimization. <i>Bioresource Technology</i> , 2009, 100, 2621-2628.	4.8	42
241	Heat Integration Strategy for Economic Production of Combined Heat and Power from Biomass Waste. <i>Energy & Fuels</i> , 2009, 23, 5106-5120.	2.5	35
242	Impacts of plug-in hybrid vehicles and combined heat and power technologies on electric and gas distribution network losses. , 2009, , .		10
243	Spatially Explicit Static Model for the Strategic Design of Future Bioethanol Production Systems. 1. Cost Minimization. <i>Energy & Fuels</i> , 2009, 23, 5121-5133.	2.5	135
244	Spatially Explicit Static Model for the Strategic Design of Future Bioethanol Production Systems. 2. Multi-Objective Environmental Optimization. <i>Energy & Fuels</i> , 2009, 23, 5134-5143.	2.5	158
245	Procedure for reducing the risk of delayed deliveries in make-to-order production. <i>Production Planning and Control</i> , 2009, 20, 332-342.	5.8	16
246	Comparison of Monte Carlo and Quasi Monte Carlo Sampling Methods in High Dimensional Model Representation. , 2009, , .		29
247	Modelling and Control of the Variable Channel Reactor. <i>Computer Aided Chemical Engineering</i> , 2009, , 1263-1268.	0.3	0
248	A spatially explicit whole-system model of the lignocellulosic bioethanol supply chain: an assessment of decentralised processing potential. <i>Biotechnology for Biofuels</i> , 2008, 1, 13.	6.2	110
249	Supply chain design and multilevel planning—An industrial case. <i>Computers and Chemical Engineering</i> , 2008, 32, 2643-2663.	2.0	59
250	Optimization of vendor-managed inventory systems in a rolling horizon framework. <i>Computers and Industrial Engineering</i> , 2008, 54, 1019-1047.	3.4	36
251	Generic modelling and simulation of stock levels in supply chains. <i>Computer Aided Chemical Engineering</i> , 2007, 24, 775-780.	0.3	0
252	Optimal experimental design based on global sensitivity analysis. <i>Computer Aided Chemical Engineering</i> , 2007, , 63-68.	0.3	18

#	ARTICLE	IF	CITATIONS
253	Logistical network design with robustness and complexity considerations. <i>International Journal of Physical Distribution and Logistics Management</i> , 2007, 37, 201-222.	4.4	135
254	Bagasse Fibre for Sustainable Manufacturing. <i>Journal of Biobased Materials and Bioenergy</i> , 2007, 1, 289-300.	0.1	3
255	Capacity Investment Planning for Multiple Vaccines Under Uncertainty. <i>Food and Bioproducts Processing</i> , 2007, 85, 120-128.	1.8	17
256	Capacity Investment Planning for Multiple Vaccines Under Uncertainty. <i>Food and Bioproducts Processing</i> , 2007, 85, 129-140.	1.8	15
257	Biomass to Heat Supply Chains. <i>Chemical Engineering Research and Design</i> , 2007, 85, 419-429.	2.7	78
258	Prospects for Bioenergy. <i>Journal of Biobased Materials and Bioenergy</i> , 2007, 1, 1-18.	0.1	17
259	Design and Operation of a Future Hydrogen Supply Chain. <i>Chemical Engineering Research and Design</i> , 2006, 84, 423-438.	2.7	165
260	Object-oriented dynamic supply-chain modelling incorporated with production scheduling. <i>European Journal of Operational Research</i> , 2006, 169, 1064-1076.	3.5	61
261	Modelling and Planning Optimization of a Complex Flu Vaccine Facility. <i>Food and Bioproducts Processing</i> , 2006, 84, 123-134.	1.8	4
262	Multiscale planning and scheduling in the secondary pharmaceutical industry. <i>AIChE Journal</i> , 2006, 52, 4133-4149.	1.8	31
263	Integration of multi-scale planning and scheduling problems. <i>Computer Aided Chemical Engineering</i> , 2006, 21, 2111-2116.	0.3	2
264	Multi-period capacitated lot sizing with variable batch sizes. <i>Computer Aided Chemical Engineering</i> , 2006, , 1949-1954.	0.3	2
265	Controller reduction for linear parameter-varying systems with a priori bounds. <i>Automatica</i> , 2005, 41, 273-279.	3.0	9
266	Process industry supply chains: Advances and challenges. <i>Computers and Chemical Engineering</i> , 2005, 29, 1225-1235.	2.0	293
267	A hybrid MILP/CLP algorithm for multipurpose batch process scheduling. <i>Computers and Chemical Engineering</i> , 2005, 29, 1277-1291.	2.0	51
268	Special Issue "7th World Congress of Chemical Engineering. <i>Chemical Engineering Research and Design</i> , 2005, 83, 559-560.	2.7	1
269	Global supply chain network optimisation for pharmaceuticals. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 1189-1194.	0.3	27
270	Optimisation of policy parameters in supply chain applications. <i>International Journal of Logistics Research and Applications</i> , 2005, 8, 15-36.	5.6	6

#	ARTICLE	IF	CITATIONS
271	Multi-scale planning and scheduling in the pharmaceutical industry. Computer Aided Chemical Engineering, 2005, , 1003-1008.	0.3	1
272	Pharmaceutical supply chains: key issues and strategies for optimisation. Computers and Chemical Engineering, 2004, 28, 929-941.	2.0	325
273	Process industry supply chains: Advances and challenges. Computer Aided Chemical Engineering, 2004, , 123-138.	0.3	16
274	A flexible and generic approach to dynamic modelling of supply chains. Journal of the Operational Research Society, 2004, 55, 801-813.	2.1	28
275	A hybrid formulation for multipurpose batch process scheduling. Computer Aided Chemical Engineering, 2004, , 985-990.	0.3	1
276	Capacity Planning Under Uncertainty for the Pharmaceutical Industry. Chemical Engineering Research and Design, 2003, 81, 665-678.	2.7	89
277	A hybrid CLP and MILP approach to batch process scheduling. Computer Aided Chemical Engineering, 2003, 15, 582-587.	0.3	1
278	Modelling Multi-site Production to Optimise Customer Orders. Computer Aided Chemical Engineering, 2002, , 661-666.	0.3	2
279	Quantitative framework for reliable safety analysis. AIChE Journal, 2002, 48, 78-96.	1.8	27
280	Hybrid framework for hazard identification and assessment in batch processes. AIChE Journal, 2002, 48, 1765-1774.	1.8	5
281	Fair transfer price and inventory holding policies in two-enterprise supply chains. European Journal of Operational Research, 2002, 143, 582-599.	3.5	84
282	Strategic Supply Chain Optimization for the Pharmaceutical Industries. Industrial & Engineering Chemistry Research, 2001, 40, 275-286.	1.8	172
283	Design of Multi-echelon Supply Chain Networks under Demand Uncertainty. Industrial & Engineering Chemistry Research, 2001, 40, 3585-3604.	1.8	412
284	A combined optimization and agent-based approach to supply chain modelling and performance assessment. Production Planning and Control, 2001, 12, 81-88.	5.8	138
285	Transfer Prices for Multienterprise Supply Chain Optimization. Industrial & Engineering Chemistry Research, 2001, 40, 1650-1660.	1.8	90
286	Capacity planning under clinical trials uncertainty for the pharmaceutical industry. Computer Aided Chemical Engineering, 2001, , 865-870.	0.3	4
287	Preprocessing rules for integer programming solutions to the generalised assignment problem. Journal of the Operational Research Society, 2001, 52, 567-575.	2.1	2
288	Operational envelopes for batch processes. AIChE Journal, 2001, 47, 2277-2288.	1.8	16

#	ARTICLE	IF	CITATIONS
289	Integer-programming based algorithms and computational performance for terminal-drop zone assignment problems. <i>Computer Aided Chemical Engineering</i> , 2000, , 613-618.	0.3	0
290	Abstract design in the development of pharmaceutical processes. <i>Computer Aided Chemical Engineering</i> , 2000, 8, 685-690.	0.3	1
291	Integration in hierarchical structures for batch process operations. <i>Computers and Chemical Engineering</i> , 2000, 24, 1159-1165.	2.0	1
292	A hybrid strategy for batch process hazards analysis. <i>Computers and Chemical Engineering</i> , 2000, 24, 545-549.	2.0	9
293	An investigation on integration of aggregate production planning, master production scheduling and short-term production scheduling of batch process operations through a common data model. <i>Computers and Chemical Engineering</i> , 2000, 24, 1625-1631.	2.0	28
294	Short term product distribution plan for multisite batch production, warehousing and distribution operations: solutions through Supply-Demand Network and Resource-Task Network optimisation approaches. <i>Computer Aided Chemical Engineering</i> , 2000, 8, 1171-1176.	0.3	0
295	Model-based safety verification under uncertainty. <i>Computer Aided Chemical Engineering</i> , 2000, , 793-798.	0.3	0
296	Design of integrated batch processes with discrete and continuous equipment sizes. <i>Computers and Chemical Engineering</i> , 1999, 23, S117-S120.	2.0	3
297	A decomposition algorithm for the optimisation of hybrid dynamic processes. <i>Computers and Chemical Engineering</i> , 1999, 23, S451-S454.	2.0	16
298	Integrated decision support in flexible multipurpose plants. <i>Computers and Chemical Engineering</i> , 1999, 23, S547-S550.	2.0	5
299	A product portfolio approach in the pharmaceutical industry. <i>Computers and Chemical Engineering</i> , 1999, 23, S883-S886.	2.0	36
300	Batch process design and operation using operational envelopes. <i>Computers and Chemical Engineering</i> , 1999, 23, S887-S890.	2.0	3
301	Special Topic Issueâ€”Process Design. <i>Chemical Engineering Research and Design</i> , 1998, 76, 655.	2.7	1
302	Safety verification using a hybrid knowledge-based mathematical programming framework. <i>AIChE Journal</i> , 1998, 44, 361-371.	1.8	13
303	Robustness metrics for dynamic optimization models under parameter uncertainty. <i>AIChE Journal</i> , 1998, 44, 1993-2006.	1.8	63
304	On the design of multicomponent batch distillation columns. <i>Computers and Chemical Engineering</i> , 1998, 22, S69-S76.	2.0	32
305	Robust optimal fermentation operating policies. <i>Computers and Chemical Engineering</i> , 1998, 22, S167-S174.	2.0	9
306	Modelling and optimisation of general hybrid systems in the continuous time domain. <i>Computers and Chemical Engineering</i> , 1998, 22, S221-S228.	2.0	75

#	ARTICLE	IF	CITATIONS
307	Analysis and design of paint manufacturing processes. Computers and Chemical Engineering, 1998, 22, S279-S282.	2.0	4
308	Improving the efficiency of discrete time scheduling formulation. Computers and Chemical Engineering, 1998, 22, S403-S410.	2.0	46
309	Efficient modelling of partial resource equivalence in resource-task networks. Computers and Chemical Engineering, 1998, 22, S563-S570.	2.0	8
310	Off-line scheduling a simple chemical batch process production plan using the ILOG scheduler. Computers and Chemical Engineering, 1998, 22, S947-S950.	2.0	8
311	Short-term scheduling of pipeless batch plants. Chemical Engineering Research and Design, 1997, 75, S156-S169.	2.7	10
312	Integrating knowledge-based and mathematical programming approaches for process safety verification. Computers and Chemical Engineering, 1997, 21, S905-S910.	2.0	12
313	Modeling and safety verification of discrete/continuous processing systems. AIChE Journal, 1997, 43, 1041-1059.	1.8	38
314	Process Concept Studio: An Experiment in Academic/Industrial Collaboration. Computers and Chemical Engineering, 1997, 21, S319-S324.	2.0	2
315	RTN-based Rolling Horizon Algorithms for Medium Term Scheduling of Multipurpose Plants. Computers and Chemical Engineering, 1997, 21, S1061-S1066.	2.0	58
316	Integrating Knowledge-Based and Mathematical Programming Approaches for Process Safety Verification. Computers and Chemical Engineering, 1997, 21, S905-S910.	2.0	1
317	An Optimization Based Design Procedure for Biochemical Processes. Food and Bioprocess Technology, 1996, 74, 232-242.	1.8	9
318	An Optimization Based Design Procedure for Biochemical Processes. Food and Bioprocess Technology, 1996, 74, 221-231.	1.8	5
319	Simultaneous design, layout and scheduling of pipeless batch plants. Computers and Chemical Engineering, 1996, 20, 869-883.	2.0	41
320	Heat exchanger network design for multipurpose batch plants. Computers and Chemical Engineering, 1996, 20, 989-1001.	2.0	46
321	Optimal energy integration in batch antibiotics manufacture. Computers and Chemical Engineering, 1996, 20, S31-S36.	2.0	16
322	Optimal integrated design of biochemical processes. Computers and Chemical Engineering, 1996, 20, S315-S320.	2.0	7
323	A case study in hybrid process safety verification. Computers and Chemical Engineering, 1996, 20, S503-S508.	2.0	21
324	Mathematical programming techniques for crude oil scheduling. Computers and Chemical Engineering, 1996, 20, S1227-S1232.	2.0	175

#	ARTICLE	IF	CITATIONS
325	Integrated batch plant design: A polymer plant case study. Computers and Chemical Engineering, 1996, 20, S1233-S1238.	2.0	9
326	Optimisation of oilfield exploitation under uncertainty. Computers and Chemical Engineering, 1996, 20, S1251-S1256.	2.0	10
327	Integrated production and distribution scheduling on a Europe-wide basis. Computers and Chemical Engineering, 1996, 20, S1275-S1280.	2.0	53
328	Optimal design of hybrid controllers for hybrid process systems. Lecture Notes in Computer Science, 1996, , 244-257.	1.0	4
329	Optimal design of continuous sterilisation networks. Computers and Chemical Engineering, 1995, 19, 95-100.	2.0	3
330	Synthesis of batch reaction/distillation processes using detailed dynamic models. Computers and Chemical Engineering, 1995, 19, 167-174.	2.0	7
331	Aggregate modelling of multipurpose plant operation. Computers and Chemical Engineering, 1995, 19, 583-588.	2.0	21
332	Preventive maintenance policy optimization for multipurpose plant equipment. Computers and Chemical Engineering, 1995, 19, 693-698.	2.0	18
333	User interfaces for mathematical programming based multipurpose plant optimisation systems. Computers and Chemical Engineering, 1995, 19, 765-772.	2.0	4
334	Optimal Short-Term Scheduling of Maintenance and Production for Multipurpose Plants. Industrial & Engineering Chemistry Research, 1995, 34, 192-201.	1.8	44
335	User interfaces for mathematical programming based multipurpose plant optimisation systems. Computers and Chemical Engineering, 1995, 19, S765-S772.	2.0	6
336	Aggregate modelling of multipurpose plant operation. Computers and Chemical Engineering, 1995, 19, S583-S588.	2.0	30
337	Preventive maintenance policy optimisation for multipurpose plant equipment. Computers and Chemical Engineering, 1995, 19, S693-S698.	2.0	9
338	Synthesis of batch reaction/distillation processes using detailed dynamic models. Computers and Chemical Engineering, 1995, 19, S167-S174.	2.0	4
339	Optimal Design of Continuous Sterilisation Networks. Computers and Chemical Engineering, 1995, 19, S95-S100.	2.0	0
340	Optimal Scheduling of Heat-Integrated Multipurpose Plants. Industrial & Engineering Chemistry Research, 1994, 33, 3168-3186.	1.8	68
341	A general algorithm for short-term scheduling of batch operationsâ€™II. Computational issues. Computers and Chemical Engineering, 1993, 17, 229-244.	2.0	305
342	Optimal periodic scheduling of multipurpose batch plants. Annals of Operations Research, 1993, 42, 193-228.	2.6	87

#	ARTICLE	IF	CITATIONS
343	Production planning for the rational use of energy in multiproduct continuous plants. Computers and Chemical Engineering, 1993, 17, S123-S128.	2.0	46
344	Design of multipurpose batch plants with uncertain production requirements. Industrial & Engineering Chemistry Research, 1992, 31, 1325-1337.	1.8	64
345	Optimal long-term campaign planning and design of batch operations. Industrial & Engineering Chemistry Research, 1991, 30, 2308-2321.	1.8	41
346	Production Scheduling. , 0, , 481-516.		1
347	Urban Energy System Planning and Chinese Low-Carbon Eco-City Case Study. Advanced Materials Research, 0, 433-440, 1338-1345.	0.3	1
348	The Logistics of Bioenergy Routes for Heat and Power. , 0, , .		1
349	Scheduling of multistage fast-moving consumer goods plants. Journal of the Operational Research Society, 0, 48, 1201-1214.	2.1	1