

# Iftekhar Karimi

## List of Publications by Year in descending order

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301  
papers

9,507  
citations

29994

54  
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60497

81  
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311  
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311  
docs citations

311  
times ranked

5592  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Clathrate Hydrate Based Desalination To Strengthen Energy-Water Nexus. ACS Sustainable Chemistry and Engineering, 2018, 6, 8093-8107.	3.2	275
2	LNG cold energy utilization: Prospects and challenges. Energy, 2019, 170, 557-568.	4.5	236
3	Design of computer experiments: A review. Computers and Chemical Engineering, 2017, 106, 71-95.	2.0	215
4	CO <sub>2</sub> capture from dry flue gas by vacuum swing adsorption: A pilot plant study. AIChE Journal, 2014, 60, 1830-1842.	1.8	201
5	Multiobjective Optimization of a Four-Step Adsorption Process for Postcombustion CO <sub>2</sub> Capture Via Finite Volume Simulation. Industrial & Engineering Chemistry Research, 2013, 52, 4249-4265.	1.8	192
6	Agent-based supply chain management <sup>1</sup> : framework. Computers and Chemical Engineering, 2002, 26, 1755-1769.	2.0	182
7	A simpler better slot-based continuous-time formulation for short-term scheduling in multipurpose batch plants. Chemical Engineering Science, 2005, 60, 2679-2702.	1.9	170
8	Planning and Scheduling of Parallel Semicontinuous Processes. 1. Production Planning. Industrial & Engineering Chemistry Research, 1997, 36, 2691-2700.	1.8	150
9	Planning and Scheduling of Parallel Semicontinuous Processes. 2. Short-Term Scheduling. Industrial & Engineering Chemistry Research, 1997, 36, 2701-2714.	1.8	141
10	Review on the design and optimization of natural gas liquefaction processes for onshore and offshore applications. Chemical Engineering Research and Design, 2018, 132, 89-114.	2.7	138
11	A novel conceptual design of hydrate based desalination (HyDesal) process by utilizing LNG cold energy. Applied Energy, 2018, 222, 13-24.	5.1	131
12	Cycle synthesis and optimization of a VSA process for postcombustion CO <sub>2</sub> capture. AIChE Journal, 2013, 59, 4735-4748.	1.8	125
13	Piecewise MILP under- and overestimators for global optimization of bilinear programs. AIChE Journal, 2008, 54, 991-1008.	1.8	122
14	A new continuous-time formulation for scheduling crude oil operations. Chemical Engineering Science, 2004, 59, 1325-1341.	1.9	120
15	An Improved MILP Formulation for Scheduling Multiproduct, Multistage Batch Plants. Industrial & Engineering Chemistry Research, 2003, 42, 2365-2380.	1.8	112
16	Agent-based supply chain management <sup>2</sup> : a refinery application. Computers and Chemical Engineering, 2002, 26, 1771-1781.	2.0	111
17	Novel solution approach for optimizing crude oil operations. AIChE Journal, 2004, 50, 1177-1197.	1.8	111
18	Retrospective and future perspective of natural gas liquefaction and optimization technologies contributing to efficient LNG supply: A review. Journal of Natural Gas Science and Engineering, 2017, 45, 165-188.	2.1	104

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19	Evolution and optimization of the dual mixed refrigerant process of natural gas liquefaction. Applied Thermal Engineering, 2016, 96, 320-329.	3.0	98
20	Operational modeling of multistream heat exchangers with phase changes. AIChE Journal, 2009, 55, 150-171.	1.8	97
21	Integrated supply chain planning for multinational pharmaceutical enterprises. Computers and Chemical Engineering, 2012, 42, 168-177.	2.0	93
22	Evaluation of utilization alternatives for stranded natural gas. Energy, 2012, 40, 317-328.	4.5	90
23	Gas turbine performance prediction via machine learning. Energy, 2020, 192, 116627.	4.5	90
24	Long-term optimal energy mix planning towards high energy security and low GHG emission. Applied Energy, 2015, 154, 959-969.	5.1	87
25	Genome-scale modeling and in silico analysis of ethanogenic bacteria <i>Zymomonas mobilis</i> . Biotechnology and Bioengineering, 2011, 108, 655-665.	1.7	86
26	Economic evaluation of energy efficient hydrate based desalination utilizing cold energy from liquefied natural gas (LNG). Desalination, 2019, 463, 69-80.	4.0	86
27	Minimizing Boil-Off Losses in Liquefied Natural Gas Transportation. Industrial & Engineering Chemistry Research, 2009, 48, 9571-9580.	1.8	85
28	Heat exchanger network synthesis using a stagewise superstructure with non-isothermal mixing. Chemical Engineering Science, 2012, 73, 30-43.	1.9	85
29	Preliminary design of multiproduct noncontinuous plants using simulated annealing. Computers and Chemical Engineering, 1991, 15, 451-469.	2.0	82
30	Improving the robustness and efficiency of crude scheduling algorithms. AIChE Journal, 2007, 53, 2659-2680.	1.8	78
31	Cascade utilization of LNG cold energy by integrating cryogenic energy storage, organic Rankine cycle and direct cooling. Applied Energy, 2020, 277, 115570.	5.1	75
32	Scheduling in serial multiproduct batch processes with finite interstage storage: mixed integer linear program formulation. Industrial & Engineering Chemistry Research, 1988, 27, 1840-1848.	1.8	74
33	An evaluation of simulated annealing for batch process scheduling. Industrial & Engineering Chemistry Research, 1991, 30, 163-169.	1.8	74
34	Energy penalty estimates for CO <sub>2</sub> capture: Comparison between fuel types and capture-combustion modes. Energy, 2016, 103, 709-714.	4.5	74
35	Simulating combined cycle gas turbine power plants in Aspen HYSYS. Energy Conversion and Management, 2018, 171, 1213-1225.	4.4	74
36	A CFD simulation study of boiling mechanism and BOG generation in a full-scale LNG storage tank. Computers and Chemical Engineering, 2018, 115, 112-120.	2.0	72

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37	Decision support for integrated refinery supply chains. <i>Computers and Chemical Engineering</i> , 2008, 32, 2767-2786.	2.0	70
38	Genome-scale modeling and in silico analysis of mouse cell metabolic network. <i>Molecular BioSystems</i> , 2009, 6, 152-161.	2.9	70
39	A novel conceptual design of parallel nitrogen expansion liquefaction process for small-scale LNG (liquefied natural gas) plant in skid-mount packages. <i>Energy</i> , 2014, 75, 349-359.	4.5	69
40	Fast biodegradation of long chain n-alkanes and crude oil at high concentrations with <i>Rhodococcus</i> sp. Moj-3449. <i>Enzyme and Microbial Technology</i> , 2009, 45, 195-202.	1.6	68
41	Modeling and Experimental Validation of Electrochemical Reduction of CO <sub>2</sub> to CO in a Microfluidic Cell. <i>Journal of the Electrochemical Society</i> , 2015, 162, F23-F32.	1.3	68
42	Improving the logistics of multi-compartment chemical tankers. <i>Computers and Chemical Engineering</i> , 2004, 28, 1267-1283.	2.0	67
43	A novel approach to scheduling multipurpose batch plants using unit slots. <i>AIChE Journal</i> , 2010, 56, 1859-1879.	1.8	67
44	Energy and cost estimates for capturing CO <sub>2</sub> from a dry flue gas using pressure/vacuum swing adsorption. <i>Chemical Engineering Research and Design</i> , 2015, 102, 354-367.	2.7	67
45	Scheduling multistage, multiproduct batch plants with nonidentical parallel units and unlimited intermediate storage. <i>Chemical Engineering Science</i> , 2007, 62, 1549-1566.	1.9	64
46	Piecewise linear relaxation of bilinear programs using bivariate partitioning. <i>AIChE Journal</i> , 2010, 56, 1880-1893.	1.8	64
47	Smart Sampling Algorithm for Surrogate Model Development. <i>Computers and Chemical Engineering</i> , 2017, 96, 103-114.	2.0	63
48	A model-based rescheduling framework for managing abnormal supply chain events. <i>Computers and Chemical Engineering</i> , 2007, 31, 496-518.	2.0	62
49	Scheduling multistage batch plants with parallel units and no interstage storage. <i>Computers and Chemical Engineering</i> , 2008, 32, 671-693.	2.0	62
50	New operating strategy for a combined cycle gas turbine power plant. <i>Energy Conversion and Management</i> , 2018, 171, 1675-1684.	4.4	62
51	Simultaneous synthesis approaches for cost-effective heat exchanger networks. <i>Chemical Engineering Science</i> , 2013, 98, 231-245.	1.9	61
52	Preliminary synthesis of work exchange networks. <i>Computers and Chemical Engineering</i> , 2012, 37, 262-277.	2.0	59
53	Process Synthesis and Optimization of Propylene/Propane Separation Using Vapor Recompression and Self-Heat Recuperation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 14557-14564.	1.8	59
54	Design of multiproduct batch processes with finite intermediate storage. <i>Computers and Chemical Engineering</i> , 1989, 13, 127-139.	2.0	56

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55	Metabolic processes of <i>Methanococcus maripaludis</i> and potential applications. <i>Microbial Cell Factories</i> , 2016, 15, 107.	1.9	55
56	Regulatory Factors and Capacity-Expansion Planning in Global Chemical Supply Chains. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 3364-3380.	1.8	53
57	Optimal producer well placement and production planning in an oil reservoir. <i>Computers and Chemical Engineering</i> , 2013, 55, 109-125.	2.0	53
58	Characterizing <i>Escherichia coli</i> DH5 $\alpha$ growth and metabolism in a complex medium using genome-scale flux analysis. <i>Biotechnology and Bioengineering</i> , 2009, 102, 923-934.	1.7	51
59	Scheduling Gasoline Blending Operations from Recipe Determination to Shipping Using Unit Slots. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 9156-9174.	1.8	51
60	Scheduling Parallel Production Lines with Resource Constraints. 1. Model Formulation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 779-789.	1.8	49
61	Heuristic rescheduling of crude oil operations to manage abnormal supply chain events. <i>AIChE Journal</i> , 2007, 53, 397-422.	1.8	48
62	Supply chain risk identification using a HAZOP-based approach. <i>AIChE Journal</i> , 2009, 55, 1447-1463.	1.8	48
63	A novel inlet air cooling system based on liquefied natural gas cold energy utilization for improving power plant performance. <i>Energy Conversion and Management</i> , 2019, 187, 41-52.	4.4	48
64	Decision support for integrated refinery supply chains. <i>Computers and Chemical Engineering</i> , 2008, 32, 2787-2800.	2.0	47
65	A genome-scale metabolic model of <i>Methanococcus maripaludis</i> S2 for CO <sub>2</sub> capture and conversion to methane. <i>Molecular BioSystems</i> , 2014, 10, 1043-1054.	2.9	47
66	In silico modeling and evaluation of <i>Gordonia alkanivorans</i> for biodesulfurization. <i>Molecular BioSystems</i> , 2013, 9, 2530.	2.9	45
67	Efficient algorithm for simultaneous synthesis of heat exchanger networks. <i>Chemical Engineering Science</i> , 2014, 105, 53-68.	1.9	45
68	Effects of cooling and heating sources properties and working fluid selection on cryogenic organic Rankine cycle for LNG cold energy utilization. <i>Energy Conversion and Management</i> , 2021, 247, 114706.	4.4	45
69	CO <sub>2</sub> capture in cation-exchanged metal-organic frameworks: Holistic modeling from molecular simulation to process optimization. <i>Chemical Engineering Science</i> , 2015, 124, 70-78.	1.9	44
70	Dual-effect single-mixed refrigeration cycle: An innovative alternative process for energy-efficient and cost-effective natural gas liquefaction. <i>Applied Energy</i> , 2020, 268, 115022.	5.1	44
71	Assessing the potential of CO <sub>2</sub> utilization with an integrated framework for producing power and chemicals. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 19, 49-57.	3.3	43
72	Resource-Constrained Scheduling of Parallel Production Lines Using Asynchronous Slots. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 6832-6842.	1.8	42

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73	An ontology framework towards decentralized information management for eco-industrial parks. Computers and Chemical Engineering, 2018, 118, 49-63.	2.0	42
74	Recipe determination and scheduling of gasoline blending operations. AIChE Journal, 2010, 56, 441-465.	1.8	41
75	Roles of sulfite oxidoreductase and sulfite reductase in improving desulfurization by Rhodococcus erythropolis. Molecular BioSystems, 2012, 8, 2724.	2.9	41
76	Propylene/Propane Separation Using SiCHA. Industrial & Engineering Chemistry Research, 2013, 52, 3877-3892.	1.8	41
77	A linear diversity constraint "Application to scheduling in microgrids. Energy, 2011, 36, 4235-4243.	4.5	40
78	Process systems engineering perspective on the planning and development of oil fields. AIChE Journal, 2016, 62, 2586-2604.	1.8	40
79	Dynamic modelling and optimization of an LNG storage tank in a regasification terminal with semi-analytical solutions for N <sub>2</sub> -free LNG. Computers and Chemical Engineering, 2017, 99, 40-50.	2.0	40
80	Simulation and optimization of a combined cycle gas turbine power plant for part-load operation. Chemical Engineering Research and Design, 2018, 131, 29-40.	2.7	40
81	Completion time algorithms for serial multiproduct batch processes with shared storage. Computers and Chemical Engineering, 1990, 14, 49-69.	2.0	39
82	Work-heat exchanger network synthesis (WHENS). Energy, 2016, 113, 1006-1017.	4.5	39
83	Impact of mixed refrigerant selection on energy and exergy performance of natural gas liquefaction processes. Energy, 2020, 199, 117378.	4.5	38
84	Completion times in serial mixed-storage multiproduct processes with transfer and set-up times. Computers and Chemical Engineering, 1989, 13, 175-186.	2.0	36
85	Planning in Pharmaceutical Supply Chains with Outsourcing and New Product Introductions. Industrial & Engineering Chemistry Research, 2004, 43, 8293-8306.	1.8	36
86	Global multiproduct production-Distribution planning with duty drawbacks. AIChE Journal, 2006, 52, 595-610.	1.8	36
87	Intermediate storage in noncontinuous processes involving stages of parallel units. AIChE Journal, 1985, 31, 44-52.	1.8	35
88	Economic Feasibility of Power Generation by Recovering Cold Energy during LNG (Liquefied Natural) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.2	35
89	Scheduling in serial multiproduct batch processes with due-date penalties. Industrial & Engineering Chemistry Research, 1990, 29, 580-590.	1.8	34
90	Binary and Ternary Adsorption Kinetics of Gases in Carbon Molecular Sieves. Langmuir, 2003, 19, 5722-5734.	1.6	34

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91	An MILP Approach to Automated Wet-Etch Station Scheduling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 1391-1399.	1.8	34
92	Sequential coordinate random search for optimal operation of LNG (liquefied natural gas) plant. <i>Energy</i> , 2015, 89, 757-767.	4.5	34
93	Techno-enviro-economic analyses of hydrogen supply chains with an ASEAN case study. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32914-32928.	3.8	34
94	Supply chain redesign and new process introduction in multipurpose plants. <i>Chemical Engineering Science</i> , 2010, 65, 2596-2607.	1.9	33
95	Selection of Liquefied Natural Gas (LNG) Contracts for Minimizing Procurement Cost. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 10298-10312.	1.8	33
96	Scheduling a Two-Stage Multiproduct Process with Limited Product Shelf Life in Intermediate Storage. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 490-508.	1.8	32
97	Supply chain redesign through optimal asset management and capital budgeting. <i>Computers and Chemical Engineering</i> , 2008, 32, 3153-3169.	2.0	32
98	Reconstruction of a genome-scale metabolic network of <i>Rhodococcus erythropolis</i> for desulfurization studies. <i>Molecular BioSystems</i> , 2011, 7, 3122.	2.9	32
99	Identification of Transport Mechanism in Adsorbent Micropores from Column Dynamics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 1098-1106.	1.8	31
100	An Analysis of Some Unit-Specific Event-Based Models for the Short-Term Scheduling of Noncontinuous Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 633-647.	1.8	31
101	Towards an ontological infrastructure for chemical process simulation and optimization in the context of eco-industrial parks. <i>Applied Energy</i> , 2017, 204, 1284-1298.	5.1	31
102	A critical review on measures to suppress flow boiling instabilities in microchannels. <i>Heat and Mass Transfer</i> , 2021, 57, 889-910.	1.2	31
103	Heuristic algorithms for scheduling an automated wet-etch station. <i>Computers and Chemical Engineering</i> , 2004, 28, 363-379.	2.0	30
104	Minimizing Power Consumption Related to BOG Reliquefaction in an LNG Regasification Terminal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 7431-7445.	1.8	29
105	Scheduling Parallel Production Lines with Resource Constraints. 2. Decomposition Algorithm. <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 790-800.	1.8	28
106	Synthesis of heat exchanger networks with nonisothermal phase changes. <i>AIChE Journal</i> , 2010, 56, 930-945.	1.8	28
107	Combined data preprocessing and multivariate statistical analysis characterizes fed-batch culture of mouse hybridoma cells for rational medium design. <i>Journal of Biotechnology</i> , 2010, 150, 94-100.	1.9	28
108	Framework for workâ€œheat exchange network synthesis (WHENS). <i>AIChE Journal</i> , 2018, 64, 2472-2485.	1.8	28

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109	LEAPS2: Learning based Evolutionary Assistive Paradigm for Surrogate Selection. Computers and Chemical Engineering, 2018, 119, 352-370.	2.0	28
110	Planning production on a single processor with sequence-dependent setups part 1: determination of campaigns. Computers and Chemical Engineering, 2001, 25, 1021-1030.	2.0	27
111	Strain Improvement and Process Development for Biobutanol Production. Recent Patents on Biotechnology, 2009, 3, 202-210.	0.4	27
112	Optimization of helium extraction processes integrated with nitrogen removal units: A comparative study. Computers and Chemical Engineering, 2019, 121, 354-366.	2.0	27
113	Optimal selection of intermediate storage tank capacity in a periodic batch/semicontinuous process. AIChE Journal, 1983, 29, 588-596.	1.8	26
114	Novel continuous-time formulations for scheduling multi-stage batch plants with identical parallel units. Computers and Chemical Engineering, 2007, 31, 1671-1693.	2.0	26
115	Efficient bulk maritime logistics for the supply and delivery of multiple chemicals. Computers and Chemical Engineering, 2010, 34, 2118-2128.	2.0	26
116	Shared and practical approach to conserve utilities in eco-industrial parks. Computers and Chemical Engineering, 2016, 93, 221-233.	2.0	26
117	Flux-based analysis of sulfur metabolism in desulfurizing strains of Rhodococcus erythropolis. FEMS Microbiology Letters, 2011, 315, 115-121.	0.7	25
118	NADPH-dependent pgi-gene knockout Escherichia coli metabolism producing shikimate on different carbon sources. FEMS Microbiology Letters, 2011, 324, 10-16.	0.7	25
119	Comparing SiCHA and 4A Zeolite for Propylene/Propane Separation using a Surrogate-Based Simulation/Optimization Approach. Industrial & Engineering Chemistry Research, 2014, 53, 16973-16983.	1.8	25
120	Heating Value Reduction of LNG (Liquefied Natural Gas) by Recovering Heavy Hydrocarbons: Technoeconomic Analyses Using Simulation-Based Optimization. Industrial & Engineering Chemistry Research, 2018, 57, 5924-5932.	1.8	25
121	Prediction of binary gas diffusion in carbon molecular sieves at high pressure. AIChE Journal, 2004, 50, 351-367.	1.8	24
122	An online decision support framework for managing abnormal supply chain events. Computer Aided Chemical Engineering, 2005, , 985-990.	0.3	24
123	Optimal Contract Selection for the Global Supply and Distribution of Raw Materials. Industrial & Engineering Chemistry Research, 2007, 46, 6522-6539.	1.8	24
124	Efficient heuristics for inventory placement in acyclic networks. Computers and Operations Research, 2009, 36, 2899-2904.	2.4	24
125	Well Placement, Infrastructure Design, Facility Allocation, and Production Planning in Multireservoir Oil Fields with Surface Facility Networks. Industrial & Engineering Chemistry Research, 2014, 53, 11033-11049.	1.8	24
126	Parameterisation of a biodiesel plant process flow sheet model. Computers and Chemical Engineering, 2016, 95, 108-122.	2.0	24



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127	Integrated Oil-Field Management: From Well Placement and Planning to Production Scheduling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 978-994.	1.8	24
128	Techno-economic Evaluation of Cyclopentane Hydrate-Based Desalination with Liquefied Natural Gas Cold Energy Utilization. <i>Energy Technology</i> , 2020, 8, 1900212.	1.8	24
129	Exergoeconomic analysis and optimization of a Gas Turbine-Modular Helium Reactor with new organic Rankine cycle for efficient design and operation. <i>Energy Conversion and Management</i> , 2020, 204, 112311.	4.4	24
130	Scheduling tank container movements for chemical logistics. <i>AIChE Journal</i> , 2005, 51, 178-197.	1.8	23
131	Elucidation of metabolism in hybridoma cells grown in fed-batch culture by genome-scale modeling. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1494-1504.	1.7	23
132	Preliminary Synthesis of Fuel Gas Networks to Conserve Energy and Preserve the Environment. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 7414-7427.	1.8	23
133	Improved Synthesis of Hydrogen Networks for Refineries. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 16948-16963.	1.8	23
134	Improving design and operation at LNG regasification terminals through a corrected storage tank model. <i>Applied Thermal Engineering</i> , 2019, 149, 344-353.	3.0	23
135	Teaching-learning self-study approach for optimal retrofitting of dual mixed refrigerant LNG process: Energy and exergy perspective. <i>Applied Energy</i> , 2021, 298, 117187.	5.1	23
136	Scheduling algorithms for serial multiproduct batch processes with tardiness penalties. <i>Computers and Chemical Engineering</i> , 1991, 15, 283-286.	2.0	22
137	Nonisothermal Pore Diffusion Model for a Kinetically Controlled Pressure Swing Adsorption Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 10659-10670.	1.8	22
138	Optimal cryogenic processes for nitrogen rejection from natural gas. <i>Computers and Chemical Engineering</i> , 2018, 112, 101-111.	2.0	22
139	Optimal design of boil-off gas reliquefaction process in LNG regasification terminals. <i>Computers and Chemical Engineering</i> , 2018, 117, 171-190.	2.0	22
140	Optimal design of batch plants with single production routes. <i>Industrial &amp; Engineering Chemistry Research</i> , 1989, 28, 1191-1202.	1.8	21
141	Web-based applications for building, managing and analysing kinetic models of biological systems. <i>Briefings in Bioinformatics</i> , 2008, 10, 65-74.	3.2	21
142	Minimize Flaring through Integration with Fuel Gas Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 12630-12641.	1.8	21
143	A superstructure-based model for multistream heat exchanger design within flow sheet optimization. <i>AIChE Journal</i> , 2017, 63, 3764-3777.	1.8	21
144	Retrofit Design of Hydrogen Network in Refineries: Mathematical Model and Global Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 4996-5023.	1.8	21

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145	An improved formulation for scheduling an automated wet-etch station. <i>Computers and Chemical Engineering</i> , 2004, 29, 217-224.	2.0	20
146	Flux measurements and maintenance energy for carbon dioxide utilization by <i>Methanococcus maripaludis</i> . <i>Microbial Cell Factories</i> , 2015, 14, 146.	1.9	20
147	Sustainability Assessment of Thermocatalytic Conversion of CO <sub>2</sub> to Transportation Fuels, Methanol, and 1-Propanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10591-10600.	3.2	20
148	Optimal Cycle Times in Multistage Serial Systems with Set-Up and Inventory Costs. <i>Management Science</i> , 1992, 38, 1467-1481.	2.4	19
149	Investment portfolios under uncertainty for utilizing natural gas resources. <i>Computers and Chemical Engineering</i> , 2011, 35, 1827-1837.	2.0	19
150	Parametric optimization with uncertainty on the left hand side of linear programs. <i>Computers and Chemical Engineering</i> , 2014, 60, 31-40.	2.0	19
151	Unified Heat Exchanger Network Synthesis via a Stageless Superstructure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 5984-6001.	1.8	19
152	Towards energy-efficient LNG terminals: Modeling and simulation of reciprocating compressors. <i>Computers and Chemical Engineering</i> , 2019, 128, 312-321.	2.0	19
153	Simulation-based approach for integrating work within heat exchange networks for sub-ambient processes. <i>Energy Conversion and Management</i> , 2020, 203, 112276.	4.4	19
154	Single-Solution-Based Vortex Search Strategy for Optimal Design of Offshore and Onshore Natural Gas Liquefaction Processes. <i>Energies</i> , 2020, 13, 1732.	1.6	19
155	System perspective on cleaner technologies for renewable methane production and utilisation towards carbon neutrality: Principles, techno-economics, and carbon footprints. <i>Fuel</i> , 2022, 327, 125130.	3.4	19
156	A Slot-Based Formulation for Single-Stage Multiproduct Batch Plants with Multiple Orders per Product. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 1914-1924.	1.8	18
157	Technoeconomic Perspective on Natural Gas Liquids and Methanol as Potential Feedstocks for Producing Olefins. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 963-972.	1.8	18
158	Organic Rankine cycle integrated with hydrate-based desalination for a sustainable energy-water nexus system. <i>Applied Energy</i> , 2021, 291, 116839.	5.1	18
159	Modeling and Monte Carlo simulation of TCDD transport in a river. <i>Water Research</i> , 2001, 35, 1263-1279.	5.3	17
160	Modeling and simulation of main cryogenic heat exchanger in a base-load liquefied natural gas plant. <i>Computer Aided Chemical Engineering</i> , 2007, 24, 219-224.	0.3	17
161	Genome-scale metabolic network reconstruction and in silico flux analysis of the thermophilic bacterium <i>Thermus thermophilus</i> HB27. <i>Microbial Cell Factories</i> , 2014, 13, 61.	1.9	17
162	Simulation of a combined cycle gas turbine power plant in Aspen HYSYS. <i>Energy Procedia</i> , 2019, 158, 3620-3625.	1.8	17

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163	A Parallel World Framework for scenario analysis in knowledge graphs. <i>Data-Centric Engineering</i> , 2020, 1, .	1.2	17
164	Deterministic variability analysis for intermediate storage in noncontinuous processes. Part I: Allowability conditions. <i>AIChE Journal</i> , 1985, 31, 1516-1527.	1.8	16
165	Scheduling Trans-shipment Operations in Maritime Chemical Transportation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 1955-1973.	1.8	16
166	Optimizing Compressor Operations in an LNG Plant. , 2009, , 179-184.		16
167	From PSE to PSE2â€”Decision support for resilient enterprises. <i>Computers and Chemical Engineering</i> , 2009, 33, 1939-1949.	2.0	16
168	Integrated campaign planning and resource allocation in batch plants. <i>Computers and Chemical Engineering</i> , 2011, 35, 2990-3001.	2.0	16
169	Optimization of Compressor Networks in LNG Operations. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1767-1772.	0.3	15
170	Design of biomass and natural gas based IGFC using multi-objective optimization. <i>Energy</i> , 2014, 73, 635-652.	4.5	15
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