

Qiang Xu

List of Publications by Year in Descending Order

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

102
papers

1,174
citations

19
h-index

27
g-index

105
ext. papers

1,354
ext. citations

4.2
avg, IF

4.96
L-index

#	Paper	IF	Citations
102	Simultaneous Production and Maintenance Scheduling for Refinery Front-End Process with Considerations of Risk Management and Resource Availability. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 2152-2166	3.9	
101	Optimal Scheduling for Simultaneous Refinery Manufacturing and Multi Oil-product Pipeline Distribution. <i>Computers and Chemical Engineering</i> , 2021 , 107613	4	0
100	A win-win strategy for simultaneous air-quality benign and profitable emission reduction during chemical plant shutdown operations. <i>Chemical Engineering Research and Design</i> , 2021 , 147, 1185-1192	5.5	4
99	Source apportionment simulations of ground-level ozone in Southeast Texas employing OSAT/APCA in CAMx. <i>Atmospheric Environment</i> , 2021 , 253, 118370	5.3	1
98	Effect of dynamic low DREs from flare combustion on regional ozone pollution during a chemical plant shutdown. <i>Atmospheric Environment</i> , 2021 , 254, 118399	5.3	2
97	CAMx simulations of the control of anthropogenic emissions on the reduction of ozone formation in Southeast Texas of USA. <i>Atmospheric Pollution Research</i> , 2021 , 12, 101114	4.5	1
96	Characterization and sensitivity analysis on ozone pollution over the Beaumont-Port Arthur Area in Texas of USA through source apportionment technologies. <i>Atmospheric Research</i> , 2021 , 247, 105249	5.4	6
95	Ozone pollution control strategies examined by Empirical Kinetics Modeling Approach over the Beaumont-Port Arthur region in Texas of USA. <i>Atmospheric Pollution Research</i> , 2021 , 12, 403-413	4.5	3
94	New flare minimization strategies with consideration of multi-plant material exchange. <i>Journal of Cleaner Production</i> , 2021 , 282, 124508	10.3	
93	Simultaneous scheduling of multi-product pipeline distribution and depot inventory management for petroleum refineries. <i>Chemical Engineering Science</i> , 2020 , 220, 115618	4.4	7
92	A thermo-stable poly(propylene carbonate)-based composite separator for lithium-sulfur batteries under elevated temperatures. <i>International Journal of Energy Research</i> , 2020 , 44, 10295-10306	4.5	3
91	Flare minimization for an olefin plant shutdown via plant-wide dynamic simulation. <i>Journal of Cleaner Production</i> , 2020 , 254, 120129	10.3	6
90	Advanced Process Control for Cost-Effective Glycol Loss Minimization in a Natural Gas Dehydration Plant under Upset Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7680-7692	3.9	2
89	Comprehensive Study on Sloshing Impacts for an Offshore 3D Vessel via the Integration of Computational Fluid Dynamics Simulation, Experimental Unit, and Artificial Neural Network Prediction. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 22187-22204	3.9	0
88	Comprehensive study on boil-off gas generation from LNG road tankers under simultaneous impacts of heat leakage and transportation vibration. <i>Fuel</i> , 2020 , 275, 117876	7.1	9
87	An integrated flare minimization methodology for simultaneous turnaround operations of two chemical plants. <i>Journal of Cleaner Production</i> , 2020 , 277, 123181	10.3	1
86	Effect of industrial flare DREs derived by CFD and WERF on ozone pollution through CAMx simulation. <i>Atmospheric Environment</i> , 2020 , 238, 117723	5.3	7

85	Modeling and Optimization for a Comprehensive Gas Processing Plant with Sensitivity Analysis and Economic Evaluation. <i>Chemical Engineering and Technology</i> , 2020 , 43, 2198-2207	2	
84	Integrated Ejector-Based Flare Gas Recovery and On-Site Desalination of Produced Water in Shale Gas Production. <i>Chemical Engineering and Technology</i> , 2020 , 43, 200-210	2	5
83	Production of 1,3-Butadiene and Associated Coproducts Ethylene and Propylene from Lignin. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16182-16189	3.9	1
82	Integrated Proactive and Reactive Scheduling for Refinery Front-End Crude Movement with Consideration of Unit Maintenance. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12192-12206	3.0	7
81	Optimal scheduling for olefin plant furnace system with consideration of inherent process upset reduction. <i>Computers and Chemical Engineering</i> , 2019 , 126, 157-167	4	2
80	Process and Carbon Footprint Analyses of the Allam Cycle Power Plant Integrated with an Air Separation Unit. <i>Clean Technologies</i> , 2019 , 1, 325-340	3.4	12
79	Modeling and Simulation of the 1,3-Butadiene Extraction Process at Turndown Capacity. <i>Chemical Engineering and Technology</i> , 2019 , 42, 2649-2657	2	4
78	Dynamic Simulations of the Allam Cycle Power Plant Integrated with an Air Separation Unit. <i>International Journal of Chemical Engineering</i> , 2019 , 2019, 1-10	2.2	6
77	New insight of ozone pollution impact from flare emissions of chemical plant start-up operations. <i>Environmental Pollution</i> , 2019 , 245, 873-882	9.3	10
76	Glycol Loss Minimization for a Natural Gas Dehydration Plant under Upset Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1994-2008	3.9	3
75	Upset-conscious scheduling for continuous parallel-process and performance decaying unit system. <i>Chemical Engineering Science</i> , 2019 , 195, 828-840	4.4	5
74	Sloshing Impact on Gas Pretreatment for LNG Plants Located in a Stranded Offshore Location. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5764-5775	3.9	5
73	Dynamic Simulation Study for Boil-off Gas Minimization at Liquefied Natural Gas Exporting Terminals. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5903-5913	3.9	5
72	Ozone impact minimization through coordinated scheduling of turnaround operations from multiple olefin plants in an ozone nonattainment area. <i>Atmospheric Environment</i> , 2018 , 176, 47-53	5.3	10
71	Optimal Design of Gas-Expanded Liquid Ethylene Oxide Production with Zero Carbon Dioxide Byproduct. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5351-5358	3.9	3
70	Study on regional air quality impact from a chemical plant emergency shutdown. <i>Chemosphere</i> , 2018 , 201, 655-666	8.4	11
69	Iterative algorithms for the input and state recovery from the approximate inverse of strictly proper multivariable systems. <i>Mechanical Systems and Signal Processing</i> , 2018 , 101, 320-337	7.8	
68	Plant-Wide Scheduling for Profitable Emission Reduction in Petroleum Refineries. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9471-9488	3.9	2

67	Modelling and Simulation for Regional Ozone Impact by Flaring Destruction and Removal Efficiency of Oil & Gas Industries. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 2185-2190	0.6	2
66	Dynamic Routing Optimization for Chemical Hazardous Material Transportation under Uncertainties. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10500-10517	3.9	9
65	A novel MINLP model of front-end crude scheduling for refinery with consideration of inherent upset minimization. <i>Computers and Chemical Engineering</i> , 2018 , 117, 42-62	4	10
64	Optimal Front-end Crude Schedule for Refineries under Consideration of Inherent Upset Reduction. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1315-1320	0.6	1
63	Study for the Optimal Operation of Natural Gas Liquid Recovery and Natural Gas Production 2018 , 235-257		
62	Novel Design for Simultaneous Production of Biodiesel and Glycerol Carbonate from Soybean Oil. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16809-16816	3.9	6
61	Emission Conscious Scheduling of Crude Unloading, Transferring, and Processing for Petroleum Refineries. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1219-1224	0.6	1
60	Emission Constrained Dynamic Scheduling for Ethylene Cracking Furnace System. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1327-1340	3.9	11
59	Simultaneous 2D hoist scheduling and production line design for multi-recipe and multi-stage material handling processes. <i>Chemical Engineering Science</i> , 2017 , 167, 251-264	4.4	5
58	Impact of chemical plant start-up emissions on ambient ozone concentration. <i>Atmospheric Environment</i> , 2017 , 164, 20-30	5.3	11
57	A New Proactive Scheduling Methodology for Front-End Crude Oil and Refinery Operations under Uncertainty of Shipping Delay. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8041-8053	3.9	11
56	Process Synthesis of Mixed Refrigerant System for Ethylene Plants. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7984-7999	3.9	8
55	Simultaneous scheduling of front-end crude transfer and refinery processing. <i>Computers and Chemical Engineering</i> , 2017 , 96, 212-236	4	14
54	Dynamic simulation of LNG loading, BOG generation, and BOG recovery at LNG exporting terminals. <i>Computers and Chemical Engineering</i> , 2017 , 97, 47-58	4	28
53	Dynamic simulation for flare minimization in chemical process industry under abnormal operations. <i>Current Opinion in Chemical Engineering</i> , 2016 , 14, 26-34	5.4	8
52	Simulation and economic evaluation of a coupled thermal vapor compression desalination process for produced water management. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 36, 442-453	4.6	14
51	Impacts of flare emissions from an ethylene plant shutdown to regional air quality. <i>Atmospheric Environment</i> , 2016 , 138, 22-41	5.3	14
50	Optimal Retrofit Design of Crude Distillation Units for Processing Shale Gas/Natural Gas Condensate Oil. <i>Chemical Engineering and Technology</i> , 2016 , 39, 1099-1110	2	4

49	A new method of cyclic hoist scheduling for multi-recipe and multi-stage material handling processes. <i>Computers and Chemical Engineering</i> , 2016 , 90, 171-187	4	9
48	Air-Quality Considered Study for Multiple Olefin Plant Startups. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9698-9710	3.9	12
47	Dynamic simulation and optimization targeting emission source reduction during an ethylene plant start-up operations. <i>Journal of Cleaner Production</i> , 2016 , 135, 771-783	10.3	11
46	Simulation study on boil-off gas minimization and recovery strategies at LNG exporting terminals. <i>Applied Energy</i> , 2015 , 156, 628-641	10.7	34
45	Multiobjective Optimization for Air-Quality Monitoring Network Design. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7743-7750	3.9	9
44	Monte Carlo optimization for site selection of new chemical plants. <i>Journal of Environmental Management</i> , 2015 , 163, 28-38	7.9	5
43	Process synthesis for cascade refrigeration system based on exergy analysis. <i>AIChE Journal</i> , 2015 , 61, 2471-2488	3.6	12
42	A New Reactive Scheduling Approach for Short-Term Crude Oil Operations under Tank Malfunction. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12438-12454	3.9	8
41	Refinery continuous-time crude scheduling with consideration of long-distance pipeline transportation. <i>Computers and Chemical Engineering</i> , 2015 , 75, 74-94	4	13
40	Optimal design and operation for simultaneous shale gas NGL recovery and LNG re-gasification under uncertainties. <i>Chemical Engineering Science</i> , 2014 , 112, 130-142	4.4	23
39	Flare Minimization during Start-Ups of an Integrated Cryogenic Separation System via Dynamic Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1553-1562	3.9	14
38	Reactive Scheduling of Short-Term Crude Oil Operations under Uncertainties. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12502-12518	3.9	13
37	Shutdown Strategy for Flare Minimization at an Olefin Plant. <i>Chemical Engineering and Technology</i> , 2014 , 37, 605-610	2	12
36	Generic Approach of Using Dynamic Simulation for Industrial Emission Reduction under Abnormal Operations: Scenario Study of an Ethylene Plant Start-up. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15089-15100	3.9	13
35	Emission Source Characterization during an Ethylene Plant Shutdown. <i>Chemical Engineering and Technology</i> , 2014 , 37, 1170-1180	2	13
34	Emission-Considered Diesel Blending Optimization. <i>Chemical Engineering and Technology</i> , 2014 , 37, 293-300		2
33	Coupling Refrigeration System Synthesis and Heat Exchanger Network Design. <i>Computer Aided Chemical Engineering</i> , 2014 , 34, 297-302	0.6	2
32	Air Quality Considered Site Selection for New Chemical Plants. <i>Computer Aided Chemical Engineering</i> , 2014 , 34, 273-278	0.6	1

31	Real-time dynamic hoist scheduling for multistage material handling process under uncertainties. <i>AICHE Journal</i> , 2013 , 59, 465-482	3.6	20
30	Simultaneous study on energy consumption and emission generation for an ethylene plant under different start-up strategies. <i>Computers and Chemical Engineering</i> , 2013 , 56, 68-79	4	22
29	Scheduling of multiple chemical plant start-ups to minimize regional air quality impacts. <i>Computers and Chemical Engineering</i> , 2013 , 54, 68-78	4	14
28	A novel conceptual design by integrating NGL recovery and LNG regasification processes for maximum energy savings. <i>AICHE Journal</i> , 2013 , 59, 4673-4685	3.6	21
27	Production-ratio oriented optimization for multi-recipe material handling via simultaneous hoist scheduling and production line arrangement. <i>Computers and Chemical Engineering</i> , 2013 , 50, 28-38	4	7
26	Proactive Abnormal Emission Identification by Air-Quality-Monitoring Network. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 9189-9202	3.9	6
25	Energy network dispatch optimization under emergency of local energy shortage. <i>Energy</i> , 2012 , 42, 132-145	3.9	20
24	Simultaneous Optimization of Crude Oil Blending and Purchase Planning with Delivery Uncertainty Consideration. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 8453-8464	3.9	13
23	Debottleneck of Multistage Material-Handling Processes via Simultaneous Hoist Scheduling and Production Line Retrofit. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 120425123023004	3.9	1
22	Coupling multiple water-reuse network designs for agile manufacturing. <i>Computers and Chemical Engineering</i> , 2012 , 45, 62-71	4	7
21	Integration of electroplating process design and operation for simultaneous productivity maximization, energy saving, and freshwater minimization. <i>Chemical Engineering Science</i> , 2012 , 68, 202-214	3.9	17
20	Optimal design and operation of a C3MR refrigeration system for natural gas liquefaction. <i>Computers and Chemical Engineering</i> , 2012 , 39, 84-95	4	89
19	Dynamic Scheduling for Ethylene Cracking Furnace System. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12026-12040	3.9	23
18	Thermodynamic-Analysis-Based Energy Consumption Minimization for Natural Gas Liquefaction. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12630-12640	3.9	70
17	Simultaneous mixed-integer dynamic optimization for environmentally benign electroplating. <i>Computers and Chemical Engineering</i> , 2011 , 35, 2411-2425	4	13
16	Cascade refrigeration system synthesis based on exergy analysis. <i>Computers and Chemical Engineering</i> , 2011 , 35, 1901-1914	4	24
15	Thermodynamic-Analysis-Based Design and Operation for Boil-Off Gas Flare Minimization at LNG Receiving Terminals. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 7412-7420	3.9	34
14	Cyclic Scheduling for Ethylene Cracking Furnace System with Consideration of Secondary Ethane Cracking. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5765-5774	3.9	30

13	Emission Source Characterization for Proactive Flare Minimization during Ethylene Plant Start-ups. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5734-5741	3.9	21
12	Multiobjective Optimization for Design and Operation of the Chilling Train System in Ethylene Plants. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5786-5799	3.9	14
11	Dynamic Simulation and Optimization for the Start-up Operation of An Ethylene Oxide Plant. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 4360-4371	3.9	14
10	Flare Minimization Strategy for Ethylene Plants. <i>Chemical Engineering and Technology</i> , 2010 , 33, 1059-1065	3.9	14
9	Cyclic scheduling for best profitability of industrial cracking furnace system. <i>Computers and Chemical Engineering</i> , 2010 , 34, 544-554	4	28
8	Chemical Plant Flare Minimization via Plantwide Dynamic Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3505-3512	3.9	57
7	Pressure-Driven Dynamic Simulation for Improving the Performance of a Multistage Compression System during Plant Startup. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9195-9203	3.9	22
6	Study on Near-Zero Flaring for Chemical Plant Turnaround Operation 2009 , 603-611		2
5	ACSBased dynamic optimization for curing of polymeric coating. <i>AIChE Journal</i> , 2006 , 52, 1410-1422	3.6	21
4	ENVIRONMENTALLY CONSCIOUS HOIST SCHEDULING FOR ELECTROPLATING FACILITIES. <i>Chemical Engineering Communications</i> , 2006 , 193, 273-292	2.2	21
3	Integrated Electroplating System Modeling and Simulation for Near Zero Discharge of Chemicals and Metals. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 2156-2164	3.9	7
2	Graph-Assisted Cyclic Hoist Scheduling for Environmentally Benign Electroplating. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 8307-8316	3.9	12
1	Parallel Optimization Scheme for Industrial Steam Cracking Process.. <i>Journal of Chemical Engineering of Japan</i> , 2003 , 36, 14-19	0.8	4