Qiang Xu

List of Publications by Citations

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102 1,174 19 27 g-index

105 1,354 4.2 4.96 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
102	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
101	Thermodynamic-Analysis-Based Energy Consumption Minimization for Natural Gas Liquefaction. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12630-12640	3.9	70
100	Chemical Plant Flare Minimization via Plantwide Dynamic Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3505-3512	3.9	57
99	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
98	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
97	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
96	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
95	Cyclic scheduling for best profitability of industrial cracking furnace system. <i>Computers and Chemical Engineering</i> , 2010 , 34, 544-554	4	28
94	Cascade refrigeration system synthesis based on exergy analysis. <i>Computers and Chemical Engineering</i> , 2011 , 35, 1901-1914	4	24
93	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
92	Dynamic Scheduling for Ethylene Cracking Furnace System. <i>Industrial & Dynamic Scheduling Furnace System</i> . <i>Industrial & Dynamic Scheduling Furnac</i>	3.9	23
91	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
90	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
89	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
88	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
87	ACSBased dynamic optimization for curing of polymeric coating. AICHE Journal, 2006, 52, 1410-1422	3.6	21
86	ENVIRONMENTALLY CONSCIOUS HOIST SCHEDULING FOR ELECTROPLATING FACILITIES. <i>Chemical Engineering Communications</i> , 2006 , 193, 273-292	2.2	21

85	Energy network dispatch optimization under emergency of local energy shortage. <i>Energy</i> , 2012 , 42, 132	!- / 1. 4 5	20
84	Real-time dynamic hoist scheduling for multistage material handling process under uncertainties. <i>AICHE Journal</i> , 2013 , 59, 465-482	3.6	20
83	Integration of electroplating process design and operation for simultaneous productivity maximization, energy saving, and freshwater minimization. <i>Chemical Engineering Science</i> , 2012 , 68, 202-	2 4 14	17
82	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
81	Impacts of flare emissions from an ethylene plant shutdown to regional air quality. <i>Atmospheric Environment</i> , 2016 , 138, 22-41	5.3	14
80	Flare Minimization during Start-Ups of an Integrated Cryogenic Separation System via Dynamic Simulation. <i>Industrial & Simulation Industrial & Sim</i>	3.9	14
79	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
78	Simultaneous scheduling of front-end crude transfer and refinery processing. <i>Computers and Chemical Engineering</i> , 2017 , 96, 212-236	4	14
77	Multiobjective Optimization for Design and Operation of the Chilling Train System in Ethylene Plants. <i>Industrial & Design Engineering Chemistry Research</i> , 2010 , 49, 5786-5799	3.9	14
76	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
75	Flare Minimization Strategy for Ethylene Plants. Chemical Engineering and Technology, 2010, 33, 1059-10	0≨5	14
74	Reactive Scheduling of Short-Term Crude Oil Operations under Uncertainties. <i>Industrial & amp;</i> Engineering Chemistry Research, 2014 , 53, 12502-12518	3.9	13
73	Generic Approach of Using Dynamic Simulation for Industrial Emission Reduction under Abnormal Operations: Scenario Study of an Ethylene Plant Start-up. <i>Industrial & Description of Chemistry Research</i> , 2014 , 53, 15089-15100	3.9	13
72	Refinery continuous-time crude scheduling with consideration of long-distance pipeline transportation. <i>Computers and Chemical Engineering</i> , 2015 , 75, 74-94	4	13
71	Emission Source Characterization during an Ethylene Plant Shutdown. <i>Chemical Engineering and Technology</i> , 2014 , 37, 1170-1180	2	13
70	Simultaneous Optimization of Crude Oil Blending and Purchase Planning with Delivery Uncertainty Consideration. <i>Industrial & amp; Engineering Chemistry Research</i> , 2012 , 51, 8453-8464	3.9	13
69	Simultaneous mixed-integer dynamic optimization for environmentally benign electroplating. <i>Computers and Chemical Engineering</i> , 2011 , 35, 2411-2425	4	13
68	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

67	Shutdown Strategy for Flare Minimization at an Olefin Plant. <i>Chemical Engineering and Technology</i> , 2014 , 37, 605-610	2	12
66	Process synthesis for cascade refrigeration system based on exergy analysis. <i>AICHE Journal</i> , 2015 , 61, 2471-2488	3.6	12
65	Graph-Assisted Cyclic Hoist Scheduling for Environmentally Benign Electroplating. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 8307-8316	3.9	12
64	Air-Quality Considered Study for Multiple Olefin Plant Startups. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9698-9710	3.9	12
63	Emission Constrained Dynamic Scheduling for Ethylene Cracking Furnace System. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1327-1340	3.9	11
62	Impact of chemical plant start-up emissions on ambient ozone concentration. <i>Atmospheric Environment</i> , 2017 , 164, 20-30	5.3	11
61	Study on regional air quality impact from a chemical plant emergency shutdown. <i>Chemosphere</i> , 2018 , 201, 655-666	8.4	11
60	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
59	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
58	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
57	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
56	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
55	Multiobjective Optimization for Air-Quality Monitoring Network Design. <i>Industrial & amp; Engineering Chemistry Research</i> , 2015 , 54, 7743-7750	3.9	9
54	Dynamic Routing Optimization for Chemical Hazardous Material Transportation under Uncertainties. <i>Industrial & Discretaing Chemistry Research</i> , 2018 , 57, 10500-10517	3.9	9
53	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
52	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
51	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
50	Process Synthesis of Mixed Refrigerant System for Ethylene Plants. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7984-7999	3.9	8

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49	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	
48	Integrated Proactive and Reactive Scheduling for Refinery Front-End Crude Movement with Consideration of Unit Maintenance. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12192-1	2206	7	
47	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	
46	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	
45	Coupling multiple water-reuse network designs for agile manufacturing. <i>Computers and Chemical Engineering</i> , 2012 , 45, 62-71	4	7	
44	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	
43	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	
42	Flare minimization for an olefin plant shutdown via plant-wide dynamic simulation. <i>Journal of Cleaner Production</i> , 2020 , 254, 120129	10.3	6	
41	Proactive Abnormal Emission Identification by Air-Quality-Monitoring Network. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 9189-9202	3.9	6	
40	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	
39	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	
38	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	
37	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	
36	Monte Carlo optimization for site selection of new chemical plants. <i>Journal of Environmental Management</i> , 2015 , 163, 28-38	7.9	5	
35	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	
34	Dynamic Simulation Study for Boil-off Gas Minimization at Liquefied Natural Gas Exporting Terminals. <i>Industrial & Discrete Engineering Chemistry Research</i> , 2018 , 57, 5903-5913	3.9	5	
33	Upset-conscious scheduling for continuous parallel-process and performance decaying unit system. <i>Chemical Engineering Science</i> , 2019 , 195, 828-840	4.4	5	
32	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	

31	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
30	Parallel Optimization Scheme for Industrial Steam Cracking Process <i>Journal of Chemical Engineering of Japan</i> , 2003 , 36, 14-19	0.8	4
29	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
28	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
27	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
26	Optimal Design of Gas-Expanded Liquid Ethylene Oxide Production with Zero Carbon Dioxide Byproduct. <i>Industrial & Dioxide Engineering Chemistry Research</i> , 2018 , 57, 5351-5358	3.9	3
25	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
24	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
23	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
22	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
21	Plant-Wide Scheduling for Profitable Emission Reduction in Petroleum Refineries. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9471-9488	3.9	2
20	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
19	Emission-Considered Diesel Blending Optimization. Chemical Engineering and Technology, 2014, 37, 293	3-300	2
18	Coupling Refrigeration System Synthesis and Heat Exchanger Network Design. <i>Computer Aided Chemical Engineering</i> , 2014 , 34, 297-302	0.6	2
17	Study on Near-Zero Flaring for Chemical Plant Turnaround Operation 2009, 603-611		2
16	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
15	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
14	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

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13	Air Quality Considered Site Selection for New Chemical Plants. <i>Computer Aided Chemical Engineering</i> , 2014 , 34, 273-278	0.6	1
12	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
11	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
10	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
9	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
8	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
7	Optimal Scheduling for Simultaneous Refinery Manufacturing and Multi Oil-product Pipeline Distribution. <i>Computers and Chemical Engineering</i> , 2021 , 107613	4	O
6	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 & Description Chemistry Research</i> , 2020 , 59, 22187-22204	3.9	О
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5	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	
5	Iterative algorithms for the input and state recovery from the approximate inverse of strictly		
	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 Simultaneous Production and Maintenance Scheduling for Refinery Front-End Process with Considerations of Risk Management and Resource Availability. <i>Industrial & Description</i>	7.8	

Study for the Optimal Operation of Natural Gas Liquid Recovery and Natural Gas Production **2018**, 235-257