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**Demand response scheduling under uncertainty:  
Chance-constrained framework and application to an  
air separation unit**

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#	Paper	IF	Citations
20	Challenges and Opportunities to Enhance Flexibility in Design and Operation of Chemical Processes. <i>Chemie-Ingenieur-Technik</i> , <b>2020</b> , 92, 1887-1897	0.8	6
19	Flexibler Betrieb von Luftzerlegungsanlagen. <i>Chemie-Ingenieur-Technik</i> , <b>2020</b> , 92, 1921-1940	0.8	11
18	A generalized cutting-set approach for nonlinear robust optimization in process systems engineering. <i>AIChE Journal</i> , <b>2021</b> , 67, e17175	3.6	2
17	Dynamic Design Optimization for Flexible Process Equipment. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 7678-7688	3.9	4
16	Flexible Operation of Air Separation Units . <i>ChemBioEng Reviews</i> , <b>2021</b> , 8, 357	5.2	4
15	Development of a digital twin for a flexible air separation unit using a pressure-driven simulation approach. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 151, 107349	4	8
14	Assessing the Realizable Flexibility Potential of Electrochemical Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 13637-13660	3.9	3
13	Flexibility analysis for demand-side management in large-scale chemical processes: An ethylene oxide production case study. <i>Chemical Engineering Science</i> , <b>2021</b> , 243, 116779	4.4	3
12	An Overview of Demand Response: From its Origins to the Smart Energy Community. <i>IEEE Access</i> , <b>2021</b> , 9, 96851-96876	3.5	6
11	Conceptual design and assessment of a novel energy management system for LNG fueled ships with air separation. <i>Thermal Science and Engineering Progress</i> , <b>2021</b> , 101111	3.6	3
10	Energy storage. <b>2022</b> , 573-622		
9	A data-driven linear formulation of the optimal demand response scheduling problem for an industrial air separation unit. <i>Chemical Engineering Science</i> , <b>2022</b> , 117468	4.4	0
8	Indirect Demand Response Potential of Large-Scale Chemical Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 605-620	3.9	2
7	Improving the load flexibility of industrial air separation units using a pressure-driven digital twin. <i>AIChE Journal</i> ,	3.6	1
6	Generalized Parameter Estimation Method for Model-Based Real-Time Optimization. <i>Chemical Engineering Science</i> , <b>2022</b> , 117754	4.4	
5	Challenges and Opportunities in Carbon Capture, Utilization and Storage: A Process Systems Engineering Perspective. <i>Computers and Chemical Engineering</i> , <b>2022</b> , 107925	4	1
4	Energy-aware enterprise-wide optimization and clean energy in the industrial gas industry. <i>Computers and Chemical Engineering</i> , <b>2022</b> , 165, 107927	4	0

- 3 Optimization of co-production air separation unit based on MILP under multi-product deterministic demand. **2022**, 325, 119850
- 2 Scheduling optimization and risk analysis for energy-intensive industries under uncertain electricity market to facilitate financial planning. **2023**, 174, 108234
- 1 Reduced order modeling of a pressure column of an air separation unit using the Dynamic Edmister Method. **2023**, 174, 108250