

Adrian Caspari

List of Publications by Year in descending order

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papers

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citations

840776

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g-index

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all docs

14
docs citations

14
times ranked

314
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges in process optimization for new feedstocks and energy sources. Computers and Chemical Engineering, 2018, 113, 209-221.	3.8	102
2	A flexible air separation process: 2. Optimal operation using economic model predictive control. AIChE Journal, 2019, 65, e16721.	3.6	42
3	The integration of scheduling and control: Top-down vs. bottom-up. Journal of Process Control, 2020, 91, 50-62.	3.3	41
4	Reduced dynamic modeling approach for rectification columns based on compartmentalization and artificial neural networks. AIChE Journal, 2019, 65, e16568.	3.6	36
5	A flexible air separation process: 1. Design and steady-state optimizations. AIChE Journal, 2019, 65, e16705.	3.6	29
6	Techno-economic Optimization of a Green-Field Post-Combustion CO ₂ Capture Process Using Superstructure and Rate-Based Models. Industrial & Engineering Chemistry Research, 2016, 55, 12014-12026.	3.7	28
7	Accelerating nonlinear model predictive control through machine learning. Journal of Process Control, 2020, 92, 261-270.	3.3	23
8	Economic Nonlinear Model Predictive Control for Flexible Operation of Air Separation Units. IFAC-PapersOnLine, 2018, 51, 295-300.	0.9	22
9	A wave propagation approach for reduced dynamic modeling of distillation columns: Optimization and control. Journal of Process Control, 2020, 91, 12-24.	3.3	18
10	Nonlinear Dynamic Optimization for Improved Load-Shifting Agility of Cryogenic Air Separation Plants. Computer Aided Chemical Engineering, 2018, , 547-552.	0.5	12
11	The Potential of Hybrid Mechanistic/Data-Driven Approaches for Reduced Dynamic Modeling: Application to Distillation Columns. Chemie-Ingenieur-Technik, 2020, 92, 1910-1920.	0.8	11
12	Identifiability Analysis and Parameter Estimation of Microgel Synthesis: A Set-Membership Approach. Industrial & Engineering Chemistry Research, 2019, 58, 13675-13685.	3.7	10
13	Optimal Start-Up of Air Separation Processes using Dynamic Optimization with Complementarity Constraints. Computer Aided Chemical Engineering, 2020, 48, 1147-1152.	0.5	4
14	Optimal Eco-Routing for Hybrid Vehicles With Powertrain Model Embedded. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14632-14648.	8.0	4