Jorge Mario GÃ³mez

List of Publications by Year
in descending order

23 papers	351 citations	932766 10 h-index	794141 19 g-index
23 all docs	23 docs citations	23 times ranked	313 citing authors

#	Article	IF	Citations
1	Optimal waterflooding management using an embedded predictive analytical model. Journal of Petroleum Science and Engineering, 2022, 208, 109419.	2.1	3
2	Trends and perspectives on emulsified product design. Current Opinion in Chemical Engineering, 2022, 35, 100745.	3.8	8
3	Development of an integrating systems metabolic engineering and bioprocess modeling approach for rational strain improvement. Biochemical Engineering Journal, 2022, 178, 108268.	1.8	1
4	A multiscale approach for the integrated design of emulsified cosmetic products. Chemical Engineering Science, 2022, 251, 117493.	1.9	9
5	Optimal synthesis and design of catalytic distillation columns: A rate-based modeling approach. Chemical Engineering Science, 2021, 231, 116294.	1.9	14
6	Optimization proposal for emulsions formulation considering a multiscale approach. Chemical Engineering Science, 2020, 212, 115326.	1.9	9
7	Integrated design of emulsified cosmetic products: A review. Chemical Engineering Research and Design, 2020, 161, 279-303.	2.7	22
8	Optimal design of superstructures for placing units and streams with multiple and ordered available locations. Part II: Rigorous design of catalytic distillation columns. Computers and Chemical Engineering, 2020, 139, 106845.	2.0	12
9	Optimal design of superstructures for placing units and streams with multiple and ordered available locations. Part I: A new mathematical framework. Computers and Chemical Engineering, 2020, 137, 106794.	2.0	8
10	Simultaneous Design and Control of Catalytic Distillation Columns Using Comprehensive Rigorous Dynamic Models. Industrial & Engineering Chemistry Research, 2018, 57, 2587-2608.	1.8	23
11	Optimal control of single stage LiBr/water absorption chiller. International Journal of Refrigeration, 2018, 92, 1-9.	1.8	26
12	Influence of agricultural activities in the structure and metabolic functionality of paramo soil samples in Colombia studied using a metagenomics analysis in dynamic state. Ecological Modelling, 2017, 351, 63-76.	1.2	11
13	Framework in PYOMO for the assessment and implementation of (as)NMPC controllers. Computers and Chemical Engineering, 2016, 92, 93-111.	2.0	4
14	An Algorithm for Tuning NMPC Controllers with Application to Chemical Processes. Industrial & Engineering Chemistry Research, 2016, 55, 9215-9228.	1.8	13
15	Simultaneous optimal design and operation of a diabatic extractive distillation column based on exergy analysis. International Journal of Exergy, 2015, 17, 287.	0.2	6
16	Index Hybrid Differentialâ€“Algebraic Equations Model Based on Fundamental Principles for Nonlinear Model Predictive Control of a Flash Separation Drum. Industrial & Engineering Chemistry Research, 2015, 54, 2145-2155.	1.8	2
17	Economic Oriented NMPC for an Extractive Distillation Column Using an Index Hybrid DAE Model Based on Fundamental Principles. Industrial & Engineering Chemistry Research, 2015, 54, 6344-6354.	1.8	3
18	Simultaneous Optimal Design and Control of an Extractive Distillation System for the Production of Fuel Grade Ethanol Using a Mathematical Program with Complementarity Constraints. Industrial & Engineering Chemistry Research, 2014, 53, 752-764.	1.8	9

#	Article	IF	Citations
19	Modeling and optimization of a crude distillation unit: A case study for undergraduate students. Computer Applications in Engineering Education, 2013, 21, 276-286.	2.2	7
20	Optimal Control of the Extractive Distillation for the Production of Fuel-Grade Ethanol. Industrial & Engineering Chemistry Research, 2013, 52, 8471-8487.	1.8	13
21	Control of an extractive distillation process to dehydrate ethanol using glycerol as entrainer. Computers and Chemical Engineering, 2012, 39, 129-142.	2.0	116
22	A Mixed Integer Nonlinear Programming Formulation for Optimal Design of a Catalytic Distillation Column Based on a Generic Nonequilibrium Model. Industrial & Engineering Chemistry Research, 2006, 45, 1373-1388.	1.8	32
23	A â€œMINLPâ€•formulation for optimal design of a catalytic distillation column based on a generic non equilibrium model. Computer Aided Chemical Engineering, 2005, 20, 925-930.	0.3	0