

Mãrcio Af Martins

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A One-Layer Stabilizing Model Predictive Control Strategy of Integrating Systems with Repeated Poles. <i>Journal of Control, Automation and Electrical Systems</i> , 2022, 33, 369-381.	1.2	0
2	A long short-term memory based Quasi-Virtual Analyzer for dynamic real-time soft sensing of a Simulated Moving Bed unit. <i>Applied Soft Computing Journal</i> , 2022, 116, 108318.	4.1	4
3	A novel standpoint of Pressure Swing Adsorption processes multi-objective optimization: An approach based on feasible operation region mapping. <i>Chemical Engineering Research and Design</i> , 2022, 178, 590-601.	2.7	12
4	A stabilizing cooperative-distributed gradient-based economic model predictive control strategy for constrained linear systems. <i>Journal of Process Control</i> , 2022, 112, 36-48.	1.7	1
5	Implementable MPC-based surge avoidance nonlinear control strategies for non-ideally modeled natural gas compression systems. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 102, 104573.	2.1	1
6	An MPC auto-tuning framework for tracking economic goals of an ESP-lifted oil well. <i>Journal of Petroleum Science and Engineering</i> , 2022, 217, 110867.	2.1	4
7	An implementable zone NMPC applied to an ESP-lifted oil well system: Handling the lack of measurements with nonlinear state estimator coupling. <i>Journal of Petroleum Science and Engineering</i> , 2022, 216, 110816.	2.1	2
8	A Robust Model Predictive Controller applied to a Pressure Swing Adsorption Process: An Analysis Based on a Linear Model Mismatch. <i>IFAC-PapersOnLine</i> , 2021, 54, 219-224.	0.5	2
9	An Adaptive Infinite Horizon Model Predictive Control Strategy Applied to an ESP-lifted Oil Well System. <i>IFAC-PapersOnLine</i> , 2021, 54, 176-181.	0.5	7
10	Abnormal Operation Tracking through Big-Data-Based Gram-Schmidt Orthogonalization: Production of n-Propyl Propionate in a Simulated Moving-Bed Reactor: A Case Study. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4060-4071.	1.8	1
11	Global Approach for Simulated Moving Bed Model Identification: Design of Experiments, Uncertainty Evaluation, and Optimization Strategy Assessment. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 7904-7916.	1.8	7
12	From an Optimal Point to an Optimal Region: A Novel Methodology for Optimization of Multimodal Constrained Problems and a Novel Constrained Sliding Particle Swarm Optimization Strategy. <i>Mathematics</i> , 2021, 9, 1808.	1.1	9
13	Optimal fragrances formulation using a deep learning neural network architecture: A novel systematic approach. <i>Computers and Chemical Engineering</i> , 2021, 150, 107344.	2.0	11
14	Improving the centrifugal compressor map through rigorous thermodynamic modeling: An analysis on a natural gas compression station pipeline. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 92, 104006.	2.1	4
15	Artificial Intelligence and Cyber-Physical Systems: A Review and Perspectives for the Future in the Chemical Industry. <i>AI</i> , 2021, 2, 429-443.	2.1	14
16	Stable distributed MPC with zone control and input targets. <i>Computers and Chemical Engineering</i> , 2021, 155, 107507.	2.0	4
17	Artificial Intelligence-oriented economic non-linear model predictive control applied to a pressure swing adsorption unit: Syngas purification as a case study. <i>Separation and Purification Technology</i> , 2021, 276, 119333.	3.9	24
18	From a Pareto Front to Pareto Regions: A Novel Standpoint for Multiobjective Optimization. <i>Mathematics</i> , 2021, 9, 3152.	1.1	7

#	ARTICLE	IF	CITATIONS
19	Novel Switch Stabilizing Model Predictive Control Strategy Applied in the Control of a Simulated Moving Bed for the Separation of Bi-Naphthol Enantiomers. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1979-1988.	1.8	2
20	A robustly model predictive control strategy applied in the control of a simulated industrial polyethylene polymerization process. <i>Computers and Chemical Engineering</i> , 2020, 133, 106664.	2.0	9
21	Big Data-Based Optimization of a Pressure Swing Adsorption Unit for Syngas Purification: On Mapping Uncertainties from a Metaheuristic Technique. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14037-14047.	1.8	17
22	An efficient cooperative-distributed model predictive controller with stability and feasibility guarantees for constrained linear systems. <i>Systems and Control Letters</i> , 2020, 141, 104701.	1.3	13
23	Transient analysis of true/simulated moving bed reactors: A case study on the synthesis of n-Propyl propionate. <i>Computers and Chemical Engineering</i> , 2020, 137, 106820.	2.0	7
24	One-layer gradient-based MPC+RTO strategy for unstable processes: a case study of a CSTR system. <i>Brazilian Journal of Chemical Engineering</i> , 2020, 37, 173-188.	0.7	6
25	Understanding the behavior of an effluent generation indicator throughout uncertainty analysis. <i>Applied Water Science</i> , 2020, 10, 1.	2.8	0
26	An implementable stabilizing model predictive controller applied to a rotary flexible link: An experimental case study. <i>Control Engineering Practice</i> , 2020, 99, 104396.	3.2	9
27	An Automatic Tuning Method for Model Predictive Control Strategies. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21602-21613.	1.8	8
28	Optimization of a True Moving Bed unit and determination of its feasible operating region using a novel Sliding Particle Swarm Optimization. <i>Computers and Industrial Engineering</i> , 2019, 135, 368-381.	3.4	17
29	Wave resource characterization through in-situ measurement followed by artificial neural networks' modeling. <i>Renewable Energy</i> , 2018, 115, 1055-1066.	4.3	23
30	Chromatographic studies of n-Propyl Propionate: Adsorption equilibrium, modelling and uncertainties determination. <i>Computers and Chemical Engineering</i> , 2018, 119, 371-382.	2.0	15
31	A novel Bayesian approach to reliability modeling: The benefits of uncertainty evaluation in the model selection procedure. <i>Quality and Reliability Engineering International</i> , 2018, 34, 1127-1141.	1.4	2
32	Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control. <i>Journal of Chromatography A</i> , 2017, 1504, 112-123.	1.8	13
33	A robustly stabilizing model predictive control strategy of stable and unstable processes. <i>Automatica</i> , 2016, 67, 132-143.	3.0	31
34	A PSO-based optimal tuning strategy for constrained multivariable predictive controllers with model uncertainty. <i>ISA Transactions</i> , 2014, 53, 560-567.	3.1	51
35	Robust model predictive control of an industrial partial combustion fluidized-bed catalytic cracking converter. <i>Chemical Engineering Research and Design</i> , 2014, 92, 917-930.	2.7	23
36	Robust model predictive control of integrating time delay processes. <i>Journal of Process Control</i> , 2013, 23, 917-932.	1.7	29

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37	Infinite horizon MPC applied to an industrial FCC converter. , 2013, , .		0
38	Uncertainty evaluation for multivariate industrial processes. Computer Aided Chemical Engineering, 2012, , 365-369.	0.3	2
39	Métodos clássicos para a avaliação da incerteza de medição em sistemas multivariáveis. Controle and Automacao, 2012, 23, 430-438.	0.2	0
40	Bayesian recursive estimation of linear dynamic system states from measurement information. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1558-1563.	2.5	4
41	Generalized expressions of second and third order for the evaluation of standard measurement uncertainty. Measurement: Journal of the International Measurement Confederation, 2011, 44, 1526-1530.	2.5	13
42	New objective function for data reconciliation in water balance from industrial processes. Journal of Cleaner Production, 2010, 18, 1184-1189.	4.6	21
43	Comparação entre os métodos linear e não linear para a avaliação da incerteza de medição. Controle and Automacao, 2010, 21, 557-576.	0.2	3
44	On application of a zone IHMPC to an ESP-lifted oil well system. , 0, , .		2