Jesus Flores-Cerrillo

List of Publications by Year
in descending order

22 papers	922 citations	623734 14 h-index	752698 20 g-index
22 all docs	22 docs citations	22 times ranked	538 citing authors

#	Article	IF	Citations
1	A data-driven linear formulation of the optimal demand response scheduling problem for an industrial air separation unit. Chemical Engineering Science, 2022, 252, 117468.	3.8	12
2	Identification and Online Updating of Dynamic Models for Demand Response of an Industrial Air Separation Unit. IFAC-PapersOnLine, 2021, 54, 140-145.	0.9	1
3	Implementing smart manufacturing across an industrial organization. , 2020, , 27-57.		0
4	Data-driven process monitoring and fault analysis of reformer units in hydrogen plants: Industrial application and perspectives. Computers and Chemical Engineering, 2020, 136, 106756.	3.8	25
5	Consistency-Enhanced Evolution for Variable Selection Can Identify Key Chemical Information from Spectroscopic Data. Industrial & Engineering Chemistry Research, 2020, 59, 3446-3457.	3.7	7
6	Improving Featured-based Soft Sensing through Feature Selection. IFAC-PapersOnLine, 2020, 53, 11338-11343.	0.9	1
7	Optimal demand response scheduling of an industrial air separation unit using data-driven dynamic models. Computers and Chemical Engineering, 2019, 126, 22-34.	3.8	75
8	Preemptive dynamic operation of cryogenic air separation units. AICHE Journal, 2017, 63, 3845-3859.	3.6	15
9	Subspace-based model identification of a hydrogen plant startup dynamics. Computers and Chemical Engineering, 2017, 106, 183-190.	3.8	18
10	Development of a high fidelity and subspace identification model of a hydrogen plant startup dynamics. , 2017, , .		0
11	Optimal Dynamic Operation of a High-Purity Air Separation Plant under Varying Market Conditions. Industrial & Engineering Chemistry Research, 2016, 55, 9956-9970.	3.7	41
12	Dynamic modeling and collocationâ€based model reduction of cryogenic air separation units. AICHE Journal, 2016, 62, 1602-1615.	3.6	48
13	Safe-Parking of a Hydrogen Production Unit. Industrial & Engineering Chemistry Research, 2014, 53, 8147-8154.	3.7	6
14	A non-Gaussian pattern matching based dynamic process monitoring approach and its application to cryogenic air separation process. Computers and Chemical Engineering, 2013, 58, 40-53.	3.8	16
15	Latent Variable Model Predictive Control for Trajectory Tracking in Batch Processes: Internal Model Control Interpretation and Design Methodology. Industrial & Engineering Chemistry Research, 2013, 52, 12437-12450.	3.7	14
16	Latent variable MPC for trajectory tracking in batch processes. Journal of Process Control, 2005, 15, 651-663.	3.3	115
17	Data-based latent variable methods for process analysis, monitoring and control. Computers and Chemical Engineering, 2005, 29, 1217-1223.	3.8	103
18	Iterative Learning Control for Final Batch Product Quality Using Partial Least Squares Models. Industrial & Engineering Chemistry Research, 2005, 44, 9146-9155.	3.7	64

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19	Multivariate monitoring of batch processes using batch-to-batch information. AICHE Journal, 2004, 50, 1219-1228.	3.6	53
20	Control of batch product quality by trajectory manipulation using latent variable models. Journal of Process Control, 2004, 14, 539-553.	3.3	109
21	Within-Batch and Batch-to-Batch Inferential-Adaptive Control of Semibatch Reactors:â€‰ A Partial Least Squares Approach. Industrial & Engineering Chemistry Research, 2003, 42, 3334-3345.	3.7	100
22	Control of Particle Size Distributions in Emulsion Semibatch Polymerization Using Mid-Course Correction Policies. Industrial & Engineering Chemistry Research, 2002, 41, 1805-1814.	3.7	99