Panagiotis Petsagkourakis

List of Publications by Year
in descending order

24 papers	387 citations	933447 10 h-index	794594 19 g-index
24 all docs	24 docs citations	24 times ranked	277 citing authors

#	Article	IF	Citations
1	Reinforcement learning for batch bioprocess optimization. Computers and Chemical Engineering, 2020, 133, 106649.	3.8	111
2	Hybrid physics‐based and data‐driven modeling for bioprocess online simulation and optimization. Biotechnology and Bioengineering, 2019, 116, 2919-2930.	3.3	80
3	Data-driven optimization for process systems engineering applications. Chemical Engineering Science, 2022, 248, 117135.	3.8	24
4	Kinetic and hybrid modeling for yeast astaxanthin production under uncertainty. Biotechnology and Bioengineering, 2021, 118, 4854-4866.	3.3	23
5	Real-time optimization meets Bayesian optimization and derivative-free optimization: A tale of modifier adaptation. Computers and Chemical Engineering, 2021, 147, 107249.	3.8	21
6	Constrained model-free reinforcement learning for process optimization. Computers and Chemical Engineering, 2021, 154, 107462.	3.8	19
7	Safe chance constrained reinforcement learning for batch process control. Computers and Chemical Engineering, 2022, 157, 107630.	3.8	19
8	Stability analysis of piecewise affine systems with multi-model predictive control. Automatica, 2020, 111, 108539.	5.0	18
9	Chance constrained policy optimization for process control and optimization. Journal of Process Control, 2022, 111, 35-45.	3.3	14
10	Integrating process design and control using reinforcement learning. Chemical Engineering Research and Design, 2022, 183, 160-169.	5.6	11
11	Reinforcement Learning for Batch-to-Batch Bioprocess Optimisation. Computer Aided Chemical Engineering, 2019, 46, 919-924.	0.5	9
12	Robust Stability of Barrier-Based Model Predictive Control. IEEE Transactions on Automatic Control, 2021, 66, 1879-1886.	5.7	9
13	Constrained Reinforcement Learning for Dynamic Optimization under Uncertainty. IFAC-PapersOnLine, 2020, 53, 11264-11270.	0.9	8
14	Safe model-based design of experiments using Gaussian processes. Computers and Chemical Engineering, 2021, 151, 107339.	3.8	6
15	Data Driven Reduced Order Nonlinear Multiparametric MPC for Large Scale Systems. Computer Aided Chemical Engineering, 2018, 43, 1249-1254.	0.5	4
16	Robust stability analysis for barrier-based equation-free multi-linear model predictive control. Chemical Engineering Research and Design, 2019, 144, 237-246.	5.6	3
17	Constrained Q-Learning for Batch Process Optimization. IFAC-PapersOnLine, 2021, 54, 492-497.	0.9	3
18	Reduced Order Optimization of Large-Scale Nonlinear Systems with Nonlinear Inequality Constraints Using Steady State Simulators. Industrial & Engineering Chemistry Research, 2018, 57, 9952-9963.	3.7	2

#	Article	IF	Citations
19	Safe Real-Time Optimization using Multi-Fidelity Gaussian Processes. , 2021, , .		2
20	IQC analysis of constrained MPC of large-scale systems. Computer Aided Chemical Engineering, 2017, , 1627-1632.	0.5	1
21	Backoff-Based Model-Based Design of Experiments Under Model Mismatch. Computer Aided Chemical Engineering, 2020, 48, 1777-1782.	0.5	0
22	Acyclic modular flowsheet optimization using multiple trust regions and Gaussian process regression. Computer Aided Chemical Engineering, 2021, 50, 1117-1123.	0.5	0
23	A framework for adaptive online model-based redesign of experiments in dynamic systems. Computer Aided Chemical Engineering, 2021, 50, 1293-1298.	0.5	0
24	Reduced Order Nonlinear Multi-parametric Model Predictive Control of Large Scale Systems. Computer Aided Chemical Engineering, 2018, 44, 721-726.	0.5	0