

Mattia Vallerio

List of Publications by Year in descending order

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Version: 2024-02-01

11
papers

216
citations

1307594

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h-index

1474206

9
g-index

11
all docs

11
docs citations

11
times ranked

239
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning of NMPC controllers via multi-objective optimisation. Computers and Chemical Engineering, 2014, 61, 38-50.	3.8	55
2	An interactive decision-support system for multi-objective optimization of nonlinear dynamic processes with uncertainty. Expert Systems With Applications, 2015, 42, 7710-7731.	7.6	45
3	Robust multi-objective dynamic optimization of chemical processes using the Sigma Point method. Chemical Engineering Science, 2016, 140, 201-216.	3.8	40
4	Symmetric algorithmic differentiation based exact Hessian SQP method and software for Economic MPC. , 2014, , .		19
5	Interactive Multi-Objective Dynamic Optimization of Bioreactors under Parametric Uncertainty. Chemie-Ingenieur-Technik, 2019, 91, 349-362.	0.8	14
6	Multi-Objective and Robust Optimal Control of a CVD Reactor for Polysilicon Production. Computer Aided Chemical Engineering, 2014, 33, 571-576.	0.5	13
7	Interactive NBI and (E)NNC methods for the progressive exploration of the criteria space in multi-objective optimization and optimal control. Computers and Chemical Engineering, 2015, 82, 186-201.	3.8	12
8	Pomodoro: A Novel Toolkit for Dynamic (MultiObjective) Optimization, and Model Based Control and Estimation – All the authors are with KU Leuven - Department of Chemical Engineering, BioTeC & OPTEC, Gebroeders de Smetstraat 1, B-9000,Ghent, Belgium.. IFAC-PapersOnLine, 2018, 51, 719-724.	0.9	9
9	Model-Based Optimization of the Cooling System of an Industrial Tubular LDPE Reactor. Industrial & Engineering Chemistry Research, 2013, 52, 1656-1666.	3.7	5
10	SoLACE: An Open Source Package for Nonlinear Model Predictive Control and State Estimation for (Bio)Chemical Processes. Computer Aided Chemical Engineering, 2016, , 1971-1976.	0.5	4
11	Expanding the exploration of the criterion space for multi-objective optimal control problems. , 2014, , .		0