

# Mattia Vallerio

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12075062/publications.pdf>

Version: 2024-02-01

11  
papers

216  
citations

1307594

7  
h-index

1474206

9  
g-index

11  
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docs citations

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times ranked

239  
citing authors

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