

Nikolaos A Diangelakis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9481023/publications.pdf>

Version: 2024-02-01

20
papers

735
citations

687363

13
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

380
citing authors

#	ARTICLE	IF	CITATIONS
1	PAROCâ€”An integrated framework and software platform for the optimisation and advanced model-based control of process systems. <i>Chemical Engineering Science</i> , 2015, 136, 115-138.	3.8	125
2	POP â€” Parametric Optimization Toolbox. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8979-8991.	3.7	82
3	Process design and control optimization: A simultaneous approach by multiâ€”parametric programming. <i>AIChE Journal</i> , 2017, 63, 4827-4846.	3.6	75
4	Towards the integration of process design, control and scheduling: Are we getting closer?. <i>Computers and Chemical Engineering</i> , 2016, 91, 85-92.	3.8	74
5	On multi-parametric programming and its applications in process systems engineering. <i>Chemical Engineering Research and Design</i> , 2016, 116, 61-82.	5.6	66
6	Explicit model predictive control: A connected-graph approach. <i>Automatica</i> , 2017, 76, 103-112.	5.0	58
7	Integrated process design, scheduling, and control using multiparametric programming. <i>Computers and Chemical Engineering</i> , 2019, 125, 164-184.	3.8	47
8	Simultaneous Process Scheduling and Control: A Multiparametric Programming-Based Approach. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3963-3976.	3.7	39
9	Towards the Grand Unification of Process Design, Scheduling, and Controlâ€”Utopia or Reality?. <i>Processes</i> , 2019, 7, 461.	2.8	38
10	Decentralized Multiparametric Model Predictive Control for Domestic Combined Heat and Power Systems. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3313-3326.	3.7	29
11	Multiparametric Programming in Process Systems Engineering: Recent Developments and Path Forward. <i>Frontiers in Chemical Engineering</i> , 2021, 2, .	2.7	24
12	On unbounded and binary parameters in multi-parametric programming: applications to mixed-integer bilevel optimization and duality theory. <i>Journal of Global Optimization</i> , 2017, 69, 587-606.	1.8	19
13	Design optimization of an internal combustion engine powered CHP system for residential scale application. <i>Computational Management Science</i> , 2014, 11, 237-266.	1.3	18
14	The exact solution of multiparametric quadratically constrained quadratic programming problems. <i>Journal of Global Optimization</i> , 2021, 79, 59-85.	1.8	15
15	Multiparametric/explicit nonlinear model predictive control for quadratically constrained problems. <i>Journal of Process Control</i> , 2021, 103, 55-66.	3.3	10
16	On multiparametric/explicit NMPC for Quadratically Constrained Problems. <i>IFAC-PapersOnLine</i> , 2018, 51, 400-405.	0.9	9
17	Integrated Process Design and Operational Optimization via Multiparametric Programming. <i>Synthesis Lectures on Engineering Science and Technology</i> , 2020, 2, 1-258.	0.2	4
18	Model Approximation in Multiparametric Optimization and Control â€” A Computational Study. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 655-660.	0.5	1

#	ARTICLE	IF	CITATIONS
19	Explicit (Offline) Optimization for MPC. Control Engineering, 2019, , 359-385.	0.3	1
20	A Strategy for the Exact Solution of Multiparametric/Explicit Quadratically Constrained NMPC Problems. IFAC-PapersOnLine, 2020, 53, 11380-11385.	0.9	1