Nikolaos A Diangelakis

List of Publications by Year
in descending order

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	The exact solution of multiparametric quadratically constrained quadratic programming problems. Journal of Global Optimization, 2021, 79, 59-85.	1.8	15
2	Multiparametric Programming in Process Systems Engineering: Recent Developments and Path Forward. Frontiers in Chemical Engineering, 2021, 2, .	2.7	24
3	Multiparametric/explicit nonlinear model predictive control for quadratically constrained problems. Journal of Process Control, 2021, 103, 55-66.	3.3	10
4	Integrated Process Design and Operational Optimization via Multiparametric Programming. Synthesis Lectures on Engineering Science and Technology, 2020, 2, 1-258.	0.2	4
5	A Strategy for the Exact Solution of Multiparametric/Explicit Quadratically Constrained NMPC Problems. IFAC-PapersOnLine, 2020, 53, 11380-11385.	0.9	1
6	Towards the Grand Unification of Process Design, Scheduling, and Control—Utopia or Reality?. Processes, 2019, 7, 461.	2.8	38
7	Integrated process design, scheduling, and control using multiparametric programming. Computers and Chemical Engineering, 2019, 125, 164-184.	3.8	47
8	Explicit (Offline) Optimization for MPC. Control Engineering, 2019, , 359-385.	0.3	1
9	Simultaneous Process Scheduling and Control: A Multiparametric Programming-Based Approach. Industrial & Engineering Chemistry Research, 2018, 57, 3963-3976.	3.7	39
10	On multiparametric/explicit NMPC for Quadratically Constrained Problems. IFAC-PapersOnLine, 2018, 51, 400-405.	0.9	9
11	Model Approximation in Multiparametric Optimization and Control — A Computational Study. Computer Aided Chemical Engineering, 2018, 44, 655-660.	0.5	1
12	Explicit model predictive control: A connected-graph approach. Automatica, 2017, 76, 103-112.	5.0	58
13	Process design and control optimization: A simultaneous approach by multi-parametric programming. AICHE Journal, 2017, 63, 4827-4846.	3.6	75
14	On unbounded and binary parameters in multi-parametric programming: applications to mixed-integer bilevel optimization and duality theory. Journal of Global Optimization, 2017, 69, 587-606.	1.8	19
15	POP — Parametric Optimization Toolbox. Industrial & Engineering Chemistry Research, 2016, 55, 8979-8991.	3.7	82
16	On multi-parametric programming and its applications in process systems engineering. Chemical Engineering Research and Design, 2016, 116, 61-82.	5.6	66
17	Towards the integration of process design, control and scheduling: Are we getting closer?. Computers and Chemical Engineering, 2016, 91, 85-92.	3.8	74
18	Decentralized Multiparametric Model Predictive Control for Domestic Combined Heat and Power Systems. Industrial & Engineering Chemistry Research, 2016, 55, 3313-3326.	3.7	29

#	Article	IF	Citations
19	PAROCâ€"An integrated framework and software platform for the optimisation and advanced model-based control of process systems. Chemical Engineering Science, 2015, 136, 115-138.	3.8	125
20	Design optimization of an internal combustion engine powered CHP system for residential scale application. Computational Management Science, 2014, 11, 237-266.	1.3	18