## Alejandro Vignoni

List of Publications by Year in descending order

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1162367 839053 32 366 8 18 citations g-index h-index papers 36 36 36 338 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Multi-Objective Optimization Tuning Framework for Kinetic Parameter Selection and Estimation. Methods in Molecular Biology, 2022, 2385, 65-89.	0.4	1
2	Modeling and Optimization of a Molecular Biocontroller for the Regulation of Complex Metabolic Pathways. Frontiers in Molecular Biosciences, 2022, 9, 801032.	1.6	1
3	Stochastic Differential Equations for Practical Simulation of Gene Circuits. Methods in Molecular Biology, 2021, 2229, 41-90.	0.4	2
4	Alkylation of a hydrophilic photosensitizer enhances the contact-dependent photo-induced oxidation of phospholipid membranes. Dyes and Pigments, 2021, 187, 109131.	2.0	9
5	Gene Expression Space Shapes the Bioprocess Trade-Offs among Titer, Yield and Productivity. Applied Sciences (Switzerland), 2021, 11, 5859.	1.3	1
6	RBS and Promoter Strengths Determine the Cell-Growth-Dependent Protein Mass Fractions and Their Optimal Synthesis Rates. ACS Synthetic Biology, 2021, 10, 3290-3303.	1.9	11
7	Automated code evaluation of computer programming sessions with MATLAB Grader. , 2021, , .		1
8	Multiobjective Identification of a Feedback Synthetic Gene Circuit. IEEE Transactions on Control Systems Technology, 2020, 28, 208-223.	3.2	6
9	Robust estimation of bacterial cell count from optical density. Communications Biology, 2020, 3, 512.	2.0	86
10	Extended Metabolic Biosensor Design for Dynamic Pathway Regulation of Cell Factories. IScience, 2020, 23, 101305.	1.9	30
11	Characterization of Gene Circuit Parts Based on Multiobjective Optimization by Using Standard Calibrated Measurements. ChemBioChem, 2019, 20, 2653-2665.	1.3	10
12	Biomolecular signal tracker with fast time response IFAC-PapersOnLine, 2019, 52, 1-6.	0.5	2
13	Model mismatch in multi-objective optimisation and preservation of trade-off order IFAC-PapersOnLine, 2019, 52, 249-254.	0.5	2
14	Fluorescence calibration and color equivalence for quantitative synthetic biology IFAC-PapersOnLine, 2019, 52, 129-134.	0.5	2
15	Multi-objective identification from fluorescence recovery after photobleaching experiments: Understanding morphogenetic regulation of epithelial polarity. IFAC-PapersOnLine, 2018, 51, 8-11.	0.5	1
16	Host-circuit interactions explain unexpected behavior of a gene circuit IFAC-PapersOnLine, 2018, 51, 86-89.	0.5	5
17	work is partially supported by Spanish government and European Union (FEDER-CICYT) Tj ETQq1 1 0.784314 rgBT		2 10 Tf 50 11 3
18	and the MPI-CBG. The authors are. IFAC-PapersOnLine, 2017, 50, 4472-4477.  Multi-objective identification of synthetic circuits stochastic models using flow flcytometry data., 2017,,		1

#	Article	IF	CITATIONS
19	Engineered Control of Genetic Variability Reveals Interplay among Quorum Sensing, Feedback Regulation, and Biochemical Noise. ACS Synthetic Biology, 2017, 6, 1903-1912. Parameter identification in synthetic biological circuits using multi-objective optimization * *This	1.9	22
20	work is partially supported by Spanish government and European Union (FEDER-CICYT) Tj ETQq0 0 0 rgBT /Over ValÃ"ncia and Becas IberoamÃ@rica of Santander Group, Spain 2015. G.R.M. thanks the partial support provided by the postdoctoral fellowship BIT-304804/2014-2 from the National Council of Scientific and	rlock 10 Tf 0.5	50 712 Td (DI 2
21	Technologic Developm. IFAC-Papers Online. 2016, 49, 77-82. Contractivity of a genetic circuit with internal feedback and cell-to-cell communication * *This research was partially funded by grant FEDER-CICYT DPI2014-55276-C5-1-R. Yadira Boada thanks grant FPI/2013-3242 of the Universitat Politä cnica de Valencia. IFAC-Papers Online. 2016, 49, 213-218. Optimization Alternatives for Robust Model-based Design of Synthetic Biological Circuits **The	0.5	1
22	research leading to these results has received funding from the European Union (FP7/2007-2013 under) Tj ETQc Development of Brazil (BJT-304804/2014-2). Yadira Boada thanks also grant FPI/2013-3242 of the	q0 0 0 rgB 0.5	T /Overlock 10 3
23	Universitat PolitÂ'cnica de Valencia IFAC-PapersOnLine, 2016, 49, 821-826.  Multi-objective optimization framework to obtain model-based guidelines for tuning biological synthetic devices: an adaptive network case. BMC Systems Biology, 2016, 10, 27.	3.0	35
24	Improvement of a CLE stochastic simulation of gene synthetic network with quorum sensing and feedback in a cell population. , $2015, \dots$		7
25	Stability preserving maps for finite-time convergence: Super-twisting sliding-mode algorithm. Automatica, 2013, 49, 534-539.	3.0	50
26	Second-order sliding mode observer for multiple kinetic rates estimation in bioprocesses. Control Engineering Practice, 2013, 21, 1259-1265.	3.2	26
27	Sliding Mode Reference Coordination of Constrained Feedback Systems. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	О
28	Specific Kinetic Rates Regulation in Multi-Substrate Fermentation Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 42-47.	0.4	0
29	UAV reference conditioning for formation control via set invariance and sliding modes*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 317-322.	0.4	2
30	Dynamical Systems Coordination via Sliding Mode Reference Conditioning*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11086-11091.	0.4	3
31	Specific growth rate estimation in (fed-)batch bioreactors using second-order sliding observers. Journal of Process Control, 2011, 21, 1049-1055.	1.7	28
32	Specific Growth Rate Estimation in Bioreactors Using Second-Order Sliding Observers*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 251-256.	0.4	O