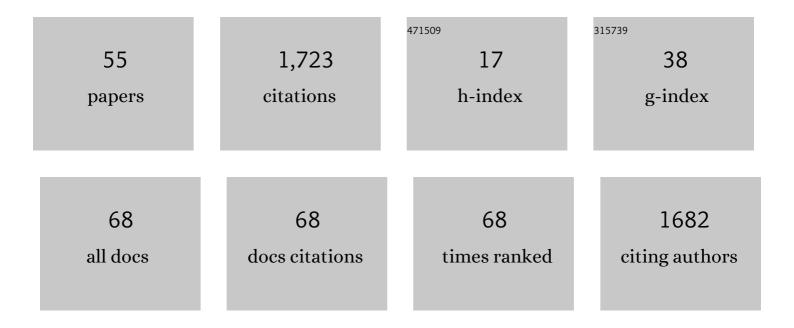
Diego A OyarzÃ^on

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2577300/publications.pdf Version: 2024-02-01



Dieco A ΟναρζÃΩΝ

#	Article	IF	CITATIONS
1	Microbial polysaccharides: An emerging family of natural biomaterials for cancer therapy and diagnostics. Seminars in Cancer Biology, 2022, 86, 706-731.	9.6	14
2	Stabilization of antithetic control via molecular buffering. Journal of the Royal Society Interface, 2022, 19, 20210762.	3.4	7
3	Trade-Offs in Biosensor Optimization for Dynamic Pathway Engineering. ACS Synthetic Biology, 2022, 11, 228-240.	3.8	13
4	Prediction of Cellular Burden with Host–Circuit Models. Methods in Molecular Biology, 2021, 2229, 267-291.	0.9	6
5	Systems level profiling of chemotherapy-induced stress resolution in cancer cells reveals druggable trade-offs. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118,	7.1	18
6	A Stochastic Model of Gene Expression with Polymerase Recruitment and Pause Release. Biophysical Journal, 2020, 119, 1002-1014.	0.5	35
7	Computation of Single-Cell Metabolite Distributions Using Mixture Models. Frontiers in Cell and Developmental Biology, 2020, 8, 614832.	3.7	13
8	Metabolite Sequestration Enables Rapid Recovery from Fatty Acid Depletion in Escherichia coli. MBio, 2020, 11, .	4.1	13
9	Opportunities at the Interface of Network Science and Metabolic Modeling. Frontiers in Bioengineering and Biotechnology, 2020, 8, 591049.	4.1	15
10	Are We There Yet? How and When Specific Biotechnologies Will Improve Human Health. Biotechnology Journal, 2019, 14, e1800195.	3.5	7
11	Riboswitch identification using Ligase-Assisted Selection for the Enrichment of Responsive Ribozymes (LigASERR). Synthetic Biology, 2019, 4, ysz019.	2.2	3
12	Growth Defects and Loss-of-Function in Synthetic Gene Circuits. ACS Synthetic Biology, 2019, 8, 1231-1240.	3.8	53
13	Stochastic modelling reveals mechanisms of metabolic heterogeneity. Communications Biology, 2019, 2, 108.	4.4	44
14	Multiobjective optimization of gene circuits for metabolic engineering. IFAC-PapersOnLine, 2019, 52, 13-16.	0.9	5
15	Pathways to cellular supremacy in biocomputing. Nature Communications, 2019, 10, 5250.	12.8	88
16	Dynamics of complex feedback architectures in metabolic pathways. Automatica, 2019, 99, 323-332.	5.0	20
17	Analysis of a genetic-metabolic oscillator with piecewise linear models. Journal of Theoretical Biology, 2019, 462, 259-269.	1.7	7
18	Integrated Systems Level Examination of Proteasome Inhibitor Stress Recovery in Myeloma Cells Reveals Druggable Vulnerabilities Linked to Multiple Metabolic Processes. Blood, 2019, 134, 1818-1818.	1.4	0

Diego A Oyarzún

#	Article	IF	CITATIONS
19	Dynamic metabolic control: towards precision engineering of metabolism. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 535-543.	3.0	86
20	The power of synthetic biology for bioproduction, remediation and pollution control. EMBO Reports, 2018, 19, .	4.5	83
21	Host-circuit interactions explain unexpected behavior of a gene circuit IFAC-PapersOnLine, 2018, 51, 86-89.	0.9	5
22	Flux-dependent graphs for metabolic networks. Npj Systems Biology and Applications, 2018, 4, 32.	3.0	29
23	Fundamental Design Principles for Transcription-Factor-Based Metabolite Biosensors. ACS Synthetic Biology, 2017, 6, 1851-1859.	3.8	152
24	Signaling Tug-of-War Delivers the Whole Message. Cell Systems, 2016, 3, 414-416.	6.2	0
25	Shaping pulses to control bistable systems: Analysis, computation and counterexamples. Automatica, 2016, 63, 254-264.	5.0	30
26	Shaping pulses to control bistable biological systems. , 2015, , .		4
27	Design of a bistable switch to control cellular uptake. Journal of the Royal Society Interface, 2015, 12, 20150618.	3.4	25
28	Mechanistic links between cellular trade-offs, gene expression, and growth. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1038-47.	7.1	342
29	Noise Propagation in Synthetic Gene Circuits for Metabolic Control. ACS Synthetic Biology, 2015, 4, 116-125.	3.8	76
30	Dynamic optimization of metabolic networks coupled with gene expression. Journal of Theoretical Biology, 2015, 365, 469-485.	1.7	76
31	Spatial Quantification of Cytosolic Ca <inline-formula><tex-math>\$^{2+}\$</tex-math></inline-formula> Accumulation in Nonexcitable Cells:An Analytical Study. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 592-603.	3.0	9
32	Model Reduction of Genetic-Metabolic Networks via Time Scale Separation. , 2014, , 181-210.		5
33	The EGFR demonstrates linear signal transmission. Integrative Biology (United Kingdom), 2014, 6, 736-742.	1.3	5
34	Synthetic gene circuits for metabolic control: design trade-offs and constraints. Journal of the Royal Society Interface, 2013, 10, 20120671.	3.4	70
35	Cumulative Signal Transmission in Nonlinear Reaction-Diffusion Networks. PLoS ONE, 2013, 8, e62834.	2.5	1
36	Stochastic simulation of enzymatic reactions under transcriptional feedback regulation. , 2013, , .		2

Stochastic simulation of enzymatic reactions under transcriptional feedback regulation. , 2013, , . 36

Diego A Oyarzún

#	Article	IF	CITATIONS
37	Analytic computation of the integrated response in nonlinear reaction-diffusion systems. , 2012, , .		3
38	Design tradeoffs in a synthetic gene control circuit for metabolic networks. , 2012, , .		3
39	Design constraints in an operon circuit for engineered control of metabolic networks. , 2012, , .		0
40	Predicting the F(ab)-mediated effect of monoclonal antibodies in vivo by combining cell-level kinetic and pharmacokinetic modelling. Journal of Pharmacokinetics and Pharmacodynamics, 2012, 39, 125-139.	1.8	11
41	Multistability and oscillations in genetic control of metabolism. Journal of Theoretical Biology, 2012, 295, 139-153.	1.7	34
42	Optimal adaptation of metabolic networks in dynamic equilibrium. , 2011, , .		1
43	Global Gene Regulation in Metabolic Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14838-14843.	0.4	3
44	Optimal control of metabolic networks with saturable enzyme kinetics. IET Systems Biology, 2011, 5, 110-119.	1.5	13
45	Sequential Activation of Metabolic Pathways: a Dynamic Optimization Approach. Bulletin of Mathematical Biology, 2009, 71, 1851-1872.	1.9	37
46	An analytic characterization of a stabilizing feedback for LTI plants. , 2009, , .		0
47	Cascaded Multilevel Inverter With Regeneration Capability and Reduced Number of Switches. IEEE Transactions on Industrial Electronics, 2008, 55, 1059-1066.	7.9	197
48	Optimal Metabolic Pathway Activation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12587-12592.	0.4	0
49	On structurally constrained â,,<2 performance bounds for stable MIMO plant models. IET Control Theory and Applications, 2007, 1, 1033-1045.	2.1	10
50	Optimal triangular approximation for linear stable multivariable systems. Proceedings of the American Control Conference, 2007, , .	0.0	0
51	Double objective optimal multivariable ripple-free deadbeat control. International Journal of Control, 2007, 80, 763-773.	1.9	6
52	<mml:math <br="" altimg="si1.gif" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi </mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow>optimal ripple-free deadbeat controller design. Automatica, 2007, 43, 1961-1967.</mml:msub></mml:math>)> <td>nath></td>	nath>
53	Effect of downstream feedback on the achievable performance of feedback control loops for serial processes. , 2007, , .		0
54	MIMO INTERACTIONS IN SAMPLED DATA SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 119-124.	0.4	2

#	Article	IF	CITATIONS
55	Novel cell based on reduced single-phase active front end for multicell converters. , 2005, , .		14