

Francesco Montefusco

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

272
citations

840119

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g-index

26
all docs

26
docs citations

26
times ranked

248
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable reverse-engineering of gene regulatory networks from time-course measurements. International Journal of Robust and Nonlinear Control, 2023, 33, 5023-5038.	2.1	3
2	CBRA: Cardiac biomarkers release analyzer. Computer Methods and Programs in Biomedicine, 2021, 204, 106037.	2.6	5
3	Deciphering the Role of Wnt and Rho Signaling Pathway in iPSC-Derived ARVC Cardiomyocytes by In Silico Mathematical Modeling. International Journal of Molecular Sciences, 2021, 22, 2004.	1.8	14
4	Heterogeneous alpha-cell population modeling of glucose-induced inhibition of electrical activity. Journal of Theoretical Biology, 2020, 485, 110036.	0.8	12
5	Exploiting Ultrasensitivity for Biomolecular Implementation of a Control System without Error Detection. IFAC-PapersOnLine, 2019, 52, 149-155.	0.5	2
6	From Local to Global Modeling for Characterizing Calcium Dynamics and Their Effects on Electrical Activity and Exocytosis in Excitable Cells. International Journal of Molecular Sciences, 2019, 20, 6057.	1.8	2
7	Explicit Theoretical Analysis of How the Rate of Exocytosis Depends on Local Control by Ca^{2+} Channels. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-12.	0.7	15
8	Concise Whole-Cell Modeling of BK Ca - CaV Activity Controlled by Local Coupling and Stoichiometry. Biophysical Journal, 2017, 112, 2387-2396.	0.2	13
9	Recent advances in mathematical modeling and statistical analysis of exocytosis in endocrine cells. Mathematical Biosciences, 2017, 283, 60-70.	0.9	11
10	Ultrasensitive Negative Feedback Control: A Natural Approach for the Design of Synthetic Controllers. PLoS ONE, 2016, 11, e0161605.	1.1	23
11	Implementing Nonlinear Feedback Controllers Using DNA Strand Displacement Reactions. IEEE Transactions on Nanobioscience, 2016, 15, 443-454.	2.2	60
12	Mathematical modelling of local calcium and regulated exocytosis during inhibition and stimulation of glucagon secretion from pancreatic alpha-cells. Journal of Physiology, 2015, 593, 4519-4530.	1.3	28
13	Biomolecular implementation of a quasi sliding mode feedback controller based on DNA strand displacement reactions. , 2015, 2015, 949-52.		10
14	Modelling and Analysis of Feedback Control Mechanisms Underlying Osmoregulation in Yeast. , 2014, , 83-116.		0
15	On the role of ultrasensitivity in biomolecular control systems. , 2012, , .		1
16	Reverse-engineering biological interaction networks from noisy data using Regularized Least Squares and Instrumental Variables. , 2011, , .		1
17	Reverse Engineering Partially-Known Interaction Networks from Noisy Data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11679-11684.	0.4	1
18	CORE-Net: exploiting prior knowledge and preferential attachment to infer biological interaction networks. IET Systems Biology, 2010, 4, 296-310.	0.8	14

#	ARTICLE	IF	CITATIONS
19	Exploiting prior knowledge and preferential attachment to infer biological interaction networks. , 2009, , .		0
20	Early detection of voice diseases via a web-based system. Biomedical Signal Processing and Control, 2009, 4, 206-211.	3.5	14
21	Input-output finite-time stability of linear systems. , 2009, , .		18
22	Inferring scale-free networks via multiple linear regression and preferential attachment. , 2008, , .		0
23	A web-based system for the collection and analysis of spectra signals for early detection of voice alterations. , 2008, , .		1
24	Linear matrix inequalities approach to reconstruction of biological networks. IET Systems Biology, 2007, 1, 164-173.	0.8	24
25	Recent advances in mathematical modeling and statistical analysis of exocytosis in endocrine cells. , 0, , .		0