

# Francesco Montefusco

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3958932/publications.pdf>

Version: 2024-02-01

25  
papers

272  
citations

840119

11  
h-index

940134

16  
g-index

26  
all docs

26  
docs citations

26  
times ranked

248  
citing authors

#	ARTICLE	IF	CITATIONS
1	Implementing Nonlinear Feedback Controllers Using DNA Strand Displacement Reactions. IEEE Transactions on Nanobioscience, 2016, 15, 443-454.	2.2	60
2	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
3	Linear matrix inequalities approach to reconstruction of biological networks. IET Systems Biology, 2007, 1, 164-173.	0.8	24
4	Ultrasensitive Negative Feedback Control: A Natural Approach for the Design of Synthetic Controllers. PLoS ONE, 2016, 11, e0161605.	1.1	23
5	Input-output finite-time stability of linear systems. , 2009, , .		18
6	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
7	Early detection of voice diseases via a web-based system. Biomedical Signal Processing and Control, 2009, 4, 206-211.	3.5	14
8	CORE-Net: exploiting prior knowledge and preferential attachment to infer biological interaction networks. IET Systems Biology, 2010, 4, 296-310.	0.8	14
9	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
10	Concise Whole-Cell Modeling of BK $Ca^{2+}$ -CaV Activity Controlled by Local Coupling and Stoichiometry. Biophysical Journal, 2017, 112, 2387-2396.	0.2	13
11	Heterogeneous alpha-cell population modeling of glucose-induced inhibition of electrical activity. Journal of Theoretical Biology, 2020, 485, 110036.	0.8	12
12	Recent advances in mathematical modeling and statistical analysis of exocytosis in endocrine cells. Mathematical Biosciences, 2017, 283, 60-70.	0.9	11
13	Biomolecular implementation of a quasi sliding mode feedback controller based on DNA strand displacement reactions. , 2015, 2015, 949-52.		10
14	CBRA: Cardiac biomarkers release analyzer. Computer Methods and Programs in Biomedicine, 2021, 204, 106037.	2.6	5
15	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
16	Exploiting Ultrasensitivity for Biomolecular Implementation of a Control System without Error Detection. IFAC-PapersOnLine, 2019, 52, 149-155.	0.5	2
17	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
18	A web-based system for the collection and analysis of spectra signals for early detection of voice alterations. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
19	Reverse-engineering biological interaction networks from noisy data using Regularized Least Squares and Instrumental Variables. , 2011, , .		1
20	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
21	On the role of ultrasensitivity in biomolecular control systems. , 2012, , .		1
22	Inferring scale-free networks via multiple linear regression and preferential attachment. , 2008, , .		0
23	Exploiting prior knowledge and preferential attachment to infer biological interaction networks. , 2009, , .		0
24	Modelling and Analysis of Feedback Control Mechanisms Underlying Osmoregulation in Yeast. , 2014, , 83-116.		0
25	Recent advances in mathematical modeling and statistical analysis of exocytosis in endocrine cells. , 0, , .		0