

Gustavo C MartÃ-nez-Mekler

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

405
citations

1039406

9
h-index

752256

20
g-index

27
all docs

27
docs citations

27
times ranked

342
citing authors

#	ARTICLE	IF	CITATIONS
1	Universality of Rank-Ordering Distributions in the Arts and Sciences. PLoS ONE, 2009, 4, e4791.	1.1	195
2	Network model predicts that CatSper is the main Ca ²⁺ channel in the regulation of sea urchin sperm motility. Scientific Reports, 2017, 7, 4236.	1.6	31
3	Discrete Dynamics Model for the Speract-Activated Ca ²⁺ Signaling Network Relevant to Sperm Motility. PLoS ONE, 2011, 6, e22619.	1.1	24
4	Boolean Threshold Networks: Virtues and Limitations for Biological Modeling. Intelligent Systems Reference Library, 2011, , 113-151.	1.0	18
5	Arrow of time across five centuries of classical music. Physical Review Research, 2020, 2, .	1.3	16
6	In Silico Determination of the Effect of Multi-Target Drugs on Calcium Dynamics Signaling Network Underlying Sea Urchin Spermatozoa Motility. PLoS ONE, 2014, 9, e104451.	1.1	15
7	Niflumic acid disrupts marine spermatozoan chemotaxis without impairing the spatiotemporal detection of chemoattractant gradients. Journal of Cell Science, 2013, 126, 1477-87.	1.2	14
8	Discrete Dynamic Model of the Mammalian Sperm Acrosome Reaction: The Influence of Acrosomal pH and Physiological Heterogeneity. Frontiers in Physiology, 2021, 12, 682790.	1.3	14
9	Modular analysis of the control of flagellar Ca ²⁺ -spike trains produced by CatSper and Ca _v channels in sea urchin sperm. PLoS Computational Biology, 2020, 16, e1007605.	1.5	12
10	Multiple scaling behaviour and nonlinear traits in music scores. Royal Society Open Science, 2017, 4, 171282.	1.1	10
11	Transmission and scattering of a Lorentz gas on a slab. Physical Review E, 1998, 58, 4254-4260.	0.8	8
12	Interaction of the IP ₃ Ca and MAPK signaling systems in the blastomere: a possible frequency encoding mechanism for the control of the gene expression. Bulletin of Mathematical Biology, 2005, 67, 433-465.	0.9	8
13	Interaction of the IP ₃ -Ca ²⁺ and the FGF-MAPK signaling pathways in the <i>Xenopus laevis</i> embryo: a qualitative approach to the mesodermal induction problem. Biophysical Chemistry, 2002, 97, 55-72.	1.5	7
14	Rank ordered beta distributions of nonlinear map symbolic dynamics families with a first-order transition between dynamical regimes. Chaos, 2018, 28, 075515.	1.0	7
15	Role of a spatial distribution of IP ₃ receptors in the Ca ²⁺ dynamics of the <i>Xenopus</i> embryo at the mid-blastula transition stage. Developmental Dynamics, 2005, 232, 301-312.	0.8	6
16	On the dynamics of Liesegang-type pattern formation in a gaseous system. Scientific Reports, 2016, 6, 23402.	1.6	6
17	Irregular Liesegang-type patterns in gas phase revisited. I. Experimental setup, data processing, and test of the spacing law. Journal of Chemical Physics, 2016, 144, 174701.	1.2	4
18	Scaling and extended scaling in sediment registers of a paleolake perturbed by volcanic activity. Physica A: Statistical Mechanics and Its Applications, 2006, 366, 485-494.	1.2	3

#	ARTICLE	IF	CITATIONS
19	Irregular Liesegang-type patterns in gas phase revisited. II. Statistical correlation analysis. Journal of Chemical Physics, 2016, 144, 174702.	1.2	3
20	Mathematical model reveals that heterogeneity in the number of ion transporters regulates the fraction of mouse sperm capacitation. PLoS ONE, 2021, 16, e0245816.	1.1	2
21	Theoretical study of the effect of ports in the formation of city systems. Journal of Shipping and Trade, 2022, 7, .	0.7	2
22	Transport properties of the diluted Lorentz slab. Physical Review E, 2001, 64, 041101.	0.8	0