

Gustavo C MartÃ-nez-Mekler

List of Publications by Year in descending order

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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	Theoretical study of the effect of ports in the formation of city systems. <i>Journal of Shipping and Trade</i> , 2022, 7, .	0.7	2
2	Discrete Dynamic Model of the Mammalian Sperm Acrosome Reaction: The Influence of Acrosomal pH and Physiological Heterogeneity. <i>Frontiers in Physiology</i> , 2021, 12, 682790.	1.3	14
3	Mathematical model reveals that heterogeneity in the number of ion transporters regulates the fraction of mouse sperm capacitation. <i>PLoS ONE</i> , 2021, 16, e0245816.	1.1	2
4	Modular analysis of the control of flagellar Ca ²⁺ -spike trains produced by CatSper and CaV channels in sea urchin sperm. <i>PLoS Computational Biology</i> , 2020, 16, e1007605.	1.5	12
5	Arrow of time across five centuries of classical music. <i>Physical Review Research</i> , 2020, 2, .	1.3	16
6	Rank ordered beta distributions of nonlinear map symbolic dynamics families with a first-order transition between dynamical regimes. <i>Chaos</i> , 2018, 28, 075515.	1.0	7
7	Network model predicts that CatSper is the main Ca ²⁺ channel in the regulation of sea urchin sperm motility. <i>Scientific Reports</i> , 2017, 7, 4236.	1.6	31
8	Multiple scaling behaviour and nonlinear traits in music scores. <i>Royal Society Open Science</i> , 2017, 4, 171282.	1.1	10
9	Irregular Liesegang-type patterns in gas phase revisited. I. Experimental setup, data processing, and test of the spacing law. <i>Journal of Chemical Physics</i> , 2016, 144, 174701.	1.2	4
10	On the dynamics of Liesegang-type pattern formation in a gaseous system. <i>Scientific Reports</i> , 2016, 6, 23402.	1.6	6
11	Irregular Liesegang-type patterns in gas phase revisited. II. Statistical correlation analysis. <i>Journal of Chemical Physics</i> , 2016, 144, 174702.	1.2	3
12	In Silico Determination of the Effect of Multi-Target Drugs on Calcium Dynamics Signaling Network Underlying Sea Urchin Spermatozoa Motility. <i>PLoS ONE</i> , 2014, 9, e104451.	1.1	15
13	Niflumic acid disrupts marine spermatozoan chemotaxis without impairing the spatiotemporal detection of chemoattractant gradients. <i>Journal of Cell Science</i> , 2013, 126, 1477-87.	1.2	14
14	Boolean Threshold Networks: Virtues and Limitations for Biological Modeling. <i>Intelligent Systems Reference Library</i> , 2011, , 113-151.	1.0	18
15	Discrete Dynamics Model for the Speract-Activated Ca ²⁺ Signaling Network Relevant to Sperm Motility. <i>PLoS ONE</i> , 2011, 6, e22619.	1.1	24
16	Universality of Rank-Ordering Distributions in the Arts and Sciences. <i>PLoS ONE</i> , 2009, 4, e4791.	1.1	195
17	Scaling and extended scaling in sediment registers of a paleolake perturbed by volcanic activity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 366, 485-494.	1.2	3
18	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. <i>Bulletin of Mathematical Biology</i> , 2005, 67, 433-465.	0.9	8

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19	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. <i>Developmental Dynamics</i> , 2005, 232, 301-312.	0.8	6
20	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. <i>Biophysical Chemistry</i> , 2002, 97, 55-72.	1.5	7
21	Transport properties of the diluted Lorentz slab. <i>Physical Review E</i> , 2001, 64, 041101.	0.8	0
22	Transmission and scattering of a Lorentz gas on a slab. <i>Physical Review E</i> , 1998, 58, 4254-4260.	0.8	8