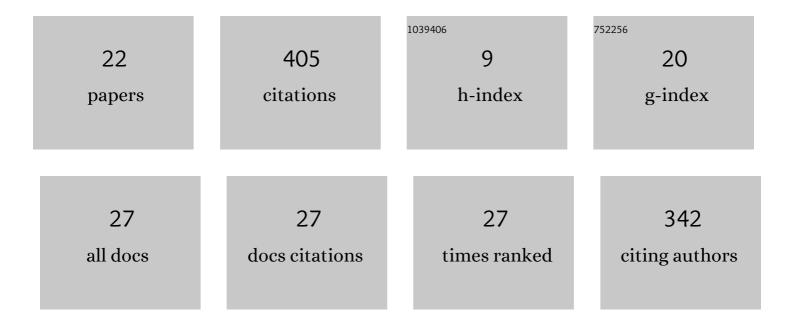
## Gustavo C MartÃ-nez-Mekler

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2966131/publications.pdf

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#	Article	IF	CITATIONS
1	Theoretical study of the effect of ports in the formation of city systems. Journal of Shipping and Trade, 2022, 7, .	0.7	2
2	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
3	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
4	Modular analysis of the control of flagellar Ca2+-spike trains produced by CatSper and CaV channels in sea urchin sperm. PLoS Computational Biology, 2020, 16, e1007605.	1.5	12
5	Arrow of time across five centuries of classical music. Physical Review Research, 2020, 2, .	1.3	16
6	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
7	Network model predicts that CatSper is the main Ca2+ channel in the regulation of sea urchin sperm motility. Scientific Reports, 2017, 7, 4236.	1.6	31
8	Multiple scaling behaviour and nonlinear traits in music scores. Royal Society Open Science, 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. Journal of Chemical Physics, 2016, 144, 174701.	1.2	4
10	On the dynamics of Liesegang-type pattern formation in a gaseous system. Scientific Reports, 2016, 6, 23402.	1.6	6
11	Irregular Liesegang-type patterns in gas phase revisited. II. Statistical correlation analysis. Journal of Chemical Physics, 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. PLoS ONE, 2014, 9, e104451.	1.1	15
13	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
14	Boolean Threshold Networks: Virtues and Limitations for Biological Modeling. Intelligent Systems Reference Library, 2011, , 113-151.	1.0	18
15	Discrete Dynamics Model for the Speract-Activated Ca2+ Signaling Network Relevant to Sperm Motility. PLoS ONE, 2011, 6, e22619.	1.1	24
16	Universality of Rank-Ordering Distributions in the Arts and Sciences. PLoS ONE, 2009, 4, e4791.	1.1	195
17	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
18	Interaction of the IP?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

#	Article	IF	CITATIONS
19	Role of a spatial distribution of IP3receptors in the Ca2+dynamics of theXenopusembryo at the mid-blastula transition stage. Developmental Dynamics, 2005, 232, 301-312.	0.8	6
20	Interaction of the IP3-Ca2+ and the FGF-MAPK signaling pathways in the Xenopus laevis embryo: a qualitative approach to the mesodermal induction problem. Biophysical Chemistry, 2002, 97, 55-72.	1.5	7
21	Transport properties of the diluted Lorentz slab. Physical Review E, 2001, 64, 041101.	0.8	Ο
22	Transmission and scattering of a Lorentz gas on a slab. Physical Review E, 1998, 58, 4254-4260.	0.8	8