Maximino Aldana

List of Publications by Year
in descending order

32	2,552	394421 19	477307 29
papers	citations	h-index	g-index

35	35	35	1943
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-Propulsion Enhances Polymerization. Entropy, 2020, 22, 251.	2.2	3
2	Scaling laws and criticality in voter models and neuronal dynamics. INTERdisciplina, 2020, 8, 23.	0.2	0
3	Delay in the dispersal of flocks moving in unbounded space using long-range interactions. Scientific Reports, 2018, 8, 15872.	3.3	17
4	Modeling the Role of the Microbiome in Evolution. Frontiers in Physiology, 2018, 9, 1836.	2.8	39
5	Evolving Ecosystems: Inheritance and Selection in the Light of the Microbiome. Archives of Medical Research, 2017, 48, 780-789.	3.3	20
6	The Human Microbiome and the Missing Heritability Problem. Frontiers in Genetics, 2017, 8, 80.	2.3	67
7	Adaptive resistance to antibiotics in bacteria: a systems biology perspective. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2016, 8, 253-267.	6.6	74
8	Adaptive Resistance in Bacteria Requires Epigenetic Inheritance, Genetic Noise, and Cost of Efflux Pumps. PLoS ONE, 2015, 10, e0118464.	2.5	81
9	Criticality Is an Emergent Property of Genetic Networks that Exhibit Evolvability. PLoS Computational Biology, 2012, 8, e1002669.	3.2	99
10	Regulatory Design Governing Progression of Population Growth Phases in Bacteria. PLoS ONE, 2012, 7, e30654.	2.5	16
11	Pattern Recognition in Neural Networks with Competing Dynamics: Coexistence of Fixed-Point and Cyclic Attractors. PLoS ONE, 2012, 7, e42348.	2.5	3
12	Boolean Threshold Networks: Virtues and Limitations for Biological Modeling. Intelligent Systems Reference Library, 2011, , 113-151.	1.2	18
13	Discrete Dynamics Model for the Speract-Activated Ca2+ Signaling Network Relevant to Sperm Motility. PLoS ONE, 2011, 6, e22619.	2.5	24
14	ON THE EMERGENCE OF COLLECTIVE ORDER IN SWARMING SYSTEMS: A RECENT DEBATE. International Journal of Modern Physics B, 2009, 23, 3661-3685.	2.0	53
15	New tools for characterizing swarming systems: A comparison of minimal models. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2809-2822.	2.6	55
16	Intrinsic and extrinsic noise effects on phase transitions of network models with applications to swarming systems. Physical Review E, 2008, 77, 061138.	2.1	48
17	Gene expression dynamics in the macrophage exhibit criticality. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1897-1900.	7.1	191
18	Critical Dynamics in Genetic Regulatory Networks: Examples from Four Kingdoms. PLoS ONE, 2008, 3, e2456.	2.5	178

#	Article	IF	Citations
19	Floral Morphogenesis: Stochastic Explorations of a Gene Network Epigenetic Landscape. PLoS ONE, 2008, 3, e3626.	2.5	120
20	Robustness and evolvability in genetic regulatory networks. Journal of Theoretical Biology, 2007, 245, 433-448.	1.7	242
21	Deterministic Ratchets, Circle Maps, and Current Reversals. Physical Review Letters, 2006, 96, 134101.	7.8	15
22	Eukaryotic cells are dynamically ordered or critical but not chaotic. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13439-13444.	7.1	211
23	Phase transitions in scale-free neural networks: Departure from the standard mean-field universality class. Physical Review E, 2004, 70, 066130.	2.1	17
24	Intermittency and Clustering in a System of Self-Driven Particles. Physical Review Letters, 2004, 92, 168701.	7.8	97
25	Title is missing!. Journal of Statistical Physics, 2003, 112, 135-153.	1.2	91
26	Boolean dynamics of networks with scale-free topology. Physica D: Nonlinear Phenomena, 2003, 185, 45-66.	2.8	344
27	A natural class of robust networks. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8710-8714.	7.1	225
28	Boolean Dynamics with Random Couplings. , 2003, , 23-89.		149
29	Numerical and Theoretical Studies of Noise Effects in the Kauffman Model. Journal of Statistical Physics, 2002, 109, 967-986.	1.2	29
30	Statistical characterization of random electrostatic potentials. Physical Review E, 2000, 61, 6136-6148.	2.1	0
31	Primitive molecular machine scenario for the origin of the three base codon composition. Origins of Life and Evolution of Biospheres, 1999, 29, 203-214.	1.9	10
32	Primordial synthesis machines and the origin of the genetic code. Physica A: Statistical Mechanics and Its Applications, 1998, 257, 119-127.	2.6	16