

Maximino Aldana

List of Publications by Year in descending order

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32
papers

2,552
citations

394421

19
h-index

477307

29
g-index

35
all docs

35
docs citations

35
times ranked

1943
citing authors

#	ARTICLE	IF	CITATIONS
1	Boolean dynamics of networks with scale-free topology. <i>Physica D: Nonlinear Phenomena</i> , 2003, 185, 45-66.	2.8	344
2	Robustness and evolvability in genetic regulatory networks. <i>Journal of Theoretical Biology</i> , 2007, 245, 433-448.	1.7	242
3	A natural class of robust networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8710-8714.	7.1	225
4	Eukaryotic cells are dynamically ordered or critical but not chaotic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13439-13444.	7.1	211
5	Gene expression dynamics in the macrophage exhibit criticality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1897-1900.	7.1	191
6	Critical Dynamics in Genetic Regulatory Networks: Examples from Four Kingdoms. <i>PLoS ONE</i> , 2008, 3, e2456.	2.5	178
7	Boolean Dynamics with Random Couplings. , 2003, , 23-89.		149
8	Floral Morphogenesis: Stochastic Explorations of a Gene Network Epigenetic Landscape. <i>PLoS ONE</i> , 2008, 3, e3626.	2.5	120
9	Criticality Is an Emergent Property of Genetic Networks that Exhibit Evolvability. <i>PLoS Computational Biology</i> , 2012, 8, e1002669.	3.2	99
10	Intermittency and Clustering in a System of Self-Driven Particles. <i>Physical Review Letters</i> , 2004, 92, 168701.	7.8	97
11	Title is missing!. <i>Journal of Statistical Physics</i> , 2003, 112, 135-153.	1.2	91
12	Adaptive Resistance in Bacteria Requires Epigenetic Inheritance, Genetic Noise, and Cost of Efflux Pumps. <i>PLoS ONE</i> , 2015, 10, e0118464.	2.5	81
13	Adaptive resistance to antibiotics in bacteria: a systems biology perspective. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2016, 8, 253-267.	6.6	74
14	The Human Microbiome and the Missing Heritability Problem. <i>Frontiers in Genetics</i> , 2017, 8, 80.	2.3	67
15	New tools for characterizing swarming systems: A comparison of minimal models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 2809-2822.	2.6	55
16	ON THE EMERGENCE OF COLLECTIVE ORDER IN SWARMING SYSTEMS: A RECENT DEBATE. <i>International Journal of Modern Physics B</i> , 2009, 23, 3661-3685.	2.0	53
17	Intrinsic and extrinsic noise effects on phase transitions of network models with applications to swarming systems. <i>Physical Review E</i> , 2008, 77, 061138.	2.1	48
18	Modeling the Role of the Microbiome in Evolution. <i>Frontiers in Physiology</i> , 2018, 9, 1836.	2.8	39

#	ARTICLE	IF	CITATIONS
19	Numerical and Theoretical Studies of Noise Effects in the Kauffman Model. <i>Journal of Statistical Physics</i> , 2002, 109, 967-986.	1.2	29
20	Discrete Dynamics Model for the Speract-Activated Ca ²⁺ Signaling Network Relevant to Sperm Motility. <i>PLoS ONE</i> , 2011, 6, e22619.	2.5	24
21	Evolving Ecosystems: Inheritance and Selection in the Light of the Microbiome. <i>Archives of Medical Research</i> , 2017, 48, 780-789.	3.3	20
22	Boolean Threshold Networks: Virtues and Limitations for Biological Modeling. <i>Intelligent Systems Reference Library</i> , 2011, , 113-151.	1.2	18
23	Phase transitions in scale-free neural networks: Departure from the standard mean-field universality class. <i>Physical Review E</i> , 2004, 70, 066130.	2.1	17
24	Delay in the dispersal of flocks moving in unbounded space using long-range interactions. <i>Scientific Reports</i> , 2018, 8, 15872.	3.3	17
25	Primordial synthesis machines and the origin of the genetic code. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 257, 119-127.	2.6	16
26	Regulatory Design Governing Progression of Population Growth Phases in Bacteria. <i>PLoS ONE</i> , 2012, 7, e30654.	2.5	16
27	Deterministic Ratchets, Circle Maps, and Current Reversals. <i>Physical Review Letters</i> , 2006, 96, 134101.	7.8	15
28	Primitive molecular machine scenario for the origin of the three base codon composition. <i>Origins of Life and Evolution of Biospheres</i> , 1999, 29, 203-214.	1.9	10
29	Self-Propulsion Enhances Polymerization. <i>Entropy</i> , 2020, 22, 251.	2.2	3
30	Pattern Recognition in Neural Networks with Competing Dynamics: Coexistence of Fixed-Point and Cyclic Attractors. <i>PLoS ONE</i> , 2012, 7, e42348.	2.5	3
31	Statistical characterization of random electrostatic potentials. <i>Physical Review E</i> , 2000, 61, 6136-6148.	2.1	0
32	Scaling laws and criticality in voter models and neuronal dynamics. <i>INTERdisciplina</i> , 2020, 8, 23.	0.2	0