

Ala Trusina

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,891
citations

304743

22
h-index

233421

45
g-index

56
all docs

56
docs citations

56
times ranked

5224
citing authors

#	ARTICLE	IF	CITATIONS
1	Defining Network Topologies that Can Achieve Biochemical Adaptation. <i>Cell</i> , 2009, 138, 760-773.	28.9	1,354
2	IRE1 \pm Induces Thioredoxin-Interacting Protein to Activate the NLRP3 Inflammasome and Promote Programmed Cell Death under Irremediable ER Stress. <i>Cell Metabolism</i> , 2012, 16, 250-264.	16.2	707
3	Real-Time Redox Measurements during Endoplasmic Reticulum Stress Reveal Interlinked Protein Folding Functions. <i>Cell</i> , 2008, 135, 933-947.	28.9	270
4	Dynamic instabilities induced by asymmetric influence: Prisoners \hat{e} ™ dilemma game in small-world networks. <i>Physical Review E</i> , 2002, 66, 021907.	2.1	195
5	Networks and Cities: An Information Perspective. <i>Physical Review Letters</i> , 2005, 94, 028701.	7.8	185
6	Hierarchy Measures in Complex Networks. <i>Physical Review Letters</i> , 2004, 92, 178702.	7.8	107
7	Prisoners \hat{e} ™ dilemma in real-world acquaintance networks: Spikes and quasiequilibria induced by the interplay between structure and dynamics. <i>Physical Review E</i> , 2003, 68, 030901.	2.1	92
8	Conditional cooperativity in toxin \hat{e} “antitoxin regulation prevents random toxin activation and promotes fast translational recovery. <i>Nucleic Acids Research</i> , 2012, 40, 6424-6434.	14.5	78
9	Modeling oscillatory control in NF- \hat{e} B, p53 and Wnt signaling. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 656-664.	3.3	63
10	Hide-and-seek on complex networks. <i>Europhysics Letters</i> , 2005, 69, 853-859.	2.0	57
11	Communication Boundaries in Networks. <i>Physical Review Letters</i> , 2005, 94, 238701.	7.8	55
12	Modeling the NF- \hat{e} B mediated inflammatory response predicts cytokine waves in tissue. <i>BMC Systems Biology</i> , 2011, 5, 115.	3.0	54
13	Rationalizing translation attenuation in the network architecture of the unfolded protein response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20280-20285.	7.1	51
14	Ecosystems with Mutually Exclusive Interactions Self-Organize to a State of High Diversity. <i>Physical Review Letters</i> , 2011, 107, 188101.	7.8	50
15	Nucleation and spreading of a heterochromatic domain in fission yeast. <i>Nature Communications</i> , 2016, 7, 11518.	12.8	50
16	Self organized scale-free networks from merging and regeneration. <i>European Physical Journal B</i> , 2005, 43, 369-372.	1.5	48
17	Four simple rules that are sufficient to generate the mammalian blastocyst. <i>PLoS Biology</i> , 2017, 15, e2000737.	5.6	44
18	Stochastic priming and spatial cues orchestrate heterogeneous clonal contribution to mouse pancreas organogenesis. <i>Nature Communications</i> , 2017, 8, 605.	12.8	38

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19	Targeted Bacterial Immunity Buffers Phage Diversity. <i>Journal of Virology</i> , 2011, 85, 10554-10560.	3.4	37
20	Chaperone-mediated reflux of secretory proteins to the cytosol during endoplasmic reticulum stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11291-11298.	7.1	36
21	Asymmetric Damage Segregation Constitutes an Emergent Population-Level Stress Response. <i>Cell Systems</i> , 2016, 3, 187-198.	6.2	33
22	Two Portable Recombination Enhancers Direct Donor Choice in Fission Yeast Heterochromatin. <i>PLoS Genetics</i> , 2013, 9, e1003762.	3.5	27
23	A Minimal Model for Multiple Epidemics and Immunity Spreading. <i>PLoS ONE</i> , 2010, 5, e13326.	2.5	24
24	A simple model for self-organization of bipartite networks. <i>Europhysics Letters</i> , 2004, 67, 349-354.	2.0	23
25	Functional Alignment of Regulatory Networks: A Study of Temperate Phages. <i>PLoS Computational Biology</i> , 2005, 1, e74.	3.2	23
26	Theoretical tool bridging cell polarities with development of robust morphologies. <i>ELife</i> , 2018, 7, .	6.0	22
27	Stress induced telomere shortening: longer life with less mutations?. <i>BMC Systems Biology</i> , 2014, 8, 27.	3.0	20
28	Establishment of heterochromatin in domain-size-dependent bursts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
29	Identification of the central intermediate in the extra-embryonic to embryonic endoderm transition through single-cell transcriptomics. <i>Nature Cell Biology</i> , 2022, 24, 833-844.	10.3	15
30	The unfolded protein response and translation attenuation: a modelling approach. <i>Diabetes, Obesity and Metabolism</i> , 2010, 12, 27-31.	4.4	14
31	Self-organization of structures and networks from merging and small-scale fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 725-732.	2.6	13
32	Evolution of a G protein-coupled receptor response by mutations in regulatory network interactions. <i>Nature Communications</i> , 2016, 7, 12344.	12.8	13
33	Nested feedback loops in gene regulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 100-106.	2.6	11
34	The fitness cost and benefit of phase-separated protein deposits. <i>Molecular Systems Biology</i> , 2019, 15, e8075.	7.2	10
35	Dynamics of the DNA repair proteins WRN and BLM in the nucleoplasm and nucleoli. <i>European Biophysics Journal</i> , 2014, 43, 509-516.	2.2	9
36	Aging mechanism as the "down side" of adaptation: A network approach. <i>Journal of Theoretical Biology</i> , 2008, 250, 66-74.	1.7	8

#	ARTICLE	IF	CITATIONS
37	Model to Link Cell Shape and Polarity with Organogenesis. IScience, 2020, 23, 100830.	4.1	8
38	Degree landscapes in scale-free networks. Physical Review E, 2006, 74, 036119.	2.1	6
39	Analyzing inflammatory response as excitable media. Physical Review E, 2011, 84, 051913.	2.1	5
40	Fragile DNA Repair Mechanism Reduces Ageing in Multicellular Model. PLoS ONE, 2012, 7, e36018.	2.5	4
41	Noisy transcription factor NF- κ B oscillations stabilize and sensitize cytokine signaling in space. Physical Review E, 2013, 87, 022702.	2.1	4
42	Circuit architecture explains functional similarity of bacterial heat shock responses. Physical Biology, 2012, 9, 066003.	1.8	3
43	Measuring information networks. Pramana - Journal of Physics, 2005, 64, 1121-1125.	1.8	2
44	Self-assembly, buckling and density-invariant growth of three-dimensional vascular networks. Journal of the Royal Society Interface, 2019, 16, 20190517.	3.4	2
45	A20 Negative Feedback Regulates Period of NF-KB Oscillations. Biophysical Journal, 2010, 98, 236a.	0.5	1
46	Impact of Zygoty on Bimodal Phenotype Distributions. Biophysical Journal, 2017, 113, 148-156.	0.5	0
47	Translation Attenuation Mechanism in Unfolded Protein Response. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 83-90.	0.3	0