

Sandeep Krishna

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,532
citations

304743

22
h-index

330143

37
g-index

59
all docs

59
docs citations

59
times ranked

1642
citing authors

#	ARTICLE	IF	CITATIONS
1	Autocatalytic Sets and the Growth of Complexity in an Evolutionary Model. <i>Physical Review Letters</i> , 1998, 81, 5684-5687.	7.8	174
2	Minimal model of spiky oscillations in NF- κ B signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10840-10845.	7.1	151
3	Oscillation patterns in negative feedback loops. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6533-6537.	7.1	119
4	Simplified Models of Biological Networks. <i>Annual Review of Biophysics</i> , 2010, 39, 43-59.	10.0	90
5	Large extinctions in an evolutionary model: The role of innovation and keystone species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2055-2060.	7.1	78
6	Dynamic features of gene expression control by small regulatory RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10655-10659.	7.1	78
7	Signal integration in the galactose network of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2007, 65, 465-476.	2.5	63
8	Modeling oscillatory control in NF- κ B, p53 and Wnt signaling. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 656-664.	3.3	63
9	Context-dependent conservation of DNA methyltransferases in bacteria. <i>Nucleic Acids Research</i> , 2012, 40, 7066-7073.	14.5	60
10	On chaotic dynamics in transcription factors and the associated effects in differential gene regulation. <i>Nature Communications</i> , 2019, 10, 71.	12.8	60
11	Modeling the NF- κ B mediated inflammatory response predicts cytokine waves in tissue. <i>BMC Systems Biology</i> , 2011, 5, 115.	3.0	54
12	A Wnt Oscillator Model for Somitogenesis. <i>Biophysical Journal</i> , 2010, 98, 943-950.	0.5	45
13	Noise Induces Hopping between NF- κ B Entrainment Modes. <i>Cell Systems</i> , 2016, 3, 532-539.e3.	6.2	44
14	Metabolic constraints drive self-organization of specialized cell groups. <i>ELife</i> , 2019, 8, .	6.0	42
15	Inducing phase-locking and chaos in cellular oscillators by modulating the driving stimuli. <i>FEBS Letters</i> , 2012, 586, 1664-1668.	2.8	37
16	Restriction modification systems as engines of diversity. <i>Frontiers in Microbiology</i> , 2015, 6, 528.	3.5	35
17	Repressor Lattice: Feedback, Commensurability, and Dynamical Frustration. <i>Physical Review Letters</i> , 2009, 103, 118101.	7.8	32
18	In silico Evolution of Lysis-Lysogeny Strategies Reproduces Observed Lysogeny Propensities in Temperate Bacteriophages. <i>Frontiers in Microbiology</i> , 2017, 8, 1386.	3.5	32

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19	A tale of two rhythms: Locked clocks and chaos in biology. <i>Cell Systems</i> , 2021, 12, 291-303.	6.2	29
20	Combinatorics of feedback in cellular uptake and metabolism of small molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20815-20819.	7.1	27
21	Crashes, recoveries, and "core shifts" in a model of evolving networks. <i>Physical Review E</i> , 2002, 65, 026103.	2.1	26
22	Direct and indirect effects in the regulation of overlapping promoters. <i>Nucleic Acids Research</i> , 2011, 39, 6879-6885.	14.5	25
23	The effect of LacI autoregulation on the performance of the lactose utilization system in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2013, 41, 6381-6390.	14.5	20
24	Self-Reproduction and Darwinian Evolution in Autocatalytic Chemical Reaction Systems. <i>Life</i> , 2021, 11, 308.	2.4	18
25	Dominant Negative Autoregulation Limits Steady-State Repression Levels in Gene Networks. <i>Journal of Bacteriology</i> , 2009, 191, 4487-4491.	2.2	17
26	Minimal Gene Regulatory Circuits for a Lysis-Lysogeny Choice in the Presence of Noise. <i>PLoS ONE</i> , 2010, 5, e15037.	2.5	16
27	Timing of Gene Transcription in the Galactose Utilization System of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 38062-38068.	3.4	16
28	A minimal "push-pull" bistability model explains oscillations between quiescent and proliferative cell states. <i>Molecular Biology of the Cell</i> , 2018, 29, 2243-2258.	2.1	12
29	Optimizing testing for COVID-19 in India. <i>PLoS Computational Biology</i> , 2021, 17, e1009126.	3.2	12
30	Resource plasticity-driven carbon-nitrogen budgeting enables specialization and division of labor in a clonal community. <i>ELife</i> , 2020, 9, .	6.0	8
31	Entrainment as a means of controlling phase waves in populations of coupled oscillators. <i>Physical Review E</i> , 2018, 98, .	2.1	6
32	Evidence of sinks and sources in the phospholipase C-activated PIP_2 cycle. <i>FEBS Letters</i> , 2018, 592, 962-972.	2.8	5
33	Time Correlations in Mode Hopping of Coupled Oscillators. <i>Journal of Statistical Physics</i> , 2017, 167, 792-805.	1.2	3
34	Constraints on somite formation in developing embryos. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190451.	3.4	3
35	Defence versus growth in a hostile world: lessons from phage and bacteria. <i>Royal Society Open Science</i> , 2020, 7, 201118.	2.4	3
36	Emergence of metabolic heterogeneity in cell populations: lessons from budding yeast. , 2020, , 335-360.		3

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37	Natural Selection beyond Life? A Workshop Report. <i>Life</i> , 2021, 11, 1051.	2.4	3
38	Limit-cycle oscillations and stable patterns in repressor lattices. <i>Physical Review E</i> , 2012, 86, 031905.	2.1	2
39	Emergence of networks of shared restriction-modification systems in phage-bacteria ecosystems. <i>Journal of Biosciences</i> , 2022, 47, .	1.1	2
40	Analysis of Infection Time Courses Shows CII Levels Determine the Frequency of Lysogeny in Phage 186. <i>Pharmaceuticals</i> , 2021, 14, 998.	3.8	1