JanÃ© Kondev

List of Publications by Year
in descending order

58 papers	3,587 citations	236925 25 h-index	182427 51 g-index
69 all docs	69 docs citations	69 times ranked	3166 citing authors

#	Article	IF	Citations
1	A Probabilistic Approach to Growth Networks. Operations Research, 2022, 70, 3386-3402.	1.9	0
2	Quantitative Analysis of Actin Cable Length in Yeast. Bio-protocol, 2022, 12, .	0.4	4
3	Analysis of biological noise in the flagellar length control system. IScience, 2021, 24, 102354.	4.1	19
4	Scaling of subcellular actin structures with cell length through decelerated growth. ELife, 2021, 10, .	6.0	10
5	Fundamental limits on the rate of bacterial growth and their influence on proteomic composition. Cell Systems, 2021, 12, 924-944.e2.	6.2	45
6	Non-genetic variability in microbial populations: survival strategy or nuisance?. Reports on Progress in Physics, 2021, 84, .	20.1	10
7	The interplay of phenotypic variability and fitness in finite microbial populations. Journal of the Royal Society Interface, 2020, 17, 20190827.	3.4	16
8	Yeast ATM and ATR kinases use different mechanisms to spread histone H2A phosphorylation around a DNA double-strand break. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21354-21363.	7.1	35
9	Alternative transcription cycle for bacterial RNA polymerase. Nature Communications, 2020, 11, 448.	12.8	31
10	Control of filament length by a depolymerizing gradient. PLoS Computational Biology, 2020, 16, e1008440.	3.2	7
11	Control of filament length by a depolymerizing gradient. , 2020, 16, e1008440.		0
12	Control of filament length by a depolymerizing gradient. , 2020, 16, e1008440.		0
13	Control of filament length by a depolymerizing gradient. , 2020, 16, e1008440.		0
14	Control of filament length by a depolymerizing gradient. , 2020, 16, e1008440.		0
15	Complex signal processing in synthetic gene circuits using cooperative regulatory assemblies. Science, 2019, 364, 593-597.	12.6	117
16	Synergy between Cyclase-associated protein and Cofilin accelerates actin filament depolymerization by two orders of magnitude. Nature Communications, 2019, 10, 5319.	12.8	60
17	Length regulation of multiple flagella that self-assemble from a shared pool of components. ELife, 2019, 8, .	6.0	28
18	Length-dependent disassembly maintains four different flagellar lengths in Giardia. ELife, 2019, 8, .	6.0	33

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19	Distribution of Initiation Times Reveals Mechanisms of Transcriptional Regulation in Single Cells. Biophysical Journal, 2018, 114, 2072-2082.	0.5	19
20	The Limiting-Pool Mechanism Fails to Control the Size of Multiple Organelles. Cell Systems, 2017, 4, 559-567.e14.	6.2	39
21	Exact Length Distribution of Filamentous Structures Assembled from a Finite Pool of Subunits. Journal of Physical Chemistry B, 2016, 120, 6225-6230.	2.6	3
22	Chromosome-refolding model of mating-type switching in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6929-E6938.	7.1	13
23	Design Principles of Length Control of Cytoskeletal Structures. Annual Review of Biophysics, 2016, 45, 85-116.	10.0	54
24	Bacterial RNA polymerase can retain Ïƒ ⁷⁰ throughout transcription. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 602-607.	7.1	79
25	Deciphering Transcriptional Dynamics In Vivo by Counting Nascent RNA Molecules. PLoS Computational Biology, 2015, 11, e1004345.	3.2	61
26	Antenna Mechanism of Length Control of Actin Cables. PLoS Computational Biology, 2015, 11, e1004160.	3.2	27
27	A general mechanism for competitor-induced dissociation of molecular complexes. Nature Communications, 2014, 5, 5207.	12.8	43
28	Effect of Chromosome Tethering on Nuclear Organization in Yeast. PLoS ONE, 2014, 9, e102474.	2.5	27
29	Regulation of Noise in Gene Expression. Annual Review of Biophysics, 2013, 42, 469-491.	10.0	191
30	Thermodynamics of Biological Processes. Methods in Enzymology, 2011, 492, 27-59.	1.0	45
31	Dynamics of Homology Searching During Gene Conversion in<i>Saccharomyces cerevisiae</i>Revealed by Donor Competition. Genetics, 2011, 189, 1225-1233.	2.9	28
32	Effect of Promoter Architecture on the Cell-to-Cell Variability in Gene Expression. PLoS Computational Biology, 2011, 7, e1001100.	3.2	141
33	Mechanism of transcriptional repression at a bacterial promoter by analysis of single molecules. EMBO Journal, 2011, 30, 3940-3946.	7.8	32
34	Transcription by the numbers redux: experiments and calculations that surprise. Trends in Cell Biology, 2010, 20, 723-733.	7.9	38
35	Strong intranucleoid interactions organize the <i>Escherichia coli</i> chromosome into a nucleoid filament. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4991-4995.	7.1	164
36	Strong Intra-Nucleoid Interactions Organize the E. Coli Chromosome into a Nucleoid Filament. Biophysical Journal, 2010, 98, 658a-659a.	0.5	1

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37	Lattice Model of Diffusion-Limited Bimolecular Chemical Reactions in Confined Environments. Physical Review Letters, 2009, 102, 218302.	7.8	31
38	Biochemistry on a Leash: Confinement as a Regulatory Mechanism for Bimolecular Reaction Rates. Biophysical Journal, 2009, 96, 596a.	0.5	0
39	Using Polymer Models To Understand The Structure Of Chromosome III In Budding Yeast. Biophysical Journal, 2009, 96, 348a.	0.5	0
40	Transcriptional control of noise in gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5081-5086.	7.1	140
41	Critical Dynamics of Dimers:â€‰ Implications for the Glass Transition. Journal of Physical Chemistry B, 2005, 109, 21413-21418.	2.6	3
42	Transcriptional regulation by the numbers: applications. Current Opinion in Genetics and Development, 2005, 15, 125-135.	3.3	343
43	Transcriptional regulation by the numbers: models. Current Opinion in Genetics and Development, 2005, 15, 116-124.	3.3	660
44	Forces during Bacteriophage DNA Packaging and Ejection. Biophysical Journal, 2005, 88, 851-866.	0.5	254
45	Continuous Melting of Compact Polymers. Physical Review Letters, 2004, 92, 210601.	7.8	19
46	Force steps during viral DNA packaging?. Journal of the Mechanics and Physics of Solids, 2003, 51, 2239-2257.	4.8	29
47	Jamming in a model glass: interplay of dynamics and thermodynamics. Physica A: Statistical Mechanics and Its Applications, 2003, 318, 23-29.	2.6	2
48	Mechanics of DNA packaging in viruses. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3173-3178.	7.1	260
49	Critical Geometry of Two-Dimensional Passive Scalar Turbulence. Physical Review Letters, 2001, 86, 5890-5893.	7.8	13
50	Nonlinear measures for characterizing rough surface morphologies. Physical Review E, 2000, 61, 104-125.	2.1	85
51	Transition from the Compact to the Dense Phase of Two-Dimensional Polymers. Journal of Statistical Physics, 1999, 96, 21-48.	1.2	19
52	Conformational Entropy of Compact Polymers. Physical Review Letters, 1998, 81, 2922-2925.	7.8	23
53	Statistical Topography of Glassy Interfaces. Physical Review Letters, 1998, 80, 109-112.	7.8	24
54	Liouville Field Theory of Fluctuating Loops. Physical Review Letters, 1997, 78, 4320-4323.	7.8	41

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55	Loop Models, Marginally Rough Interfaces, and the Coulomb Gas. International Journal of Modern Physics B, 1997, 11, 153-159.	2.0	10
56	Geometrical Exponents of Contour Loops on Random Gaussian Surfaces. Physical Review Letters, 1995, 74, 4580-4583.	7.8	114
57	Four-coloring model on the square lattice: A critical ground state. Physical Review B, 1995, 52, 6628-6639.	3.2	58
58	Conformal Charge and Exact Exponents in then=2Fully Packed Loop Model. Physical Review Letters, 1994, 73, 2786-2786.	7.8	22