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List of Publications by Year
in descending order

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35 papers	2,052 citations	394421 19 h-index	395702 33 g-index
47 all docs	47 docs citations	47 times ranked	2464 citing authors

#	Article	IF	Citations
1	Combinatorial Synthesis of Genetic Networks. Science, 2002, 296, 1466-1470.	12.6	480
2	Modeling network dynamics. Journal of Cell Biology, 2003, 161, 471-476.	5.2	195
3	Biased partitioning of the multidrug efflux pump AcrAB-TolC underlies long-lived phenotypic heterogeneity. Science, 2017, 356, 311-315.	12.6	168
4	Variation of the folding and dynamics of the <scp>E</scp>scherichia coli chromosome with growth conditions. Molecular Microbiology, 2012, 86, 1318-1333.	2.5	127
5	Bacterial Autoimmunity Due to a Restriction-Modification System. Current Biology, 2016, 26, 404-409.	3.9	92
6	Shaping bacterial population behavior through computer-interfaced control of individual cells. Nature Communications, 2017, 8, 1535.	12.8	92
7	Real-time RNA profiling within a single bacterium. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9160-9164.	7.1	90
8	Influence of M-phase chromatin on the anisotropy of microtubule asters.. Journal of Cell Biology, 1996, 133, 125-140.	5.2	86
9	Interdependence of behavioural variability and response to small stimuli in bacteria. Nature, 2010, 468, 819-823.	27.8	67
10	Bacterial flagella grow through an injection-diffusion mechanism. ELife, 2017, 6, .	6.0	66
11	Intrinsic limits to gene regulation by global crosstalk. Nature Communications, 2016, 7, 12307.	12.8	63
12	Leaky resistance and the conditions for the existence of lytic bacteriophage. PLoS Biology, 2018, 16, e2005971.	5.6	58
13	Phageâ€“host population dynamics promotes prophage acquisition in bacteria with innate immunity. Nature Ecology and Evolution, 2018, 2, 359-366.	7.8	56
14	Minimally invasive determination of mRNA concentration in single living bacteria. Nucleic Acids Research, 2008, 36, e73-e73.	14.5	47
15	Uncovering cis Regulatory Codes Using Synthetic Promoter Shuffling. PLoS ONE, 2008, 3, e2030.	2.5	42
16	Statistical mechanics for metabolic networks during steady state growth. Nature Communications, 2018, 9, 2988.	12.8	38
17	Effects of mutations in phage restriction sites during escape from restrictionâ€“modification. Biology Letters, 2017, 13, 20170646.	2.3	36
18	Gene amplification as a form of population-level gene expression regulation. Nature Ecology and Evolution, 2020, 4, 612-625.	7.8	27

#	ARTICLE	IF	CITATIONS
19	Evolutionary potential of transcription factors for gene regulatory rewiring. Nature Ecology and Evolution, 2018, 2, 1633-1643.	7.8	25
20	Noise Underlies Switching Behavior of the Bacterial Flagellum. Biophysical Journal, 2011, 101, 2336-2340.	0.5	23
21	On the mechanistic nature of epistasis in a canonical cis-regulatory element. ELife, 2017, 6, .	6.0	21
22	Dynamical Determinants of Drug-Inducible Gene Expression in a Single Bacterium. Biophysical Journal, 2006, 90, 3315-3321.	0.5	20
23	Complex chromosomal neighborhood effects determine the adaptive potential of a gene under selection. ELife, 2017, 6, .	6.0	17
24	Predicting bacterial promoter function and evolution from random sequences. ELife, 2022, 11, .	6.0	17
25	Epistatic Interactions in the ArabinoseCis-Regulatory Element. Molecular Biology and Evolution, 2016, 33, 761-769.	8.9	16
26	Regulatory network structure determines patterns of intermolecular epistasis. ELife, 2017, 6, .	6.0	15
27	Local genetic context shapes the function of a gene regulatory network. ELife, 2021, 10, .	6.0	15
28	Model checking the evolution of gene regulatory networks. Acta Informatica, 2017, 54, 765-787.	0.5	12
29	Lack of cations in flow cytometry buffers affect fluorescence signals by reducing membrane stability and viability of Escherichia coli strains. Journal of Biotechnology, 2018, 268, 40-52.	3.8	11
30	Fine-Tuning of Chemotactic Response in E. coli Determined by High-Throughput Capillary Assay. Current Microbiology, 2011, 62, 764-769.	2.2	7
31	Molecular noise of innate immunity shapes bacteria-phage ecologies. PLoS Computational Biology, 2019, 15, e1007168.	3.2	7
32	Protein expression enhancement in efflux-deleted mutant bacteria. Protein Expression and Purification, 2006, 48, 28-31.	1.3	4
33	Long lived transients in gene regulation. Theoretical Computer Science, 2021, 893, 1-16.	0.9	1
34	Sequential and Switchable Patterning for Studying Cellular Processes under Spatiotemporal Control. ACS Applied Materials & Interfaces, 2021, 13, 35545-35560.	8.0	1
35	Structure and Dynamics of the Bacterial Chromosome in E. coli. Biophysical Journal, 2012, 102, 422a.	0.5	0