

CÄlin C Guet

List of Publications by Year in descending order

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35
papers

2,052
citations

394421

19
h-index

395702

33
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47
all docs

47
docs citations

47
times ranked

2464
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting bacterial promoter function and evolution from random sequences. <i>ELife</i> , 2022, 11, .	6.0	17
2	Local genetic context shapes the function of a gene regulatory network. <i>ELife</i> , 2021, 10, .	6.0	15
3	Long lived transients in gene regulation. <i>Theoretical Computer Science</i> , 2021, 893, 1-16.	0.9	1
4	Sequential and Switchable Patterning for Studying Cellular Processes under Spatiotemporal Control. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35545-35560.	8.0	1
5	Gene amplification as a form of population-level gene expression regulation. <i>Nature Ecology and Evolution</i> , 2020, 4, 612-625.	7.8	27
6	Molecular noise of innate immunity shapes bacteria-phage ecologies. <i>PLoS Computational Biology</i> , 2019, 15, e1007168.	3.2	7
7	Lack of cations in flow cytometry buffers affect fluorescence signals by reducing membrane stability and viability of <i>Escherichia coli</i> strains. <i>Journal of Biotechnology</i> , 2018, 268, 40-52.	3.8	11
8	Phageâ€‘host population dynamics promotes prophage acquisition in bacteria with innate immunity. <i>Nature Ecology and Evolution</i> , 2018, 2, 359-366.	7.8	56
9	Evolutionary potential of transcription factors for gene regulatory rewiring. <i>Nature Ecology and Evolution</i> , 2018, 2, 1633-1643.	7.8	25
10	Statistical mechanics for metabolic networks during steady state growth. <i>Nature Communications</i> , 2018, 9, 2988.	12.8	38
11	Leaky resistance and the conditions for the existence of lytic bacteriophage. <i>PLoS Biology</i> , 2018, 16, e2005971.	5.6	58
12	Biased partitioning of the multidrug efflux pump AcrAB-TolC underlies long-lived phenotypic heterogeneity. <i>Science</i> , 2017, 356, 311-315.	12.6	168
13	Effects of mutations in phage restriction sites during escape from restrictionâ€‘modification. <i>Biology Letters</i> , 2017, 13, 20170646.	2.3	36
14	Shaping bacterial population behavior through computer-interfaced control of individual cells. <i>Nature Communications</i> , 2017, 8, 1535.	12.8	92
15	Model checking the evolution of gene regulatory networks. <i>Acta Informatica</i> , 2017, 54, 765-787.	0.5	12
16	Regulatory network structure determines patterns of intermolecular epistasis. <i>ELife</i> , 2017, 6, .	6.0	15
17	Bacterial flagella grow through an injection-diffusion mechanism. <i>ELife</i> , 2017, 6, .	6.0	66
18	Complex chromosomal neighborhood effects determine the adaptive potential of a gene under selection. <i>ELife</i> , 2017, 6, .	6.0	17

#	ARTICLE	IF	CITATIONS
19	On the mechanistic nature of epistasis in a canonical cis-regulatory element. <i>ELife</i> , 2017, 6, .	6.0	21
20	Intrinsic limits to gene regulation by global crosstalk. <i>Nature Communications</i> , 2016, 7, 12307.	12.8	63
21	Bacterial Autoimmunity Due to a Restriction-Modification System. <i>Current Biology</i> , 2016, 26, 404-409.	3.9	92
22	Epistatic Interactions in the Arabinose <i>Cis</i> -Regulatory Element. <i>Molecular Biology and Evolution</i> , 2016, 33, 761-769.	8.9	16
23	Variation of the folding and dynamics of the <i>E. coli</i> chromosome with growth conditions. <i>Molecular Microbiology</i> , 2012, 86, 1318-1333.	2.5	127
24	Structure and Dynamics of the Bacterial Chromosome in <i>E. coli</i> . <i>Biophysical Journal</i> , 2012, 102, 422a.	0.5	0
25	Noise Underlies Switching Behavior of the Bacterial Flagellum. <i>Biophysical Journal</i> , 2011, 101, 2336-2340.	0.5	23
26	Fine-Tuning of Chemotactic Response in <i>E. coli</i> Determined by High-Throughput Capillary Assay. <i>Current Microbiology</i> , 2011, 62, 764-769.	2.2	7
27	Interdependence of behavioural variability and response to small stimuli in bacteria. <i>Nature</i> , 2010, 468, 819-823.	27.8	67
28	Minimally invasive determination of mRNA concentration in single living bacteria. <i>Nucleic Acids Research</i> , 2008, 36, e73-e73.	14.5	47
29	Uncovering cis Regulatory Codes Using Synthetic Promoter Shuffling. <i>PLoS ONE</i> , 2008, 3, e2030.	2.5	42
30	Dynamical Determinants of Drug-Inducible Gene Expression in a Single Bacterium. <i>Biophysical Journal</i> , 2006, 90, 3315-3321.	0.5	20
31	Protein expression enhancement in efflux-deleted mutant bacteria. <i>Protein Expression and Purification</i> , 2006, 48, 28-31.	1.3	4
32	Real-time RNA profiling within a single bacterium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9160-9164.	7.1	90
33	Modeling network dynamics. <i>Journal of Cell Biology</i> , 2003, 161, 471-476.	5.2	195
34	Combinatorial Synthesis of Genetic Networks. <i>Science</i> , 2002, 296, 1466-1470.	12.6	480
35	Influence of M-phase chromatin on the anisotropy of microtubule asters.. <i>Journal of Cell Biology</i> , 1996, 133, 125-140.	5.2	86