

Johan Paulsson

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

8,875
citations

136740

32
h-index

197535

49
g-index

56
all docs

56
docs citations

56
times ranked

7081
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial persisters are a stochastically formed subpopulation of low-energy cells. <i>PLoS Biology</i> , 2021, 19, e3001194.	2.6	85
2	Tracking bacterial lineages in complex and dynamic environments with applications for growth control and persistence. <i>Nature Microbiology</i> , 2021, 6, 783-791.	5.9	59
3	Handheld Microfluidic Filtration Platform Enables Rapid, Low-Cost, and Robust Self-Testing of SARS-CoV-2 Virus. <i>Small</i> , 2021, 17, e2104009.	5.2	20
4	Handheld Microfluidic Filtration Platform Enables Rapid, Low-Cost, and Robust Self-Testing of SARS-CoV-2 Virus (<i>Small</i> 52/2021). <i>Small</i> , 2021, 17, .	5.2	0
5	Isolating live cells after high-throughput, long-term, time-lapse microscopy. <i>Nature Methods</i> , 2020, 17, 93-100.	9.0	40
6	A universal trade-off between growth and lag in fluctuating environments. <i>Nature</i> , 2020, 584, 470-474.	13.7	139
7	Toward a translationally independent RNA-based synthetic oscillator using deactivated CRISPR-Cas. <i>Nucleic Acids Research</i> , 2020, 48, 8165-8177.	6.5	18
8	Bacterial variability in the mammalian gut captured by a single-cell synthetic oscillator. <i>Nature Communications</i> , 2019, 10, 4665.	5.8	54
9	Kinetic Uncertainty Relations for the Control of Stochastic Reaction Networks. <i>Physical Review Letters</i> , 2019, 123, 108101.	2.9	11
10	A universal control system for synthetic gene networks. <i>Nature</i> , 2019, 570, 452-453.	13.7	1
11	Stochastic antagonism between two proteins governs a bacterial cell fate switch. <i>Science</i> , 2019, 366, 116-120.	6.0	44
12	Quantification of very low-abundant proteins in bacteria using the HaloTag and epi-fluorescence microscopy. <i>Scientific Reports</i> , 2019, 9, 7902.	1.6	24
13	Microfluidics and single-cell microscopy to study stochastic processes in bacteria. <i>Current Opinion in Microbiology</i> , 2018, 43, 186-192.	2.3	60
14	Single-cell microscopy of suspension cultures using a microfluidics-assisted cell screening platform. <i>Nature Protocols</i> , 2018, 13, 170-194.	5.5	21
15	Random versus Cell Cycle-Regulated Replication Initiation in Bacteria: Insights from Studying <i>Vibrio cholerae</i> Chromosome 2. <i>Microbiology and Molecular Biology Reviews</i> , 2017, 81, .	2.9	26
16	The processive kinetics of gene conversion in bacteria. <i>Molecular Microbiology</i> , 2017, 104, 752-760.	1.2	15
17	Noise in a phosphorelay drives stochastic entry into sporulation in <i>Bacillus subtilis</i> . <i>EMBO Journal</i> , 2017, 36, 2856-2869.	3.5	42
18	Ribosomes are optimized for autocatalytic production. <i>Nature</i> , 2017, 547, 293-297.	13.7	60

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19	Use of a microfluidic platform to uncover basic features of energy and environmental stress responses in individual cells of <i>Bacillus subtilis</i> . <i>PLoS Genetics</i> , 2017, 13, e1006901.	1.5	42
20	Synchronous long-term oscillations in a synthetic gene circuit. <i>Nature</i> , 2016, 538, 514-517.	13.7	266
21	Mechanical slowing-down of cytoplasmic diffusion allows in vivo counting of proteins in individual cells. <i>Nature Communications</i> , 2016, 7, 11641.	5.8	46
22	Exploiting Natural Fluctuations to Identify Kinetic Mechanisms in Sparsely Characterized Systems. <i>Cell Systems</i> , 2016, 2, 251-259.	2.9	40
23	Stochastic activation of a DNA damage response causes cell-to-cell mutation rate variation. <i>Science</i> , 2016, 351, 1094-1097.	6.0	125
24	Constraints on Fluctuations in Sparsely Characterized Biological Systems. <i>Physical Review Letters</i> , 2016, 116, 058101.	2.9	48
25	Visualization of Periplasmic and Cytoplasmic Proteins with a Self-Labeling Protein Tag. <i>Journal of Bacteriology</i> , 2016, 198, 1035-1043.	1.0	49
26	Accurate concentration control of mitochondria and nucleoids. <i>Science</i> , 2016, 351, 169-172.	6.0	78
27	Cell-Size Control and Homeostasis in Bacteria. <i>Current Biology</i> , 2015, 25, 385-391.	1.8	632
28	Defiant daughters and coordinated cousins. <i>Nature</i> , 2015, 519, 422-423.	13.7	5
29	Stochastic Switching of Cell Fate in Microbes. <i>Annual Review of Microbiology</i> , 2015, 69, 381-403.	2.9	157
30	Memory and modularity in cell-fate decision making. <i>Nature</i> , 2013, 503, 481-486.	13.7	230
31	New quantitative methods for measuring plasmid loss rates reveal unexpected stability. <i>Plasmid</i> , 2013, 70, 353-361.	0.4	57
32	Segregation of molecules at cell division reveals native protein localization. <i>Nature Methods</i> , 2012, 9, 480-482.	9.0	287
33	Evaluating quantitative methods for measuring plasmid copy numbers in single cells. <i>Plasmid</i> , 2012, 67, 167-173.	0.4	24
34	Non-genetic heterogeneity from stochastic partitioning at cell division. <i>Nature Genetics</i> , 2011, 43, 95-100.	9.4	334
35	Random partitioning of molecules at cell division. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15004-15009.	3.3	191
36	Fundamental limits on the suppression of molecular fluctuations. <i>Nature</i> , 2010, 467, 174-178.	13.7	417

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37	Noise in Gene Regulatory Networks. IEEE Transactions on Automatic Control, 2008, 53, 189-200.	3.6	83
38	Effects of Molecular Memory and Bursting on Fluctuations in Gene Expression. Science, 2008, 319, 339-343.	6.0	365
39	On the analysis of noise in gene regulatory networks. , 2007, , .		2
40	Origin inactivation in bacterial DNA replication control. Molecular Microbiology, 2006, 61, 9-15.	1.2	41
41	Noise in protein expression scales with natural protein abundance. Nature Genetics, 2006, 38, 636-643.	9.4	769
42	Models of stochastic gene expression. Physics of Life Reviews, 2005, 2, 157-175.	1.5	652
43	Real-Time Kinetics of Gene Activity in Individual Bacteria. Cell, 2005, 123, 1025-1036.	13.5	1,334
44	Effect of the CopB Auxiliary Replication Control System on Stability of Maintenance of Par + Plasmid R1. Journal of Bacteriology, 2004, 186, 207-211.	1.0	12
45	Summing up the noise in gene networks. Nature, 2004, 427, 415-418.	13.7	1,143
46	Near-Critical Phenomena in Intracellular Metabolite Pools. Biophysical Journal, 2003, 84, 154-170.	0.2	92
47	Unsolved Problems of Intracellular Noise. AIP Conference Proceedings, 2003, , .	0.3	0
48	Multileveled Selection on Plasmid Replication. Genetics, 2002, 161, 1373-1384.	1.2	113
49	Noise in a minimal regulatory network: plasmid copy number control. Quarterly Reviews of Biophysics, 2001, 34, 1-59.	2.4	204
50	Random Signal Fluctuations Can Reduce Random Fluctuations in Regulated Components of Chemical Regulatory Networks. Physical Review Letters, 2000, 84, 5447-5450.	2.9	177