Philippe Cluzel

List of Publications by Year
in descending order

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16	1,653	623734 14	940533 16
papers	citations	h-index	g-index

22	22	22	2226
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From molecular noise to behavioural variability in a single bacterium. Nature, 2004, 428, 574-578.	27.8	405
2	Systematic characterization of maturation time of fluorescent proteins in living cells. Nature Methods, 2018, 15, 47-51.	19.0	356
3	The single-cell chemostat: an agarose-based, microfluidic device for high-throughput, single-cell studies of bacteria and bacterial communities. Lab on A Chip, 2012, 12, 1487.	6.0	152
4	Mechanism-independent method for predicting response to multidrug combinations in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12254-12259.	7.1	126
5	Relationship between cellular response and behavioral variability in bacterial chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3304-3309.	7.1	119
6	Environmental perturbations lift the degeneracy of the genetic code to regulate protein levels in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2419-2424.	7.1	88
7	Adaptive Resistance in Bacteria Requires Epigenetic Inheritance, Genetic Noise, and Cost of Efflux Pumps. PLoS ONE, 2015, 10, e0118464.	2.5	81
8	Effects of topology on network evolution. Nature Physics, 2006, 2, 532-536.	16.7	75
9	Interdependence of behavioural variability and response to small stimuli in bacteria. Nature, 2010, 468, 819-823.	27.8	67
10	Uncovering Scaling Laws to Infer Multidrug Response of Resistant Microbes and Cancer Cells. Cell Reports, 2014, 6, 1073-1084.	6.4	53
11	Trade-offs between drug toxicity and benefit in the multi-antibiotic resistance system underlie optimal growth of E. coli. BMC Systems Biology, 2012, 6, 48.	3.0	42
12	Stochastic transcriptional pulses orchestrate flagellar biosynthesis in Escherichia coli. Science Advances, 2020, 6, eaax0947.	10.3	28
13	A high-throughput capillary assay for bacterial chemotaxis. Journal of Microbiological Methods, 2003, 55, 315-319.	1.6	26
14	Dynamical Determinants of Drug-Inducible Gene Expression in a Single Bacterium. Biophysical Journal, 2006, 90, 3315-3321.	0.5	20
15	Fine-Tuning of Chemotactic Response in E. coli Determined by High-Throughput Capillary Assay. Current Microbiology, 2011, 62, 764-769.	2.2	7
16	Filtering input fluctuations in intensity and in time underlies stochastic transcriptional pulses without feedback. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26608-26615.	7.1	6