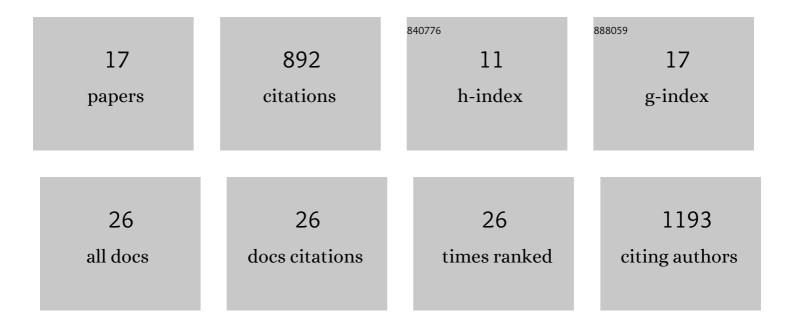
Rutger Hermsen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9399581/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	The Innate Growth Bistability and Fitness Landscapes of Antibiotic-Resistant Bacteria. Science, 2013, 342, 1237435.	12.6	168
2	On the rapidity of antibiotic resistance evolution facilitated by a concentration gradient. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10775-10780.	7.1	162
3	Transcriptional Regulation by Competing Transcription Factor Modules. PLoS Computational Biology, 2006, 2, e164.	3.2	100
4	A growthâ€rate composition formula for the growth of <i>E.Âcoli</i> on coâ€utilized carbon substrates. Molecular Systems Biology, 2015, 11, 801.	7.2	89
5	The naive T-cell receptor repertoire has an extremely broad distribution of clone sizes. ELife, 2020, 9, .	6.0	61
6	Sources and Sinks: A Stochastic Model of Evolution in Heterogeneous Environments. Physical Review Letters, 2010, 105, 248104.	7.8	58
7	Speed, Sensitivity, and Bistability in Auto-activating Signaling Circuits. PLoS Computational Biology, 2011, 7, e1002265.	3.2	51
8	Regulation underlying hierarchical and simultaneous utilization of carbon substrates by flux sensors in Escherichia coli. Nature Microbiology, 2020, 5, 206-215.	13.3	44
9	Combinatorial Gene Regulation Using Auto-Regulation. PLoS Computational Biology, 2010, 6, e1000813.	3.2	34
10	Identical sequences found in distant genomes reveal frequent horizontal transfer across the bacterial domain. ELife, 2021, 10, .	6.0	23
11	Chance and necessity in chromosomal gene distributions. Trends in Genetics, 2008, 24, 216-219.	6.7	22
12	Noise propagation in an integrated model of bacterial gene expression and growth. PLoS Computational Biology, 2018, 14, e1006386.	3.2	20
13	Toxin production spontaneously becomes regulated by local cell density in evolving bacterial populations. PLoS Computational Biology, 2019, 15, e1007333.	3.2	15
14	Hierarchical and simultaneous utilization of carbon substrates: mechanistic insights, physiological roles, and ecological consequences. Current Opinion in Microbiology, 2021, 63, 172-178.	5.1	13
15	Repeated outbreaks drive the evolution of bacteriophage communication. ELife, 2021, 10, .	6.0	11
16	The adaptation rate of a quantitative trait in an environmental gradient. Physical Biology, 2016, 13, 065003.	1.8	9
17	The effect of natural selection on the propagation of protein expression noise to bacterial growth. PLoS Computational Biology, 2021, 17, e1009208.	3.2	5