

Edo Kussell

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7463479/publications.pdf>

Version: 2024-02-01

25
papers

2,657
citations

516710

16
h-index

610901

24
g-index

28
all docs

28
docs citations

28
times ranked

2853
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenotypic Diversity, Population Growth, and Information in Fluctuating Environments. <i>Science</i> , 2005, 309, 2075-2078.	12.6	1,157
2	Bacterial Persistence. <i>Genetics</i> , 2005, 169, 1807-1814.	2.9	476
3	Memory and Fitness Optimization of Bacteria under Fluctuating Environments. <i>PLoS Genetics</i> , 2014, 10, e1004556.	3.5	197
4	Noise-driven growth rate gain in clonal cellular populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3251-3256.	7.1	144
5	Individual histories and selection in heterogeneous populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13183-13188.	7.1	95
6	Bacterial Autoimmunity Due to a Restriction-Modification System. <i>Current Biology</i> , 2016, 26, 404-409.	3.9	92
7	Evolutionary pressures on simple sequence repeats in prokaryotic coding regions. <i>Nucleic Acids Research</i> , 2012, 40, 2399-2413.	14.5	65
8	Inferring bacterial recombination rates from large-scale sequencing datasets. <i>Nature Methods</i> , 2019, 16, 199-204.	19.0	58
9	Evolution in Microbes. <i>Annual Review of Biophysics</i> , 2013, 42, 493-514.	10.0	47
10	Inferring fitness landscapes and selection on phenotypic states from single-cell genealogical data. <i>PLoS Genetics</i> , 2017, 13, e1006653.	3.5	42
11	OPTIMAL LINEAGE PRINCIPLE FOR AGE-STRUCTURED POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 115-134.	2.3	40
12	Quantifying Selective Pressures Driving Bacterial Evolution Using Lineage Analysis. <i>Physical Review X</i> , 2015, 5, .	8.9	39
13	Complex Interplay of Physiology and Selection in the Emergence of Antibiotic Resistance. <i>Current Biology</i> , 2016, 26, 1486-1493.	3.9	33
14	Evolutionary Phase Transitions in Random Environments. <i>Physical Review Letters</i> , 2016, 117, 038104.	7.8	32
15	The impact of bottlenecks on microbial survival, adaptation, and phenotypic switching in host-pathogen interactions. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2803-2816.	2.3	29
16	Roadmap on biology in time varying environments. <i>Physical Biology</i> , 2021, 18, 041502.	1.8	23
17	Polymer-Population Mapping and Localization in the Space of Phenotypes. <i>Physical Review Letters</i> , 2006, 97, 068101.	7.8	22
18	Correlated Mutations and Homologous Recombination Within Bacterial Populations. <i>Genetics</i> , 2017, 205, 891-917.	2.9	16

#	ARTICLE	IF	CITATIONS
19	Origin of exponential growth in nonlinear reaction networks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27795-27804.	7.1	9
20	Core genes can have higher recombination rates than accessory genes within global microbial populations. ELife, 0, 11, .	6.0	9
21	Cell Cycle Heritability and Localization Phase Transition in Growing Populations. Physical Review Letters, 2020, 125, 268103.	7.8	8
22	Ecological memory preserves phage resistance mechanisms in bacteria. Nature Communications, 2021, 12, 6817.	12.8	8
23	Stochastic De-repression of Rhodopsins in Single Photoreceptors of the Fly Retina. PLoS Computational Biology, 2012, 8, e1002357.	3.2	5
24	Populations adapt to fluctuating selection using derived and ancestral allelic diversity. Evolution; International Journal of Organic Evolution, 2015, 69, 1448-1460.	2.3	4
25	Genome-Wide Motif Statistics are Shaped by DNA Binding Proteins over Evolutionary Time Scales. Physical Review X, 2016, 6, .	8.9	3