

Lev S Tsimring

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

4,942
citations

361045

20
h-index

525886

27
g-index

33
all docs

33
docs citations

33
times ranked

4954
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in quantitative biology methods for studying replicative aging in <i>Saccharomyces cerevisiae</i> . <i>Translational Medicine of Aging</i> , 2020, 4, 151-160.	0.6	13
2	A programmable fate decision landscape underlies single-cell aging in yeast. <i>Science</i> , 2020, 369, 325-329.	6.0	77
3	Genetically engineered control of phenotypic structure in microbial colonies. <i>Nature Microbiology</i> , 2020, 5, 697-705.	5.9	22
4	Flower-like patterns in multi-species bacterial colonies. <i>ELife</i> , 2020, 9, .	2.8	49
5	Rock-paper-scissors: Engineered population dynamics increase genetic stability. <i>Science</i> , 2019, 365, 1045-1049.	6.0	115
6	Divergent Aging of Isogenic Yeast Cells Revealed through Single-Cell Phenotypic Dynamics. <i>Cell Systems</i> , 2019, 8, 242-253.e3.	2.9	43
7	Coexistence and Pattern Formation in Bacterial Mixtures with Contact-Dependent Killing. <i>Biophysical Journal</i> , 2018, 114, 1741-1750.	0.2	11
8	Rational engineering of synthetic microbial systems: from single cells to consortia. <i>Current Opinion in Microbiology</i> , 2018, 45, 92-99.	2.3	75
9	Species-Independent Attraction to Biofilms through Electrical Signaling. <i>Cell</i> , 2017, 168, 200-209.e12.	13.5	232
10	Synthetic Gene Circuits Learn to Classify. <i>Cell Systems</i> , 2017, 4, 151-153.	2.9	1
11	A stabilized microbial ecosystem of self-limiting bacteria using synthetic quorum-regulated lysis. <i>Nature Microbiology</i> , 2017, 2, 17083.	5.9	129
12	Multigenerational silencing dynamics control cell aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11253-11258.	3.3	60
13	Gene Conversion Facilitates Adaptive Evolution on Rugged Fitness Landscapes. <i>Genetics</i> , 2017, 207, 1577-1589.	1.2	12
14	Suppression of Beneficial Mutations in Dynamic Microbial Populations. <i>Physical Review Letters</i> , 2017, 118, 028102.	2.9	10
15	Inter-species population dynamics enhance microbial horizontal gene transfer and spread of antibiotic resistance. <i>ELife</i> , 2017, 6, .	2.8	126
16	Criticality and Adaptivity in Enzymatic Networks. <i>Biophysical Journal</i> , 2016, 111, 1078-1087.	0.2	25
17	Synchronized cycles of bacterial lysis for in vivo delivery. <i>Nature</i> , 2016, 536, 81-85.	13.7	487
18	Transcriptional regulation with CRISPR-Cas9: principles, advances, and applications. <i>Current Opinion in Biotechnology</i> , 2016, 40, 177-184.	3.3	69

#	ARTICLE	IF	CITATIONS
19	Orthogonal Modular Gene Repression in <i>Escherichia coli</i> Using Engineered CRISPR/Cas9. <i>ACS Synthetic Biology</i> , 2016, 5, 81-88.	1.9	58
20	Considering the kinetics of mRNA synthesis in the analysis of the genome and epigenome reveals determinants of co-transcriptional splicing. <i>Nucleic Acids Research</i> , 2015, 43, 699-707.	6.5	15
21	Accurate information transmission through dynamic biochemical signaling networks. <i>Science</i> , 2014, 346, 1370-1373.	6.0	325
22	A sensing array of radically coupled genetic "biopixels". <i>Nature</i> , 2012, 481, 39-44.	13.7	351
23	Entrainment of a Population of Synthetic Genetic Oscillators. <i>Science</i> , 2011, 333, 1315-1319.	6.0	222
24	Buckling instability in ordered bacterial colonies. <i>Physical Biology</i> , 2011, 8, 026008.	0.8	66
25	A synchronized quorum of genetic clocks. <i>Nature</i> , 2010, 463, 326-330.	13.7	916
26	Streaming Instability in Growing Cell Populations. <i>Physical Review Letters</i> , 2010, 104, 208101.	2.9	92
27	A fast, robust and tunable synthetic gene oscillator. <i>Nature</i> , 2008, 456, 516-519.	13.7	1,079
28	Biomechanical ordering of dense cell populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15346-15351.	3.3	259