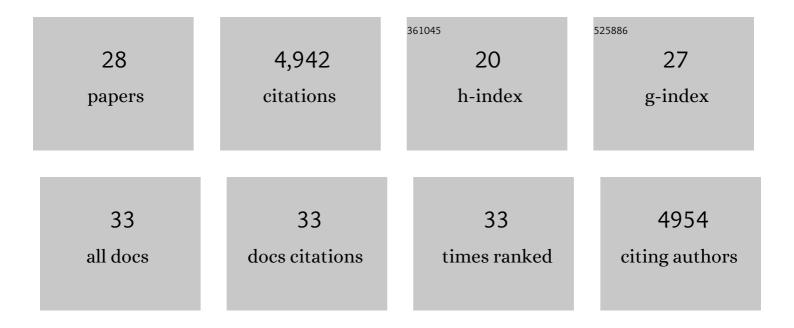
## Lev S Tsimring

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7520358/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A fast, robust and tunable synthetic gene oscillator. Nature, 2008, 456, 516-519.	13.7	1,079
2	A synchronized quorum of genetic clocks. Nature, 2010, 463, 326-330.	13.7	916
3	Synchronized cycles of bacterial lysis for in vivo delivery. Nature, 2016, 536, 81-85.	13.7	487
4	A sensing array of radically coupled genetic â€~biopixels'. Nature, 2012, 481, 39-44.	13.7	351
5	Accurate information transmission through dynamic biochemical signaling networks. Science, 2014, 346, 1370-1373.	6.0	325
6	Biomechanical ordering of dense cell populations. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15346-15351.	3.3	259
7	Species-Independent Attraction to Biofilms through Electrical Signaling. Cell, 2017, 168, 200-209.e12.	13.5	232
8	Entrainment of a Population of Synthetic Genetic Oscillators. Science, 2011, 333, 1315-1319.	6.0	222
9	A stabilized microbial ecosystem of self-limiting bacteria using synthetic quorum-regulated lysis. Nature Microbiology, 2017, 2, 17083.	5.9	129
10	Inter-species population dynamics enhance microbial horizontal gene transfer and spread of antibiotic resistance. ELife, 2017, 6, .	2.8	126
11	Rock-paper-scissors: Engineered population dynamics increase genetic stability. Science, 2019, 365, 1045-1049.	6.0	115
12	Streaming Instability in Growing Cell Populations. Physical Review Letters, 2010, 104, 208101.	2.9	92
13	A programmable fate decision landscape underlies single-cell aging in yeast. Science, 2020, 369, 325-329.	6.0	77
14	Rational engineering of synthetic microbial systems: from single cells to consortia. Current Opinion in Microbiology, 2018, 45, 92-99.	2.3	75
15	Transcriptional regulation with CRISPR-Cas9: principles, advances, and applications. Current Opinion in Biotechnology, 2016, 40, 177-184.	3.3	69
16	Buckling instability in ordered bacterial colonies. Physical Biology, 2011, 8, 026008.	0.8	66
17	Multigenerational silencing dynamics control cell aging. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11253-11258.	3.3	60
18	Orthogonal Modular Gene Repression in <i>Escherichia coli</i> Using Engineered CRISPR/Cas9. ACS Synthetic Biology, 2016, 5, 81-88.	1.9	58

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#	Article	IF	CITATIONS
19	Flower-like patterns in multi-species bacterial colonies. ELife, 2020, 9, .	2.8	49
20	Divergent Aging of Isogenic Yeast Cells Revealed through Single-Cell Phenotypic Dynamics. Cell Systems, 2019, 8, 242-253.e3.	2.9	43
21	Criticality and Adaptivity in Enzymatic Networks. Biophysical Journal, 2016, 111, 1078-1087.	0.2	25
22	Genetically engineered control of phenotypic structure in microbial colonies. Nature Microbiology, 2020, 5, 697-705.	5.9	22
23	Considering the kinetics of mRNA synthesis in the analysis of the genome and epigenome reveals determinants of co-transcriptional splicing. Nucleic Acids Research, 2015, 43, 699-707.	6.5	15
24	Advances in quantitative biology methods for studying replicative aging in Saccharomyces cerevisiae. Translational Medicine of Aging, 2020, 4, 151-160.	0.6	13
25	Gene Conversion Facilitates Adaptive Evolution on Rugged Fitness Landscapes. Genetics, 2017, 207, 1577-1589.	1.2	12
26	Coexistence and Pattern Formation in Bacterial Mixtures with Contact-Dependent Killing. Biophysical Journal, 2018, 114, 1741-1750.	0.2	11
27	Suppression of Beneficial Mutations in Dynamic Microbial Populations. Physical Review Letters, 2017, 118, 028102.	2.9	10
28	Synthetic Gene Circuits Learn to Classify. Cell Systems, 2017, 4, 151-153.	2.9	1