

# Stanislas Leibler

## List of Publications by Year in descending order

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39  
papers

17,749  
citations

212478

28  
h-index

355658

38  
g-index

40  
all docs

40  
docs citations

40  
times ranked

17899  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary dynamics, evolutionary forces, and robustness: A nonequilibrium statistical mechanics perspective. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2112083119.	3.3	4
2	Bacterial Growth Control Mechanisms Inferred from Multivariate Statistical Analysis of Single-Cell Measurements. <i>Current Biology</i> , 2021, 31, 955-964.e4.	1.8	24
3	Nongenetic individuality, changeability, and inheritance in bacterial behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
4	Lessons from equilibrium statistical physics regarding the assembly of protein complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 114-120.	3.3	32
5	Homeorhesis and ecological succession quantified in synthetic microbial ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14852-14861.	3.3	25
6	Environment-to-phenotype mapping and adaptation strategies in varying environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13847-13855.	3.3	49
7	Benefits of phenotypic plasticity for population growth in varying environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12745-12750.	3.3	75
8	Bet Hedging against Demographic Fluctuations. <i>Physical Review Letters</i> , 2017, 119, 108103.	2.9	19
9	Strain analysis of protein structures and low dimensionality of mechanical allosteric couplings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5847-E5855.	3.3	61
10	Evolutionary learning of adaptation to varying environments through a transgenerational feedback. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11266-11271.	3.3	29
11	Strongly Deterministic Population Dynamics in Closed Microbial Communities. <i>Physical Review X</i> , 2015, 5, .	2.8	18
12	Multifarious assembly mixtures: Systems allowing retrieval of diverse stored structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 54-59.	3.3	52
13	Protein Sectors: Statistical Coupling Analysis versus Conservation. <i>PLoS Computational Biology</i> , 2015, 11, e1004091.	1.5	70
14	A model for the generation and transmission of variations in evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1940-9.	3.3	80
15	Discriminatory Proofreading Regimes in Nonequilibrium Systems. <i>Physical Review X</i> , 2014, 4, .	2.8	41
16	Dynamic Persistence of Antibiotic-Stressed Mycobacteria. <i>Science</i> , 2013, 339, 91-95.	6.0	495
17	Trend and fluctuations: Analysis and design of population dynamics measurements in replicate ecosystems. <i>Physical Review E</i> , 2013, 88, 062714.	0.8	8
18	The Value of Information for Populations in Varying Environments. <i>Journal of Statistical Physics</i> , 2011, 142, 1124-1166.	0.5	146

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19	An interdomain sector mediating allostery in Hsp70 molecular chaperones. <i>Molecular Systems Biology</i> , 2010, 6, 414.	3.2	118
20	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.	3.3	95
21	Protein Sectors: Evolutionary Units of Three-Dimensional Structure. <i>Cell</i> , 2009, 138, 774-786.	13.5	642
22	Polymer-Population Mapping and Localization in the Space of Phenotypes. <i>Physical Review Letters</i> , 2006, 97, 068101.	2.9	22
23	Phenotypic Diversity, Population Growth, and Information in Fluctuating Environments. <i>Science</i> , 2005, 309, 2075-2078.	6.0	1,157
24	Bacterial Persistence. <i>Genetics</i> , 2005, 169, 1807-1814.	1.2	476
25	Resilient circadian oscillator revealed in individual cyanobacteria. <i>Nature</i> , 2004, 430, 81-85.	13.7	223
26	Bacterial Persistence as a Phenotypic Switch. <i>Science</i> , 2004, 305, 1622-1625.	6.0	2,451
27	Environmental stresses can alleviate the average deleterious effect of mutations. , 2003, 2, 14.		118
28	Modeling network dynamics. <i>Journal of Cell Biology</i> , 2003, 161, 471-476.	2.3	195
29	DNA Looping and Physical Constraints on Transcription Regulation. <i>Journal of Molecular Biology</i> , 2003, 331, 981-989.	2.0	173
30	Mechanisms of noise-resistance in genetic oscillators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5988-5992.	3.3	518
31	Combinatorial Synthesis of Genetic Networks. <i>Science</i> , 2002, 296, 1466-1470.	6.0	480
32	Establishment of developmental precision and proportions in the early <i>Drosophila</i> embryo. <i>Nature</i> , 2002, 415, 798-802.	13.7	701
33	A synthetic oscillatory network of transcriptional regulators. <i>Nature</i> , 2000, 403, 335-338.	13.7	4,143
34	Circadian clocks limited by noise. <i>Nature</i> , 2000, 403, 267-268.	13.7	477
35	An Ultrasensitive Bacterial Motor Revealed by Monitoring Signaling Proteins in Single Cells. <i>Science</i> , 2000, 287, 1652-1655.	6.0	538
36	From molecular to modular cell biology. <i>Nature</i> , 1999, 402, C47-C52.	13.7	3,121

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37	Protein Mobility in the Cytoplasm of <i>Escherichia coli</i> . Journal of Bacteriology, 1999, 181, 197-203.	1.0	539
38	Photoactivation turns green fluorescent protein red. Current Biology, 1997, 7, 809-812.	1.8	165
39	A magnetic manipulator for studying local rheology and micromechanical properties of biological systems. Review of Scientific Instruments, 1996, 67, 818-827.	0.6	158