

# Xiongfeng Dai

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

945  
citations

687363

13  
h-index

794594

19  
g-index

19  
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19  
docs citations

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times ranked

946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduction of translating ribosomes enables <i>Escherichia coli</i> to maintain elongation rates during slow growth. <i>Nature Microbiology</i> , 2017, 2, 16231.	13.3	251
2	Inflating bacterial cells by increased protein synthesis. <i>Molecular Systems Biology</i> , 2015, 11, 836.	7.2	164
3	Growth suppression by altered (p)ppGpp levels results from non-optimal resource allocation in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2019, 47, 4684-4693.	14.5	77
4	Disruption of transcription-translation coordination in <i>Escherichia coli</i> leads to premature transcriptional termination. <i>Nature Microbiology</i> , 2019, 4, 2347-2356.	13.3	70
5	Coupling of Ribosome Synthesis and Translational Capacity with Cell Growth. <i>Trends in Biochemical Sciences</i> , 2020, 45, 681-692.	7.5	62
6	Slowdown of Translational Elongation in <i>Escherichia coli</i> under Hyperosmotic Stress. <i>MBio</i> , 2018, 9, .	4.1	53
7	Maintenance of translational elongation rate underlies the survival of <i>Escherichia coli</i> during oxidative stress. <i>Nucleic Acids Research</i> , 2019, 47, 7592-7604.	14.5	44
8	On the intrinsic constraint of bacterial growth rate: <i>M. tuberculosis</i> 's view of the protein translation capacity. <i>Critical Reviews in Microbiology</i> , 2018, 44, 455-464.	6.1	42
9	Real time determination of bacterial <i>in vivo</i> ribosome translation elongation speed based on LacZ± complementation system. <i>Nucleic Acids Research</i> , 2016, 44, gkw698.	14.5	34
10	(p)ppGpp: the magic governor of bacterial growth economy. <i>Current Genetics</i> , 2019, 65, 1121-1125.	1.7	33
11	Manipulating the Bacterial Cell Cycle and Cell Size by Titrating the Expression of Ribonucleotide Reductase. <i>MBio</i> , 2017, 8, .	4.1	27
12	Bacterial stress defense: the crucial role of ribosome speed. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 853-858.	5.4	19
13	High Osmolarity Modulates Bacterial Cell Size through Reducing Initiation Volume in <i>Escherichia coli</i> . <i>MSphere</i> , 2018, 3, .	2.9	17
14	High Salt Cross-Protects <i>Escherichia coli</i> from Antibiotic Treatment through Increasing Efflux Pump Expression. <i>MSphere</i> , 2018, 3, .	2.9	15
15	<i>Sinorhizobium meliloti</i> , a Slow-Growing Bacterium, Exhibits Growth Rate Dependence of Cell Size under Nutrient Limitation. <i>MSphere</i> , 2018, 3, .	2.9	10
16	Control of ribosome synthesis in bacteria: the important role of rRNA chain elongation rate. <i>Science China Life Sciences</i> , 2021, 64, 795-802.	4.9	10
17	Quantitative analysis of asynchronous transcription-translation and transcription processivity in <i>Bacillus subtilis</i> under various growth conditions. <i>Science</i> , 2021, 24, 103333.	4.1	9
18	Circular permutation of <i>E. coli</i> EPSP synthase: increased inhibitor resistance, improved catalytic activity, and an indicator for protein fragment complementation. <i>Chemical Communications</i> , 2014, 50, 1830-1832.	4.1	6