Jue D Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

43	3,939	159585	302126
papers	citations	30 h-index	39 g-index

54	54	54	3904
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Control of bacterial transcription, translation and replication by (p)ppGpp. Current Opinion in Microbiology, 2008, 11, 100-105.	5.1	357
2	Metabolism, cell growth and the bacterial cell cycle. Nature Reviews Microbiology, 2009, 7, 822-827.	28.6	283
3	Direct Regulation of GTP Homeostasis by (p)ppGpp: A Critical Component of Viability and Stress Resistance. Molecular Cell, 2012, 48, 231-241.	9.7	271
4	Nutritional Control of Elongation of DNA Replication by (p)ppGpp. Cell, 2007, 128, 865-875.	28.9	267
5	High-Precision, Whole-Genome Sequencing of Laboratory Strains Facilitates Genetic Studies. PLoS Genetics, 2008, 4, e1000139.	3.5	202
6	Replicationâ€“transcription conflicts in bacteria. Nature Reviews Microbiology, 2012, 10, 449-458.	28.6	190
7	Diversity in (p)ppGpp metabolism and effectors. Current Opinion in Microbiology, 2015, 24, 72-79.	5.1	175
8	Co-Orientation of Replication and Transcription Preserves Genome Integrity. PLoS Genetics, 2010, 6, e1000810.	3.5	160
9	The Transcription Factor DksA Prevents Conflicts between DNA Replication and Transcription Machinery. Cell, 2010, 141, 595-605.	28.9	141
10	Directed Evolution of Substrate-Optimized GroEL/S Chaperonins. Cell, 2002, 111, 1027-1039.	28.9	137
11	Fatty Acid Availability Sets Cell Envelope Capacity and Dictates Microbial Cell Size. Current Biology, 2017, 27, 1757-1767.e5.	3.9	127
12	The nature of mutations induced by replicationâ€“transcription collisions. Nature, 2016, 535, 178-181.	27.8	121
13	Basal Levels of (p)ppGpp in Enterococcus faecalis: the Magic beyond the Stringent Response. MBio, 2013, 4, e00646-13.	4.1	105
14	Genome-wide coorientation of replication and transcription reduces adverse effects on replication in Bacillus subtilis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5608-5613.	7.1	99
15	Characterization of the Global Transcriptional Responses to Different Types of DNA Damage and Disruption of Replication in Bacillus subtilis. Journal of Bacteriology, 2006, 188, 5595-5605.	2.2	93
16	Metabolic Remodeling during Biofilm Development of Bacillus subtilis. MBio, 2019, 10, .	4.1	93
17	GTP Dysregulation in Bacillus subtilis Cells Lacking (p)ppGpp Results in Phenotypic Amino Acid Auxotrophy and Failure To Adapt to Nutrient Downshift and Regulate Biosynthesis Genes. Journal of Bacteriology, 2014, 196, 189-201.	2.2	90
18	Molecular Mechanism and Evolution of Guanylate Kinase Regulation by (p)ppGpp. Molecular Cell, 2015, 57, 735-749.	9.7	88

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19	From (p)ppGpp to (pp)pGpp: Characterization of Regulatory Effects of pGpp Synthesized by the Small Alarmone Synthetase of Enterococcus faecalis. Journal of Bacteriology, 2015, 197, 2908-2919.	2.2	88
20	Binding Mechanism of Metalâ‹…NTP Substrates and Stringent-Response Alarmones to Bacterial DnaG-Type Primases. Structure, 2012, 20, 1478-1489.	3.3	73
21	Replication of the <scp>E</scp>scherichia coli chromosome in <scp>RN</scp>ase <scp>HI</scp>â€deficient cells: multiple initiation regions and fork dynamics. Molecular Microbiology, 2014, 91, 39-56.	2.5	70
22	DksA Guards Elongating RNA Polymerase against Ribosome-Stalling-Induced Arrest. Molecular Cell, 2014, 53, 766-778.	9.7	63
23	GroEL-GroES-mediated protein folding requires an intact central cavity. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12163-12168.	7.1	62
24	Doseâ€dependent reduction of replication elongation rate by (p)pp<scp>G</scp>pp in <scp>E</scp>scherichia coli and <scp>B</scp>acillus subtilis. Molecular Microbiology, 2013, 88, 93-104.	2.5	55
25	Lowering GTP Level Increases Survival of Amino Acid Starvation but Slows Growth Rate for Bacillus subtilis Cells Lacking (p)ppGpp. Journal of Bacteriology, 2014, 196, 2067-2076.	2.2	54
26	Sources of spontaneous mutagenesis in bacteria. Critical Reviews in Biochemistry and Molecular Biology, 2018, 53, 29-48.	5.2	50
27	Failsafe Mechanisms Couple Division and DNA Replication in Bacteria. Current Biology, 2014, 24, 2149-2155.	3.9	46
28	Regulatory Themes and Variations by the Stress-Signaling Nucleotide Alarmones (p)ppGpp in Bacteria. Annual Review of Genetics, 2021, 55, 115-133.	7.6	46
29	The nucleotide pGpp acts as a third alarmone in Bacillus, with functions distinct from those of (p)ppGpp. Nature Communications, 2020, 11, 5388.	12.8	41
30	Evolution of (p)ppGpp-HPRT regulation through diversification of an allosteric oligomeric interaction. ELife, 2019, 8, .	6.0	40
31	Molecular Mechanism of Regulation of the Purine Salvage Enzyme XPRT by the Alarmones pppGpp, ppGpp, and pGpp. Journal of Molecular Biology, 2020, 432, 4108-4126.	4.2	31
32	Small Alarmone Synthetase SasA Expression Leads to Concomitant Accumulation of pGpp, ppApp, and AppppA in Bacillus subtilis. Frontiers in Microbiology, 2020, 11, 2083.	3.5	30
33	(p)ppGpp and c-di-AMP Homeostasis Is Controlled by CbpB in Listeria monocytogenes. MBio, 2020, 11, .	4.1	28
34	Effects of amino acid starvation on <scp>RelA</scp> diffusive behavior in live <scp>E</scp>scherichia coli. Molecular Microbiology, 2016, 99, 571-585.	2.5	27
35	The roles of replication-transcription conflict in mutagenesis and evolution of genome organization. PLoS Genetics, 2020, 16, e1008987.	3.5	22
36	Multicopy Plasmids Affect Replisome Positioning in Bacillus subtilis. Journal of Bacteriology, 2004, 186, 7084-7090.	2.2	19

#	Article	IF	Citations
37	The nucleotide messenger (p)ppGpp is an anti-inducer of the purine synthesis transcription regulator PurR inBacillus. Nucleic Acids Research, 2022, 50, 847-866.	14.5	19
38	Thinking outside the box: new insights into the mechanism of GroEL-mediated protein folding. , 1999, 6, 597-600.		17
39	Reformulation of an extant ATPase active site to mimic ancestral GTPase activity reveals a nucleotide base requirement for function. ELife, 2021, 10, .	6.0	12
40	Bacillus subtilis produces (p)ppGpp in response to the bacteriostatic antibiotic chloramphenicol to prevent its potential bactericidal effect. , 2022, 1, 101-113.		8
41	The Alarmone (p)ppGpp Regulates Primer Extension by Bacterial Primase. Journal of Molecular Biology, 2021, 433, 167189.	4.2	4
42	Toxin discovery reveals fresh ammunition for bacterial warfare. Nature, 2019, 575, 599-600.	27.8	0
43	Nucleotide Second Messengers: (p)ppGpp and Cyclic Dinucleotides. , 2017, , .		0