

Katsuhiko S Murakami

List of Publications by Year in descending order

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59
papers

6,057
citations

168829

31
h-index

162838

57
g-index

140
all docs

140
docs citations

140
times ranked

6211
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Mechanism for Rifampicin Inhibition of Bacterial RNA Polymerase. <i>Cell</i> , 2001, 104, 901-912.	13.5	1,219
2	Recent functional insights into the role of (p)ppGpp in bacterial physiology. <i>Nature Reviews Microbiology</i> , 2015, 13, 298-309.	13.6	703
3	Structural Basis of Transcription Initiation: An RNA Polymerase Holoenzyme-DNA Complex. <i>Science</i> , 2002, 296, 1285-1290.	6.0	597
4	Structural Basis of Transcription Initiation: RNA Polymerase Holoenzyme at 4 Å Resolution. <i>Science</i> , 2002, 296, 1280-1284.	6.0	503
5	Bacterial RNA polymerases: the whole story. <i>Current Opinion in Structural Biology</i> , 2003, 13, 31-39.	2.6	469
6	Differential regulation by ppGpp versus pppGpp in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2013, 41, 6175-6189.	6.5	202
7	The X-ray crystal structure of RNA polymerase from Archaea. <i>Nature</i> , 2008, 451, 851-854.	13.7	193
8	X-ray Crystal Structure of <i>Escherichia coli</i> RNA Polymerase β 70 Holoenzyme. <i>Journal of Biological Chemistry</i> , 2013, 288, 9126-9134.	1.6	174
9	Structural Basis of Transcription Initiation by Bacterial RNA Polymerase Holoenzyme. <i>Journal of Biological Chemistry</i> , 2014, 289, 24549-24559.	1.6	159
10	RNA polymerase and transcription elongation factor Spt4/5 complex structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 546-550.	3.3	139
11	Co-overexpression of <i>Escherichia coli</i> RNA Polymerase Subunits Allows Isolation and Analysis of Mutant Enzymes Lacking Lineage-specific Sequence Insertions. <i>Journal of Biological Chemistry</i> , 2003, 278, 12344-12355.	1.6	132
12	Identification of SARS-CoV-2 inhibitors targeting Mpro and PLpro using in-cell-protease assay. <i>Communications Biology</i> , 2022, 5, 169.	2.0	118
13	Structural Biology of Bacterial RNA Polymerase. <i>Biomolecules</i> , 2015, 5, 848-864.	1.8	93
14	Allosteric Effector ppGpp Potentiates the Inhibition of Transcript Initiation by DksA. <i>Molecular Cell</i> , 2018, 69, 828-839.e5.	4.5	89
15	Fitness costs of rifampicin resistance in <i>Mycobacterium tuberculosis</i> are amplified under conditions of nutrient starvation and compensated by mutation in the β subunit of RNA polymerase. <i>Molecular Microbiology</i> , 2014, 91, 1106-1119.	1.2	85
16	Structures of the RNA polymerase β 54 reveal new and conserved regulatory strategies. <i>Science</i> , 2015, 349, 882-885.	6.0	77
17	Structural basis for rifampicin resistance of bacterial RNA polymerase by the three most clinically important RpoB mutations found in <i>Mycobacterium tuberculosis</i> . <i>Molecular Microbiology</i> , 2017, 103, 1034-1045.	1.2	76
18	Molecular basis of microhomology-mediated end-joining by purified full-length Pol η . <i>Nature Communications</i> , 2019, 10, 4423.	5.8	66

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19	NusG Is a Sequence-specific RNA Polymerase Pause Factor That Binds to the Non-template DNA within the Paused Transcription Bubble. <i>Journal of Biological Chemistry</i> , 2016, 291, 5299-5308.	1.6	63
20	Structure and Function of Lineage-specific Sequence Insertions in the Bacterial RNA Polymerase β Subunit. <i>Journal of Molecular Biology</i> , 2005, 353, 138-154.	2.0	62
21	Cryo-EM structure of <i>Escherichia coli</i> β 70 RNA polymerase and promoter DNA complex revealed a role of β non-conserved region during the open complex formation. <i>Journal of Biological Chemistry</i> , 2018, 293, 7367-7375.	1.6	61
22	Archaeal RNA polymerase and transcription regulation. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2011, 46, 27-40.	2.3	55
23	Mode of Action of Kanglemycin A, an Ansamycin Natural Product that Is Active against Rifampicin-Resistant <i>Mycobacterium tuberculosis</i> . <i>Molecular Cell</i> , 2018, 72, 263-274.e5.	4.5	51
24	X-ray Crystal Structures of the <i>Escherichia coli</i> RNA Polymerase in Complex with Benzoxazinorifamycins. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 4758-4763.	2.9	49
25	Structural basis of ribosomal RNA transcription regulation. <i>Nature Communications</i> , 2021, 12, 528.	5.8	46
26	Archaeal RNA polymerase. <i>Current Opinion in Structural Biology</i> , 2009, 19, 724-731.	2.6	44
27	An Introduction to the Structure and Function of the Catalytic Core Enzyme of <i>Escherichia coli</i> RNA Polymerase. <i>EcoSal Plus</i> , 2018, 8, .	2.1	44
28	Archaeal RNA polymerase subunits E and F are not required for transcription <i>in vitro</i> , but a <i>Thermococcus kodakarensis</i> mutant lacking subunit F is temperature-sensitive. <i>Molecular Microbiology</i> , 2008, 70, 623-633.	1.2	43
29	Structural Basis for DNA-Hairpin Promoter Recognition by the Bacteriophage N4 Virion RNA Polymerase. <i>Molecular Cell</i> , 2008, 32, 707-717.	4.5	42
30	X-ray crystal structures elucidate the nucleotidyl transfer reaction of transcript initiation using two nucleotides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3566-3571.	3.3	36
31	The X-ray crystal structure of the euryarchaeal RNA polymerase in an open-clamp configuration. <i>Nature Communications</i> , 2014, 5, 5132.	5.8	36
32	X-ray Crystal Structures of <i>Escherichia coli</i> RNA Polymerase with Switch Region Binding Inhibitors Enable Rational Design of Squaramides with an Improved Fraction Unbound to Human Plasma Protein. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 3156-3171.	2.9	36
33	Watching the Bacteriophage N4 RNA Polymerase Transcription by Time-dependent Soak-trigger-freeze X-ray Crystallography. <i>Journal of Biological Chemistry</i> , 2013, 288, 3305-3311.	1.6	34
34	Structure-function comparisons of (p)ppApp vs (p)ppGpp for <i>Escherichia coli</i> RNA polymerase binding sites and for rrnB P1 promoter regulatory responses <i>in vitro</i> . <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2018, 1861, 731-742.	0.9	26
35	<i>Mycobacterium</i> HelD is a nucleic acids-clearing factor for RNA polymerase. <i>Nature Communications</i> , 2020, 11, 6419.	5.8	22
36	X-ray crystal structure of the polymerase domain of the bacteriophage N4 virion RNA polymerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5046-5051.	3.3	20

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37	Inactivation of the Bacterial RNA Polymerase Due to Acquisition of Secondary Structure by the β Subunit. <i>Journal of Biological Chemistry</i> , 2013, 288, 25076-25087.	1.6	20
38	Structure and function of an unusual flavodoxin from the domain <i>Archaea</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25917-25922.	3.3	17
39	Functional Analysis of the Three TATA Binding Protein Homologs in <i>Methanosarcina acetivorans</i> . <i>Journal of Bacteriology</i> , 2010, 192, 1511-1517.	1.0	16
40	Time-Resolved Events on the Reaction Pathway of Transcript Initiation by a Single-Subunit RNA Polymerase: Raman Crystallographic Evidence. <i>Journal of the American Chemical Society</i> , 2011, 133, 12544-12555.	6.6	16
41	X-ray crystal structure of a reiterative transcription complex reveals an atypical RNA extension pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8211-8216.	3.3	16
42	Region 3.2 of the β factor controls the stability of rRNA promoter complexes and potentiates their repression by DksA. <i>Nucleic Acids Research</i> , 2018, 46, 11477-11487.	6.5	16
43	Structural basis of RNA polymerase recycling by the Swi2/Snf2 family of ATPase RapA in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2021, 297, 101404.	1.6	14
44	Structural and mutational analysis of archaeal ATP-dependent RNA ligase identifies amino acids required for RNA binding and catalysis. <i>Nucleic Acids Research</i> , 2016, 44, 2337-2347.	6.5	13
45	Novel Chemical Scaffolds for Inhibition of Rifamycin-Resistant RNA Polymerase Discovered from High-Throughput Screening. <i>SLAS Discovery</i> , 2017, 22, 287-297.	1.4	11
46	Structural basis of reiterative transcription from the pyrG and pyrBI promoters by bacterial RNA polymerase. <i>Nucleic Acids Research</i> , 2020, 48, 2144-2155.	6.5	10
47	The mechanism of the nucleo-sugar selection by multi-subunit RNA polymerases. <i>Nature Communications</i> , 2021, 12, 796.	5.8	8
48	Evaluation of Bacterial RNA Polymerase Inhibitors in a <i>Staphylococcus aureus</i> -Based Wound Infection Model in SKH1 Mice. <i>ACS Infectious Diseases</i> , 2020, 6, 2573-2581.	1.8	5
49	Direct binding of TFE \pm opens DNA binding cleft of RNA polymerase. <i>Nature Communications</i> , 2020, 11, 6123.	5.8	5
50	Minimalism and functionality: Structural lessons from the heterodimeric N4 bacteriophage RNA polymerase II. <i>Journal of Biological Chemistry</i> , 2018, 293, 13616-13625.	1.6	4
51	Transcription RNA Polymerase Reaction in Bacteria. , 2021, , 358-364.		3
52	Introduction to Nucleic Acid Polymerases: Families, Themes, and Mechanisms. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 1-15.	0.2	3
53	On the stability of stalled RNA polymerase and its removal by RapA. <i>Nucleic Acids Research</i> , 2022, 50, 7396-7405.	6.5	3
54	Bacteriophage RNA Polymerases. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 237-250.	0.2	1

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55	Watching the bacterial RNA polymerase transcription reaction by time-dependent soak-trigger-freeze X-ray crystallography. <i>The Enzymes</i> , 2021, 49, 305-314.	0.7	1
56	Optimization of Benzoxazinorifamycins to Minimize hPXR Activation for the Treatment of Tuberculosis and HIV Coinfection. <i>ACS Infectious Diseases</i> , 2022, 8, 1408-1421.	1.8	1
57	Optimization of Benzoxazinorifamycins to Improve <i>Mycobacterium tuberculosis</i> RNA Polymerase Inhibition and Treatment of Tuberculosis. <i>ACS Infectious Diseases</i> , 2022, 8, 1422-1438.	1.8	1
58	Transcriptional Regulation in Archaea. , 2013, , 2254-2258.		0
59	The X-ray Crystal Structure of Escherichia Coli RNA Polymerase β 70 Holoenzyme. <i>FASEB Journal</i> , 2013, 27, 547.2.	0.2	0