

# Ruth M Saecker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/651527/publications.pdf>

Version: 2024-02-01

12  
papers

1,013  
citations

933447

10  
h-index

1199594

12  
g-index

13  
all docs

13  
docs citations

13  
times ranked

992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Bacterial Transcription Initiation: RNA Polymerase - Promoter Binding, Isomerization to Initiation-Competent Open Complexes, and Initiation of RNA Synthesis. <i>Journal of Molecular Biology</i> , 2011, 412, 754-771.	4.2	284
2	Enthalpy and Heat Capacity Changes for Formation of an Oligomeric DNA Duplex: Interpretation in Terms of Coupled Processes of Formation and Association of Single-Stranded Helices. <i>Biochemistry</i> , 1999, 38, 8409-8422.	2.5	222
3	Structure and function of the mycobacterial transcription initiation complex with the essential regulator RbpA. <i>ELife</i> , 2017, 6, .	6.0	106
4	Time-resolved cryo-EM using Spotiton. <i>Nature Methods</i> , 2020, 17, 897-900.	19.0	96
5	Stepwise Promoter Melting by Bacterial RNA Polymerase. <i>Molecular Cell</i> , 2020, 78, 275-288.e6.	9.7	88
6	Solute Probes of Conformational Changes in Open Complex (R <sub>Po</sub> ) Formation by Escherichia coli RNA Polymerase at the $\lambda$ PR Promoter: Evidence for Unmasking of the Active Site in the Isomerization Step and for Large-Scale Coupled Folding in the Subsequent Conversion to R <sub>Po</sub> . <i>Biochemistry</i> , 2006, 45, 2161-2177.	2.5	52
7	One-step DNA melting in the RNA polymerase cleft opens the initiation bubble to form an unstable open complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10418-10423.	7.1	50
8	Late Steps in the Formation of E. coli RNA Polymerase $\lambda$ PR Promoter Open Complexes: Characterization of Conformational Changes by Rapid [Perturbant] Upshift Experiments. <i>Journal of Molecular Biology</i> , 2008, 376, 1034-1047.	4.2	43
9	Structural origins of Escherichia coli RNA polymerase open promoter complex stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	23
10	Native Mass Spectrometry-Based Screening for Optimal Sample Preparation in Single-Particle Cryo-EM. <i>Structure</i> , 2021, 29, 186-195.e6.	3.3	19
11	Fluorescence Resonance Energy Transfer Characterization of DNA Wrapping in Closed and Open Escherichia coli RNA Polymerase $\lambda$ PR Promoter Complexes. <i>Biochemistry</i> , 2016, 55, 2174-2186.	2.5	15
12	Transcription initiation in mycobacteria: a biophysical perspective. <i>Transcription</i> , 2020, 11, 53-65.	3.1	15