

# Eric A Galburt

## List of Publications by Year in descending order

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32  
papers

1,397  
citations

471509

17  
h-index

501196

28  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1324  
citing authors

#	ARTICLE	IF	CITATIONS
1	Backtracking determines the force sensitivity of RNAP II in a factor-dependent manner. <i>Nature</i> , 2007, 446, 820-823.	27.8	249
2	Catalytic Mechanisms of Restriction and Homing Endonucleases. <i>Biochemistry</i> , 2002, 41, 13851-13860.	2.5	123
3	Double-stranded DNA translocase activity of transcription factor TFIIF and the mechanism of RNA polymerase II open complex formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3961-3966.	7.1	115
4	Structure of a tRNA Repair Enzyme and Molecular Biology Workhorse. <i>Structure</i> , 2002, 10, 1249-1260.	3.3	114
5	Mechanisms of backtrack recovery by RNA polymerases I and II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2946-2951.	7.1	98
6	A novel endonuclease mechanism directly visualized for I-PpoI. <i>Nature Structural Biology</i> , 1999, 6, 1096-1099.	9.7	96
7	The Origin of Short Transcriptional Pauses. <i>Biophysical Journal</i> , 2009, 96, 2189-2193.	0.5	94
8	CarD stabilizes mycobacterial open complexes via a two-tiered kinetic mechanism. <i>Nucleic Acids Research</i> , 2015, 43, 3272-3285.	14.5	62
9	Single molecule transcription elongation. <i>Methods</i> , 2009, 48, 323-332.	3.8	47
10	TFIIF generates a six-base-pair open complex during RNAP II transcription initiation and start-site scanning. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 1139-1145.	8.2	44
11	CarD and RbpA modify the kinetics of initial transcription and slow promoter escape of the <i>Mycobacterium tuberculosis</i> RNA polymerase. <i>Nucleic Acids Research</i> , 2019, 47, 6685-6698.	14.5	42
12	Conformational Changes and Cleavage by the Homing Endonuclease I-PpoI: A Critical Role for a Leucine Residue in the Active Site. <i>Journal of Molecular Biology</i> , 2000, 300, 877-887.	4.2	33
13	CarD integrates three functional modules to promote efficient transcription, antibiotic tolerance, and pathogenesis in mycobacteria. <i>Molecular Microbiology</i> , 2014, 93, 682-697.	2.5	31
14	Cooperative stabilization of <i>Mycobacterium tuberculosis</i> rrnA P3 promoter open complexes by RbpA and CarD. <i>Nucleic Acids Research</i> , 2016, 44, gkw577.	14.5	29
15	CarD contributes to diverse gene expression outcomes throughout the genome of <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13573-13581.	7.1	26
16	Transcription Start Site Scanning and the Requirement for ATP during Transcription Initiation by RNA Polymerase II. <i>Journal of Biological Chemistry</i> , 2016, 291, 13040-13047.	3.4	25
17	The calculation of transcript flux ratios reveals single regulatory mechanisms capable of activation and repression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11604-E11613.	7.1	24
18	Domains within RbpA Serve Specific Functional Roles That Regulate the Expression of Distinct Mycobacterial Gene Subsets. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	16

#	ARTICLE	IF	CITATIONS
19	The Context-Dependent Influence of Promoter Sequence Motifs on Transcription Initiation Kinetics and Regulation. <i>Journal of Bacteriology</i> , 2021, 203, .	2.2	16
20	RNA polymerase pushing. <i>Biophysical Chemistry</i> , 2011, 157, 43-47.	2.8	15
21	Effects of Increasing the Affinity of CarD for RNA Polymerase on <i>Mycobacterium tuberculosis</i> Growth, rRNA Transcription, and Virulence. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	15
22	Time-Resolved Macromolecular Crystallography. <i>Physics Today</i> , 2001, 54, 33-39.	0.3	14
23	Conformational selection and induced fit as a useful framework for molecular motor mechanisms. <i>Biophysical Chemistry</i> , 2017, 223, 11-16.	2.8	14
24	A Kinetic Signature for Parallel Pathways: Conformational Selection and Induced Fit. Links and Disconnects between Observed Relaxation Rates and Fractional Equilibrium Flux under Pseudo-First-Order Conditions. <i>Biochemistry</i> , 2016, 55, 7014-7022.	2.5	13
25	<i>Mycobacterium tuberculosis</i> DNA repair helicase UvrD1 is activated by redox-dependent dimerization via a 2B domain cysteine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	9
26	The Role of XPB/Ssl2 dsDNA Translocase Processivity in Transcription Start-site Scanning. <i>Journal of Molecular Biology</i> , 2021, 433, 166813.	4.2	8
27	His-Cys Box Homing Endonucleases. , 2005, , 85-102.		8
28	Restriction endonucleases: one of these things is not like the others. , 2000, 7, 89-91.		5
29	Single-molecule approach for studying RNAP II transcription initiation using magnetic tweezers. <i>Methods</i> , 2019, 159-160, 35-44.	3.8	5
30	Molecular dissection of RbpA-mediated regulation of fidaxomicin sensitivity in mycobacteria. <i>Journal of Biological Chemistry</i> , 2022, 298, 101752.	3.4	4
31	Dna Denaturation-Supercoiling Transition at Thermophilic Temperatures. <i>Biophysical Journal</i> , 2014, 106, 695a.	0.5	0
32	Parallel path mechanisms lead to nonmonotonic force-velocity curves and an optimum load for molecular motor function. <i>Physical Review E</i> , 2022, 105, 034405.	2.1	0