Eric A Galburt

List of Publications by Year
in descending order

32	1,397	471509 17	501196 28
papers	citations	h-index	g-index

39	39	39	1324
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mycobacterium tuberculosis DNA repair helicase UvrD1 is activated by redox-dependent dimerization via a 2B domain cysteine. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9
2	Parallel path mechanisms lead to nonmonotonic force-velocity curves and an optimum load for molecular motor function. Physical Review E, 2022, 105, 034405.	2.1	0
3	Molecular dissection of RbpA-mediated regulation of fidaxomicin sensitivity in mycobacteria. Journal of Biological Chemistry, 2022, 298, 101752.	3.4	4
4	The Context-Dependent Influence of Promoter Sequence Motifs on Transcription Initiation Kinetics and Regulation. Journal of Bacteriology, 2021, 203, .	2.2	16
5	The Role of XPB/Ssl2 dsDNA Translocase Processivity in Transcription Start-site Scanning. Journal of Molecular Biology, 2021, 433, 166813.	4.2	8
6	CarD contributes to diverse gene expression outcomes throughout the genome of Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13573-13581.	7.1	26
7	CarD and RbpA modify the kinetics of initial transcription and slow promoter escape of the Mycobacterium tuberculosis RNA polymerase. Nucleic Acids Research, 2019, 47, 6685-6698.	14.5	42
8	Single-molecule approach for studying RNAP II transcription initiation using magnetic tweezers. Methods, 2019, 159-160, 35-44.	3.8	5
9	Domains within RbpA Serve Specific Functional Roles That Regulate the Expression of Distinct Mycobacterial Gene Subsets. Journal of Bacteriology, 2018, 200, .	2.2	16
10	The calculation of transcript flux ratios reveals single regulatory mechanisms capable of activation and repression. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11604-E11613.	7.1	24
11	Conformational selection and induced fit as a useful framework for molecular motor mechanisms. Biophysical Chemistry, 2017, 223, 11-16.	2.8	14
12	Effects of Increasing the Affinity of CarD for RNA Polymerase on Mycobacterium tuberculosis Growth, rRNA Transcription, and Virulence. Journal of Bacteriology, 2017, 199, .	2.2	15
13	TFIIH generates a six-base-pair open complex during RNAP II transcription initiation and start-site scanning. Nature Structural and Molecular Biology, 2017, 24, 1139-1145.	8.2	44
14	Transcription Start Site Scanning and the Requirement for ATP during Transcription Initiation by RNA Polymerase II. Journal of Biological Chemistry, 2016, 291, 13040-13047.	3.4	25
15	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. Biochemistry, 2016, 55, 7014-7022.	2.5	13
16	Mechanisms of backtrack recovery by RNA polymerases I and II. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2946-2951.	7.1	98
17	Cooperative stabilization ofMycobacterium tuberculosis rrnAP3 promoter open complexes by RbpA and CarD. Nucleic Acids Research, 2016, 44, gkw577.	14.5	29
18	Double-stranded DNA translocase activity of transcription factor TFIIH and the mechanism of RNA polymerase II open complex formation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3961-3966.	7.1	115

#	Article	IF	Citations
19	CarD stabilizes mycobacterial open complexes via a two-tiered kinetic mechanism. Nucleic Acids Research, 2015, 43, 3272-3285.	14.5	62
20	<scp>CarD</scp> integrates three functional modules to promote efficient transcription, antibiotic tolerance, and pathogenesis in mycobacteria. Molecular Microbiology, 2014, 93, 682-697.	2.5	31
21	Dna Denaturation-Supercoiling Transition at Thermophilic Temperatures. Biophysical Journal, 2014, 106, 695a.	0.5	0
22	RNA polymerase pushing. Biophysical Chemistry, 2011, 157, 43-47.	2.8	15
23	Single molecule transcription elongation. Methods, 2009, 48, 323-332.	3.8	47
24	The Origin of Short Transcriptional Pauses. Biophysical Journal, 2009, 96, 2189-2193.	0.5	94
25	Backtracking determines the force sensitivity of RNAPâ€‰II in a factor-dependent manner. Nature, 2007, 446, 820-823.	27.8	249
26	His-Cys Box Homing Endonucleases. , 2005, , 85-102.		8
27	Catalytic Mechanisms of Restriction and Homing Endonucleases. Biochemistry, 2002, 41, 13851-13860.	2.5	123
28	Structure of a tRNA Repair Enzyme and Molecular Biology Workhorse. Structure, 2002, 10, 1249-1260.	3.3	114
29	Time-Resolved Macromolecular Crystallography. Physics Today, 2001, 54, 33-39.	0.3	14
30	Restriction endonucleases: one of these things is not like the others. , 2000, 7, 89-91.		5
31	Conformational Changes and Cleavage by the Homing Endonuclease I-PpoI: A Critical Role for a Leucine Residue in the Active Site. Journal of Molecular Biology, 2000, 300, 877-887.	4.2	33
32	A novel endonuclease mechanism directly visualized for I-PpoI. Nature Structural Biology, 1999, 6, 1096-1099.	9.7	96