

Michael A Trakselis

List of Publications by Year in descending order

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62
papers

1,938
citations

304743

22
h-index

265206

42
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115
all docs

115
docs citations

115
times ranked

2105
citing authors

#	ARTICLE	IF	CITATIONS
1	Exome sequencing reveals MCM8 mutation underlies ovarian failure and chromosomal instability. <i>Journal of Clinical Investigation</i> , 2015, 125, 258-262.	8.2	178
2	MCM9 Mutations Are Associated with Ovarian Failure, Short Stature, and Chromosomal Instability. <i>American Journal of Human Genetics</i> , 2014, 95, 754-762.	6.2	172
3	Organization of the archaeal MCM complex on DNA and implications for the helicase mechanism. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 756-762.	8.2	160
4	From The Cover: The dynamic processivity of the T4 DNA polymerase during replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8289-8294.	7.1	125
5	Creating a dynamic picture of the sliding clamp during T4 DNA polymerase holoenzyme assembly by using fluorescence resonance energy transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 8368-8375.	7.1	110
6	Identification and Mapping of Protein-Protein Interactions by a Combination of Cross-Linking, Cleavage, and Proteomics. <i>Bioconjugate Chemistry</i> , 2005, 16, 741-750.	3.6	109
7	Crystal Structure of a Transcribing RNA Polymerase II Complex Reveals a Complete Transcription Bubble. <i>Molecular Cell</i> , 2015, 59, 258-269.	9.7	98
8	MCM Forked Substrate Specificity Involves Dynamic Interaction with the 5'-Tail. <i>Journal of Biological Chemistry</i> , 2007, 282, 34229-34234.	3.4	83
9	Steric exclusion and wrapping of the excluded DNA strand occurs along discrete external binding paths during MCM helicase unwinding. <i>Nucleic Acids Research</i> , 2011, 39, 6585-6595.	14.5	65
10	A clamp-like biohybrid catalyst for DNA oxidation. <i>Nature Chemistry</i> , 2013, 5, 945-951.	13.6	64
11	Intricacies in ATP-Dependent Clamp Loading. <i>Structure</i> , 2001, 9, 999-1004.	3.3	51
12	Examination of the Role of the Clamp-loader and ATP Hydrolysis in the Formation of the Bacteriophage T4 Polymerase Holoenzyme. <i>Journal of Molecular Biology</i> , 2003, 326, 435-451.	4.2	46
13	Protein-Protein Interactions in the Bacteriophage T4 Replisome. <i>Journal of Biological Chemistry</i> , 2003, 278, 3145-3152.	3.4	44
14	On the Solution Structure of the T4 Sliding Clamp (gp45). <i>Biochemistry</i> , 2004, 43, 12723-12727.	2.5	42
15	Assembly of the bacteriophage T4 primosome: Single-molecule and ensemble studies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3254-3259.	7.1	42
16	The MCM8/9 complex: A recent recruit to the roster of helicases involved in genome maintenance. <i>DNA Repair</i> , 2019, 76, 1-10.	2.8	40
17	Architecture of the bacteriophage T4 primosome: Electron microscopy studies of helicase (gp41) and primase (gp61). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3623-3626.	7.1	32
18	Structure of Shroom domain 2 reveals a three-segmented coiled-coil required for dimerization, Rock binding, and apical constriction. <i>Molecular Biology of the Cell</i> , 2012, 23, 2131-2142.	2.1	30

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19	Dynamic protein interactions in the bacteriophage T4 replisome. Trends in Biochemical Sciences, 2001, 26, 566-572.	7.5	29
20	Building a Replisome Solution Structure by Elucidation of Protein-Protein Interactions in the Bacteriophage T4 DNA Polymerase Holoenzyme. Journal of Biological Chemistry, 2001, 276, 39340-39349.	3.4	27
21	The Application of a Minicircle Substrate in the Study of the Coordinated T4 DNA Replication. Journal of Biological Chemistry, 2003, 278, 49828-49838.	3.4	27
22	Dissociative Properties of the Proteins within the Bacteriophage T4 Replisome. Journal of Biological Chemistry, 2003, 278, 49839-49849.	3.4	23
23	Structural Mechanisms of Hexameric Helicase Loading, Assembly, and Unwinding. F1000Research, 2016, 5, 111.	1.6	23
24	Kinetics and Fidelity of Polymerization by DNA Polymerase III from <i>Sulfolobus solfataricus</i> . Biochemistry, 2012, 51, 1996-2007.	2.5	21
25	Characterization of a Functional DnaG-Type Primase in Archaea: Implications for a Dual-Primase System. Journal of Molecular Biology, 2010, 397, 664-676.	4.2	20
26	A trimeric DNA polymerase complex increases the native replication processivity. Nucleic Acids Research, 2009, 37, 7194-7205.	14.5	19
27	Assembly and Distributive Action of an Archaeal DNA Polymerase Holoenzyme. Journal of Molecular Biology, 2013, 425, 4820-4836.	4.2	19
28	DNA Interactions Probed by Hydrogen-Deuterium Exchange (HDX) Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Confirm External Binding Sites on the Minichromosomal Maintenance (MCM) Helicase. Journal of Biological Chemistry, 2016, 291, 12467-12480.	3.4	18
29	Differential Temperature-Dependent Multimeric Assemblies of Replication and Repair Polymerases on DNA Increase Processivity. Biochemistry, 2012, 51, 7367-7382.	2.5	17
30	Biochemical Characterization of the Human Mitochondrial Replicative Twinkle Helicase. Journal of Biological Chemistry, 2016, 291, 14324-14339.	3.4	17
31	Structure of a Highly Conserved Domain of Rock1 Required for Shroom-Mediated Regulation of Cell Morphology. PLoS ONE, 2013, 8, e81075.	2.5	16
32	Mechanistic insights into how CMG helicase facilitates replication past DNA roadblocks. DNA Repair, 2017, 55, 76-82.	2.8	15
33	Bacterial DnaB helicase interacts with the excluded strand to regulate unwinding. Journal of Biological Chemistry, 2017, 292, 19001-19012.	3.4	15
34	Contacts and context that regulate DNA helicase unwinding and replisome progression. The Enzymes, 2019, 45, 183-223.	1.7	15
35	Motifs of the C-terminal domain of MCM9 direct localization to sites of mitomycin-C damage for RAD51 recruitment. Journal of Biological Chemistry, 2021, 296, 100355.	3.4	14
36	Characterization of a coupled DNA replication and translesion synthesis polymerase supraholoenzyme from archaea. Nucleic Acids Research, 2017, 45, 8329-8340.	14.5	13

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37	The excluded DNA strand is SEW important for hexameric helicase unwinding. <i>Methods</i> , 2016, 108, 79-91.	3.8	12
38	Novel Interaction of the Bacterial-Like DnaG Primase with the MCM Helicase in Archaea. <i>Journal of Molecular Biology</i> , 2013, 425, 1259-1273.	4.2	11
39	Coordination and Substitution of DNA Polymerases in Response to Genomic Obstacles. <i>Chemical Research in Toxicology</i> , 2017, 30, 1956-1971.	3.3	9
40	Strand Annealing and Terminal Transferase Activities of a B-family DNA Polymerase. <i>Biochemistry</i> , 2011, 50, 5379-5390.	2.5	8
41	Identification, quantification, and evolutionary analysis of a novel isoform of MCM9. <i>Gene</i> , 2013, 519, 41-49.	2.2	8
42	Amidst multiple binding orientations on fork DNA, <i>Saccharolobus</i> MCM helicase proceeds N-first for unwinding. <i>ELife</i> , 2019, 8, .	6.0	7
43	The loader of the rings. <i>Nature</i> , 2004, 429, 708-709.	27.8	6
44	Fine-tuning of the replisome: Mcm10 regulates fork progression and regression. <i>Cell Cycle</i> , 2019, 18, 1047-1055.	2.6	6
45	A hand-off of DNA between archaeal polymerases allows high-fidelity replication to resume at a discrete intermediate three bases past 8-oxoguanine. <i>Nucleic Acids Research</i> , 2020, 48, 10986-10997.	14.5	6
46	Control of Hexamerization, Assembly, and Excluded Strand Specificity for the <i>Sulfolobus solfataricus</i> MCM Helicase. <i>Biochemistry</i> , 2018, 57, 5672-5682.	2.5	4
47	'Screw-cap' clamp loader proteins that thread. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 580-581.	8.2	3
48	Introduction to Nucleic Acid Polymerases: Families, Themes, and Mechanisms. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 1-15.	0.2	3
49	Targeted chromosomal <i>Escherichia coli</i> : dnaB exterior surface residues regulate DNA helicase behavior to maintain genomic stability and organismal fitness. <i>PLoS Genetics</i> , 2021, 17, e1009886.	3.5	3
50	Beyond the Lesion: Back to High Fidelity DNA Synthesis. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 811540.	3.5	3
51	Molecular hurdles cleared with ease. <i>Nature</i> , 2012, 492, 195-197.	27.8	2
52	Synthetic polymers as substrates for a DNA-sliding clamp protein. <i>Biopolymers</i> , 2018, 109, e23119.	2.4	2
53	In vivo fluorescent TUNEL detection of single stranded DNA gaps and breaks induced by dnaB helicase mutants in <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , 2022, , 125-142.	1.0	2
54	A Unifying Framework for Understanding Biological Structures and Functions Across Levels of Biological Organization. <i>Integrative and Comparative Biology</i> , 2021, , .	2.0	1

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55	Archaeal DNA Polymerases: Enzymatic Abilities, Coordination, and Unique Properties. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 139-162.	0.2	1
56	Site-specific DNA Mapping of Protein Binding Orientation Using Azidophenacyl Bromide (APB). <i>Bio-protocol</i> , 2020, 10, e3649.	0.4	1
57	Determining translocation orientations of nucleic acid helicases. <i>Methods</i> , 2022, 204, 160-171.	3.8	1
58	Molecular Contacts and Kinetic Control within the Replisome maintain Coupled DNA Unwinding and Synthesis. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
59	Division of Chemical Toxicology Program at the American Chemical Society National Meeting: Celebrating 25 Years!. <i>Chemical Research in Toxicology</i> , 2021, 34, 2167-2168.	3.3	0
60	An Archaeal Bâ€family DNA Polymerase Exists as a Trimer with Additional Annealing and Terminal Transferase Activities. <i>FASEB Journal</i> , 2011, 25, 880.10.	0.5	0
61	Multisubunit Multiactive Site DNA Polymerase Complexes with Coordinated Activities. <i>FASEB Journal</i> , 2018, 32, 646.1.	0.5	0
62	Tau Mediated Coupling Interactions between Pol III Core DNA Synthesis and DnaB Helicase Unwinding. <i>FASEB Journal</i> , 2022, 36, .	0.5	0