Zvi Kelman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9467052/publications.pdf

Version: 2024-02-01

64 papers	3,649 citations	126907 33 h-index	133252 59 g-index
68 all docs	68 docs citations	68 times ranked	2636 citing authors

#	Article	IF	Citations
1	Structure of the C-Terminal Region of p21WAF1/CIP1 Complexed with Human PCNA. Cell, 1996, 87, 297-306.	28.9	753
2	Clamp loading, unloading and intrinsic stability of the PCNA, Î² and gp45 sliding clamps of human, E. coli and T4 replicases. Genes To Cells, 1996, 1, 101-113.	1.2	207
3	The emerging landscape of single-molecule protein sequencing technologies. Nature Methods, 2021, 18, 604-617.	19.0	198
4	Structural and functional similarities of prokaryotic and eukaryotic DNA polymerase sliding clamps. Nucleic Acids Research, 1995, 23, 3613-3620.	14.5	165
5	Proteinâ€"PCNA interactions: a DNA-scanning mechanism?. Trends in Biochemical Sciences, 1998, 23, 236-238.	7.5	147
6	Archaeal DNA Replication: Eukaryal Proteins in a Bacterial Context. Annual Review of Microbiology, 2003, 57, 487-516.	7.3	136
7	Archaeal DNA replication and repair. Current Opinion in Microbiology, 2005, 8, 669-676.	5.1	134
8	The diverse spectrum of sliding clamp interacting proteins. FEBS Letters, 2003, 546, 167-172.	2.8	95
9	The Methanobacterium thermoautotrophicum MCM protein can form heptameric rings. EMBO Reports, 2002, 3, 792-797.	4.5	89
10	Archaea: an archetype for replication initiation studies?. Molecular Microbiology, 2003, 48, 605-615.	2.5	83
11	The CMG (CDC45/RecJ, MCM, GINS) complex is a conserved component of the DNA replication system in all archaea and eukaryotes. Biology Direct, 2012, 7, 7.	4.6	80
12	Affinity Purification of an Archaeal DNA Replication Protein Network. MBio, 2010, 1, .	4.1	79
13	Archaeal MCM has separable processivity, substrate choice and helicase domains. Nucleic Acids Research, 2007, 35, 988-998.	14.5	75
14	Archaeal DNA Polymerase D but Not DNA Polymerase B Is Required for Genome Replication in Thermococcus kodakarensis. Journal of Bacteriology, 2013, 195, 2322-2328.	2.2	70
15	Unwinding the structure and function of the archaeal MCM helicase. Molecular Microbiology, 2009, 72, 286-296.	2.5	67
16	Structural Polymorphism of Methanothermobacter thermautotrophicus MCM. Journal of Molecular Biology, 2005, 346, 389-394.	4.2	66
17	Substrate Requirements for Duplex DNA Translocation by the Eukaryal and Archaeal Minichromosome Maintenance Helicases. Journal of Biological Chemistry, 2003, 278, 49053-49062.	3.4	64
18	A Unique Organization of the Protein Subunits of the DNA Polymerase Clamp Loader in the Archaeon Methanobacterium thermoautotrophicum Î"H. Journal of Biological Chemistry, 2000, 275, 7327-7336.	3.4	61

#	Article	IF	Citations
19	The Zinc Finger Domain of the Archaeal Minichromosome Maintenance Protein Is Required for Helicase Activity. Journal of Biological Chemistry, 2001, 276, 49371-49377.	3.4	59
20	Regulation of Minichromosome Maintenance Helicase Activity by Cdc6. Journal of Biological Chemistry, 2003, 278, 38059-38067.	3.4	57
21	Biochemical Characterization of the Methanothermobacter thermautotrophicus Minichromosome Maintenance (MCM) Helicase N-terminal Domains. Journal of Biological Chemistry, 2004, 279, 28358-28366.	3.4	55
22	Archaeal DNA Replication. Annual Review of Genetics, 2014, 48, 71-97.	7.6	55
23	The Influence of the Proliferating Cell Nuclear Antigen-interacting Domain of p21 on DNA Synthesis Catalyzed by the Human and Saccharomyces cerevisiae Polymerase Î´ Holoenzymes. Journal of Biological Chemistry, 1997, 272, 2373-2381.	3.4	52
24	Strategies for Development of a Next-Generation Protein Sequencing Platform. Trends in Biochemical Sciences, 2020, 45, 76-89.	7.5	49
25	Neutron scattering in the biological sciences: progress and prospects. Acta Crystallographica Section D: Structural Biology, 2018, 74, 1129-1168.	2.3	47
26	Multiple origins of replication in archaea. Trends in Microbiology, 2004, 12, 399-401.	7.7	43
27	The Replicative Helicases of Bacteria, Archaea, and Eukarya Can Unwind RNA-DNA Hybrid Substrates. Journal of Biological Chemistry, 2006, 281, 26914-26921.	3.4	42
28	Coupling of DNA binding and helicase activity is mediated by a conserved loop in the MCM protein. Nucleic Acids Research, 2008, 36, 1309-1320.	14.5	42
29	Cryo-electron microscopy reveals a novel DNA-binding site on the MCM helicase. EMBO Journal, 2008, 27, 2250-2258.	7.8	41
30	Thermococcus kodakarensis encodes three MCM homologs but only one is essential. Nucleic Acids Research, 2011, 39, 9671-9680.	14.5	40
31	The archaeal PCNA proteins. Biochemical Society Transactions, 2011, 39, 20-24.	3.4	38
32	DNA Sliding Clamps as Therapeutic Targets. Frontiers in Molecular Biosciences, 2018, 5, 87.	3.5	37
33	Stimulation of MCM helicase activity by a Cdc6 protein in the archaeon Thermoplasma acidophilum. Nucleic Acids Research, 2006, 34, 6337-6344.	14.5	33
34	Characterization of DNA Primase Complex Isolated from the Archaeon, Thermococcus kodakaraensis. Journal of Biological Chemistry, 2012, 287, 16209-16219.	3.4	31
35	Crystal structures of two active proliferating cell nuclear antigens (PCNAs) encoded by <i>Thermococcus kodakaraensis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2711-2716.	7.1	29
36	Structural lessons in DNA replication from the third domain of life. Nature Structural and Molecular Biology, 2003, 10, 148-150.	8.2	27

#	Article	IF	Citations
37	Genome Replication in Thermococcus kodakarensis Independent of Cdc6 and an Origin of Replication. Frontiers in Microbiology, 2017, 8, 2084.	3.5	24
38	The replication origin of archaea is finally revealed. Trends in Biochemical Sciences, 2000, 25, 521-523.	7.5	23
39	The Methanothermobacter thermautotrophicus MCM Helicase Is Active as a Hexameric Ring. Journal of Biological Chemistry, 2009, 284, 540-546.	3.4	23
40	DNA polymerases in biotechnology. Frontiers in Microbiology, 2014, 5, 659.	3.5	20
41	Archaeal DNA replication and repair: new genetic, biophysical and molecular tools for discovering and characterizing enzymes, pathways and mechanisms. FEMS Microbiology Reviews, 2018, 42, 477-488.	8.6	19
42	Archaeal Minichromosome Maintenance (MCM) Helicase Can Unwind DNA Bound by Archaeal Histones and Transcription Factors. Journal of Biological Chemistry, 2007, 282, 4908-4915.	3.4	18
43	The GAN Exonuclease or the Flap Endonuclease Fen1 and RNase HII Are Necessary for Viability of Thermococcus kodakarensis. Journal of Bacteriology, 2017, 199, .	2.2	18
44	Engineering ClpS for selective and enhanced N-terminal amino acid binding. Applied Microbiology and Biotechnology, 2019, 103, 2621-2633.	3.6	16
45	Thermococcus kodakarensis has two functional PCNA homologs but only one is required for viability. Extremophiles, 2013, 17, 453-461.	2.3	13
46	A novel mechanism for regulating the activity of proliferating cell nuclear antigen by a small protein. Nucleic Acids Research, 2014, 42, 5776-5789.	14.5	13
47	The Methanothermobacter thermautotrophicus Cdc6-2 Protein, the Putative Helicase Loader, Dissociates the Minichromosome Maintenance Helicase. Journal of Bacteriology, 2008, 190, 4091-4094.	2.2	12
48	Protein Labeling in Escherichia coli with 2H, 13C, and 15N. Methods in Enzymology, 2015, 565, 27-44.	1.0	11
49	A small protein inhibits proliferating cell nuclear antigen by breaking the DNA clamp. Nucleic Acids Research, 2016, 44, 6232-6241.	14.5	11
50	How is the archaeal MCM helicase assembled at the origin? Possible mechanisms. Biochemical Society Transactions, 2009, 37, 7-11.	3.4	10
51	High-temperature single-molecule kinetic analysis of thermophilic archaeal MCM helicases. Nucleic Acids Research, 2016, 44, 8764-8771.	14.5	9
52	Unwinding 20 Years of the Archaeal Minichromosome Maintenance Helicase. Journal of Bacteriology, 2020, 202, .	2.2	9
53	The solution structure of full-length dodecameric MCM by SANS and molecular modeling. Proteins: Structure, Function and Bioinformatics, 2014, 82, 2364-2374.	2.6	8
54	Platform development for expression and purification of stable isotope labeled monoclonal antibodies in<i>Escherichia coli</i>. MAbs, 2018, 10, 1-11.	5.2	8

#	Article	IF	Citations
55	Characterization of the internal translation initiation region in monoclonal antibodies expressed in Escherichia coli. Journal of Biological Chemistry, 2019, 294, 18046-18056.	3.4	8
56	A ClpS-based N-terminal amino acid binding reagent with improved thermostability and selectivity. Biochemical Engineering Journal, 2020, 154, 107438.	3.6	5
57	Leveraging natureâ€™s biomolecular designs in next-generation protein sequencing reagent development. Applied Microbiology and Biotechnology, 2020, 104, 7261-7271.	3.6	5
58	Do Archaea Need an Origin of Replication?. Trends in Microbiology, 2018, 26, 172-174.	7.7	4
59	Heterologous recombinant expression of non-originator NISTmAb. MAbs, 2018, 10, 922-933.	5.2	4
60	Isotopic Labeling of Proteins in Halobacterium salinarum. Methods in Enzymology, 2015, 565, 147-165.	1.0	3
61	Creation and filtering of a recurrent spectral library of CHO cell metabolites and media components. Biotechnology and Bioengineering, 2021, 118, 1491-1510.	3.3	2
62	Mutations of TCN1 Cause Transcobalamin I Deficiency with Low Serum Cobalamin Levels That Are Indistinguishable From Cobalamin Deficiency.. Blood, 2009, 114, 1989-1989.	1.4	2
63	Preface. Methods in Enzymology, 2021, 659, xix-xxiii.	1.0	0
64	Preface. Methods in Enzymology, 2021, 660, xvii-xxii.	1.0	0