

# Panos Soultanas

## List of Publications by Year in descending order

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69  
papers

3,054  
citations

218592

26  
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175177

52  
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76  
all docs

76  
docs citations

76  
times ranked

1992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structures of Complexes of PcrA DNA Helicase with a DNA Substrate Indicate an Inchworm Mechanism. <i>Cell</i> , 1999, 97, 75-84.	13.5	756
2	Co-directional replication and transcription conflicts lead to replication restart. <i>Nature</i> , 2011, 470, 554-557.	13.7	162
3	Uncoupling DNA translocation and helicase activity in PcrA: direct evidence for an active mechanism. <i>EMBO Journal</i> , 2000, 19, 3799-3810.	3.5	141
4	Unwinding the "Gordian knot" of helicase action. <i>Trends in Biochemical Sciences</i> , 2001, 26, 47-54.	3.7	112
5	DNA binding mediates conformational changes and metal ion coordination in the active site of PcrA helicase 1 Edited by A. R. Fersht. <i>Journal of Molecular Biology</i> , 1999, 290, 137-148.	2.0	110
6	Mapping Protein-Protein Interactions within a Stable Complex of DNA Primase and DnaB Helicase from <i>Bacillus stearothermophilus</i> . <i>Biochemistry</i> , 2000, 39, 171-182.	1.2	103
7	DNA helicases: "inching forward". <i>Current Opinion in Structural Biology</i> , 2000, 10, 124-128.	2.6	102
8	Defining the roles of individual residues in the single-stranded DNA binding site of PcrA helicase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 8381-8387.	3.3	95
9	Site-directed mutagenesis of motif III in PcrA helicase reveals a role in coupling ATP hydrolysis to strand separation. <i>Nucleic Acids Research</i> , 1999, 27, 3310-3317.	6.5	89
10	Plasmid replication initiator protein RepD increases the processivity of PcrA DNA helicase. <i>Nucleic Acids Research</i> , 1999, 27, 1421-1428.	6.5	70
11	Synapsis and DNA cleavage in $\lambda$ C31 integrase-mediated site-specific recombination. <i>Nucleic Acids Research</i> , 2004, 32, 2607-2617.	6.5	68
12	Chromosomal Replication Initiation Machinery of Low-G+C-Content Firmicutes. <i>Journal of Bacteriology</i> , 2012, 194, 5162-5170.	1.0	65
13	Loading mechanisms of ring helicases at replication origins. <i>Molecular Microbiology</i> , 2012, 84, 6-16.	1.2	61
14	The <i>Bacillus subtilis</i> DnaD and DnaB Proteins Exhibit Different DNA Remodelling Activities. <i>Journal of Molecular Biology</i> , 2005, 351, 66-75.	2.0	60
15	Helicase binding to DnaI exposes a cryptic DNA-binding site during helicase loading in <i>Bacillus subtilis</i> . <i>Nucleic Acids Research</i> , 2006, 34, 5247-5258.	6.5	50
16	Directional Loading and Stimulation of PcrA Helicase by the Replication Initiator Protein RepD. <i>Journal of Molecular Biology</i> , 2007, 371, 336-348.	2.0	47
17	Solution Structure of the Helicase-Interaction Domain of the Primase DnaG. <i>Structure</i> , 2005, 13, 609-616.	1.6	45
18	A functional interaction between the putative primosomal protein DnaI and the main replicative DNA helicase DnaB in <i>Bacillus</i> . <i>Nucleic Acids Research</i> , 2002, 30, 966-974.	6.5	42

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19	The Bacterial Helicase-Primase Interaction: A Common Structural/Functional Module. <i>Structure</i> , 2005, 13, 839-844.	1.6	40
20	Single-Molecule Atomic Force Spectroscopy Reveals that DnaD Forms Scaffolds and Enhances Duplex Melting. <i>Journal of Molecular Biology</i> , 2008, 377, 706-714.	2.0	39
21	DnaG interacts with a linker region that joins the N- and C-domains of DnaB and induces the formation of 3-fold symmetric rings. <i>Nucleic Acids Research</i> , 2004, 32, 2977-2986.	6.5	38
22	SilE is an intrinsically disordered periplasmic $\alpha$ -molecular sponge $\alpha$ involved in bacterial silver resistance. <i>Molecular Microbiology</i> , 2016, 101, 731-742.	1.2	38
23	The <i>Bacillus subtilis</i> Primosomal Protein DnaD Untwists Supercoiled DNA. <i>Journal of Bacteriology</i> , 2006, 188, 5487-5493.	1.0	37
24	Functional interplay of DnaE polymerase, DnaG primase and DnaC helicase within a ternary complex, and primase to polymerase hand-off during lagging strand DNA replication in <i>Bacillus subtilis</i> . <i>Nucleic Acids Research</i> , 2013, 41, 5303-5320.	6.5	34
25	The DNA-remodelling activity of DnaD is the sum of oligomerization and DNA-binding activities on separate domains. <i>Molecular Microbiology</i> , 2006, 60, 917-924.	1.2	33
26	Site-directed mutagenesis reveals roles for conserved amino acid residues in the hexameric DNA helicase DnaB from <i>Bacillus stearothermophilus</i> . <i>Nucleic Acids Research</i> , 2002, 30, 4051-4060.	6.5	31
27	In the <i>Bacillus stearothermophilus</i> DnaB-DnaG Complex, the Activities of the Two Proteins Are Modulated by Distinct but Overlapping Networks of Residues. <i>Journal of Bacteriology</i> , 2006, 188, 1534-1539.	1.0	29
28	The <i>Bacillus subtilis</i> DnaD protein: a putative link between DNA remodeling and initiation of DNA replication. <i>FEBS Letters</i> , 2004, 577, 460-464.	1.3	26
29	The Clamp-loader $\alpha$ Helicase Interaction in <i>Bacillus</i> . Atomic Force Microscopy Reveals the Structural Organisation of the DnaB $\alpha$ Complex in <i>Bacillus</i> . <i>Journal of Molecular Biology</i> , 2004, 336, 381-393.	2.0	26
30	Structure of the N-Terminal Oligomerization Domain of DnaD Reveals a Unique Tetramerization Motif and Provides Insights into Scaffold Formation. <i>Journal of Molecular Biology</i> , 2008, 376, 1237-1250.	2.0	26
31	When simple sequence comparison fails: the cryptic case of the shared domains of the bacterial replication initiation proteins DnaB and DnaD. <i>Nucleic Acids Research</i> , 2010, 38, 6930-6942.	6.5	26
32	Interactions of the <i>Bacillus subtilis</i> DnaE polymerase with replisomal proteins modulate its activity and fidelity. <i>Open Biology</i> , 2017, 7, 170146.	1.5	23
33	<i>Escherichia coli</i> ribosomal protein L3 stimulates the helicase activity of the <i>Bacillus stearothermophilus</i> PcrA helicase. <i>Nucleic Acids Research</i> , 1998, 26, 2374-2379.	6.5	22
34	RPA alleviates the inhibitory effect of vinylphosphonate internucleotide linkages on DNA unwinding by BLM and WRN helicases. <i>Nucleic Acids Research</i> , 2004, 32, 3771-3778.	6.5	22
35	Vinylphosphonate Internucleotide Linkages Inhibit the Activity of PcrA DNA Helicase. <i>Biochemistry</i> , 2002, 41, 7725-7731.	1.2	21
36	Site-specific Recombination at <i>res</i> Sites Containing DNA-binding Sequences for both Tn21 and Tn3 Resolvases. <i>Journal of Molecular Biology</i> , 1995, 245, 208-218.	2.0	20

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37	The beta-propeller protein YxaI increases the processivity of the PcrA helicase. <i>Molecular Genetics and Genomics</i> , 2002, 267, 391-400.	1.0	20
38	TYPLEX <sup>®</sup> Chelate, a novel feed additive, inhibits <i>Campylobacter jejuni</i> biofilm formation and cecal colonization in broiler chickens. <i>Poultry Science</i> , 2018, 97, 1391-1399.	1.5	20
39	Untwisting of the DNA helix stimulates the endonuclease activity of <i>Bacillus subtilis</i> Nth at AP sites. <i>Nucleic Acids Research</i> , 2012, 40, 739-750.	6.5	17
40	DNA replication initiation in <i>Bacillus subtilis</i> : structural and functional characterization of the essential DnaA-DnaD interaction. <i>Nucleic Acids Research</i> , 2019, 47, 2101-2112.	6.5	17
41	Conserved residues of the C-terminal p16 domain of primase are involved in modulating the activity of the bacterial primosome. <i>Molecular Microbiology</i> , 2008, 68, 360-371.	1.2	16
42	Class-specific restrictions define primase interactions with DNA template and replicative helicase. <i>Nucleic Acids Research</i> , 2010, 38, 7167-7178.	6.5	16
43	DNA binding and unwinding by Hel308 helicase requires dual functions of a winged helix domain. <i>DNA Repair</i> , 2017, 57, 125-132.	1.3	16
44	Domain swapping reveals that the C- and N-terminal domains of DnaG and DnaB, respectively, are functional homologues. <i>Molecular Microbiology</i> , 2007, 63, 1629-1639.	1.2	15
45	DnaB proteolysis in vivo regulates oligomerization and its localization at oriC in <i>Bacillus subtilis</i> . <i>Nucleic Acids Research</i> , 2010, 38, 2851-2864.	6.5	15
46	Evaluation of in-field efficacy of dietary ferric tyrosine on performance, intestinal health and meat quality of broiler chickens exposed to natural <i>Campylobacter jejuni</i> challenge. <i>Livestock Science</i> , 2019, 221, 44-51.	0.6	15
47	The replication-transcription conflict. <i>Transcription</i> , 2011, 2, 140-144.	1.7	14
48	Primase is required for helicase activity and helicase alters the specificity of primase in the enteropathogen <i>Clostridium difficile</i> . <i>Open Biology</i> , 2016, 6, 160272.	1.5	14
49	RepD-mediated recruitment of PcrA helicase at the <i>Staphylococcus aureus</i> pC221 plasmid replication origin, oriD. <i>Nucleic Acids Research</i> , 2010, 38, 1874-1888.	6.5	13
50	Effects of Vinylphosphonate Internucleotide Linkages on the Cleavage Specificity of Exonuclease III and on the Activity of DNA Polymerase $\beta$ . <i>Biochemistry</i> , 2003, 42, 3239-3246.	1.2	12
51	Autoregulation of the <i>Escherichia coli</i> melR promoter: repression involves four molecules of MelR. <i>Nucleic Acids Research</i> , 2008, 36, 2667-2676.	6.5	12
52	Insights into the structure and assembly of the <i>Bacillus subtilis</i> clamp-loader complex and its interaction with the replicative helicase. <i>Nucleic Acids Research</i> , 2013, 41, 5115-5126.	6.5	12
53	Defining the Intrinsically Disordered C-Terminal Domain of SSB Reveals DNA-Mediated Compaction. <i>Journal of Molecular Biology</i> , 2016, 428, 357-364.	2.0	12
54	Molecular dynamics simulations of a helicase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 52, 254-262.	1.5	11

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55	The HelQ human DNA repair helicase utilizes a PWI-like domain for DNA loading through interaction with RPA, triggering DNA unwinding by the HelQ helicase core. <i>NAR Cancer</i> , 2021, 3, zcaa043.	1.6	11
56	Clamp~Loader~Helicase Interaction in Bacillus. Leucine 381 Is Critical for Pentamerization and Helicase Binding of the Bacillus $\lambda$ , Protein. <i>Biochemistry</i> , 2003, 42, 10955-10964.	1.2	8
57	Discovery of Antagonist Peptides against Bacterial Helicase-Primase Interaction in <i>B. stearothermophilus</i> by Reverse Yeast Three-Hybrid. <i>Chemistry and Biology</i> , 2005, 12, 595-604.	6.2	8
58	Allosteric regulation of the primase (DnaG) activity by the clamp~loader ( $\lambda$ ,) <i>in vitro</i> . <i>Molecular Microbiology</i> , 2009, 72, 537-549.	1.2	8
59	Remodeling and Control of Homologous Recombination by DNA Helicases and Translocases that Target Recombinases and Synapsis. <i>Genes</i> , 2016, 7, 52.	1.0	8
60	Pyruvate kinase, a metabolic sensor powering glycolysis, drives the metabolic control of DNA replication. <i>BMC Biology</i> , 2022, 20, 87.	1.7	8
61	Site-specific recombination at sites containing DNA-binding sequences for both Tn21 Resolvase and CAP. <i>Journal of Molecular Biology</i> , 1995, 245, 219-227.	2.0	7
62	Engineering a reagentless biosensor for single-stranded DNA to measure real-time helicase activity in <i>Bacillus</i> . <i>Biosensors and Bioelectronics</i> , 2014, 61, 579-586.	5.3	6
63	Dietary supplementation with ferric tyrosine improves zootechnical performance and reduces caecal <i>Campylobacter</i> spp. load in broilers. <i>British Poultry Science</i> , 2018, 59, 646-653.	0.8	5
64	Crystallization and X-ray diffraction analysis of the DNA-remodelling protein DnaD from <i>Bacillus subtilis</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 110-113.	0.7	4
65	Modulation of human DNA methyltransferase activity and mRNA levels in the monoblast cell line U937 induced to differentiate with dibutyryl cyclic AMP and phorbol ester. <i>Journal of Molecular Endocrinology</i> , 1993, 11, 191-200.	1.1	3
66	Helicase and Primase Interactions with Replisome Components and Accessory Factors. , 2014, , 1-7.		1
67	Replicative DNA Helicases and Primases. , 2014, , 1-9.		0
68	Replicative DNA Helicases and Primases. , 2018, , 1062-1069.		0
69	Helicase and Primase Interactions with Replisome Components and Accessory Factors. , 2018, , 510-515.		0