Xu-Guang Xi

List of Publications by Year
in descending order

54 papers	2,781 citations	331670 21 h-index	175258 52 g-index
55 all docs	55 docs citations	55 times ranked	3048 citing authors

#	Article	IF	Citations
1	Movement of Bax from the Cytosol to Mitochondria during Apoptosis. Journal of Cell Biology, 1997, 139, 1281-1292.	5.2	1,667
2	Direct Measurement of Sequential Folding Pathway and Energy Landscape of Human Telomeric G-quadruplex Structures. Journal of the American Chemical Society, 2013, 135, 6423-6426.	13.7	93
3	BLM unfolds G-quadruplexes in different structural environments through different mechanisms. Nucleic Acids Research, 2015, 43, 4614-4626.	14.5	75
4	Involvement of G-triplex and G-hairpin in the multi-pathway folding of human telomeric G-quadruplex. Nucleic Acids Research, 2017, 45, 11401-11412.	14.5	67
5	Molecular mechanism of G-quadruplex unwinding helicase: sequential and repetitive unfolding of G-quadruplex by Pif1 helicase. Biochemical Journal, 2015, 466, 189-199.	3.7	64
6	G-quadruplex DNA: a novel target for drug design. Cellular and Molecular Life Sciences, 2021, 78, 6557-6583.	5.4	57
7	Analysis of p16 Gene Mutation, Deletion and Methylation in Patients with Arseniasis Produced by Indoor Unventilated-Stove Coal Usage in Guizhou, China. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 970-975.	2.3	44
8	G-quadruplexes Significantly Stimulate Pif1 Helicase-catalyzed Duplex DNA Unwinding. Journal of Biological Chemistry, 2015, 290, 7722-7735.	3.4	44
9	Insights into the structural and mechanistic basis of multifunctional S. cerevisiae Pif1p helicase. Nucleic Acids Research, 2018, 46, 1486-1500.	14.5	43
10	Molecular Mechanistic Insights into Drosophila DHX36-Mediated G-Quadruplex Unfolding: A Structure-Based Model. Structure, 2018, 26, 403-415.e4.	3.3	35
11	Unwinding forward and sliding back: an intermittent unwinding mode of the BLM helicase. Nucleic Acids Research, 2015, 43, 3736-3746.	14.5	33
12	Effects of monovalent cations on folding kinetics of G-quadruplexes. Bioscience Reports, 2017, 37, .	2.4	32
13	Nsp1 proteins of group I and SARS coronaviruses share structural and functional similarities. Infection, Genetics and Evolution, 2010, 10, 919-924.	2.3	31
14	TheBacteroides sp. 3_1_23Pif1 protein is a multifunctional helicase. Nucleic Acids Research, 2015, 43, 8942-8954.	14.5	31
15	Human RPA activates BLMâ€™s bidirectional DNA unwinding from a nick. ELife, 2020, 9, .	6.0	30
16	Intramolecular Transmission of the ATP Regulatory Signal inEscherichia coliAspartate Transcarbamylase; Specific Involvement of a Clustered Set of Amino Amino Acid Interactions at an Interface Between Regulatory and Catalytic Subunits. Journal of Molecular Biology, 1995, 246, 132-143.	4.2	29
17	The post-PAM interaction of RNA-guided spCas9 with DNA dictates its target binding and dissociation. Science Advances, 2019, 5, eaaw9807.	10.3	29
18	Single-molecule studies reveal reciprocating of WRN helicase core along ssDNA during DNA unwinding. Scientific Reports, 2017, 7, 43954.	3.3	28

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19	DNA-unwinding activity of Saccharomyces cerevisiae Pif1 is modulated by thermal stability, folding conformation, and loop lengths of G-quadruplex DNA. Journal of Biological Chemistry, 2018, 293, 18504-18513.	3.4	27
20	Crystal structures of the BsPif1 helicase reveal that a major movement of the 2B SH3 domain is required for DNA unwinding. Nucleic Acids Research, 2016, 44, 2949-2961.	14.5	25
21	Human replication protein A induces dynamic changes in single-stranded DNA and RNA structures. Journal of Biological Chemistry, 2019, 294, 13915-13927.	3.4	24
22	Structural analysis reveals a â€œmolecular calipersâ€•mechanism for a LATERAL ORGAN BOUNDARIES DOMAIN transcription factor protein from wheat. Journal of Biological Chemistry, 2019, 294, 142-156.	3.4	21
23	Dynamics of Staphylococcus aureus Cas9 in <scp>DNA</scp> target Association and Dissociation. EMBO Reports, 2020, 21, e50184.	4.5	20
24	G-quadruplex and G-rich sequence stimulate Pif1p-catalyzed downstream duplex DNA unwinding through reducing waiting time at ss/dsDNA junction. Nucleic Acids Research, 2016, 44, 8385-8394.	14.5	19
25	Multiple Escherichia coli RecQ Helicase Monomers Cooperate to Unwind Long DNA Substrates. Journal of Biological Chemistry, 2010, 285, 6922-6936.	3.4	18
26	Escherichia coli <scp>DNA</scp> polymerase I can disrupt Gâ€quadruplex structures during <scp>DNA</scp> replication. FEBS Journal, 2017, 284, 4051-4065.	4.7	17
27	Folding Dynamics of Parallel and Antiparallel G-Triplexes under the Influence of Proximal DNA. Journal of Physical Chemistry B, 2018, 122, 9499-9506.	2.6	16
28	Structural and functional studies of SF1B Pif1 from Thermus oshimai reveal dimerization-induced helicase inhibition. Nucleic Acids Research, 2021, 49, 4129-4143.	14.5	15
29	A helical bundle in the N-terminal domain of the BLM helicase mediates dimer and potentially hexamer formation. Journal of Biological Chemistry, 2017, 292, 5909-5920.	3.4	14
30	Replication protein A plays multifaceted roles complementary to specialized helicases in processing G-quadruplex DNA. IScience, 2021, 24, 102493.	4.1	13
31	The HRDC domain oppositely modulates the unwinding activity of E. coli RecQ helicase on duplex DNA and G-quadruplex. Journal of Biological Chemistry, 2020, 295, 17646-17658.	3.4	12
32	Endogenous Bos taurus RECQL is predominantly monomeric and more active than oligomers. Cell Reports, 2021, 36, 109688.	6.4	11
33	Mechanistic insight into cadmium-induced inactivation of the Bloom protein. Scientific Reports, 2016, 6, 26225.	3.3	10
34	Folding Kinetics of Single Human Telomeric G-Quadruplex Affected by Cisplatin. ACS Omega, 2016, 1, 244-250.	3.5	10
35	DDX43 prefers single strand substrate and its full binding activity requires physical connection of all domains. Biochemical and Biophysical Research Communications, 2019, 520, 594-599.	2.1	8
36	Purification and enzymatic characterization of Gallus gallus BLM helicase. Journal of Biochemistry, 2017, 162, 183-191.	1.7	7

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37	Crystal structures of N-terminally truncated telomerase reverse transcriptase from fungi. Nucleic Acids Research, 2021, 49, 4768-4781.	14.5	7
38	The convergence of head-on DNA unwinding forks induces helicase oligomerization and activity transition. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	7
39	Characterization of Biochemical Properties of Bacillus subtilis RecQ Helicase. Journal of Bacteriology, 2014, 196, 4216-4228.	2.2	6
40	Remodeling the conformational dynamics ofÂI-motif DNA by helicases in ATP-independent mode at acidic environment. IScience, 2022, 25, 103575.	4.1	6
41	Crystal structure of Escherichiaâ€‚coli DEAH/RHA helicase HrpB. Biochemical and Biophysical Research Communications, 2018, 504, 334-339.	2.1	5
42	The N-terminal of NBPF15 causes multiple types of aggregates and mediates phase transition. Biochemical Journal, 2020, 477, 445-458.	3.7	5
43	Asynchrony of Base-Pair Breaking and Nucleotide Releasing of Helicases in DNA Unwinding. Journal of Physical Chemistry B, 2018, 122, 5790-5796.	2.6	4
44	Quantitative and real-time measurement of helicase-mediated intra-stranded G4 unfolding in bulk fluorescence stopped-flow assays. Analytical and Bioanalytical Chemistry, 2020, 412, 7395-7404.	3.7	4
45	Characterization of the Antiviral Activity for Influenza Viruses M1 Zinc Finger Peptides. Current Microbiology, 2011, 62, 126-132.	2.2	3
46	A 3â€²-5â€² exonuclease activity embedded in the helicase core domain of Candida albicans Pif1 helicase. Scientific Reports, 2017, 7, 42865.	3.3	3
47	Interaction between human telomeric G-quadruplexes characterized by single molecule magnetic tweezers. Chinese Physics B, 2018, 27, 068701.	1.4	3
48	A Toolbox for Site-Specific Labeling of RecQ Helicase With a Single Fluorophore Used in the Single-Molecule Assay. Frontiers in Molecular Biosciences, 2020, 7, 586450.	3.5	3
49	Iterative homology checking and non-uniform stepping during RecA-mediated strand exchange. Biochemical and Biophysical Research Communications, 2016, 478, 1153-1157.	2.1	2
50	Structural study of the function of Candida Albicans Pif1. Biochemical and Biophysical Research Communications, 2021, 567, 190-194.	2.1	2
51	Helicase activity and substrate specificity of RecQ5 Î². Chinese Physics B, 2017, 26, 068701.	1.4	1
52	Macromolecular aging: ATP hydrolysis-driven functional and structural changes in Escherichia coli RecQ helicase. Biochemical and Biophysical Research Communications, 2021, 542, 29-33.	2.1	1
53	Construction, expression, and characterization of AG11â€“843 and AG11â€“1581. Data in Brief, 2018, 20, 805-811.	1.0	0
54	Construction, expression, and characterization of AG11â˜’843 and AG11â˜’1581. Protein Expression and Purification, 2018, 152, 71-76.	1.3	0