

# Xu-Guang Xi

## List of Publications by Year in descending order

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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	Remodeling the conformational dynamics of $\hat{A}$ -motif DNA by helicases in ATP-independent mode at acidic environment. <i>IScience</i> , 2022, 25, 103575.	4.1	6
2	The convergence of head-on DNA unwinding forks induces helicase oligomerization and activity transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	7
3	Macromolecular aging: ATP hydrolysis-driven functional and structural changes in <i>Escherichia coli</i> RecQ helicase. <i>Biochemical and Biophysical Research Communications</i> , 2021, 542, 29-33.	2.1	1
4	Structural and functional studies of SF1B Pif1 from <i>Thermus oshimai</i> reveal dimerization-induced helicase inhibition. <i>Nucleic Acids Research</i> , 2021, 49, 4129-4143.	14.5	15
5	Crystal structures of N-terminally truncated telomerase reverse transcriptase from fungi. <i>Nucleic Acids Research</i> , 2021, 49, 4768-4781.	14.5	7
6	Replication protein A plays multifaceted roles complementary to specialized helicases in processing G-quadruplex DNA. <i>IScience</i> , 2021, 24, 102493.	4.1	13
7	G-quadruplex DNA: a novel target for drug design. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 6557-6583.	5.4	57
8	Structural study of the function of <i>Candida Albicans</i> Pif1. <i>Biochemical and Biophysical Research Communications</i> , 2021, 567, 190-194.	2.1	2
9	Endogenous <i>Bos taurus</i> RECQL is predominantly monomeric and more active than oligomers. <i>Cell Reports</i> , 2021, 36, 109688.	6.4	11
10	The HRDC domain oppositely modulates the unwinding activity of <i>E. coli</i> RecQ helicase on duplex DNA and G-quadruplex. <i>Journal of Biological Chemistry</i> , 2020, 295, 17646-17658.	3.4	12
11	Quantitative and real-time measurement of helicase-mediated intra-stranded G4 unfolding in bulk fluorescence stopped-flow assays. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7395-7404.	3.7	4
12	A Toolbox for Site-Specific Labeling of RecQ Helicase With a Single Fluorophore Used in the Single-Molecule Assay. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 586450.	3.5	3
13	The N-terminal of NBPF15 causes multiple types of aggregates and mediates phase transition. <i>Biochemical Journal</i> , 2020, 477, 445-458.	3.7	5
14	Dynamics of <i>Staphylococcus aureus</i> Cas9 in <i>DNA</i> target Association and Dissociation. <i>EMBO Reports</i> , 2020, 21, e50184.	4.5	20
15	Human RPA activates BLM's bidirectional DNA unwinding from a nick. <i>ELife</i> , 2020, 9, .	6.0	30
16	Human replication protein A induces dynamic changes in single-stranded DNA and RNA structures. <i>Journal of Biological Chemistry</i> , 2019, 294, 13915-13927.	3.4	24
17	DDX43 prefers single strand substrate and its full binding activity requires physical connection of all domains. <i>Biochemical and Biophysical Research Communications</i> , 2019, 520, 594-599.	2.1	8
18	The post-PAM interaction of RNA-guided spCas9 with DNA dictates its target binding and dissociation. <i>Science Advances</i> , 2019, 5, eaaw9807.	10.3	29

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19	Structural analysis reveals a "molecular calipers" mechanism for a LATERAL ORGAN BOUNDARIES DOMAIN transcription factor protein from wheat. <i>Journal of Biological Chemistry</i> , 2019, 294, 142-156.	3.4	21
20	Molecular Mechanistic Insights into Drosophila DHX36-Mediated G-Quadruplex Unfolding: A Structure-Based Model. <i>Structure</i> , 2018, 26, 403-415.e4.	3.3	35
21	Insights into the structural and mechanistic basis of multifunctional <i>S. cerevisiae</i> Pif1p helicase. <i>Nucleic Acids Research</i> , 2018, 46, 1486-1500.	14.5	43
22	Folding Dynamics of Parallel and Antiparallel G-Triplexes under the Influence of Proximal DNA. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9499-9506.	2.6	16
23	Interaction between human telomeric G-quadruplexes characterized by single molecule magnetic tweezers. <i>Chinese Physics B</i> , 2018, 27, 068701.	1.4	3
24	DNA-unwinding activity of <i>Saccharomyces cerevisiae</i> Pif1 is modulated by thermal stability, folding conformation, and loop lengths of G-quadruplex DNA. <i>Journal of Biological Chemistry</i> , 2018, 293, 18504-18513.	3.4	27
25	Construction, expression, and characterization of AG11"843 and AG11"1581. <i>Data in Brief</i> , 2018, 20, 805-811.	1.0	0
26	Crystal structure of <i>Escherichia coli</i> DEAH/RHA helicase HrpB. <i>Biochemical and Biophysical Research Communications</i> , 2018, 504, 334-339.	2.1	5
27	Asynchrony of Base-Pair Breaking and Nucleotide Releasing of Helicases in DNA Unwinding. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5790-5796.	2.6	4
28	Construction, expression, and characterization of AG11"843 and AG11"1581. <i>Protein Expression and Purification</i> , 2018, 152, 71-76.	1.3	0
29	A helical bundle in the N-terminal domain of the BLM helicase mediates dimer and potentially hexamer formation. <i>Journal of Biological Chemistry</i> , 2017, 292, 5909-5920.	3.4	14
30	A 3"5"2 exonuclease activity embedded in the helicase core domain of <i>Candida albicans</i> Pif1 helicase. <i>Scientific Reports</i> , 2017, 7, 42865.	3.3	3
31	Single-molecule studies reveal reciprocating of WRN helicase core along ssDNA during DNA unwinding. <i>Scientific Reports</i> , 2017, 7, 43954.	3.3	28
32	Purification and enzymatic characterization of <i>Gallus gallus</i> BLM helicase. <i>Journal of Biochemistry</i> , 2017, 162, 183-191.	1.7	7
33	Effects of monovalent cations on folding kinetics of G-quadruplexes. <i>Bioscience Reports</i> , 2017, 37, .	2.4	32
34	<i>Escherichia coli</i> DNA polymerase I can disrupt G-quadruplex structures during DNA replication. <i>FEBS Journal</i> , 2017, 284, 4051-4065.	4.7	17
35	Involvement of G-triplex and G-hairpin in the multi-pathway folding of human telomeric G-quadruplex. <i>Nucleic Acids Research</i> , 2017, 45, 11401-11412.	14.5	67
36	Helicase activity and substrate specificity of RecQ5 "2. <i>Chinese Physics B</i> , 2017, 26, 068701.	1.4	1

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37	G-quadruplex and G-rich sequence stimulate Pif1p-catalyzed downstream duplex DNA unwinding through reducing waiting time at ss/dsDNA junction. <i>Nucleic Acids Research</i> , 2016, 44, 8385-8394.	14.5	19
38	Mechanistic insight into cadmium-induced inactivation of the Bloom protein. <i>Scientific Reports</i> , 2016, 6, 26225.	3.3	10
39	Crystal structures of the BsPif1 helicase reveal that a major movement of the 2B SH3 domain is required for DNA unwinding. <i>Nucleic Acids Research</i> , 2016, 44, 2949-2961.	14.5	25
40	Folding Kinetics of Single Human Telomeric G-Quadruplex Affected by Cisplatin. <i>ACS Omega</i> , 2016, 1, 244-250.	3.5	10
41	Iterative homology checking and non-uniform stepping during RecA-mediated strand exchange. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 1153-1157.	2.1	2
42	The <i>Bacteroides</i> sp. 3_1_23 Pif1 protein is a multifunctional helicase. <i>Nucleic Acids Research</i> , 2015, 43, 8942-8954.	14.5	31
43	Unwinding forward and sliding back: an intermittent unwinding mode of the BLM helicase. <i>Nucleic Acids Research</i> , 2015, 43, 3736-3746.	14.5	33
44	BLM unfolds G-quadruplexes in different structural environments through different mechanisms. <i>Nucleic Acids Research</i> , 2015, 43, 4614-4626.	14.5	75
45	G-quadruplexes Significantly Stimulate Pif1 Helicase-catalyzed Duplex DNA Unwinding. <i>Journal of Biological Chemistry</i> , 2015, 290, 7722-7735.	3.4	44
46	Molecular mechanism of G-quadruplex unwinding helicase: sequential and repetitive unfolding of G-quadruplex by Pif1 helicase. <i>Biochemical Journal</i> , 2015, 466, 189-199.	3.7	64
47	Characterization of Biochemical Properties of <i>Bacillus subtilis</i> RecQ Helicase. <i>Journal of Bacteriology</i> , 2014, 196, 4216-4228.	2.2	6
48	Direct Measurement of Sequential Folding Pathway and Energy Landscape of Human Telomeric G-quadruplex Structures. <i>Journal of the American Chemical Society</i> , 2013, 135, 6423-6426.	13.7	93
49	Characterization of the Antiviral Activity for Influenza Viruses M1 Zinc Finger Peptides. <i>Current Microbiology</i> , 2011, 62, 126-132.	2.2	3
50	Nsp1 proteins of group I and SARS coronaviruses share structural and functional similarities. <i>Infection, Genetics and Evolution</i> , 2010, 10, 919-924.	2.3	31
51	Multiple <i>Escherichia coli</i> RecQ Helicase Monomers Cooperate to Unwind Long DNA Substrates. <i>Journal of Biological Chemistry</i> , 2010, 285, 6922-6936.	3.4	18
52	Analysis of p16 Gene Mutation, Deletion and Methylation in Patients with Arseniasis Produced by Indoor Unventilated-Stove Coal Usage in Guizhou, China. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2007, 70, 970-975.	2.3	44
53	Movement of Bax from the Cytosol to Mitochondria during Apoptosis. <i>Journal of Cell Biology</i> , 1997, 139, 1281-1292.	5.2	1,667
54	Intramolecular Transmission of the ATP Regulatory Signal in <i>Escherichia coli</i> Aspartate Transcarbamylase; Specific Involvement of a Clustered Set of Amino Acid Interactions at an Interface Between Regulatory and Catalytic Subunits. <i>Journal of Molecular Biology</i> , 1995, 246, 132-143.	4.2	29