Xiaodong Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structures of Class I and Class II Transcription Complexes Reveal the Molecular Basis of RamAâ€Dependent Transcription Activation. Advanced Science, 2022, 9, e2103669.	5.6	13
2	GMT8 aptamer conjugated PEGylated Ag@Au core-shell nanoparticles as a novel radiosensitizer for targeted radiotherapy of glioma. Colloids and Surfaces B: Biointerfaces, 2022, 211, 112330.	2.5	13
3	Mechanism of auto-inhibition and activation of Mec1ATR checkpoint kinase. Nature Structural and Molecular Biology, 2021, 28, 50-61.	3.6	17
4	Rad51 filament dynamics and its antagonistic modulators. Seminars in Cell and Developmental Biology, 2021, 113, 3-13.	2.3	11
5	Roles of ATM and ATR in DNA double strand breaks and replication stress. Progress in Biophysics and Molecular Biology, 2021, 161, 27-38.	1.4	14
6	p97 and p47 function in membrane tethering in cooperation with FTCD during mitotic Golgi reassembly. EMBO Journal, 2021, 40, e105853.	3.5	13
7	Roles of ATM and ATR in DNA double strand breaks and replication stress. Progress in Biophysics and Molecular Biology, 2021, 163, 109-119.	1.4	14
8	The renaissance in biophysics and molecular biology enabled by the interface of DNA repair and replication with cancer. Progress in Biophysics and Molecular Biology, 2021, 163, 1-4.	1.4	0
9	One-stop preoperative assessment of renal vessels for living donors with 3.0 T non-contrast-enhanced magnetic resonance angiography: compared with computerized tomography angiography and surgical results. British Journal of Radiology, 2021, 94, 20210589.	1.0	1
10	Crystal structure of the catalytic D2 domain of the AAA+ ATPase p97 reveals a putative helical splitâ€washerâ€type mechanism for substrate unfolding. FEBS Letters, 2020, 594, 933-943.	1.3	6
11	Structures and regulations of ATM and ATR, master kinases in genome integrity. Current Opinion in Structural Biology, 2020, 61, 98-105.	2.6	31
12	Cryo-EM Structure of Nucleotide-Bound Tel1ATM Unravels the Molecular Basis of Inhibition and Structural Rationale for Disease-Associated Mutations. Structure, 2020, 28, 96-104.e3.	1.6	28
13	Structural basis of homologous recombination. Cellular and Molecular Life Sciences, 2020, 77, 3-18.	2.4	88
14	Editorial overview: Macromolecular assemblies. Current Opinion in Structural Biology, 2020, 61, vi-viii.	2.6	0
15	Bacterial Enhancer Binding Proteins—AAA+ Proteins in Transcription Activation. Biomolecules, 2020, 10, 351.	1.8	27
16	Structural basis of transcription inhibition by the DNA mimic protein Ocr of bacteriophage T7. ELife, 2020, 9, .	2.8	8
17	RNA Polymerase Reaches 60: Transcription Initiation, Elongation, Termination, and Regulation in Prokaryotes. Journal of Molecular Biology, 2019, 431, 3945-3946.	2.0	3
18	Isomerization of BRCA1–BARD1 promotes replication fork protection. Nature, 2019, 571, 521-527.	13.7	88

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19	Mechanisms of Ïf 54-Dependent Transcription Initiation and Regulation. Journal of Molecular Biology, 2019, 431, 3960-3974.	2.0	70
20	Structure and regulation of the human INO80–nucleosome complex. Nature, 2018, 556, 391-395.	13.7	148
21	Cryo-EM structures of the human INO80 chromatin-remodeling complex. Nature Structural and Molecular Biology, 2018, 25, 37-44.	3.6	46
22	A structural and dynamic model for the assembly of Replication Protein A on single-stranded DNA. Nature Communications, 2018, 9, 5447.	5.8	110
23	Structures of Bacterial RNA Polymerase Complexes Reveal the Mechanism of DNA Loading and Transcription Initiation. Molecular Cell, 2018, 70, 1111-1120.e3.	4.5	46
24	Single-Particle Electron Microscopy Analysis of DNA Repair Complexes. Methods in Enzymology, 2017, 592, 159-186.	0.4	2
25	Structures of RNA Polymerase Closed and Intermediate Complexes Reveal Mechanisms of DNA Opening and Transcription Initiation. Molecular Cell, 2017, 67, 106-116.e4.	4.5	44
26	Crosstalk within a functional INO80 complex dimer regulates nucleosome sliding. ELife, 2017, 6, .	2.8	21
27	Transcription Regulation and Membrane Stress Management in Enterobacterial Pathogens. Advances in Experimental Medicine and Biology, 2016, 915, 207-230.	0.8	9
28	The bacterial enhancer-dependent RNA polymerase. Biochemical Journal, 2016, 473, 3741-3753.	1.7	40
29	The Dimeric Architecture of Checkpoint Kinases Mec1ATR and Tel1ATM Reveal a Common Structural Organization. Journal of Biological Chemistry, 2016, 291, 13436-13447.	1.6	35
30	A second DNA binding site in human BRCA2 promotes homologous recombination. Nature Communications, 2016, 7, 12813.	5.8	33
31	Mutations in RNA Polymerase Bridge Helix and Switch Regions Affect Active-Site Networks and Transcript-Assisted Hydrolysis. Journal of Molecular Biology, 2015, 427, 3516-3526.	2.0	6
32	The structural basis for enhancerâ€dependent assembly and activation of the AAA transcriptional activator NorR. Molecular Microbiology, 2015, 95, 17-30.	1.2	13
33	Structures of the RNA polymerase-Ïf ⁵⁴ reveal new and conserved regulatory strategies. Science, 2015, 349, 882-885.	6.0	77
34	Mutational analysis of dimeric linkers in peri- and cytoplasmic domains of histidine kinase DctB reveals their functional roles in signal transduction. Open Biology, 2014, 4, 140023.	1.5	10
35	Molecular basis of nucleotide-dependent substrate engagement and remodeling by an AAA+ activator. Nucleic Acids Research, 2014, 42, 9249-9261.	6.5	4
36	The p97-FAF1 Protein Complex Reveals a Common Mode of p97 Adaptor Binding. Journal of Biological Chemistry, 2014, 289, 12077-12084.	1.6	24

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37	Domain movements of the enhancer-dependent sigma factor drive DNA delivery into the RNA polymerase active site: insights from single molecule studies. Nucleic Acids Research, 2014, 42, 5177-5190.	6.5	24
38	Structure and mechanism of action of the BRCA2 breast cancer tumor suppressor. Nature Structural and Molecular Biology, 2014, 21, 962-968.	3.6	95
39	Inter-ring rotations of AAA ATPase p97 revealed by electron cryomicroscopy. Open Biology, 2014, 4, 130142.	1.5	23
40	A fast multiparameter MRI approach for acute stroke assessment on a 3T clinical scanner: preliminary results in a non-human primate model with transient ischemic occlusion. Quantitative Imaging in Medicine and Surgery, 2014, 4, 112-22.	1.1	27
41	The Role of the N-Domain in the ATPase Activity of the Mammalian AAA ATPase p97/VCP. Journal of Biological Chemistry, 2012, 287, 8561-8570.	1.6	104
42	Interactions between the nucleosome histone core and Arp8 in the INO80 chromatin remodeling complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20883-20888.	3.3	47
43	Distinct conformations of the protein complex p97-Ufd1-Npl4 revealed by electron cryomicroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1098-1103.	3.3	41
44	DBL-1, a TGF-β, is essential for <i>Caenorhabditis elegans</i> aversive olfactory learning. Proceedings of the United States of America, 2012, 109, 17081-17086.	3.3	53
45	Coupling AAA protein function to regulated gene expression. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 108-116.	1.9	32
46	Regulation of p97 in the ubiquitin–proteasome system by the UBX protein-family. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 125-129.	1.9	61
47	Transcriptional regulation by the dedicated nitric oxide sensor, NorR: a route towards NO detoxification. Biochemical Society Transactions, 2011, 39, 289-293.	1.6	36
48	Intramolecular signal transmission in a tetrameric repressor of the IclR family. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15372-15377.	3.3	17
49	Activity Map of the Escherichia coli RNA Polymerase Bridge Helix. Journal of Biological Chemistry, 2011, 286, 14469-14479.	1.6	25
50	RNA polymerase and transcription elongation factor Spt4/5 complex structure. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 546-550.	3.3	139
51	Mechanisms for activating bacterial RNA polymerase. FEMS Microbiology Reviews, 2010, 34, 611-627.	3.9	66
52	From signal perception to signal transduction: ligandâ€induced dimeric switch of DctB sensory domain in solution. Molecular Microbiology, 2010, 75, 1484-1494.	1.2	19
53	Nitric oxide-responsive interdomain regulation targets the Ïf 54-interaction surface in the enhancer binding protein NorR. Molecular Microbiology, 2010, 77, 1278-1288.	1.2	20
54	Domain Cross-talk during Effector Binding to the Multidrug Binding TTGR Regulator. Journal of Biological Chemistry, 2010, 285, 21372-21381.	1.6	26

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55	Crystal structure of TtgV in complex with its DNA operator reveals a general model for cooperative DNA binding of tetrameric gene regulators. Genes and Development, 2010, 24, 2556-2565.	2.7	33
56	Essential roles of three enhancer sites in Ïf 54-dependent transcription by the nitric oxide sensing regulatory protein NorR. Nucleic Acids Research, 2010, 38, 1182-1194.	6.5	37
57	Foot-and-Mouth Disease Virus 2C Is a Hexameric AAA+ Protein with a Coordinated ATP Hydrolysis Mechanism. Journal of Biological Chemistry, 2010, 285, 24347-24359.	1.6	57
58	Crystal structure of MexZ, a key repressor responsible for antibiotic resistance in Pseudomonas aeruginosa. Journal of Structural Biology, 2010, 172, 305-310.	1.3	34
59	Structural and functional implications of phosphorylation and acetylation in the regulation of the AAA+ protein p97This paper is one of a selection of papers published in this special issue entitled 8th International Conference on AAA Proteins and has undergone the Journal's usual peer review process. Biochemistry and Cell Biology, 2010, 88, 41-48.	0.9	35
60	TtgV Represses Two Different Promoters by Recognizing Different Sequences. Journal of Bacteriology, 2009, 191, 1901-1909.	1.0	19
61	IHF-binding sites inhibit DNA loop formation and transcription initiation. Nucleic Acids Research, 2009, 37, 3878-3886.	6.5	27
62	Structure-based mechanism of lipoteichoic acid synthesis by <i>Staphylococcus aureus</i> LtaS. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1584-1589.	3.3	93
63	Functional roles of the preâ€sensor I insertion sequence in an AAA+ bacterial enhancer binding protein. Molecular Microbiology, 2009, 73, 519-533.	1.2	13
64	Automated Assignment in Selectively Methyl-Labeled Proteins. Journal of the American Chemical Society, 2009, 131, 9480-9481.	6.6	30
65	Neural-Immune Communication in Caenorhabditis elegans. Cell Host and Microbe, 2009, 5, 425-429.	5.1	33
66	Coupling Ïf Factor Conformation to RNA Polymerase Reorganisation for DNA Melting. Journal of Molecular Biology, 2009, 387, 306-319.	2.0	15
67	PhhR Binds to Target Sequences at Different Distances with Respect to RNA Polymerase in Order to Activate Transcription. Journal of Molecular Biology, 2009, 394, 576-586.	2.0	16
68	The 'glutamate switch' provides a link between ATPase activity and ligand binding in AAA+ proteins. Nature Structural and Molecular Biology, 2008, 15, 1223-1227.	3.6	105
69	<i>Modus operandi</i> of the bacterial RNA polymerase containing the σ ⁵⁴ promoterâ€specificity factor. Molecular Microbiology, 2008, 68, 538-546.	1.2	118
70	Trapping of a Transcription Complex Using a New Nucleotide Analogue: AMP Aluminium Fluoride. Journal of Molecular Biology, 2008, 375, 1206-1211.	2.0	16
71	Mechanism of Homotropic Control to Coordinate Hydrolysis in a Hexameric AAA+ Ring ATPase. Journal of Molecular Biology, 2008, 381, 1-12.	2.0	13
72	Organization of an Activator-Bound RNA Polymerase Holoenzyme. Molecular Cell, 2008, 32, 337-346.	4.5	66

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73	Analysis of Nucleotide Binding to P97 Reveals the Properties of a Tandem AAA Hexameric ATPase. Journal of Biological Chemistry, 2008, 283, 13745-13752.	1.6	72
74	Insights into adaptor binding to the AAA protein p97. Biochemical Society Transactions, 2008, 36, 62-67.	1.6	120
75	Dissecting the ATP hydrolysis pathway of bacterial enhancer-binding proteins. Biochemical Society Transactions, 2008, 36, 83-88.	1.6	25
76	Visualizing the organization and reorganization of transcription complexes for gene expression. Biochemical Society Transactions, 2008, 36, 776-779.	1.6	4
77	Detailed Structural Insights into the p97-Npl4-Ufd1 Interface. Journal of Biological Chemistry, 2007, 282, 21361-21369.	1.6	60
78	Sensor I Threonine of the AAA+ ATPase Transcriptional Activator PspF Is Involved in Coupling Nucleotide Triphosphate Hydrolysis to the Restructuring of σ54-RNA Polymerase. Journal of Biological Chemistry, 2007, 282, 9825-9833.	1.6	17
79	Structural insights into the p97-Ufd1-Npl4 complex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 467-472.	3.3	87
80	A New Labeling Method for Methyl Transverse Relaxation-Optimized Spectroscopy NMR Spectra of Alanine Residues. Journal of the American Chemical Society, 2007, 129, 15428-15429.	6.6	108
81	Crystal Structures of Multidrug Binding Protein TtgR in Complex with Antibiotics and Plant Antimicrobials. Journal of Molecular Biology, 2007, 369, 829-840.	2.0	116
82	Coupling nucleotide hydrolysis to transcription activation performance in a bacterial enhancer binding protein. Molecular Microbiology, 2007, 66, 583-595.	1.2	31
83	Bacterial enhancer-binding proteins: unlocking Ï f 54-dependent gene transcription. Current Opinion in Structural Biology, 2007, 17, 110-116.	2.6	93
84	p37 Is a p97 Adaptor Required for Golgi and ER Biogenesis in Interphase and at the End of Mitosis. Developmental Cell, 2006, 11, 803-816.	3.1	95
85	Structural Basis of the Nucleotide Driven Conformational Changes in the AAA+ Domain of Transcription Activator PspF. Journal of Molecular Biology, 2006, 357, 481-492.	2.0	75
86	Structure of the Whole Cytosolic Region of ATP-Dependent Protease FtsH. Molecular Cell, 2006, 22, 575-585.	4.5	140
87	Structures and organisation of AAA+ enhancer binding proteins in transcriptional activation. Journal of Structural Biology, 2006, 156, 190-199.	1.3	100
88	Going through the motions: The ATPase cycle of p97. Journal of Structural Biology, 2006, 156, 12-28.	1.3	90
89	Protein-induced DNA bending clarifies the architectural organization of the sigma54-dependent glnAp2 promoter. Molecular Microbiology, 2006, 59, 168-180.	1.2	39
90	Conformational changes in the AAA ATPase p97–p47 adaptor complex. EMBO Journal, 2006, 25, 1967-1976.	3.5	95

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91	Role of Transcription Factors in Motoneuron Differentiation of Adult Human Olfactory Neuroepithelial-Derived Progenitors. Stem Cells, 2006, 24, 434-442.	1.4	32
92	Induction of Oligodendrocytes From Adult Human Olfactory Epithelial-Derived Progenitors by Transcription Factors. Stem Cells, 2005, 23, 442-453.	1.4	35
93	Structural Insights into the Activity of Enhancer-Binding Proteins. Science, 2005, 307, 1972-1975.	6.0	153
94	Multifunctional Roles of the Conserved Arg Residues in the Second Region of Homology of p97/Valosin-containing Protein. Journal of Biological Chemistry, 2005, 280, 40515-40523.	1.6	44
95	The Multidrug Efflux Regulator TtgV Recognizes a Wide Range of Structurally Different Effectors in Solution and Complexed with Target DNA. Journal of Biological Chemistry, 2005, 280, 20887-20893.	1.6	68
96	The TetR Family of Transcriptional Repressors. Microbiology and Molecular Biology Reviews, 2005, 69, 326-356.	2.9	989
97	Mechanisms of ATPases - A Multi-Disciplinary Approach. Current Protein and Peptide Science, 2004, 5, 89-105.	0.7	36
98	TtgV Bound to a Complex Operator Site Represses Transcription of the Promoter for the Multidrug and Solvent Extrusion TtgGHI Pump. Journal of Bacteriology, 2004, 186, 2921-2927.	1.0	46
99	Structural basis of the interaction between the AAA ATPase p97/VCP and its adaptor protein p47. EMBO Journal, 2004, 23, 1030-1039.	3.5	172
100	Structure, dynamics and interactions of p47, a major adaptor of the AAA ATPase, p97. EMBO Journal, 2004, 23, 1463-1473.	3.5	65
101	Letter to the Editor: Complete Backbone Resonance Assignments of p47: The 41kDa Adaptor Protein of the AAA ATPaseÂp97. Journal of Biomolecular NMR, 2004, 28, 309-310.	1.6	4
102	A link between sequence conservation and domain motion within the AAA+ family. Journal of Structural Biology, 2004, 146, 189-204.	1.3	21
103	ATP-dependent Transcriptional Activation by Bacterial PspF AAA+Protein. Journal of Molecular Biology, 2004, 338, 863-875.	2.0	65
104	sigma54-dependent transcription activator phage shock protein F of Escherichia coli: a fragmentation approach to identify sequences that contribute to self-association. Biochemical Journal, 2004, 378, 735-744.	1.7	3
105	The crystal structure of murine p97/VCP at 3.6Ã Journal of Structural Biology, 2003, 144, 337-348.	1.3	166
106	Motions and Negative Cooperativity Between p97 Domains Revealed by Cryo-electron Microscopy and Quantised Elastic Deformational Model. Journal of Molecular Biology, 2003, 327, 619-629.	2.0	97
107	The ATP hydrolyzing transcription activator phage shock protein F of Escherichia coli: Identifying a surface that binds A54. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2278-2283.	3.3	86
108	The localization and phosphorylation of p47 are important for Golgi disassembly–assembly during the cell cycle. Journal of Cell Biology, 2003, 161, 1067-1079.	2.3	96

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109	VCIP135, a novel essential factor for p97/p47-mediated membrane fusion, is required for Golgi and ER assembly in vivo. Journal of Cell Biology, 2002, 159, 855-866.	2.3	188
110	Machinery of protein folding and unfolding. Current Opinion in Structural Biology, 2002, 12, 231-238.	2.6	48
111	Mechanochemical ATPases and transcriptional activation. Molecular Microbiology, 2002, 45, 895-903.	1.2	143
112	Solution structure and interaction surface of the C-terminal domain from p47: A major p97-cofactor involved in SNARE disassembly. Journal of Molecular Biology, 2001, 311, 255-263.	2.0	80
113	BRCT Domain Interactions in the Heterodimeric DNA Repair Protein XRCC1â^'DNA Ligase III. Biochemistry, 2001, 40, 5906-5913.	1.2	59
114	The BRCA1 C-terminal domain: structure and function. Mutation Research DNA Repair, 2000, 460, 319-332.	3.8	128
115	Structure of the AAA ATPase p97. Molecular Cell, 2000, 6, 1473-1484.	4.5	394
116	X-ray crystallographic determination of the structure of the influenza C virus haemagglutinin-esterase-fusion glycoprotein. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 945-961.	2.5	11
117	Structure of an XRCC1 BRCT domain: a new protein-protein interaction module. EMBO Journal, 1998, 17, 6404-6411.	3.5	223
118	Structure of the haemagglutinin-esterase-fusion glycoprotein of influenza C virus. Nature, 1998, 396, 92-96.	13.7	218
119	Mapping and Measuring DNA to Protein Ratios in Mammalian Sperm Head by XANES Imaging. Journal of Structural Biology, 1996, 116, 335-344.	1.3	141
120	Biological microscopy and soft X-ray optics at Stony Brook. Journal of Electron Spectroscopy and Related Phenomena, 1996, 80, 337-341.	0.8	6
121	Soft xâ€ray microscopy with coherent x rays (invited). Review of Scientific Instruments, 1992, 63, 557-563.	0.6	48
122	Chemical contrast in X-ray microscopy and spatially resolved XANES spectroscopy of organic specimens. Science, 1992, 258, 972-975.	6.0	356
123	Diffraction-limited imaging in a scanning transmission x-ray microscope. Optics Communications, 1991, 86, 351-364.	1.0	241