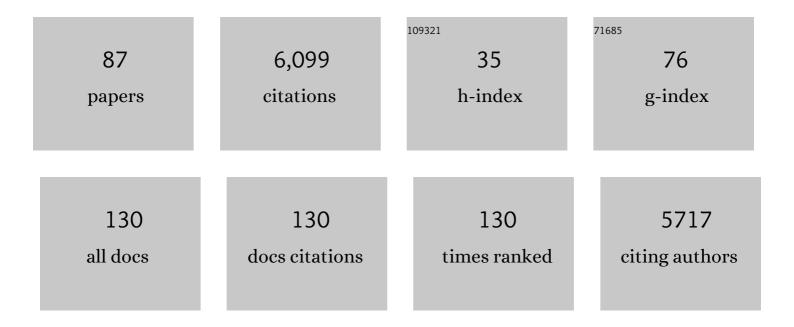
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Crystal structure of a bacteriophage T7 DNA replication complex at 2.2 à resolution. Nature, 1998, 391, 251-258.	27.8	1,207
2	[29] Preparation of selenomethionyl proteins for phase determination. Methods in Enzymology, 1997, 276, 523-530.	1.0	801
3	An open and closed case for all polymerases. Structure, 1999, 7, R31-R35.	3.3	292
4	Mechanism of Suppression of Chromosomal Instability by DNA Polymerase POLQ. PLoS Genetics, 2014, 10, e1004654.	3.5	214
5	Structural basis for the dual coding potential of 8-oxoguanosine by a high-fidelity DNA polymerase. EMBO Journal, 2004, 23, 3452-3461.	7.8	200
6	The mechanism of action of T7 DNA polymerase. Current Opinion in Structural Biology, 1998, 8, 704-712.	5.7	185
7	Tryptophanyl-tRNA synthetase crystal structure reveals an unexpected homology to tyrosyl-tRNA synthetase. Structure, 1995, 3, 17-31.	3.3	181
8	DNA polymerase \hat{l}_{s} (POLQ), double-strand break repair, and cancer. DNA Repair, 2016, 44, 22-32.	2.8	158
9	Crystallographic snapshots of a replicative DNA polymerase encountering an abasic site. EMBO Journal, 2004, 23, 1483-1493.	7.8	134
10	The crystal structure of human endonuclease VIII-like 1 (NEIL1) reveals a zincless finger motif required for glycosylase activity. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10284-10289.	7.1	132
11	Crystal Structure of a Human Cleavage Factor CFIm25/CFIm68/RNA Complex Provides an Insight into Poly(A) Site Recognition and RNA Looping. Structure, 2011, 19, 368-377.	3.3	127
12	Structural basis of UGUA recognition by the Nudix protein CFI _m 25 and implications for a regulatory role in mRNA 3â€2 processing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10062-10067.	7.1	123
13	Production of Selenomethionyl Proteins in Prokaryotic and Eukaryotic Expression Systems. Methods in Molecular Biology, 2007, 363, 91-108.	0.9	116
14	Base Excision Repair in the Mitochondria. Journal of Cellular Biochemistry, 2015, 116, 1490-1499.	2.6	111
15	Human DNA polymerase Î, grasps the primer terminus to mediate DNA repair. Nature Structural and Molecular Biology, 2015, 22, 304-311.	8.2	109
16	Structural and Functional Analysis of the CspB Protease Required for Clostridium Spore Germination. PLoS Pathogens, 2013, 9, e1003165.	4.7	99
17	A structural rationale for stalling of a replicative DNA polymerase at the most common oxidative thymine lesion, thymine glycol. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 814-818.	7.1	91
18	Lesion Bypass Activity of DNA Polymerase Î, (POLQ) Is an Intrinsic Property of the Pol Domain and Depends on Unique Sequence Inserts. Journal of Molecular Biology, 2011, 405, 642-652.	4.2	81

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19	The Fpg/Nei Family of DNA Glycosylases. Progress in Molecular Biology and Translational Science, 2012, 110, 71-91.	1.7	78
20	Neil3, the final frontier for the DNA glycosylases that recognize oxidative damage. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 743-744, 4-11.	1.0	72
21	Structural and Biochemical Investigation of the Role in Proofreading of a β Hairpin Loop Found in the Exonuclease Domain of a Replicative DNA Polymerase of the B Family. Journal of Biological Chemistry, 2007, 282, 1432-1444.	3.4	67
22	Nucleotide insertion opposite a cis-syn thymine dimer by a replicative DNA polymerase from bacteriophage T7. Nature Structural and Molecular Biology, 2004, 11, 784-790.	8.2	66
23	The structure of human Cleavage Factor I _m hints at functions beyond UGUA-specific RNA binding. RNA Biology, 2011, 8, 748-753.	3.1	56
24	Crystallization and preliminary X-ray analysis of the 9 kDa protein of the mouse signal recognition particle and the selenomethionyl-SRP9. FEBS Letters, 1996, 384, 219-221.	2.8	52
25	Structural Characterization of a Mouse Ortholog of Human NEIL3 with a Marked Preference for Single-Stranded DNA. Structure, 2013, 21, 247-256.	3.3	51
26	Phosphonoformic Acid Inhibits Viral Replication by Trapping the Closed Form of the DNA Polymerase. Journal of Biological Chemistry, 2011, 286, 25246-25255.	3.4	48
27	Structural Characterization of Viral Ortholog of Human DNA Glycosylase NEIL1 Bound to Thymine Glycol or 5-Hydroxyuracil-containing DNA. Journal of Biological Chemistry, 2012, 287, 4288-4298.	3.4	48
28	tRNA ^{His} guanylyltransferase (THG1), a unique 3′-5′ nucleotidyl transferase, shares unexpected structural homology with canonical 5′-3′ DNA polymerases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20305-20310.	7.1	47
29	Bumps in the road: how replicative DNA polymerases see DNA damage. Current Opinion in Structural Biology, 2005, 15, 86-93.	5.7	46
30	Structural and biochemical studies of a plant formamidopyrimidine-DNA glycosylase reveal why eukaryotic Fpg glycosylases do not excise 8-oxoguanine. DNA Repair, 2012, 11, 714-725.	2.8	46
31	Structural biology of poly(A) site definition. Wiley Interdisciplinary Reviews RNA, 2011, 2, 732-747.	6.4	45
32	Biochemical and Structural Insights into Substrate Binding and Catalytic Mechanism of Mammalian Poly(A) Polymerase. Journal of Molecular Biology, 2004, 341, 911-925.	4.2	42
33	Structural Characterization of a Viral NEIL1 Ortholog Unliganded and Bound to Abasic Site-containing DNA. Journal of Biological Chemistry, 2009, 284, 26174-26183.	3.4	41
34	Caught Bending the A-Rule:  Crystal Structures of Translesion DNA Synthesis with a Non-Natural Nucleotide. Biochemistry, 2007, 46, 10551-10561.	2.5	40
35	Crystal structure of the 25 kDa subunit of human cleavage factor I m. Nucleic Acids Research, 2008, 36, 3474-3483.	14.5	39
36	Genome and cancer single nucleotide polymorphisms of the human NEIL1 DNA glycosylase: Activity, structure, and the effect of editing. DNA Repair, 2014, 14, 17-26.	2.8	38

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37	Crystal Structure of a Replicative DNA Polymerase Bound to the Oxidized Guanine Lesion Guanidinohydantoin [,] . Biochemistry, 2010, 49, 2502-2509.	2.5	37
38	8-Oxoguanine DNA Glycosylases: One Lesion, Three Subfamilies. International Journal of Molecular Sciences, 2012, 13, 6711-6729.	4.1	36
39	DNA polymerases provide a canon of strategies for translesion synthesis past oxidatively generated lesions. Current Opinion in Structural Biology, 2011, 21, 358-369.	5.7	34
40	Structural insights into eukaryotic DNA replication. Frontiers in Microbiology, 2014, 5, 444.	3.5	34
41	Cryocooling of Macromolecular Crystals: Optimization Methods. Methods in Enzymology, 2003, 368, 188-216.	1.0	33
42	Quantitative Analysis of Crystal Growth. Journal of Molecular Biology, 1994, 238, 346-365.	4.2	32
43	The CspC pseudoprotease regulates germination of Clostridioides difficile spores in response to multiple environmental signals. PLoS Genetics, 2019, 15, e1008224.	3.5	32
44	Activation of the Hetero-octameric ATP Phosphoribosyl Transferase through Subunit Interface Rearrangement by a tRNA Synthetase Paralog. Journal of Biological Chemistry, 2005, 280, 34096-34104.	3.4	30
45	Overproduction, crystallization and preliminary crystallographic analysis of a novel human DNA-repair enzyme that recognizes oxidative DNA damage. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1142-1144.	2.5	28
46	A Crystallographic Study of the Role of Sequence Context in Thymine Glycol Bypass by a Replicative DNA Polymerase Serendipitously Sheds Light on the Exonuclease Complex. Journal of Molecular Biology, 2011, 412, 22-34.	4.2	25
47	Human DNA polymerase Î, harbors DNA end-trimming activity critical for DNA repair. Molecular Cell, 2021, 81, 1534-1547.e4.	9.7	25
48	Fluorescence Resonance Energy Transfer Studies of DNA Polymerase β. Journal of Biological Chemistry, 2014, 289, 16541-16550.	3.4	23
49	A Concerted Tryptophanyl-adenylate-dependent Conformational Change inBacillus subtilisTryptophanyl-tRNA Synthetase Revealed by the Fluorescence of Trp92. Journal of Molecular Biology, 1996, 260, 446-466.	4.2	21
50	Determinants of substrate specificity in RNA-dependent nucleotidyl transferases. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2008, 1779, 206-216.	1.9	21
51	The C-terminal Lysine of Ogg2 DNA Glycosylases is a Major Molecular Determinant for Guanine/8-Oxoguanine Distinction. Journal of Molecular Biology, 2010, 397, 46-56.	4.2	21
52	Structural investigation of a viral ortholog of human NEIL2/3 DNA glycosylases. DNA Repair, 2013, 12, 1062-1071.	2.8	21
53	Crystal Structures of Two Archaeal 8-Oxoguanine DNA Glycosylases Provide Structural Insight into Guanine/8-Oxoguanine Distinction. Structure, 2009, 17, 703-712.	3.3	20
54	The Motif D Loop of Human Immunodeficiency Virus Type 1 Reverse Transcriptase Is Critical for Nucleoside 5′-Triphosphate Selectivity. Journal of Biological Chemistry, 1999, 274, 35768-35776.	3.4	19

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55	Kinetics of Mismatch Formation opposite Lesions by the Replicative DNA Polymerase from Bacteriophage RB69. Biochemistry, 2010, 49, 2317-2325.	2.5	19
56	Unique Structural Features of Mammalian NEIL2 DNA Glycosylase Prime Its Activity for Diverse DNA Substrates and Environments. Structure, 2021, 29, 29-42.e4.	3.3	19
57	The Miscoding Potential of 5-Hydroxycytosine Arises Due to Template Instability in the Replicative Polymerase Active Site. Biochemistry, 2011, 50, 10350-10358.	2.5	18
58	Crystal Structure of DNA Polymerase \hat{l}^2 with DNA Containing the Base Lesion Spiroiminodihydantoin in a Templating Position. Biochemistry, 2014, 53, 2075-2077.	2.5	18
59	Crystal Structure of Human Poly(A) Polymerase Gamma Reveals a Conserved Catalytic Core for Canonical Poly(A) Polymerases. Journal of Molecular Biology, 2014, 426, 43-50.	4.2	18
60	The NEIL1 G83D germline DNA glycosylase variant induces genomic instability and cellular transformation. Oncotarget, 2017, 8, 85883-85895.	1.8	17
61	A Germline Polymorphism of Thymine DNA Glycosylase Induces Genomic Instability and Cellular Transformation. PLoS Genetics, 2014, 10, e1004753.	3.5	16
62	Phosphorylation Sites Identified in the NEIL1 DNA Glycosylase Are Potential Targets for the JNK1 Kinase. PLoS ONE, 2016, 11, e0157860.	2.5	16
63	The E295K Cancer Variant of Human Polymerase β Favors the Mismatch Conformational Pathway during Nucleotide Selection. Journal of Biological Chemistry, 2013, 288, 34850-34860.	3.4	15
64	Structural Studies of a Bacterial tRNAHIS Guanylyltransferase (Thg1)-Like Protein, with Nucleotide in the Activation and Nucleotidyl Transfer Sites. PLoS ONE, 2013, 8, e67465.	2.5	15
65	Structural Characterization of Clostridium acetobutylicum 8-Oxoguanine DNA Glycosylase in Its Apo Form and in Complex with 8-Oxodeoxyguanosine. Journal of Molecular Biology, 2009, 387, 669-679.	4.2	14
66	Structural basis for the lack of opposite base specificity of Clostridium acetobutylicum 8-oxoguanine DNA glycosylase. DNA Repair, 2009, 8, 1283-1289.	2.8	13
67	Expression and Structural Analyses of Human DNA Polymerase Î, (POLQ). Methods in Enzymology, 2017, 592, 103-121.	1.0	13
68	Destabilization of the PCNA trimer mediated by its interaction with the NEIL1 DNA glycosylase. Nucleic Acids Research, 2016, 45, gkw1282.	14.5	11
69	Defective Nucleotide Release by DNA Polymerase Î ² Mutator Variant E288K Is the Basis of Its Low Fidelity. Biochemistry, 2017, 56, 5550-5559.	2.5	11
70	Caught in motion: human NTHL1 undergoes interdomain rearrangement necessary for catalysis. Nucleic Acids Research, 2021, 49, 13165-13178.	14.5	11
71	Consequences and Repair of Oxidative DNA Damage. Issues in Toxicology, 2012, , 115-159.	0.1	10
72	The A-Rule and Deletion Formation During Abasic and Oxidized Abasic Site Bypass by DNA Polymerase Î, ACS Chemical Biology, 2017, 12, 1584-1592.	3.4	10

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73	Remote Mutations Induce Functional Changes in Active Site Residues of Human DNA Polymerase β. Biochemistry, 2017, 56, 2363-2371.	2.5	9
74	I260Q DNA polymerase β highlights precatalytic conformational rearrangements critical for fidelity. Nucleic Acids Research, 2018, 46, 10740-10756.	14.5	8
75	A lipoprotein allosterically activates the CwlD amidase during Clostridioides difficile spore formation. PLoS Genetics, 2021, 17, e1009791.	3.5	8
76	When DNA Polymerases Multitask: Functions Beyond Nucleotidyl Transfer. Frontiers in Molecular Biosciences, 2021, 8, 815845.	3.5	8
77	The nature of the DNA substrate influences pre-catalytic conformational changes of DNA polymerase β. Journal of Biological Chemistry, 2018, 293, 15084-15094.	3.4	7
78	Crystallization and preliminary crystallographic analysis of the signal recognition particle SRPΦ14-9 fusion protein. FEBS Letters, 1996, 384, 215-218.	2.8	4
79	Purification, crystallization and preliminary X-ray diffraction of a disulfide cross-linked complex between bovine poly(A) polymerase and a chemically modified 15-mer oligo(A) RNA. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 241-244.	0.7	4
80	Production of Selenomethionyl Proteins in Prokaryotic and Eukaryotic Expression Systems. , 0, , 91-108.		3
81	Chemical modifications of Bacillus subtilis tryptophanyl-tRNA synthetase. Biochemistry and Cell Biology, 1997, 75, 709-715.	2.0	2
82	Look Ma, no PCNA: how DNA polymerase ε synthesizes long stretches of DNA without a processivity factor. Nature Structural and Molecular Biology, 2014, 21, 12-14.	8.2	2
83	Probing the structure and function of polymerase Î, helicase-like domain. DNA Repair, 2022, 116, 103358.	2.8	2
84	Infidelity Out in the Open. Structure, 2004, 12, 1749-1750.	3.3	1
85	Crystallographic Software: A Sustainable Resource for the Community. , 2007, 364, 273-278.		1
86	The Soul of a New Structure-Function Machine. Structure, 2008, 16, 3-4.	3.3	1
87	Mouse Embryonic Fibroblasts Isolated From Nthl1 D227Y Knockin Mice Exhibit Defective DNA Repair and Increased Genome Instability, DNA Repair, 2022, 109, 103247	2.8	Ο