

# Thomas W Kirby

## List of Publications by Year in descending order

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30  
papers

733  
citations

567144

15  
h-index

526166

27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

647  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and characterization of the iron-containing superoxide dismutase of <i>Methanobacterium bryantii</i> . <i>Archives of Biochemistry and Biophysics</i> , 1981, 210, 140-148.	1.4	131
2	Distinguishing between Mn-containing and Fe-containing superoxide dismutases in crude extracts of cells. <i>Archives of Biochemistry and Biophysics</i> , 1980, 201, 551-555.	1.4	97
3	Solution Structure of the RNase H Domain of the HIV-1 Reverse Transcriptase in the Presence of Magnesium. <i>Biochemistry</i> , 2003, 42, 639-650.	1.2	53
4	Dynamic Characterization of a DNA Repair Enzyme: NMR Studies of [methyl-13C]Methionine-Labeled DNA Polymerase $\beta$ . <i>Biochemistry</i> , 2004, 43, 8911-8922.	1.2	53
5	A picomolar spectrophotometric assay for superoxide dismutase. <i>Analytical Biochemistry</i> , 1982, 127, 435-440.	1.1	49
6	Structure of the <i>Escherichia coli</i> DNA Polymerase III $\mu$ -HOT Proofreading Complex. <i>Journal of Biological Chemistry</i> , 2006, 281, 38466-38471.	1.6	30
7	Metal-induced DNA translocation leads to DNA polymerase conformational activation. <i>Nucleic Acids Research</i> , 2012, 40, 2974-2983.	6.5	30
8	Nuclear Localization of the DNA Repair Scaffold XRCC1: Uncovering the Functional Role of a Bipartite NLS. <i>Scientific Reports</i> , 2015, 5, 13405.	1.6	30
9	A Thymine Isostere in the Templating Position Disrupts Assembly of the Closed DNA Polymerase $\beta$ Ternary Complex. <i>Biochemistry</i> , 2005, 44, 15230-15237.	1.2	29
10	Solution Structure of the Lyase Domain of Human DNA Polymerase $\beta$ . <i>Biochemistry</i> , 2003, 42, 9564-9574.	1.2	27
11	Backbone Dynamics of the RNase H Domain of HIV-1 Reverse Transcriptase. <i>Biochemistry</i> , 2004, 43, 9332-9342.	1.2	24
12	NMR analysis of [methyl-13C]methionine UvrB from <i>Bacillus caldotenax</i> reveals UvrB domain 4 heterodimer formation in solution. <i>Journal of Molecular Biology</i> , 2007, 373, 282-295.	2.0	24
13	NMR Determination of Lysine pKa Values in the Pol $\beta$ Lyase Domain: Mechanistic Implications. <i>Biochemistry</i> , 2006, 45, 1785-1794.	1.2	21
14	The Nuclease A Inhibitor Represents a New Variation of the Rare PR-1 Fold. <i>Journal of Molecular Biology</i> , 2002, 320, 771-782.	2.0	20
15	Nuclear Magnetic Resonance Solution Structure of the <i>Escherichia coli</i> DNA Polymerase III $\beta$ Subunit. <i>Journal of Bacteriology</i> , 2005, 187, 7081-7089.	1.0	19
16	Ligand binding characteristics of the Ku80 von Willebrand domain. <i>DNA Repair</i> , 2020, 85, 102739.	1.3	14
17	DNA polymerase $\beta$ contains a functional nuclear localization signal at its N-terminus. <i>Nucleic Acids Research</i> , 2017, 45, 1958-1970.	6.5	13
18	Phage Like It HOT. <i>Structure</i> , 2004, 12, 2221-2231.	1.6	12

#	ARTICLE	IF	CITATIONS
19	Substrate Rescue of DNA Polymerase $\beta$ Containing a Catastrophic L22P Mutation. <i>Biochemistry</i> , 2014, 53, 2413-2422.	1.2	12
20	Characterization of the APLF FHA-XRCC1 phosphopeptide interaction and its structural and functional implications. <i>Nucleic Acids Research</i> , 2017, 45, 12374-12387.	6.5	9
21	Phosphopeptide interactions of the Nbs1 N-terminal FHA-BRCT1/2 domains. <i>Scientific Reports</i> , 2021, 11, 9046.	1.6	7
22	Characterization of the Redox Transition of the XRCC1 N-terminal Domain. <i>Structure</i> , 2014, 22, 1754-1763.	1.6	6
23	Application of a partially automated solid-phase peptide synthesis apparatus to the synthesis of a protected peptide fragment of cytochrome c. <i>Analytical Biochemistry</i> , 1978, 85, 367-376.	1.1	5
24	Metabolic transformation of AZTp4A by Ap4A hydrolase regenerates AZT triphosphate. <i>Antiviral Research</i> , 2003, 58, 227-233.	1.9	5
25	NMR assignment of polymerase $\beta$ labeled with $^2\text{H}$ , $^{13}\text{C}$ , and $^{15}\text{N}$ in complex with substrate DNA. <i>Biomolecular NMR Assignments</i> , 2007, 1, 33-35.	0.4	5
26	Variations in nuclear localization strategies among pol X family enzymes. <i>Traffic</i> , 2018, 19, 723-735.	1.3	3
27	Transitions in DNA polymerase $\beta$ $\mu\text{s}$ -ms dynamics related to substrate binding and catalysis. <i>Nucleic Acids Research</i> , 2018, 46, 7309-7322.	6.5	3
28	NMR assignment of protein side chains using residue-correlated labeling and NOE spectra. <i>Journal of Magnetic Resonance</i> , 2003, 165, 237-247.	1.2	2
29	Structure of a Complex of <i>E. coli</i> DNA Polymerase III $\mu$ Subunit with Phage P1 Homolog of $\beta$ . <i>FASEB Journal</i> , 2006, 20, .	0.2	0
30	NMR study of the effect of Zn on conformational activation of rat DNA polymerase $\beta$ . <i>FASEB Journal</i> , 2010, 24, 876.6.	0.2	0