

Scott W Nelson

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Control Mechanism for Lagging Strand Polymerase Recycling during Bacteriophage T4 DNA Replication. <i>Molecular Cell</i> , 2006, 21, 153-164.	9.7	100
2	Biochemical Characterization of Bacteriophage T4 Mre11-Rad50 Complex. <i>Journal of Biological Chemistry</i> , 2011, 286, 2382-2392.	3.4	48
3	Inhibition of Fructose-1,6-bisphosphatase by a New Class of Allosteric Effectors. <i>Journal of Biological Chemistry</i> , 2003, 278, 51176-51183.	3.4	33
4	Tryptophan Fluorescence Reveals the Conformational State of a Dynamic Loop in Recombinant Porcine Fructose-1,6-bisphosphatase. <i>Biochemistry</i> , 2000, 39, 11100-11106.	2.5	28
5	The T4 Phage UvsW Protein Contains Both DNA Unwinding and Strand Annealing Activities. <i>Journal of Biological Chemistry</i> , 2007, 282, 407-416.	3.4	28
6	RNA Primer Handoff in Bacteriophage T4 DNA Replication. <i>Journal of Biological Chemistry</i> , 2008, 283, 22838-22846.	3.4	28
7	Response of the Bacteriophage T4 Replisome to Noncoding Lesions and Regression of a Stalled Replication Fork. <i>Journal of Molecular Biology</i> , 2010, 401, 743-756.	4.2	28
8	Mutations in the Hinge of a Dynamic Loop Broadly Influence Functional Properties of Fructose-1,6-bisphosphatase. <i>Journal of Biological Chemistry</i> , 2000, 275, 29986-29992.	3.4	24
9	An Interaction between the Walker A and D-loop Motifs Is Critical to ATP Hydrolysis and Cooperativity in Bacteriophage T4 Rad50. <i>Journal of Biological Chemistry</i> , 2011, 286, 26258-26266.	3.4	24
10	Hybrid Tetramers of Porcine Liver Fructose-1,6-bisphosphatase Reveal Multiple Pathways of Allosteric Inhibition. <i>Journal of Biological Chemistry</i> , 2002, 277, 15539-15545.	3.4	22
11	Mechanism of Action of Escherichia coli Phosphoribosylaminoimidazolesuccinocarboxamide Synthetase. <i>Biochemistry</i> , 2005, 44, 766-774.	2.5	18
12	Replication and maintenance of the Plasmodium falciparum apicoplast genome. <i>Molecular and Biochemical Parasitology</i> , 2016, 208, 56-64.	1.1	17
13	The N-terminal Segment of Recombinant Porcine Fructose-1,6-bisphosphatase Participates in the Allosteric Regulation of Catalysis. <i>Journal of Biological Chemistry</i> , 2001, 276, 6119-6124.	3.4	15
14	Processive and Unidirectional Translocation of Monomeric UvsW Helicase on Single-Stranded DNA. <i>Biochemistry</i> , 2009, 48, 1036-1046.	2.5	15
15	Site-directed Mutations of T4 Helicase Loading Protein (gp59) Reveal Multiple Modes of DNA Polymerase Inhibition and the Mechanism of Unlocking by gp41 Helicase. <i>Journal of Biological Chemistry</i> , 2006, 281, 8697-8706.	3.4	14
16	A High-Throughput Assay to Identify Inhibitors of the Apicoplast DNA Polymerase from Plasmodium falciparum. <i>Journal of Biomolecular Screening</i> , 2014, 19, 966-972.	2.6	14
17	Functional Analysis of the Bacteriophage T4 Rad50 Homolog (gp46) Coiled-coil Domain. <i>Journal of Biological Chemistry</i> , 2015, 290, 23905-23915.	3.4	14
18	Fidelity, Mismatch Extension, and Proofreading Activity of the Plasmodium falciparum Apicoplast DNA Polymerase. <i>Biochemistry</i> , 2013, 52, 7723-7730.	2.5	13

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19	Spontaneous subunit exchange in porcine liver fructose-1,6-bisphosphatase. <i>FEBS Letters</i> , 2001, 492, 254-258.	2.8	12
20	Disruption of the Bacteriophage T4 Mre11 Dimer Interface Reveals a Two-state Mechanism for Exonuclease Activity. <i>Journal of Biological Chemistry</i> , 2012, 287, 31371-31381.	3.4	12
21	Repetitive lagging strand DNA synthesis by the bacteriophage T4 replisome. <i>Molecular BioSystems</i> , 2008, 4, 1070.	2.9	11
22	Coordination and Processing of DNA Ends During Double-Strand Break Repair: The Role of the Bacteriophage T4 Mre11/Rad50 (MR) Complex. <i>Genetics</i> , 2013, 195, 739-755.	2.9	11
23	Catalytic Mechanism of Bacteriophage T4 Rad50 ATP Hydrolysis. <i>Biochemistry</i> , 2014, 53, 5647-5660.	2.5	11
24	Functional Evaluation of Bacteriophage T4 Rad50 Signature Motif Residues. <i>Biochemistry</i> , 2011, 50, 6030-6040.	2.5	10
25	Interaction of T4 UvsW Helicase and Single-Stranded DNA Binding Protein gp32 through Its Carboxy-Terminal Acidic Tail. <i>Journal of Molecular Biology</i> , 2013, 425, 2823-2839.	4.2	10
26	Crystal Structure of the Apicoplast DNA Polymerase from <i>Plasmodium falciparum</i> : The First Look at a Plastidic A-Family DNA Polymerase. <i>Journal of Molecular Biology</i> , 2016, 428, 3920-3934.	4.2	10
27	Interaction of T1+ with Product Complexes of Fructose-1,6-bisphosphatase. <i>Journal of Biological Chemistry</i> , 2003, 278, 16008-16014.	3.4	9
28	Discovery of small molecule inhibitors of <i>Plasmodium falciparum</i> apicoplast DNA polymerase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 1320-1326.	5.2	7
29	T4 Phage Replisome. , 2009, , 337-364.		6
30	Origin of Cooperativity in the Activation of Fructose-1,6-bisphosphatase by Mg ²⁺ . <i>Journal of Biological Chemistry</i> , 2004, 279, 18481-18487.	3.4	5
31	Autoinhibition of Bacteriophage T4 Mre11 by Its C-terminal Domain. <i>Journal of Biological Chemistry</i> , 2014, 289, 26505-26513.	3.4	5
32	Environment of Tryptophan 57 in Porcine Fructose-1,6-bisphosphatase Studied by Time-resolved Fluorescence and Site-directed Mutagenesis. <i>Photochemistry and Photobiology</i> , 2001, 74, 679.	2.5	5
33	A network of allosterically coupled residues in the bacteriophage T4 Mre11-Rad50 complex. <i>Protein Science</i> , 2016, 25, 2054-2065.	7.6	4
34	Kinetic Analysis of the Exonuclease Activity of the Bacteriophage T4 Mre11-Rad50 Complex. <i>Methods in Enzymology</i> , 2018, 600, 135-156.	1.0	4
35	Crystallization and preliminary X-ray analysis of the <i>Plasmodium falciparum</i> apicoplast DNA polymerase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 333-337.	0.8	2
36	Functional evaluation of the C-terminal region of bacteriophage T4 Rad50. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 485-490.	2.1	1

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37	Environment of Tryptophan 57 in Porcine Fructose-1,6-bisphosphatase Studied by Time-resolved Fluorescence and Site-directed Mutagenesis. Photochemistry and Photobiology, 2007, 74, 679-685.	2.5	0