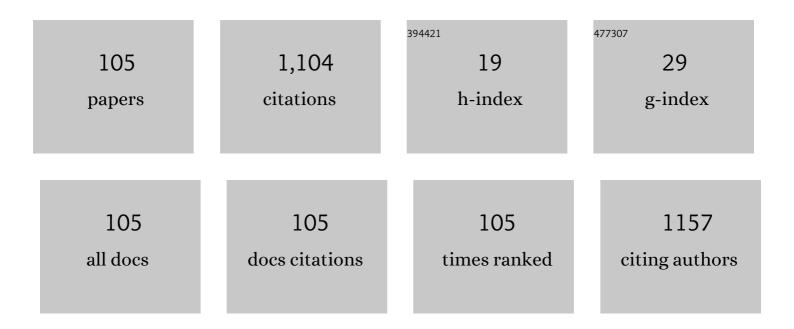
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Y-family DNA polymerases in Escherichia coli. Trends in Microbiology, 2007, 15, 70-77.	7.7	137
2	Biochemical functional predictions for protein structures of unknown or uncertain function. Computational and Structural Biotechnology Journal, 2015, 13, 182-191.	4.1	77
3	Characterization of Escherichia coli Translesion Synthesis Polymerases and Their Accessory Factors. Methods in Enzymology, 2006, 408, 318-340.	1.0	46
4	<i>Escherichia coli</i> Processivity Clamp β from DNA Polymerase III Is Dynamic in Solution. Biochemistry, 2011, 50, 5958-5968.	2.5	40
5	Throwing Away the Cookbook: Implementing Course-Based Undergraduate Research Experiences (CUREs) in Chemistry. ACS Symposium Series, 2017, , 33-63.	0.5	37
6	Two processivity clamp interactions differentially alter the dual activities of UmuC. Molecular Microbiology, 2006, 59, 460-474.	2.5	36
7	Distinct Double- and Single-Stranded DNA Binding of <i>E. coli</i> Replicative DNA Polymerase III α Subunit. ACS Chemical Biology, 2008, 3, 577-587.	3.4	32
8	A Tale of Two Isomerases: Compact versus Extended Active Sites in Ketosteroid Isomerase and Phosphoglucose Isomerase. Biochemistry, 2011, 50, 9283-9295.	2.5	32
9	Conformational Analysis of Processivity Clamps in Solution Demonstrates that Tertiary Structure Does Not Correlate with Protein Dynamics. Structure, 2014, 22, 572-581.	3.3	30
10	Progress against <i>Escherichia coli</i> with the Oxazolidinone Class of Antibacterials: Test Case for a General Approach To Improving Whole-Cell Gram-Negative Activity. ACS Infectious Diseases, 2016, 2, 405-426.	3.8	29
11	Mammalian DNA Polymerase Kappa Activity and Specificity. Molecules, 2019, 24, 2805.	3.8	28
12	Engineering Polymerases for New Functions. Trends in Biotechnology, 2019, 37, 1091-1103.	9.3	28
13	Multiple Strategies for Translesion Synthesis in Bacteria. Cells, 2012, 1, 799-831.	4.1	25
14	A Non-cleavable UmuD Variant That Acts as a UmuD′ Mimic. Journal of Biological Chemistry, 2006, 281, 9633-9640.	3.4	24
15	Escherichia coli Y family DNA polymerases. Frontiers in Bioscience - Landmark, 2011, 16, 3164.	3.0	24
16	Cryptocaryol Structure–Activity Relationship Study of Cancer Cell Cytotoxicity and Ability to Stabilize PDCD4. ACS Medicinal Chemistry Letters, 2014, 5, 522-526.	2.8	23
17	Prediction of distal residue participation in enzyme catalysis. Protein Science, 2015, 24, 762-778.	7.6	23
18	Multiprotein <i>E. coli</i> SSB–ssDNA complex shows both stable binding and rapid dissociation due to interprotein interactions. Nucleic Acids Research, 2021, 49, 1532-1549.	14.5	22

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19	Conformational Dynamics of the Escherichia coli DNA Polymerase Manager Proteins UmuD and UmuD′. Journal of Molecular Biology, 2010, 398, 40-53.	4.2	20
20	Effects of non atalytic, distal amino acid residues on activity of <i>E. coli</i> DinB (DNA polymerase) Tj ETQqC	0.0 _{.1g} BT	Oyerlock 10
21	Singleâ€molecule mechanochemical characterization of E. coli pol III core catalytic activity. Protein Science, 2017, 26, 1413-1426.	7.6	20
22	Steric Gate Variants of UmuC Confer UV Hypersensitivity on <i>Escherichia coli</i> . Journal of Bacteriology, 2009, 191, 4815-4823.	2.2	18
23	Discrimination against major groove adducts by Y-family polymerases of the DinB subfamily. DNA Repair, 2013, 12, 713-722.	2.8	18
24	Characterization of Novel Alleles of the <i>Escherichia coli umuDC</i> Genes Identifies Additional Interaction Sites of UmuC with the Beta Clamp. Journal of Bacteriology, 2009, 191, 5910-5920.	2.2	16
25	Prediction of Active Site and Distal Residues in <i>E. coli</i> DNA Polymerase III alpha Polymerase Activity. Biochemistry, 2018, 57, 1063-1072.	2.5	16
26	The Roles of UmuD in Regulating Mutagenesis. Journal of Nucleic Acids, 2010, 2010, 1-12.	1.2	15
27	Steric gate residues of Y-family DNA polymerases DinB and pol kappa are crucial for dNTP-induced conformational change. DNA Repair, 2015, 29, 65-73.	2.8	15
28	Identification of the Dimer Exchange Interface of the Bacterial DNA Damage Response Protein UmuD. Biochemistry, 2017, 56, 4773-4785.	2.5	15
29	Discrimination against the Cytosine Analog tC by Escherichia coli DNA Polymerase IV DinB. Journal of Molecular Biology, 2011, 409, 89-100.	4.2	14
30	Selective disruption of the DNA polymerase III Â-Â complex by the umuD gene products. Nucleic Acids Research, 2012, 40, 5511-5522.	14.5	14
31	The Dimeric SOS Mutagenesis Protein UmuD Is Active as a Monomer. Journal of Biological Chemistry, 2011, 286, 3607-3617.	3.4	13
32	Structure activity relationship study of mezzettiasides natural products and their four new	3.4	13

32	disaccharide analogues for anticancer/antibacterial activity. MedChemComm, 2014, 5, 1138-1142.	3.4	13
33	Compound design guidelines for evading the efflux and permeation barriers of Escherichia coli with the oxazolidinone class of antibacterials: Test case for a general approach to improving whole cell Gram-negative activity. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 5310-5321.	2.2	13
34	Characterization of Escherichia coli UmuC Active-Site Loops Identifies Variants That Confer UV Hypersensitivity. Journal of Bacteriology, 2011, 193, 5400-5411.	2.2	12
35	Noncognate <scp>DNA</scp> damage prevents the formation of the active conformation of the Yâ€family <scp>DNA</scp> polymerases DinB and <scp>DNA</scp> polymerase κ. FEBS Journal, 2015, 282, 2646-2660.	4.7	12
36	Dynamics of the E.Âcoli β-Clamp Dimer Interface and Its Influence on DNA Loading. Biophysical Journal, 2019, 117, 587-601.	0.5	12

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37	Crystal structure of a metalâ€dependent phosphoesterase (YP_910028.1) from <i>Bifidobacterium adolescentis</i> : Computational prediction and experimental validation of phosphoesterase activity. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2146-2160.	2.6	11
38	Visualizing the Nonhomogeneous Structure of RAD51 Filaments Using Nanofluidic Channels. Langmuir, 2016, 32, 8403-8412.	3.5	11
39	Dimer exchange and cleavage specificity of the DNA damage response protein UmuD. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 611-620.	2.3	10
40	Polymerase manager protein UmuD directly regulates Escherichia coli DNA polymerase III Â binding to ssDNA. Nucleic Acids Research, 2013, 41, 8959-8968.	14.5	9
41	Local structure based method for prediction of the biochemical function of proteins: Applications to glycoside hydrolases. Methods, 2016, 93, 51-63.	3.8	9
42	Functional classification of protein structures by local structure matching in graph representation. Protein Science, 2018, 27, 1125-1135.	7.6	8
43	Characterization of Nine Cancer-Associated Variants in Human DNA Polymerase κ. Chemical Research in Toxicology, 2018, 31, 697-711.	3.3	8
44	Electron spin labeling reveals the highly dynamic N-terminal arms of the SOS mutagenesis protein UmuD. Molecular BioSystems, 2011, 7, 3183.	2.9	7
45	The response of Escherichia coli to the alkylating agents chloroacetaldehyde and styrene oxide. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2019, 840, 1-10.	1.7	7
46	Versatile separation of nucleotides from bacterial cell lysates using strong anion exchange chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2022, 1188, 123044.	2.3	6
47	Functional Characterization of Structural Genomics Proteins in the Crotonase Superfamily. ACS Chemical Biology, 2022, 17, 395-403.	3.4	6
48	Novel Mobile Phase to Control Charge States and Metal Adducts in the LC/MS for mRNA Characterization Assays. ACS Omega, 2022, 7, 22181-22191.	3.5	6
49	Point mutations in Escherichia coli DNA pol V that confer resistance to non-cognate DNA damage also alter protein–protein interactions. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2015, 780, 1-14.	1.0	5
50	Human Y-Family DNA Polymerase κ Is More Tolerant to Changes in Its Active Site Loop than Its Ortholog Escherichia coli DinB. Chemical Research in Toxicology, 2017, 30, 2002-2012.	3.3	5
51	Research skills and ethics: the 20-year evolution of a professional development graduate course. Analytical and Bioanalytical Chemistry, 2017, 409, 859-862.	3.7	4
52	Probing remote residues important for catalysis in Escherichia coli ornithine transcarbamoylase. PLoS ONE, 2020, 15, e0228487.	2.5	4
53	Complete enzymatic digestion of double-stranded RNA to nucleosides enables accurate quantification of dsRNA. Analytical Methods, 2021, 13, 179-185.	2.7	3
54	Polymerase Switching in Response to DNA Damage. Biological and Medical Physics Series, 2010, , 241-292.	0.4	3

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55	Jettison-MS of Nucleic Acid Species. Journal of the American Society for Mass Spectrometry, 2020, 31, 1641-1646.	2.8	2
56	DNA Adductomics by mass tag prelabeling. Rapid Communications in Mass Spectrometry, 2021, 35, e9095.	1.5	2
57	Adapting Undergraduate Research to Remote Work to Increase Engagement. The Biophysicist, 2021, 2, 28-32.	0.3	2
58	Altering the N-terminal arms of the polymerase manager protein UmuD modulates protein interactions. PLoS ONE, 2017, 12, e0173388.	2.5	2
59	Song: SOS (To the Tune of ABBA's "SOSâ€). Biochemistry and Molecular Biology Education, 2009, 37, 316-316.	1.2	1
60	NMR resonance assignments for the N-terminal domain of the δ subunit of the E. coli γ clamp loader complex. Biomolecular NMR Assignments, 2017, 11, 169-173.	0.8	1
61	DNA Polymerases: From Molecular Mechanisms to Human Disease, a Special Issue. Chemical Research in Toxicology, 2017, 30, 1921-1921.	3.3	1
62	Investigation of the Mechanism of Action of Oxazolidinones. FASEB Journal, 2015, 29, 575.10.	0.5	1
63	ILV methyl NMR resonance assignments of the 81ÂkDa E. coli β-clamp. Biomolecular NMR Assignments, 0, ,	0.8	1
64	A Professional Development Handbook for New Faculty. ACS Symposium Series, 2017, , 13-21.	0.5	0
65	DNA repair UmuDC Lesion Bypass DNA Polymerase V. , 2021, , 334-344.		0
66	DNA Recognition/Processing DNA Polymerase III, Bacterial. , 2021, , 460-471.		0
67	NMR resonance assignments for the nucleotide binding domains of the E. coli clamp loader complex γ subunit. Biomolecular NMR Assignments, 2021, 15, 281-285.	0.8	Ο
68	Identification, Characterization and Drug Discovery for Novel Target Sites for SARSâ€CoVâ€⊋ Proteins. FASEB Journal, 2021, 35, .	0.5	0
69	Division of Chemical Toxicology Program at the American Chemical Society National Meeting: Celebrating 25 Years!. Chemical Research in Toxicology, 2021, 34, 2167-2168.	3.3	Ο
70	A Nonâ€cleavable UmuD variant that acts as a UmuD' mimic. FASEB Journal, 2006, 20, LB55.	0.5	0
71	Active site mutations in the Y family DNA polymerase UmuC cause hypersensitivity to UV light and are dominant negative. FASEB Journal, 2007, 21, A659.	0.5	0
72	Steric Gate Variants in a Y family DNA Polymerase Confer UVâ€Hypersensitivity. FASEB Journal, 2008, 22, 990.3.	0.5	0

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73	Dynamics of the polymerase manager protein UmuD: DNA damage tolerance in E. coli. FASEB Journal, 2008, 22, 591.4.	0.5	0
74	Regulation of DNA damage responses by the polymerase manager proteins UmuD and UmuD′. FASEB Journal, 2009, 23, 837.1.	0.5	0
75	Evidence for multiple active forms of the DNA damage response protein UmuD. FASEB Journal, 2010, 24, 875.4.	0.5	0
76	DNA damage response protein UmuD displays conformational dynamics. FASEB Journal, 2010, 24, 880.2.	0.5	0
77	Discrimination against the Fluorescent Cytosine Analog tC by Escherichia coli DNA Polymerase IV DinB. FASEB Journal, 2011, 25, 880.11.	0.5	0
78	Identification of critical residues in DNA polymerase III alpha through protein engineering. FASEB Journal, 2011, 25, 880.4.	0.5	0
79	Conformational and dynamic characterization of the <i>Escherichia coli</i> DNA polymerase III beta processivity clamp. FASEB Journal, 2011, 25, 880.2.	0.5	Ο
80	E. coli UmuD conformational dynamics in response to DNA damage. FASEB Journal, 2011, 25, 500.11.	0.5	0
81	Investigating the interaction between the alpha subunit of DNA polymerase III and UmuD. FASEB Journal, 2011, 25, 880.9.	0.5	Ο
82	Point mutations in Escherichia coli DNA pol V that confer resistance to nonâ€cognate DNA damage. FASEB Journal, 2012, 26, 539.14.	0.5	0
83	The Escherichia coli SOSâ€induced umuD gene products interact with singleâ€stranded DNA binding protein. FASEB Journal, 2012, 26, .	0.5	0
84	Multiple forms of the E. coli SOS response protein UmuD. FASEB Journal, 2012, 26, 539.7.	0.5	0
85	Successful computational prediction of residues important for function in DNA polymerase III alpha subunit. FASEB Journal, 2012, 26, 739.1.	0.5	Ο
86	Point mutations in Escherichia coli DNA pol V that confer resistance to nonâ€cognate DNA damage. FASEB Journal, 2013, 27, 758.2.	0.5	0
87	Conformational analysis of processivity clamps demonstrates that tertiary structure does not correlate with structural dynamics. FASEB Journal, 2013, 27, 541.1.	0.5	Ο
88	UmuD participates in a primitive DNA damage checkpoint by interacting with DNA pol III α and SSB. FASEB Journal, 2013, 27, 538.3.	0.5	0
89	Successful computational prediction of active site and distal residues essential for function in DNA polymerase III alpha subunit. FASEB Journal, 2013, 27, 541.3.	0.5	0
90	Computational prediction and validation of putative ketosteroid isomerase (KSI) structural genomics proteins. FASEB Journal, 2013, 27, 811.5.	0.5	0

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91	Use of FRET to Study Dynamics of DNA Replication. , 2014, , 95-111.		0
92	Remote Residues Affect Stability of Ornithine Transcarbamylase. FASEB Journal, 2015, 29, 572.29.	0.5	0
93	Specificity and Activity of Yâ \in family DNA Polymerases DinB and Pol Kappa. FASEB Journal, 2015, 29, .	0.5	Ο
94	Nonâ€cognate DNA damage prevents formation of active conformation of Yâ€family DNA polymerases DinB and pol kappa. FASEB Journal, 2015, 29, 561.8.	0.5	0
95	Characterization of the Nâ€ŧerminal Arms of the Polymerase Manager Protein UmuD. FASEB Journal, 2015, 29, 561.10.	0.5	0
96	Expression and purification of putative Yâ€family polymerase DinB from Sinorhizobium meliloti. FASEB Journal, 2015, 29, 561.4.	0.5	0
97	Directed Evolution of DinB in Escherichia coli by Hydroxylamine Mutagenesis and UV Selection. FASEB Journal, 2015, 29, 560.5.	0.5	0
98	Functional Characterization of Structural Genomics Proteins in the Crotonase Superfamily. FASEB Journal, 2015, 29, 573.18.	0.5	0
99	The LexAâ€regulated gene ybfE plays a role in DNA metabolism in E. coli. FASEB Journal, 2018, 32, .	0.5	0
100	Probing the role of distal residues in DinB and Pol Kappa in the extension step of DNA damage bypass. FASEB Journal, 2018, 32, 646.3.	0.5	0
101	Understanding How Distal Residues Play a Role in Parkin Activity. FASEB Journal, 2018, 32, 654.7.	0.5	0
102	Electrostatic interactions in natural enzymes: What can we learn for enzyme design?. FASEB Journal, 2018, 32, 655.26.	0.5	0
103	Thinking Outside the Informatics Box: Computed Chemical Properties for Protein Function Annotation. FASEB Journal, 2019, 33, 473.5.	0.5	0
104	Characterizing the conformational dynamics for DNA loading of the Escherichia coli DNA polymerase III subunit beta clamp. FASEB Journal, 2019, 33, 776.4.	0.5	0
105	Stereoselective Synthesis of $\hat{1}^2$ -Glycinamide Ribonucleotide. Molecules, 2022, 27, 2528.	3.8	0