Nicholas E Dixon

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5247748/publications.pdf

Version: 2024-02-01

200 papers	11,029 citations	23567 58 h-index	40979 93 g-index
217 all docs	217 docs citations	217 times ranked	8104 citing authors

#	Article	IF	Citations
1	Jack bean urease (EC 3.5.1.5). Metalloenzyme. Simple biological role for nickel. Journal of the American Chemical Society, 1975, 97, 4131-4133.	13.7	771
2	Synthesis and properties of crosslinked recombinant pro-resilin. Nature, 2005, 437, 999-1002.	27.8	496
3	A universal protein-protein interaction motif in the eubacterial DNA replication and repair systems. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11627-11632.	7.1	293
4	Jack bean urease (EC 3.5.1.5). V. On the mechanism of action of urease on urea, formamide, acetamide, N-methylurea, and related compounds. Canadian Journal of Biochemistry, 1980, 58, 1335-1344.	1.4	219
5	Isolation and nucleotide sequence of the hmp gene that encodes a haemoglobin-like protein in Escherichia coli K-12. Molecular Genetics and Genomics, 1991, 226-226, 49-58.	2.4	191
6	Protein HU in the enzymatic replication of the chromosomal origin of Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 424-428.	7.1	184
7	Structure and mechanism of a proline-specific aminopeptidase from Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3472-3477.	7.1	180
8	Interaction of theEscherichia coliReplication Terminator Protein (Tus) with DNA:Â A Model Derived from DNA-Binding Studies of Mutant Proteins by Surface Plasmon Resonanceâ€. Biochemistry, 2000, 39, 11989-11999.	2.5	154
9	Nanometer-Scale Distance Measurements in Proteins Using Gd³⁺ Spin Labeling. Journal of the American Chemical Society, 2010, 132, 9040-9048.	13.7	143
10	A Structural Model for the Escherichia coli DnaB Helicase Based on Electron Microscopy Data. Journal of Structural Biology, 1995, 114, 167-176.	2.8	142
11	Replication Termination in Escherichia coli : Structure and Antihelicase Activity of the Tus- Ter Complex. Microbiology and Molecular Biology Reviews, 2005, 69, 501-526.	6.6	142
12	Structural Basis for Proofreading during Replication of the Escherichia coli Chromosome. Structure, 2002, 10, 535-546.	3.3	137
13	Jack bean urease (EC 3.5.1.5). IV. The molecular size and the mechanism of inhibition by hydroxamic acids. Spectrophotometric titration of enzymes with reversible inhibitors. Canadian Journal of Biochemistry, 1980, 58, 1323-1334.	1.4	136
14	Single-molecule studies of fork dynamics in Escherichia coli DNA replication. Nature Structural and Molecular Biology, 2008, 15, 170-176.	8.2	136
15	Chromium(V)-induced cleavage of DNA: are chromium(V) complexes the active carcinogens in chromium(VI)-induced cancers?. Chemical Research in Toxicology, 1989, 2, 227-229.	3.3	131
16	Modified bacteriophage lambda promoter vectors for overproduction of proteins in Escherichia coli. Gene, 1990, 87, 123-126.	2.2	131
17	Lanthanide Labeling Offers Fast NMR Approach to 3D Structure Determinations of Proteinâ^'Protein Complexes. Journal of the American Chemical Society, 2006, 128, 3696-3702.	13.7	125
18	NMR Spectroscopic Assignment of Backbone and Sideâ€Chain Protons in Fully Protonated Proteins: Microcrystals, Sedimented Assemblies, and Amyloid Fibrils. Angewandte Chemie - International Edition, 2016, 55, 15504-15509.	13.8	116

#	Article	IF	Citations
19	A Molecular Mousetrap Determines Polarity of Termination of DNA Replication in E. coli. Cell, 2006, 125, 1309-1319.	28.9	114
20	Jack bean urease (EC 3.5.1.5). III. The involvement of active-site nickel ion in inhibition by Î²-mercaptoethanol, phosphoramidate, and fluoride. Canadian Journal of Biochemistry, 1980, 58, 481-488.	1.4	113
21	Inhibition of jack bean urease (EC 3.5.1.5) by acetohydroxamic acid and by phosphoramidate. Equivalent weight for urease. Journal of the American Chemical Society, 1975, 97, 4130-4131.	13.7	107
22	Crystal Structure ofEscherichia coliQOR Quinone Oxidoreductase Complexed with NADPH. Journal of Molecular Biology, 1995, 249, 785-799.	4.2	107
23	Single-molecule visualization of fast polymerase turnover in the bacterial replisome. ELife, 2017, 6, .	6.0	107
24	Labile (trifluoromethanesulfonato)cobalt(III) amine complexes. Inorganic Chemistry, 1981, 20, 470-476.	4.0	104
25	Architecture and Conservation of the Bacterial DNA Replication Machinery, an Underexploited Drug Target. Current Drug Targets, 2012, 13, 352-372.	2.1	104
26	Structure Determination of Proteinâ^'Ligand Complexes by Transferred Paramagnetic Shifts. Journal of the American Chemical Society, 2006, 128, 12910-12916.	13.7	102
27	Real-time single-molecule observation of rolling-circle DNA replication. Nucleic Acids Research, 2009, 37, e27-e27.	14.5	102
28	DNA Replication Is the Target for the Antibacterial Effects of Nonsteroidal Anti-Inflammatory Drugs. Chemistry and Biology, 2014, 21, 481-487.	6.0	102
29	Stable high-copy-number bacteriophage Î» promoter vectors for overproduction of proteins in Escherichia coli. Gene, 1996, 176, 49-53.	2.2	96
30	Backbone Assignment of Fully Protonated Solid Proteins by ¹H Detection and Ultrafast Magicâ€Angleâ€Spinning NMR Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 10756-10759.	13.8	95
31	Replicative DNA Polymerases. Cold Spring Harbor Perspectives in Biology, 2013, 5, a012799-a012799.	5.5	92
32	Metal ions in enzymes using ammonia or amides. Science, 1976, 191, 1144-1150.	12.6	91
33	Optimization of an Escherichia coli system for cell-free synthesis of selectively 15N-labelled proteins for rapid analysis by NMR spectroscopy. FEBS Journal, 2004, 271, 4084-4093.	0.2	87
34	A direct proofreaderâ€“clamp interaction stabilizes the Pol III replicase in the polymerization mode. EMBO Journal, 2013, 32, 1322-1333.	7.8	85
35	Structure of the Escherichia coli signal transducing protein PII. Structure, 1994, 2, 981-990.	3.3	84
36	Fast Structure-Based Assignment of15N HSQC Spectra of Selectively15N-Labeled Paramagnetic Proteins. Journal of the American Chemical Society, 2004, 126, 2963-2970.	13.7	83

#	Article	IF	Citations
37	Site-Specific Labelling of Proteins with a Rigid Lanthanide-Binding Tag. ChemBioChem, 2006, 7, 1599-1604.	2.6	82
38	A Processed Multidomain Mycoplasma hyopneumoniae Adhesin Binds Fibronectin, Plasminogen, and Swine Respiratory Cilia. Journal of Biological Chemistry, 2010, 285, 33971-33978.	3.4	77
39	Improving a Natural Enzyme Activity through Incorporation of Unnatural Amino Acids. Journal of the American Chemical Society, 2011, 133, 326-333.	13.7	77
40	Inhibition of Protein Interactions with the Î²2 Sliding Clamp of Escherichia coli DNA Polymerase III by Peptides from Î²2-Binding Proteins. Biochemistry, 2004, 43, 5661-5671.	2.5	76
41	Mhp182 (P102) binds fibronectin and contributes to the recruitment of plasmin(ogen) to the Mycoplasma hyopneumoniae cell surface. Cellular Microbiology, 2012, 14, 81-94.	2.1	76
42	Polymerase exchange on single DNA molecules reveals processivity clamp control of translesion synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7647-7652.	7.1	76
43	Synthetically versatile (trifluoromethanesulfonato)metal amine complexes. Inorganic Chemistry, 1984, 23, 2940-2947.	4.0	75
44	Proteinâ€Šâ€“â€ŠProtein Interactions in the Eubacterial Replisome. IUBMB Life, 2005, 57, 5-12.	3.4	74
45	Repeat regions R1 and R2 in the P97 paralogue Mhp271 of Mycoplasma hyopneumoniae bind heparin, fibronectin and porcine cilia. Molecular Microbiology, 2010, 78, 444-458.	2.5	74
46	Three-dimensional reconstructions from cryoelectron microscopy images reveal an intimate complex between helicase DnaB and its loading partner DnaC. Structure, 1998, 6, 501-509.	3.3	72
47	Substoichiometric amounts of the molecular chaperones GroEL and GroES prevent thermal denaturation and aggregation of mammalian mitochondrial malate dehydrogenase in vitro.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 2276-2280.	7.1	71
48	The DnaBÂ·DnaC complex: a structure based on dimers assembled around an occluded channel. EMBO Journal, 2001, 20, 1462-1468.	7.8	71
49	Jack bean urease (EC 3.5.1.5). II. The relationship between nickel, enzymatic activity, and the "abnormal" ultraviolet spectrum. The nickel content of jack beans. Canadian Journal of Biochemistry, 1980, 58, 474-480.	1.4	70
50	NMR analysis of in vitro-synthesized proteins without purification: a high-throughput approach. FEBS Letters, 2002, 524, 159-162.	2.8	69
51	Cell-Free Transcription/Translation from PCR-Amplified DNA for High-Throughput NMR Studies. Angewandte Chemie - International Edition, 2007, 46, 3356-3358.	13.8	69
52	The ROQUIN family of proteins localizes to stress granules via the ROQ domain and binds target mRNAs. FEBS Journal, 2010, 277, 2109-2127.	4.7	69
53	Essential Biological Processes of an Emerging Pathogen: DNA Replication, Transcription, and Cell Division in Acinetobacter spp. Microbiology and Molecular Biology Reviews, 2010, 74, 273-297.	6.6	68
54	In Vivo Protein Cyclization Promoted by a Circularly Permuted Synechocystis sp. PCC6803 DnaB Mini-intein. Journal of Biological Chemistry, 2002, 277, 7790-7798.	3.4	66

#	Article	IF	Citations
55	15N-Labelled proteins by cell-free protein synthesis.. FEBS Journal, 2006, 273, 4154-4159.	4.7	66
56	The E. coli DNA Replication Fork. The Enzymes, 2016, 39, 31-88.	1.7	65
57	Flexibility revealed by the 1.85â€…Ã… crystal structure of the Î² sliding-clamp subunit ofEscherichia coliDNA polymerase III. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1192-1199.	2.5	64
58	Translational incorporation of L-3,4-dihydroxyphenylalanine into proteins. FEBS Journal, 2005, 272, 3162-3171.	4.7	64
59	NMR structure of the N-terminal domain of E. coli DnaB helicase: implications for structure rearrangements in the helicase hexamer. Structure, 1999, 7, 681-690.	3.3	62
60	Crystal and Solution Structures of the Helicase-binding Domain of Escherichia coli Primase. Journal of Biological Chemistry, 2005, 280, 11495-11504.	3.4	62
61	Hydrolysis of the 5â€˜-p-Nitrophenyl Ester of TMP by the Proofreading Exonuclease (Îµ) Subunit ofEscherichia coliDNA Polymerase IIIâ€. Biochemistry, 2002, 41, 5266-5275.	2.5	61
62	Defining the Structural Basis of Human Plasminogen Binding by Streptococcal Surface Enolase. Journal of Biological Chemistry, 2009, 284, 17129-17137.	3.4	61
63	Cell-Free Protein Synthesis for Analysis by NMR Spectroscopy. Methods in Molecular Biology, 2008, 426, 257-268.	0.9	60
64	Sequence-Specific and Stereospecific Assignment of Methyl Groups Using Paramagnetic Lanthanides. Journal of the American Chemical Society, 2007, 129, 13749-13757.	13.7	59
65	Roquin binds microRNA-146a and Argonaute2 to regulate microRNA homeostasis. Nature Communications, 2015, 6, 6253.	12.8	59
66	X-ray structure of the signal transduction protein from Escherichia coli at 1.9 Ã…. Acta Crystallographica Section D: Biological Crystallography, 1996, 52, 93-104.	2.5	58
67	In Vitro Plasmid DNA Cleavage by Chromium(V) and -(IV) 2-Hydroxycarboxylato Complexes. Chemical Research in Toxicology, 1999, 12, 371-381.	3.3	57
68	Weak Alignment of Paramagnetic Proteins Warrants Correction for Residual CSA Effects in Measurements of Pseudocontact Shifts. Journal of the American Chemical Society, 2005, 127, 17190-17191.	13.7	56
69	Efficient Ï‡-tensor determination and NH assignment of paramagnetic proteins. Journal of Biomolecular NMR, 2006, 35, 79-87.	2.8	56
70	Amino-acid Type Identification in 15N-HSQC Spectra by Combinatorial Selective 15N-labelling. Journal of Biomolecular NMR, 2006, 34, 13-21.	2.8	55
71	Enriched sources of Escherichia coli replication proteins. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1992, 1132, 17-25.	2.4	54
72	Characterization of Cleavage Events in the Multifunctional Cilium Adhesin Mhp684 (P146) Reveals a Mechanism by Which Mycoplasma hyopneumoniae Regulates Surface Topography. MBio, 2012, 3, .	4.1	54

#	Article	IF	Citations
73	In vitro DNA damage and mutations induced by a macrocyclic tetraamide chromium(V) complex: implications for the role of Cr(V) peptide complexes in chromium-induced cancers. Carcinogenesis, 1993, 14, 1875-1880.	2.8	53
74	Disproportionation and Nuclease Activity of Bis[2-ethyl-2-hydroxybutanoato(2â^')]oxochromate(V) in Neutral Aqueous Solutions1. Inorganic Chemistry, 2000, 39, 385-395.	4.0	53
75	The unstructured C-terminus of the Ï„ subunit of Escherichia coli DNA polymerase III holoenzyme is the site of interaction with the Î± subunit. Nucleic Acids Research, 2007, 35, 2813-2824.	14.5	53
76	Bound or Free: Interaction of the C-Terminal Domain ofEscherichia coliSingle-Stranded DNA-Binding Protein (SSB) with the Tetrameric Core of SSB. Biochemistry, 2014, 53, 1925-1934.	2.5	52
77	Use of electrospray ionization mass spectrometry to study binding interactions between a replication terminator protein and DNA. Protein Science, 2002, 11, 147-157.	7.6	52
78	Suppression by vanadium(IV) of chromium(V)-mediated DNA cleavage and chromium(VI/V)-induced mutagenesis. Synthesis and crystal structure of the vanadium(IV) complex (NH4)[V(O){HOC(Et)2COO}{OC(Et)2COO}]. Inorganic Chemistry, 1992, 31, 4906-4908.	4.0	51
79	DNA hydrolysis by stable metal complexes. Chemical Communications, 1996, , 1287.	4.1	51
80	Recycling of single-stranded DNA-binding protein by the bacterial replisome. Nucleic Acids Research, 2019, 47, 4111-4123.	14.5	51
81	Helicase binding to DnaI exposes a cryptic DNA-binding site during helicase loading in Bacillus subtilis. Nucleic Acids Research, 2006, 34, 5247-5258.	14.5	50
82	High-yield cell-free protein synthesis for site-specific incorporation of unnatural amino acids at two sites. Biochemical and Biophysical Research Communications, 2012, 418, 652-656.	2.1	49
83	Discovery of Lead Compounds Targeting the Bacterial Sliding Clamp Using a Fragment-Based Approach. Journal of Medicinal Chemistry, 2014, 57, 2799-2806.	6.4	49
84	Characterization of Gibberellin Receptor Mutants of Barley (Hordeum vulgare L.). Molecular Plant, 2008, 1, 285-294.	8.3	47
85	Mhp107 Is a Member of the Multifunctional Adhesin Family of Mycoplasma hyopneumoniae. Journal of Biological Chemistry, 2011, 286, 10097-10104.	3.4	46
86	Nuclease dead Cas9 is a programmable roadblock for DNA replication. Scientific Reports, 2019, 9, 13292.	3.3	45
87	Chromium(VI) Reduction by Catechol(amine)s Results in DNA Cleavage in Vitro:â€‰ Relevance to Chromium Genotoxicity. Chemical Research in Toxicology, 2001, 14, 500-510.	3.3	44
88	Protein residue linking in a single spectrum for magic-angle spinning NMR assignment. Journal of Biomolecular NMR, 2015, 62, 253-261.	2.8	44
89	(Trifluoromethanesulfonato-O)pentaammine complexes: versatile synthetic intermediates. Inorganic Chemistry, 1983, 22, 846-847.	4.0	43
90	Stabilization of Native Protein Fold by Intein-Mediated Covalent Cyclization. Journal of Molecular Biology, 2005, 346, 1095-1108.	4.2	42

#	Article	IF	Citations
91	E. coliDNA replication in the absence of free Î² clamps. EMBO Journal, 2011, 30, 1830-1840.	7.8	42
92	Replisome speed determines the efficiency of the Tusâ˜Ter replication termination barrier. Nature, 2015, 525, 394-398.	27.8	42
93	An investigation into the interactions of gold nanoparticles and anti-arthritic drugs with macrophages, and their reactivity towards thioredoxin reductase. Journal of Inorganic Biochemistry, 2015, 142, 28-38.	3.5	42
94	Kinetic and Crystallographic Analysis of MutantEscherichia coliAminopeptidase P:Â Insights into Substrate Recognition and the Mechanism of Catalysisâ€. Biochemistry, 2006, 45, 964-975.	2.5	41
95	Structure and function of a spectrin-like regulator of bacterial cytokinesis. Nature Communications, 2014, 5, 5421.	12.8	41
96	Base hydrolysis of pentaamminecobalt(II) complexes of urea, dimethyl sulfoxide and trimethyl phosphate. Inorganic Chemistry, 1982, 21, 688-697.	4.0	40
97	Jack bean urease VII. Light scattering and nickel(II) spectrum Thiolate â†' nickel(II) charge-transfer peaks in the spectrum of the Î²-mercaptoethanol-urease complex. BBA - Proteins and Proteomics, 1983, 744, 219-229.	2.1	40
98	Jack bean urease (EC 3.5.1.5). I. A simple dry ashing procedure for the microdetermination of trace metals in proteins. The nickel content of urease. Canadian Journal of Biochemistry, 1980, 58, 469-473.	1.4	39
99	Base-catalyzed hydration of cobalt(III)-coordinated dimethylcyanamide and linkage isomerization of the derived N-bound dimethylurea complex. Inorganic Chemistry, 1983, 22, 4038-4046.	4.0	39
100	Spectroscopic identification of a dinuclear metal centre in manganese(II)-activated aminopeptidase P from Escherichia coli: implications for human prolidase. Journal of Biological Inorganic Chemistry, 1998, 3, 470-483.	2.6	39
101	Solution structure of Domains IVa and V of the Ï„ subunit of Escherichia coli DNA polymerase III and interaction with the Î± subunit. Nucleic Acids Research, 2007, 35, 2825-2832.	14.5	39
102	Binding Inhibitors of the Bacterial Sliding Clamp by Design. Journal of Medicinal Chemistry, 2011, 54, 4831-4838.	6.4	38
103	Strand separation establishes a sustained lock at the Tusâ€“Ter replication fork barrier. Nature Chemical Biology, 2015, 11, 579-585.	8.0	38
104	Molecular cloning of the phosphate (inorganic) transport (pit) gene of Escherichia coli K12. Molecular Genetics and Genomics, 1986, 204, 477-484.	2.4	37
105	Intramolecular binding mode of the C-terminus ofEscherichia colisingle-stranded DNA binding protein determined by nuclear magnetic resonance spectroscopy. Nucleic Acids Research, 2014, 42, 2750-2757.	14.5	36
106	Cell-free synthesis of 15 N-labeled proteins for NMR studies. IUBMB Life, 2005, 57, 615-622.	3.4	35
107	The 92-min region of the Escherichia coli chromosome: location and cloning of the ubi and alr. Gene, 1993, 129, 9-16.	2.2	34
108	Crystal structure of cytoplasmic Escherichia coli peptidyl-prolyl isomerase: evidence for decreased mobility of loops upon complexation. Journal of Molecular Biology, 1997, 271, 258-265.	4.2	34

#	Article	IF	Citations
109	Escherichia coli Single-Stranded DNA-Binding Protein: NanoESI-MS Studies of Salt-Modulated Subunit Exchange and DNA Binding Transactions. Journal of the American Society for Mass Spectrometry, 2013, 24, 274-285.	2.8	34
110	Proofreading exonuclease on a tether: the complex between the E. coli DNA polymerase III subunits Î±, Îµ, Î¸ and Î² reveals a highly flexible arrangement of the proofreading domain. Nucleic Acids Research, 2013, 41, 5354-5367.	14.5	34
111	DNA Interactions and Bacterial Mutagenicity of Some Chromium(III) Imine Complexes and their Chromium(V) Analogues. Evidence for Chromium(V) Intermediates in the Genotoxicity of Chromium(III). Australian Journal of Chemistry, 2000, 53, 411.	0.9	33
112	Disproportionation of a Model Chromium(V) Complex Causes Extensive Chromium(III)-DNA Binding in Vitro. Chemical Research in Toxicology, 2001, 14, 946-950.	3.3	32
113	Conservation of Eubacterial Replicases. IUBMB Life, 2005, 57, 413-419.	3.4	32
114	Cell-free Protein Synthesis in an Autoinduction System for NMR Studies of Proteinâ€“Protein Interactions. Journal of Biomolecular NMR, 2005, 32, 235-241.	2.8	32
115	Exchange betweenEscherichia colipolymerases II and III on a processivity clamp. Nucleic Acids Research, 2016, 44, 1681-1690.	14.5	32
116	Bacterial replisomes. Current Opinion in Structural Biology, 2018, 53, 159-168.	5.7	32
117	Escherichia coliPIIprotein: purification, crystallization and oligomeric structure. FEBS Letters, 1994, 337, 255-258.	2.8	30
118	Synthesis, linkage isomerism, and ligand reactivity of (urea)pentaamminerhodium(III) complexes. Journal of the American Chemical Society, 1983, 105, 5347-5353.	13.7	28
119	Bacterial Sliding Clamp Inhibitors that Mimic the Sequential Binding Mechanism of Endogenous Linear Motifs. Journal of Medicinal Chemistry, 2015, 58, 4693-4702.	6.4	28
120	Weak and Transient Protein Interactions Determined by Solidâ€State NMR. Angewandte Chemie - International Edition, 2016, 55, 6638-6641.	13.8	28
121	pH-controlled quaternary states of hexameric DnaB helicase. Journal of Molecular Biology, 2000, 303, 383-393.	4.2	27
122	The proofreading exonuclease subunit Îµ of Escherichia coli DNA polymerase III is tethered to the polymerase subunit Î± via a flexible linker. Nucleic Acids Research, 2008, 36, 5074-5082.	14.5	27
123	Ultrasensitive detection of antibodies using a new Tusâ€“Ter-lock immunoPCR system. Molecular BioSystems, 2010, 6, 1173.	2.9	27
124	Structure of the Î¸ Subunit of Escherichia coli DNA Polymerase III in Complex with the Îµ Subunit. Journal of Bacteriology, 2006, 188, 4464-4473.	2.2	26
125	Probing molecular choreography through single-molecule biochemistry. Nature Structural and Molecular Biology, 2015, 22, 948-952.	8.2	26
126	Interaction of substituted cobalt(III) cage complexes with DNAâ€Šâ€. Dalton Transactions RSC, 2000, , 2085-2089.	2.3	25

#	Article	IF	Citations
127	Monomeric solution structure of the helicase-binding domain of Escherichia coli DnaG primase. FEBS Journal, 2006, 273, 4997-5009.	4.7	25
128	Site-specific covalent attachment of DNA to proteins using a photoactivatable Tusâ€“Ter complex. Chemical Communications, 2009, , 3050.	4.1	25
129	Application of electrospray ionization mass spectrometry to study the hydrophobic interaction between the Îµ and Î¸ subunits of DNA polymerase III. Protein Science, 2008, 13, 2878-2887.	7.6	24
130	Use of electrospray ionization mass spectrometry to study binding interactions between a replication terminator protein and DNA. Protein Science, 2002, 11, 147-157.	7.6	24
131	Genetic Encoding of para-Pentafluorosulfanyl Phenylalanine: A Highly Hydrophobic and Strongly Electronegative Group for Stable Protein Interactions. Journal of the American Chemical Society, 2020, 142, 17277-17281.	13.7	22
132	Strand switching of a replicative DNA helicase promoted by the E. coli primosome. Cell, 1993, 74, 713-722.	28.9	21
133	Precise Limits of the N-Terminal Domain of DnaB Helicase Determined by NMR Spectroscopy. Biochemical and Biophysical Research Communications, 1997, 231, 126-130.	2.1	21
134	Trifluoromethanesulfonates and Trifluoromethanesulfonato-O Complexes. Inorganic Syntheses, 2007, , 70-76.	0.3	21
135	Purification of the phoU protein, a negative regulator of the pho regulon of Escherichia coli K-12. Journal of Bacteriology, 1986, 168, 631-635.	2.2	20
136	Integron-associated Mobile Gene Cassettes Code for Folded Proteins: The Structure of Bal32a, a New Member of the Adaptable Î±+Î² Barrel Family. Journal of Molecular Biology, 2005, 346, 1229-1241.	4.2	20
137	A Single Subunit Directs the Assembly of the Escherichia coli DNA Sliding Clamp Loader. Structure, 2010, 18, 285-292.	3.3	20
138	Distribution of the flavohaemoglobin, HMP, between periplasm and cytoplasm inEscherichia coli. FEMS Microbiology Letters, 1995, 125, 219-224.	1.8	19
139	Design of DNA rolling-circle templates with controlled fork topology to study mechanisms of DNA replication. Analytical Biochemistry, 2018, 557, 42-45.	2.4	19
140	Measurement of dissociation constants of high-molecular weight proteinâ€“protein complexes by transferred 15N-relaxation. Journal of Biomolecular NMR, 2007, 38, 65-72.	2.8	18
141	Effect of protein stabilization on charge state distribution in positive- and negative-ion electrospray ionization mass spectra. Journal of the American Society for Mass Spectrometry, 2007, 18, 1605-1611.	2.8	18
142	Cell-free synthesis and combinatorial selective 15N-labeling of the cytotoxic protein amoebapore A from Entamoeba histolytica. Protein Expression and Purification, 2009, 68, 22-27.	1.3	18
143	Two mechanisms coordinate replication termination by theEscherichia coliTusâ€“Tercomplex. Nucleic Acids Research, 2015, 43, 5924-5935.	14.5	18
144	Zuordnung der RÃ¼ckgratâ€•und Seitenkettenâ€Protonen in vollstÃndig protonierten Proteinen durch FestkÃ¶rperâ€NMRâ€Spektroskopie: Mikrokristalle, Sedimente und Amyloidfibrillen. Angewandte Chemie, 2016, 128, 15730-15735.	2.0	18

#	Article	IF	Citations
145	A Primase-Induced Conformational Switch Controls the Stability of the Bacterial Replisome. Molecular Cell, 2020, 79, 140-154.e7.	9.7	18
146	DnaB helicase dynamics in bacterial DNA replication resolved by single-molecule studies. Nucleic Acids Research, 2021, 49, 6804-6816.	14.5	18
147	NMR solution structure of the Î¸ subunit of DNA polymerase III from Escherichia coli. Protein Science, 2000, 9, 721-733.	7.6	17
148	A gatekeeping function of the replicative polymerase controls pathway choice in the resolution of lesion-stalled replisomes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25591-25601.	7.1	17
149	NMR Detection of Protein15N Spins near Paramagnetic Lanthanide Ions. Journal of the American Chemical Society, 2007, 129, 462-463.	13.7	16
150	A novel zinc-binding fold in the helicase interaction domain of the Bacillus subtilis DnaI helicase loader. Nucleic Acids Research, 2009, 37, 2395-2404.	14.5	16
151	Rational Design of a 3₁₀â€Helical PIPâ€Box Mimetic Targeting PCNA, the Human Sliding Clamp. Chemistry - A European Journal, 2018, 24, 11325-11331.	3.3	16
152	Development of a single-stranded DNA-binding protein fluorescent fusion toolbox. Nucleic Acids Research, 2020, 48, 6053-6067.	14.5	16
153	Assignment of paramagnetic 15N-HSQC spectra by heteronuclear exchange spectroscopy. Journal of Biomolecular NMR, 2006, 37, 43-51.	2.8	15
154	Prime-time looping. Nature, 2009, 462, 854-855.	27.8	15
155	The symmetry of Escherichia coli cpn60 (GroEL) determined by X-ray crystallography. Journal of Molecular Biology, 1994, 235, 47-52.	4.2	14
156	Preliminary X-Ray Crystallographic and NMR Studies on the Exonuclease Domain of the Ïµ Subunit of Escherichia coli DNA Polymerase III. Journal of Structural Biology, 2000, 131, 164-169.	2.8	14
157	Incorporation of chlorinated analogues of aliphatic amino acids during cell-free protein synthesis. Chemical Communications, 2011, 47, 1839-1841.	4.1	14
158	Loading Dynamics of a Sliding DNA Clamp. Angewandte Chemie - International Edition, 2014, 53, 6768-6771.	13.8	14
159	Weak and Transient Protein Interactions Determined by Solidâ€State NMR. Angewandte Chemie, 2016, 128, 6750-6753.	2.0	14
160	Fragment-Based Discovery of Inhibitors of the Bacterial DnaG-SSB Interaction. Antibiotics, 2018, 7, 14.	3.7	14
161	Dynamics of Proofreading by the E.Âcoli Pol III Replicase. Cell Chemical Biology, 2018, 25, 57-66.e4.	5.2	13
162	What is all this fuss about Tus? Comparison of recent findings from biophysical and biochemical experiments. Critical Reviews in Biochemistry and Molecular Biology, 2018, 53, 49-63.	5.2	13

#	Article	IF	Citations
163	Introduction to Trifluoromethanesulfonates and Trifluoromethanesulfonato-O Complexes. Inorganic Syntheses, 2007, , 243-250.	0.3	12
164	Cobalt(III)-promoted synthesis of .beta.-carboxyaspartic acid. Intramolecular addition of coordinated amide ion to the olefin center in the (3,3-bis(ethoxycarbonyl)-2-propenoato)pentaaminecobalt(III) ion. Journal of the American Chemical Society, 1982, 104, 6716-6725.	13.7	11
165	Expression, purification, crystallization, and NMR studies of the helicase interaction domain of Escherichia coli DnaG primase. Protein Expression and Purification, 2004, 33, 304-310.	1.3	11
166	A Complex Mechanism Determines Polarity of DNA Replication Fork Arrest by the Replication Terminator Complex of Bacillus subtilis. Journal of Biological Chemistry, 2005, 280, 13105-13113.	3.4	11
167	Proteomic dissection of DNA polymerization. Expert Review of Proteomics, 2006, 3, 197-211.	3.0	11
168	Cobalt(III) Amine Complexes with Coordinated Trifluoromethanesulfonate. Inorganic Syntheses, 2007, , 103-107.	0.3	11
169	Crystallization and preliminary X-ray investigation of theEscherichia colimolecular chaperone cpn60 (GroEL). FEBS Letters, 1993, 320, 160-164.	2.8	10
170	Crystallization and Preliminary X-ray Diffraction Studies on a Soluble Escherichia coli Quinone Oxidoreductase. Journal of Molecular Biology, 1994, 240, 501-503.	4.2	10
171	Backbone NMR assignments and secondary structure of the N-terminal domain of DnaB helicase from E. coli. Journal of Biomolecular NMR, 1998, 11, 233-234.	2.8	10
172	Hydrolysis of the 5â€²-p-nitrophenyl ester of TMP by oligoribonucleases (ORN) from Escherichia coli, Mycobacterium smegmatis, and human. Protein Expression and Purification, 2008, 57, 180-187.	1.3	10
173	Chaperonin-encapsulation of proteins for NMR. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 866-871.	2.3	10
174	Structure-activity relationships of pyrazole-4-carbodithioates as antibacterials against methicillinâ€“resistant Staphylococcus aureus. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3526-3528.	2.2	10
175	Synthesis and Applications of Covalent Protein-DNA Conjugates. Australian Journal of Chemistry, 2009, 62, 1328.	0.9	9
176	Crystallization and Low Temperature Diffraction Studies of the DNA Binding Domain of the Single-stranded DNA Binding Protein from Escherichia coli. Journal of Molecular Biology, 1994, 240, 396-399.	4.2	8
177	Multiple oligomeric forms ofEscherichia coli DnaB helicase revealed by electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 132-140.	1.5	8
178	<scp>AtfA</scp>, a new factor in global regulation of transcription in <scp>A</scp>cinetobacter spp. Molecular Microbiology, 2014, 93, 1130-1143.	2.5	6
179	Crystal structures and biochemical characterization of DNA sliding clamps from three Gram-negative bacterial pathogens. Journal of Structural Biology, 2018, 204, 396-405.	2.8	6
180	Mechanism of transcription modulation by the transcription-repair coupling factor. Nucleic Acids Research, 2022, 50, 5688-5712.	14.5	6

#	Article	IF	Citations
181	Erratums: Jack bean urease (EC 3.5.1.5). V. On the mechanism of action of urease on urea, formamide, acetamide, N-methylurea, and related compounds. Canadian Journal of Biochemistry, 1981, 59, 564-564.	1.4	5
182	Molecular cloning and expression of the dihydrofolate reductase (DHFR) gene from adult buffalo fly (Haematobia irritans exigua): effects of antifolates. Insect Molecular Biology, 2003, 12, 173-183.	2.0	5
183	Single-Molecule Insights Into the Dynamics of Replicative Helicases. Frontiers in Molecular Biosciences, 2021, 8, 741718.	3.5	5
184	Cell-free protein synthesis. FEBS Journal, 2006, 273, 4131-4132.	4.7	3
185	Frontispiece: NMR Spectroscopic Assignment of Backbone and Side-Chain Protons in Fully Protonated Proteins: Microcrystals, Sedimented Assemblies, and Amyloid Fibrils. Angewandte Chemie - International Edition, 2016, 55, .	13.8	2
186	Production of long linear DNA substrates with site-specific chemical lesions for single-molecule replisome studies. Methods in Enzymology, 2022, , 299-315.	1.0	2
187	Priming the Engine of DNA Synthesis. Structure, 2012, 20, 1447-1448.	3.3	1
188	Multiple classes and isoforms of the RNA polymerase recycling motor protein HelD. MicrobiologyOpen, 2021, 10, e1251.	3.0	1
189	Internal symmetry of the molecular chaperone cpn60 (GroEL) determined by X-ray crystallography. Acta Crystallographica Section D: Biological Crystallography, 1994, 50, 591-595.	2.5	0
190	2R1415 In vitro expression of various proteins for NMR measurements. Seibutsu Butsuri, 2002, 42, S149.	0.1	0
191	2P001 1F1450 A cell-free system for highly efficient incorporation of unnatural amino acids for studies of protein-protein interactions(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S82.	0.1	0
192	EX1 hydrogenâ€“deuterium exchange in an all-helical protein and its cyclized derivative at neutral pH. International Journal of Mass Spectrometry, 2011, 302, 149-156.	1.5	0
193	Roadblocks on the E.Coli Genome: The Workings of a Molecular Mouse Trap at the Single-Molecule Level. Biophysical Journal, 2014, 106, 230a.	0.5	0
194	Frontispiz: Zuordnung der RÃ¼ckgrat- und Seitenketten-Protonen in vollstÃndig protonierten Proteinen durch FestkÃ¶rper-NMR-Spektroskopie: Mikrokristalle, Sedimente und Amyloidfibrillen. Angewandte Chemie, 2016, 128, .	2.0	0
195	Rational Design of a 310 -Helical PIP-Box Mimetic Targeting PCNA, the Human Sliding Clamp. Chemistry - A European Journal, 2018, 24, 11238-11238.	3.3	0
196	A molecular mousetrap determines polarity of replication fork arrest at Tusâ€•Ter sites in E. coli. FASEB Journal, 2006, 20, A911.	0.5	0
197	Mechanistic Aspects of Termination of E. coli DNA Replication. FASEB Journal, 2008, 22, 111.3.	0.5	0
198	Subunit exchange and DNAâ€binding dynamics of Escherichia coli singleâ€stranded DNA binding protein (SSB). FASEB Journal, 2010, 24, .	0.5	0

#	Article	IF	Citations
199	A New Role for the Proofreader in Bacterial DNA Replication. FASEB Journal, 2012, 26, 739.4.	0.5	0
200	Distribution of the flavohaemoglobin, HMP, between periplasm and cytoplasm in Escherichia coli. FEMS Microbiology Letters, 1995, 125, 219-224.	1.8	0