Robert E London

List of Publications by Citations

208 papers	5,452 citations	42 h-index	57 g-index
213 ext. papers	5,891 ext. citations	6.2 avg, IF	5.48 L-index

#	Paper	IF	Citations
208	Estrogen receptor beta mediates gender differences in ischemia/reperfusion injury. *Journal of Molecular and Cellular Cardiology*, **2005**, 38, 289-97	5.8	181
207	13C labeling in studies of metabolic regulation. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **1988**, 20, 337-383	10.4	121
206	Calculated carbon-13 NMR relaxation parameters for a restricted internal diffusion model. Application to methionine relaxation in dihydrofolate reductase. *Journal of the American Chemical Society*, **1978**, 100, 7159-7165	16.4	103
205	The interpretation of carbon-13 spin-lattice relaxation resulting from ring puckering in proline. *Journal of the American Chemical Society*, **1978**, 100, 2678-2685	16.4	92
204	The structure of the dust mite allergen Der p 7 reveals similarities to innate immune proteins. *Journal of Allergy and Clinical Immunology*, **2010**, 125, 909-917.e4	11.5	89
203	Measurement of cytosolic free magnesium ion concentration by 19F NMR. *Biochemistry*, **1988**, 27, 4041-8	3.2	88
202	The structural basis of XRCC1-mediated DNA repair. *DNA Repair*, **2015**, 30, 90-103	4.3	87
201	Calculation of carbon-13 relaxation times and nuclear Overhauser enhancements in a hydrocarbon chain undergoing gauche-trans isomerism. *Journal of the American Chemical Society*, **1977**, 99, 7765-7776	16.4	84
200	Targeted deletion of thioredoxin-interacting protein regulates cardiac dysfunction in response to pressure overload. *Circulation Research*, **2007**, 101, 1328-38	15.7	83
199	Carbon-13 nuclear magnetic resonance study of protonation of methotrexate and aminopterin bound to dihydrofolate reductase. *Biochemistry*, **1981**, 20, 3972-8	3.2	83
198	ZATT (ZNF451)-mediated resolution of topoisomerase 2 DNA-protein cross-links. *Science*, **2017**, 357, 1412-1416	33.3	76
197	Lactate dehydrogenase C and energy metabolism in mouse sperm. *Biology of Reproduction*, **2011**, 85, 556-64	3.9	76
196	Measurement of Free Ca2+ in Sarcoplasmic Reticulum in Perfused Rabbit Heart Loaded with 1,2-Bis(2-amino-5,6-difluorophenoxy)ethane-N,N,N?,N?-tetraacetic Acid by 19F NMR. *Journal of Biological Chemistry*, **1996**, 271, 7398-7403	5.4	74
195	Protonated state of methotrexate, trimethoprim, and pyrimethamine bound to dihydrofolate reductase. *Archives of Biochemistry and Biophysics*, **1983**, 226, 567-77	4.1	72
194	NMR observability of ATP: preferential depletion of cytosolic ATP during ischemia in perfused rat liver. *Biochemistry*, **1988**, 27, 526-8	3.2	67
193	Preconditioning enhanced glucose uptake is mediated by p38 MAP kinase not by phosphatidylinositol 3-kinase. *Journal of Biological Chemistry*, **2000**, 275, 11981-6	5.4	66
192	Magnetic resonance imaging studies of the brains of anesthetized rats treated with manganese chloride. *Brain Research Bulletin*, **1989**, 23, 229-35	3.9	66

191	Dependence of amino acid side chain 13C shifts on dihedral angle: application to conformational analysis. *Journal of the American Chemical Society*, **2008**, 130, 11097-105	16.4	65
190	NMR solution structure of the focal adhesion targeting domain of focal adhesion kinase in complex with a paxillin LD peptide: evidence for a two-site binding model. *Journal of Biological Chemistry*, **2004**, 279, 8441-51	5.4	63
189	Structure-function studies of DNA polymerase lambda. *DNA Repair*, **2005**, 4, 1358-67	4.3	60
188	13C and 1H nuclear magnetic resonance studies of bradykinin and selected peptide fragments. *Biochemistry*, **1978**, 17, 2270-7	3.2	60
187	Oxidation state of the XRCC1 N-terminal domain regulates DNA polymerase beta binding affinity. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6805-10	11.5	58
186	Photosynthetic preparation and characterization of 13C-labeled carbohydrates in agmenellum quadruplicatum. *Carbohydrate Research*, **1979**, 73, 193-202	2.9	56
185	The novel structure of the cockroach allergen Bla g 1 has implications for allergenicity and exposure assessment. *Journal of Allergy and Clinical Immunology*, **2013**, 132, 1420-6	11.5	54
184	Regulation of the Ca2+ gradient across the sarcoplasmic reticulum in perfused rabbit heart. A 19F nuclear magnetic resonance study. *Circulation Research*, **1998**, 83, 898-907	15.7	54
183	The inter-ligand Overhauser effect: a powerful new NMR approach for mapping structural relationships of macromolecular ligands. *Journal of Biomolecular NMR*, **1999**, 15, 71-6	3	54
182	Dissociation constants for dihydrofolic acid and dihydrobiopterin and implications for mechanistic models for dihydrofolate reductase. *Biochemistry*, **1990**, 29, 4554-60	3.2	54
181	Gender differences in sarcoplasmic reticulum calcium loading after isoproterenol. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 285, H2657-62	5.2	53
180	Crystal structure of calmodulin binding domain of orai1 in complex with Ca2+ calmodulin displays a unique binding mode. *Journal of Biological Chemistry*, **2012**, 287, 43030-41	5.4	52
179	Reaction mechanism of the epsilon subunit of E. coli DNA polymerase III: insights into active site metal coordination and catalytically significant residues. *Journal of the American Chemical Society*, **2009**, 131, 1550-6	16.4	52
178	Solution structure of the RNase H domain of the HIV-1 reverse transcriptase in the presence of magnesium. *Biochemistry*, **2003**, 42, 639-50	3.2	52
177	Dynamic characterization of a DNA repair enzyme: NMR studies of [methyl-13C]methionine-labeled DNA polymerase beta. *Biochemistry*, **2004**, 43, 8911-22	3.2	50
176	Theoretical analysis of the inter-ligand overhauser effect: a new approach for mapping structural relationships of macromolecular ligands. *Journal of Magnetic Resonance*, **1999**, 141, 301-11	3	47
175	Glycolysis and mitochondrial respiration in mouse LDHC-null sperm. *Biology of Reproduction*, **2013**, 88, 95	3.9	46
174	Nuclear magnetic resonance studies on bacterial dihydrofolate reductase containing [methyl-13C]methionine. *Biochemistry*, **1978**, 17, 2284-93	3.2	46

173	Solution structure of the Dickerson DNA dodecamer containing a single ribonucleotide. *Biochemistry*, **2012**, 51, 2407-16	3.2	45
172	Determination of membrane potential and cell volume by 19F NMR using trifluoroacetate and trifluoroacetamide probes. *Biochemistry*, **1989**, 28, 2378-82	3.2	45
171	Der p 5 crystal structure provides insight into the group 5 dust mite allergens. *Journal of Biological Chemistry*, **2010**, 285, 25394-401	5.4	44
170	Quantitative determination of the partial oxygen pressure in the vitrectomized rabbit eye in vivo using 19F NMR. *Magnetic Resonance in Medicine*, **1991**, 21, 233-41	4.4	44
169	X-ray and NMR characterization of covalent complexes of trypsin, borate, and alcohols. *Biochemistry*, **2004**, 43, 2829-39	3.2	43
168	The structural basis for partitioning of the XRCC1/DNA ligase III-BRCT-mediated dimer complexes. *Nucleic Acids Research*, **2011**, 39, 7816-27	20.1	42
167	13C{1H} nuclear Overhauser enhancement and 13C spin lattice relaxation in molecules undergoing multiple internal rotations. *Journal of Chemical Physics*, **1976**, 65, 2443-2450	3.9	42
166	Analysis of glutathione S-transferase allergen cross-reactivity in a North American population: Relevance for molecular diagnosis. *Journal of Allergy and Clinical Immunology*, **2015**, 136, 1369-1377	11.5	40
165	Structural insights into the mechanism of nuclease A, a betabeta alpha metal nuclease from Anabaena. *Journal of Biological Chemistry*, **2005**, 280, 27990-7	5.4	39
164	Interligand Overhauser effects in type II dihydrofolate reductase. *Biochemistry*, **2001**, 40, 4242-52	3.2	39
163	Studies of the pH dependence of carbon-13 shifts and carbon-carbon coupling constants of [U-13C]aspartic and -glutamic acids. *Journal of the American Chemical Society*, **1978**, 100, 3723-3729	16.4	39
162	IP6K structure and the molecular determinants of catalytic specificity in an inositol phosphate kinase family. *Nature Communications*, **2014**, 5, 4178	17.4	38
161	CD-n.m.r. study of the solution conformation of bradykinin analogs containing alpha-aminoisobutyric acid. *International Journal of Peptide and Protein Research*, **1987**, 29, 486-96		37
160	Preventing oxidation of cellular XRCC1 affects PARP-mediated DNA damage responses. *DNA Repair* , **2013**, 12, 774-85	4.3	35
159	Glibenclamide does not abolish the protective effect of preconditioning on stunning in the isolated perfused rat heart. *Cardiovascular Research*, **1993**, 27, 630-7	9.9	35
158	Dynamic frequency shift. *Concepts in Magnetic Resonance*, **1996**, 8, 325-338		34
157	Carbon dioxide abolishes the reverse Pasteur effect in Leishmania major promastigotes. *Molecular and Biochemical Parasitology*, **1989**, 33, 191-202	1.9	33
156	Development and evaluation of a boronate inhibitor of gamma-glutamyl transpeptidase. *Archives of Biochemistry and Biophysics*, **2001**, 385, 250-8	4.1	32

155	Fluorine-19 NMR Studies of Fluorobenzeneboronic Acids. 1. Interaction Kinetics with Biologically Significant Ligands. *Journal of the American Chemical Society*, **1994**, 116, 2562-2569	16.4	32
154	Effects of diltiazem on lactate, ATP, and cytosolic free calcium levels in ischemic hearts. *Journal of Cardiovascular Pharmacology*, **1990**, 15, 44-9	3.1	32
153	Protonation of methotrexate bound to the catalytic site of dihydrofolate from Lactobacillus casei. *Biochemical and Biophysical Research Communications*, **1981**, 100, 413-9	3.4	32
152	13C nuclear magnetic resonance study of the cis-trans isomerism in X-Pro-Pro tripeptides. *Biochemistry*, **1978**, 17, 2277-83	3.2	32
151	4-oxo-4H-quinolizine-3-carboxylic acids as Mg2+ selective, fluorescent indicators. *Bioconjugate Chemistry*, **2001**, 12, 203-12	6.3	31
150	Model for the catalytic domain of the proofreading epsilon subunit of Escherichia coli DNA polymerase III based on NMR structural data. *Biochemistry*, **2002**, 41, 94-110	3.2	30
149	Carbon-13 NMR spectroscopy of [20%-1,2-13C2-Gly6]-bradykinin. Role of serine in reducing structural heterogeneity. *Journal of the American Chemical Society*, **1979**, 101, 2455-2462	16.4	30
148	A model for nucleotide regulation of aspartate transcarbamylase. *Biochemistry*, **1972**, 11, 3136-42	3.2	30
147	Structural studies of the PARP-1 BRCT domain. *BMC Structural Biology*, **2011**, 11, 37	2.7	29
146	Crystal structure of a type II dihydrofolate reductase catalytic ternary complex. *Biochemistry*, **2007**, 46, 14878-88	3.2	29
145	Structure of the Escherichia coli DNA polymerase III epsilon-HOT proofreading complex. *Journal of Biological Chemistry*, **2006**, 281, 38466-71	5.4	29
144	Elucidation of the epsilon-theta subunit interface of Escherichia coli DNA polymerase III by NMR spectroscopy. *Biochemistry*, **2003**, 42, 3635-44	3.2	29
143	Nuclear magnetic resonance studies on bacterial dihydrofolate reductase containing [guanidino-13C]arginine. *Biochemistry*, **1978**, 17, 4285-90	3.2	29
142	APE2 Zf-GRF facilitates 3′–5′ resection of DNA damage following oxidative stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 304-309	11.5	28
141	Metal-induced DNA translocation leads to DNA polymerase conformational activation. *Nucleic Acids Research*, **2012**, 40, 2974-83	20.1	28
140	A comparison of BRCT domains involved in nonhomologous end-joining: introducing the solution structure of the BRCT domain of polymerase lambda. *DNA Repair*, **2008**, 7, 1340-51	4.3	28
139	Dynamic nuclear magnetic resonance frequency shifts for spin 1/2 nuclei coupled to efficiently relaxed spin?1/2 nuclei. *Journal of Chemical Physics*, **1995**, 102, 5181-5189	3.9	28
138	13C NMR evidence of the slow exchange of tryptophans in dihydrofolate reductase between stable conformations. *Biochemical and Biophysical Research Communications*, **1979**, 86, 779-86	3.4	28

137	Carbon-13 nuclear magnetic resonance study of metabolism of propionate by Escherichia coli. *Journal of Bacteriology*, **1999**, 181, 3562-70	3.5	28
136	A thymine isostere in the templating position disrupts assembly of the closed DNA polymerase beta ternary complex. *Biochemistry*, **2005**, 44, 15230-7	3.2	27
135	Leukocyte-type 12-lipoxygenase-deficient mice show impaired ischemic preconditioning-induced cardioprotection. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 280, H1963-9	5.2	27
134	Nuclear magnetic resonance study of the state of protonation of inhibitors bound to mutant dihydrofolate reductase lacking the active-site carboxyl. *Biochemistry*, **1986**, 25, 7229-35	3.2	27
133	Solution structure of the lyase domain of human DNA polymerase lambda. *Biochemistry*, **2003**, 42, 9564-74	3.2	26
132	Fluorine-19 NMR Studies of Fluorobenzeneboronic Acids. 2. Kinetic Characterization of the Interaction with Subtilisin Carlsberg and Model Ligands. *Journal of the American Chemical Society*, **1994**, 116, 2570-2575	16.4	26
131	Studies of inhibitor binding to Escherichia coli purine nucleoside phosphorylase using the transferred nuclear Overhauser effect and rotating-frame nuclear Overhauser enhancement. *Biochemistry*, **1994**, 33, 7547-59	3.2	25
130	13C and 15N nuclear magnetic resonance evidence of the ionization state of substrates bound to bovine dihydrofolate reductase. *Biochemistry*, **1990**, 29, 1290-6	3.2	25
129	Bradykinin and its Gly6 analogue are substrates of cyclophilin: a fluorine-19 magnetization transfer study. *Biochemistry*, **1990**, 29, 10298-302	3.2	25
128	Conformational dependence of 13C shielding and coupling constants for methionine methyl groups. *Journal of Biomolecular NMR*, **2010**, 48, 31-47	3	24
127	Solution structure of the Drosha double-stranded RNA-binding domain. *Silence: A Journal of RNA Regulation*, **2010**, 1, 2		24
126	A critical evaluation of models for complex molecular dynamics: application of NMR studies of double- and single-stranded DNA. *Biopolymers*, **1983**, 22, 2703-26	2.2	24
125	In vivo 31P nuclear magnetic resonance studies of arsenite induced changes in hepatic phosphate levels. *Biochemical and Biophysical Research Communications*, **1986**, 139, 228-34	3.4	24
124	On the solution conformation of bradykinin and certain fragments. *Biochemistry*, **1976**, 15, 498-504	3.2	24
123	Nuclear Localization of the DNA Repair Scaffold XRCC1: Uncovering the Functional Role of a Bipartite NLS. *Scientific Reports*, **2015**, 5, 13405	4.9	23
122	Identification and functional characterization of a novel acetylcholine-binding protein from the marine annelid Capitella teleta. *Biochemistry*, **2010**, 49, 2279-87	3.2	23
121	The nuclease a-inhibitor complex is characterized by a novel metal ion bridge. *Journal of Biological Chemistry*, **2007**, 282, 5682-90	5.4	23
120	NMR analysis of [methyl-13C]methionine UvrB from Bacillus caldotenax reveals UvrB-domain 4 heterodimer formation in solution. *Journal of Molecular Biology*, **2007**, 373, 282-95	6.5	23

119	Male/female differences in intracellular Na+ regulation during ischemia/reperfusion in mouse heart. *Journal of Molecular and Cellular Cardiology*, **2004**, 37, 747-53	5.8	23
118	Uridine diphospho sugars and related hexose phosphates in the liver of hexosamine-treated rats: identification using 31P-[1H] two-dimensional NMR with HOHAHA relay. *Biochemistry*, **1990**, 29, 4318-25	3.2	23
117	Solution structure of polymerase muϴ BRCT Domain reveals an element essential for its role in nonhomologous end joining. *Biochemistry*, **2007**, 46, 12100-10	3.2	22
116	NMR and crystallographic characterization of adventitious borate binding by trypsin. *Bioconjugate Chemistry*, **2006**, 17, 300-8	6.3	22
115	An NMR analysis of the reaction of ubiquitin with [acetyl-1-13C]aspirin. *Biochemical Pharmacology*, **1999**, 57, 1233-44	6	22
114	Primary identification, biochemical characterization, and immunologic properties of the allergenic pollen cyclophilin cat R 1. *Journal of Biological Chemistry*, **2014**, 289, 21374-85	5.4	21
113	Selective unfolding of one Ribonuclease H domain of HIV reverse transcriptase is linked to homodimer formation. *Nucleic Acids Research*, **2014**, 42, 5361-77	20.1	21
112	Structural insights into catalytic and substrate binding mechanisms of the strategic EndA nuclease from Streptococcus pneumoniae. *Nucleic Acids Research*, **2011**, 39, 2943-53	20.1	21
111	Direct magnetic resonance evidence for peroxymonocarbonate involvement in the cu,zn-superoxide dismutase peroxidase catalytic cycle. *Journal of Biological Chemistry*, **2009**, 284, 14618-27	5.4	21
110	19F NMR relaxation studies on 5-fluorotryptophan- and tetradeutero-5-fluorotryptophan-labeled E. coli glucose/galactose receptor. *Journal of Biomolecular NMR*, **1996**, 7, 261-72	3	21
109	Interpreting protein dynamics with nuclear magnetic resonance relaxation measurements. *Methods in Enzymology*, **1989**, 176, 358-75	1.7	21
108	Multiple roles of Bet v 1 ligands in allergen stabilization and modulation of endosomal protease activity. *Allergy: European Journal of Allergy and Clinical Immunology*, **2019**, 74, 2382-2393	9.3	20
107	Calorimetric studies of ligand binding in R67 dihydrofolate reductase. *Biochemistry*, **2005**, 44, 12420-33	3.2	20
106	Backbone dynamics of the RNase H domain of HIV-1 reverse transcriptase. *Biochemistry*, **2004**, 43, 9332-42	3.2	20
105	NMR studies of the interaction of a type II dihydrofolate reductase with pyridine nucleotides reveal unexpected phosphatase and reductase activity. *Biochemistry*, **2003**, 42, 11150-60	3.2	20
104	Magnetic resonance imaging study of the rat cerebral ventricular system utilizing intracerebrally administered contrast agents. *Magnetic Resonance in Medicine*, **1991**, 21, 97-106	4.4	20
103	Metabolism of excess methionine in the liver of intact rat: an in vivo 2H NMR study. *Biochemistry*, **1987**, 26, 7166-72	3.2	20
102	XRCC1 interaction with the REV1 C-terminal domain suggests a role in post replication repair. *DNA Repair*, **2013**, 12, 1105-13	4.3	19

101	Mutational and biochemical analysis of the DNA-entry nuclease EndA from Streptococcus pneumoniae. *Nucleic Acids Research*, **2011**, 39, 623-34	20.1	19
100	Probing the role of proline in peptide hormones. NMR studies of bradykinin and related peptides. *Biochemical Pharmacology*, **1990**, 40, 41-8	6	19
99	NMR determination of lysine pKa values in the Pol lambda lyase domain: mechanistic implications. *Biochemistry*, **2006**, 45, 1785-94	3.2	18
98	The nuclease A inhibitor represents a new variation of the rare PR-1 fold. *Journal of Molecular Biology*, **2002**, 320, 771-82	6.5	18
97	Anomeric dependence of fluorodeoxyglucose transport in human erythrocytes. *Biochemistry*, **1994**, 33, 10985-92	3.2	18
96	A deuterium surface coil NMR study of the metabolism of D-methionine in the liver of the anesthetized rat. *Biochemistry*, **1988**, 27, 7864-9	3.2	18
95	Cleavage of the X-Pro peptide bond by pepsin is specific for the trans isomer. *Biochemistry*, **1997**, 36, 13232-40	3.2	17
94	Nuclear magnetic resonance solution structure of the Escherichia coli DNA polymerase III theta subunit. *Journal of Bacteriology*, **2005**, 187, 7081-9	3.5	17
93	13C Fourier transform nuclear magnetic resonance studies of fractionated Candida utilis membranes. *Biochemistry*, **1975**, 14, 5492-500	3.2	17
92	Homodimerization of the p51 subunit of HIV-1 reverse transcriptase. *Biochemistry*, **2010**, 49, 2821-33	3.2	16
91	Solution characterization of [methyl-(13)C]methionine HIV-1 reverse transcriptase by NMR spectroscopy. *Antiviral Research*, **2009**, 84, 205-14	10.8	16
90	A new approach to the synthesis of APTRA indicators. *Bioconjugate Chemistry*, **2001**, 12, 76-83	6.3	16
89	NMR study of the sites of human hemoglobin acetylated by aspirin. *BBA - Proteins and Proteomics*, **1999**, 1432, 333-49		16
88	Measurements of in vivo hepatic halothane metabolism in rats using 19F NMR spectroscopy. *Biochemical Pharmacology*, **1987**, 36, 413-6	6	16
87	Fluorine-19 NMR studies of tumor-bearing rats treated with difluoromethylornithine. *Magnetic Resonance in Medicine*, **1987**, 4, 137-43	4.4	16
86	Asymmetric conformational maturation of HIV-1 reverse transcriptase. *ELife*, **2015**, 4,	8.9	16
85	Effect of temperature upon the circular dichroism of bradykinin. *International Journal of Peptide and Protein Research*, **1979**, 14, 388-92		15
84	Decreased intracellular pH is not due to increased H+ extrusion in preconditioned rat hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **1997**, 273, H2257-62	5.2	15

83	NvAssign: protein NMR spectral assignment with NMRView. *Bioinformatics*, **2004**, 20, 1201-3	7.2	15
82	Use of multiple 13C-labeling strategies and 13C NMR to detect low levels of exogenous metabolites in the presence of large endogenous pools: measurement of glucose turnover in a human subject. *Analytical Biochemistry*, **1989**, 176, 307-12	3.1	15
81	Nuclear magnetic resonance study of dihydrofolate reductase labeled with [gamma-13C]tryptophan. *Biochemistry*, **1981**, 20, 6169-78	3.2	15
80	Kinetics of the oxidation of reduced Cu,Zn-superoxide dismutase by peroxymonocarbonate. *Free Radical Biology and Medicine*, **2012**, 53, 589-94	7.8	14
79	Genomic, RNAseq, and molecular modeling evidence suggests that the major allergen domain in insects evolved from a homodimeric origin. *Genome Biology and Evolution*, **2013**, 5, 2344-58	3.9	14
78	QUANTITATIVE EVALUATION OF TURN CONFORMATION IN PROLINE-CONTAINING PEPTIDES USING13 C N.M.R.. *International Journal of Peptide and Protein Research*, **2009**, 14, 377-387		14
77	NMR characterizations of an amyloidogenic conformational ensemble of the PI3K SH3 domain. *Protein Science*, **2006**, 15, 2552-7	6.3	14
76	A nuclear magnetic resonance study of the interaction of inhibitory nucleosides with Escherichia coli aspartate transcarbamylase and its regulatory subunit. *Biochemistry*, **1974**, 13, 1170-9	3.2	14
75	A Structural Basis for Biguanide Activity. *Biochemistry*, **2017**, 56, 4786-4798	3.2	13
74	A 13C nuclear magnetic resonance study of the interaction of ligands with arginine residues in dihydrofolate reductase. *Biochemical and Biophysical Research Communications*, **1977**, 76, 183-8	3.4	13
73	Conformational selectivity of HIV-1 protease cleavage of X-Pro peptide bonds and its implications. *Journal of Biological Chemistry*, **1997**, 272, 15603-6	5.4	12
72	Phage like it HOT: solution structure of the bacteriophage P1-encoded HOT protein, a homolog of the theta subunit of E. coli DNA polymerase III. *Structure*, **2004**, 12, 2221-31	5.2	12
71	Novel mechanism of surface catalysis of protein adduct formation. NMR studies of the acetylation of ubiquitin. *Journal of Biological Chemistry*, **2000**, 275, 31908-13	5.4	12
70	Structure of Escherichia coli dGTP triphosphohydrolase: a hexameric enzyme with DNA effector molecules. *Journal of Biological Chemistry*, **2015**, 290, 10418-29	5.4	11
69	Determination of lysine pK values using [5-13C]lysine: application to the lyase domain of DNA Pol beta. *Journal of the American Chemical Society*, **2006**, 128, 8104-5	16.4	11
68	Formation of a trypsin-borate-4-aminobutanol ternary complex. *Biochemistry*, **2002**, 41, 5963-7	3.2	11
67	Aspirin acetylation of betaLys-82 of human hemoglobin. NMR study of acetylated hemoglobin Tsurumai. *Biochemical Pharmacology*, **2000**, 60, 917-22	6	11
66	An approach to NMR studies of the metabolism of internal organs using surface coils. *Journal of Proteomics*, **1985**, 11, 21-9		11

65	Carbon–carbon coupling in [90%-13C-2]histidine. *Journal of the Chemical Society Chemical Communications*, **1978**, 1070-1071		11
64	HIV-1 Reverse Transcriptase: A Metamorphic Protein with Three Stable States. *Structure*, **2019**, 27, 420-426	5.6	11
63	A Human IgE Antibody Binding Site on Der p 2 for the Design of a Recombinant Allergen for Immunotherapy. *Journal of Immunology*, **2019**, 203, 2545-2556	5.3	10
62	Enhanced Approaches for Identifying Amadori Products: Application to Peanut Allergens. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 1406-13	5.7	10
61	Are dust mite allergens more abundant and/or more stable than other Dermatophagoides pteronyssinus proteins?. *Journal of Allergy and Clinical Immunology*, **2017**, 139, 1030-1032.e1	11.5	10
60	Testing for cis–proline with α-aminoisobutyric acid substitution. *International Journal of Peptide and Protein Research*, **2009**, 19, 334-342		10
59	Metal and ligand binding to the HIV-RNase H active site are remotely monitored by Ile556. *Nucleic Acids Research*, **2012**, 40, 10543-53	20.1	10
58	Differential clearance of nitroxide MRI contrast agents from rat cerebral ventricles. *Brain Research Bulletin*, **1995**, 36, 91-6	3.9	10
57	360-MHz hydrogen-1 NMR conformational analysis of Gly-Pro-X peptides (X = Ala, Cha, Phe). *Journal of the American Chemical Society*, **1981**, 103, 2187-2191	16.4	10
56	Nuclear magnetic resonance study of interaction of ligands with streptococcus faecium dihydrofolate reductase labeled with [gamma-13C]tryptophan. *Biochemistry*, **1982**, 21, 4450-8	3.2	10
55	Structural Maturation of HIV-1 Reverse Transcriptase-A Metamorphic Solution to Genomic Instability. *Viruses*, **2016**, 8,	6.2	10
54	DNA polymerase ι contains a functional nuclear localization signal at its N-terminus. *Nucleic Acids Research*, **2017**, 45, 1958-1970	20.1	9
53	Characterization of the APLF FHA-XRCC1 phosphopeptide interaction and its structural and functional implications. *Nucleic Acids Research*, **2017**, 45, 12374-12387	20.1	9
52	Hydrogen-1 and carbon-13 nuclear magnetic resonance conformational studies of the His-Pro peptide bond: conformational behavior of TRH. *International Journal of Peptide and Protein Research*, **1983**, 22, 582-9		9
51	Ternary borate-nucleoside complex stabilization by ribonuclease A demonstrates phosphate mimicry. *Journal of Biological Inorganic Chemistry*, **2008**, 13, 207-17	3.7	9
50	Protein NMR spin trapping with [methyl-13C(3)]-MNP: application to the tyrosyl radical of equine myoglobin. *Free Radical Biology and Medicine*, **2001**, 31, 383-90	7.8	9
49	Fluorinated o-aminophenol derivatives for measurement of intracellular pH. *Bioconjugate Chemistry* , **1995**, 6, 77-81	6.3	9
48	13C NMR relaxation and conformational flexibility of the deoxyribose ring. *Nucleic Acids Research*, **1982**, 10, 6067-83	20.1	9

47	Unfolding the HIV-1 reverse transcriptase RNase H domain--how to lose a molecular tug-of-war. *Nucleic Acids Research*, **2016**, 44, 1776-88	20.1	8
46	Substrate rescue of DNA polymerase containing a catastrophic L22P mutation. *Biochemistry*, **2014**, 53, 2413-22	3.2	8
45	Proteases of Dermatophagoides pteronyssinus. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	8
44	Photoactivated h/d exchange in tyrosine: involvement of a radical anion intermediate. *Journal of the American Chemical Society*, **2006**, 128, 2268-75	16.4	8
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41	Mechanism of APTX nicked DNA sensing and pleiotropic inactivation in neurodegenerative disease. *EMBO Journal*, **2018**, 37,	13	8
40	Charge dependence of the distribution of contrast agents in rat cerebral ventricles. *Magnetic Resonance in Medicine*, **1992**, 27, 135-41	4.4	7
39	Comparison of phytochemical composition of Ginkgo biloba extracts using a combination of non-targeted and targeted analytical approaches. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 6789–6809	4.4	7
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37	LINEAGE BIOLOGY AND LIVER **2000**, 559-598a		6
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