Robert E London

List of Publications by Year
in descending order

210 papers	6,425 citations	53751 45 h-index	114418 63 g-index
213 all docs	213 docs citations	213 times ranked	6223 citing authors

#	Article	IF	Citations
1	Estrogen receptor beta mediates gender differences in ischemia/reperfusion injury. Journal of Molecular and Cellular Cardiology, 2005, 38, 289-297.	0.9	198
2	13C labeling in studies of metabolic regulation. Progress in Nuclear Magnetic Resonance Spectroscopy, 1988, 20, 337-383.	3.9	133
3	ZATT (ZNF451)â€“mediated resolution of topoisomerase 2 DNA-protein cross-links. Science, 2017, 357, 1412-1416.	6.0	127
4	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.	6.6	116
5	The structural basis of XRCC1-mediated DNA repair. DNA Repair, 2015, 30, 90-103.	1.3	114
6	Lactate Dehydrogenase C and Energy Metabolism in Mouse Sperm. Biology of Reproduction, 2011, 85, 556-564.	1.2	102
7	The interpretation of carbon-13 spin-lattice relaxation resulting from ring puckering in proline. Journal of the American Chemical Society, 1978, 100, 2678-2685.	6.6	99
8	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.	1.5	99
9	Measurement of cytosolic free magnesium ion concentration by fluorine-19 NMR. Biochemistry, 1988, 27, 4041-4048.	1.2	97
10	Targeted Deletion of Thioredoxin-Interacting Protein Regulates Cardiac Dysfunction in Response to Pressure Overload. Circulation Research, 2007, 101, 1328-1338.	2.0	96
11	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.	6.6	95
12	Carbon-13 nuclear magnetic resonance study of protonation of methotrexate and aminopterin bound to dihydrofolate reductase. Biochemistry, 1981, 20, 3972-3978.	1.2	92
13	Measurement of Free Ca2+ in Sarcoplasmic Reticulum in Perfused Rabbit Heart Loaded with 1,2-Bis(2-amino-5,6-difluorophenoxy)ethane-N,N,Nâ€²,Nâ€²-tetraacetic Acid by 19F NMR. Journal of Biological Chemistry, 1996, 271, 7398-7403.	1.6	86
14	Preconditioning Enhanced Glucose Uptake Is Mediated by p38 MAP Kinase Not by Phosphatidylinositol 3-Kinase. Journal of Biological Chemistry, 2000, 275, 11981-11986.	1.6	78
15	Protonated state of methotrexate, trimethoprim, and pyrimethamine bound to dihydrofolate reductase. Archives of Biochemistry and Biophysics, 1983, 226, 567-577.	1.4	77
16	NMR observability of ATP: preferential depletion of cytosolic ATP during ischemia in perfused rat liver. Biochemistry, 1988, 27, 526-528.	1.2	75
17	Magnetic resonance imaging studies of the brains of anesthetized rats treated with manganese chloride. Brain Research Bulletin, 1989, 23, 229-235.	1.4	71
18	Dependence of Amino Acid Side Chain ¹³C Shifts on Dihedral Angle: Application to Conformational Analysis. Journal of the American Chemical Society, 2008, 130, 11097-11105.	6.6	71

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19	NMR Solution Structure of the Focal Adhesion Targeting Domain of Focal Adhesion Kinase in Complex with a Paxillin LD Peptide. Journal of Biological Chemistry, 2004, 279, 8441-8451.	1.6	69
20	Oxidation state of the XRCC1 N-terminal domain regulates DNA polymerase Î² binding affinity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6805-6810.	3.3	67
21	Glycolysis and Mitochondrial Respiration in Mouse LDHC-Null Sperm1. Biology of Reproduction, 2013, 88, 95.	1.2	66
22	13C and proton nuclear magnetic resonance studies of bradykinin and selected peptide fragments. Biochemistry, 1978, 17, 2270-2277.	1.2	65
23	Reaction Mechanism of the Îµ 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, 1550-1556.	6.6	64
24	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, 1420-1426.e9.	1.5	64
25	The inter-ligand Overhauser effect: a powerful new NMR approach for mapping structural relationships of macromolecular ligands. Journal of Biomolecular NMR, 1999, 15, 71-76.	1.6	62
26	Structureâ€“function studies of DNA polymerase lambda. DNA Repair, 2005, 4, 1358-1367.	1.3	62
27	Dissociation constants for dihydrofolic acid and dihydrobiopterin and implications for mechanistic models for dihydrofolate reductase. Biochemistry, 1990, 29, 4554-4560.	1.2	60
28	Gender differences in sarcoplasmic reticulum calcium loading after isoproterenol. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2657-H2662.	1.5	60
29	Photosynthetic preparation and characterization of 13C-labeled carbohydrates in agmenellum quadruplicatum. Carbohydrate Research, 1979, 73, 193-202.	1.1	59
30	Regulation of the Ca ²⁺ Gradient Across the Sarcoplasmic Reticulum in Perfused Rabbit Heart. Circulation Research, 1998, 83, 898-907.	2.0	59
31	Crystal Structure of Calmodulin Binding Domain of Orai1 in Complex with Ca2+â€¢Calmodulin Displays a Unique Binding Mode. Journal of Biological Chemistry, 2012, 287, 43030-43041.	1.6	58
32	The structural basis for partitioning of the XRCC1/DNA ligase III-Î± BRCT-mediated dimer complexes. Nucleic Acids Research, 2011, 39, 7816-7827.	6.5	56
33	Solution Structure of the Dickerson DNA Dodecamer Containing a Single Ribonucleotide. Biochemistry, 2012, 51, 2407-2416.	1.2	56
34	IP6K structure and the molecular determinants of catalytic specificity in an inositol phosphate kinase family. Nature Communications, 2014, 5, 4178.	5.8	55
35	Solution Structure of the RNase H Domain of the HIV-1 Reverse Transcriptase in the Presence of Magnesiumâ€. Biochemistry, 2003, 42, 639-650.	1.2	53
36	Dynamic Characterization of a DNA Repair Enzyme:Â NMR Studies of [methyl-13C]Methionine-Labeled DNA Polymerase Î². Biochemistry, 2004, 43, 8911-8922.	1.2	53

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37	Der p 5 Crystal Structure Provides Insight into the Group 5 Dust Mite Allergens. Journal of Biological Chemistry, 2010, 285, 25394-25401.	1.6	52
38	Analysis of glutathione S-transferase allergen cross-reactivity in a North American population: RelevanceÂfor molecular diagnosis. Journal of Allergy and Clinical Immunology, 2015, 136, 1369-1377.	1.5	52
39	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.	2.7	51
40	APE2 Zf-GRF facilitates 3â€²-5â€² resection of DNA damage following oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 304-309.	3.3	50
41	Nuclear magnetic resonance studies on bacterial dihydrofolate reductase containing [methyl-13C]methionine. Biochemistry, 1978, 17, 2284-2293.	1.2	49
42	Theoretical Analysis of the Inter-Ligand Overhauser Effect: A New Approach for Mapping Structural Relationships of Macromolecular Ligands. Journal of Magnetic Resonance, 1999, 141, 301-311.	1.2	49
43	X-ray and NMR Characterization of Covalent Complexes of Trypsin, Borate, and Alcohols. Biochemistry, 2004, 43, 2829-2839.	1.2	48
44	Determination of membrane potential and cell volume by fluorine-19 NMR using trifluoroacetate and trifluoroacetamide probes. Biochemistry, 1989, 28, 2378-2382.	1.2	47
45	Quantitative determination of the partial oxygen pressure in the vitrectomized rabbit eyein Vivo using19F NMR. Magnetic Resonance in Medicine, 1991, 21, 233-241.	1.9	47
46	13Câ€“{1H} nuclear Overhauser enhancement and13C spin lattice relaxation in molecules undergoing multiple internal rotations. Journal of Chemical Physics, 1976, 65, 2443-2450.	1.2	46
47	Glibenclamide does not abolish the protective effect of preconditioning on stunning in the isolated perfused rat heart. Cardiovascular Research, 1993, 27, 630-637.	1.8	46
48	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.	6.6	45
49	CDâ€n.m.r. study of the solution conformation of bradykinin analogs containing Î±â€aminoisobutyric acid. International Journal of Peptide and Protein Research, 1987, 29, 486-496.	0.1	45
50	Interligand Overhauser Effects in Type II Dihydrofolate Reductase. Biochemistry, 2001, 40, 4242-4252.	1.2	44
51	Structural Insights into the Mechanism of Nuclease A, a Î²Î²Î± Metal Nuclease from Anabaena. Journal of Biological Chemistry, 2005, 280, 27990-27997.	1.6	43
52	Structural studies of the PARP-1 BRCT domain. BMC Structural Biology, 2011, 11, 37.	2.3	41
53	Dynamic frequency shift. Concepts in Magnetic Resonance, 1996, 8, 325-338.	1.3	40
54	Preventing oxidation of cellular XRCC1 affects PARP-mediated DNA damage responses. DNA Repair, 2013, 12, 774-785.	1.3	40

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55	Model for nucleotide regulation of aspartate transcarbamylase. Biochemistry, 1972, 11, 3136-3142.	1.2	38
56	Fluorine-19 NMR Studies of Fluorobenzeneboronic Acids. 1. Interaction Kinetics with Biologically Significant Ligands. Journal of the American Chemical Society, 1994, 116, 2562-2569.	6.6	38
57	13C nuclear magnetic resonance study of the cis-trans isomerism in X-Pro-Pro tripeptides. Biochemistry, 1978, 17, 2277-2283.	1.2	37
58	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.	6.6	37
59	Carbon dioxide abolishes the reverse Pasteur effect in Leishmania major promastigotes. Molecular and Biochemical Parasitology, 1989, 33, 191-202.	0.5	37
60	Effects of Diltiazem on Lactate, ATP, and Cytosolic Free Calcium Levels in Ischemic Hearts. Journal of Cardiovascular Pharmacology, 1990, 15, 44-49.	0.8	37
61	Development and Evaluation of a Boronate Inhibitor of Î³-Glutamyl Transpeptidase. Archives of Biochemistry and Biophysics, 2001, 385, 250-258.	1.4	37
62	Crystal Structure of a Type II Dihydrofolate Reductase Catalytic Ternary Complex. Biochemistry, 2007, 46, 14878-14888.	1.2	36
63	Conformational dependence of 13C shielding and coupling constants for methionine methyl groups. Journal of Biomolecular NMR, 2010, 48, 31-47.	1.6	35
64	Protonation of methotrexate bound to the catalytic site of dihydrofolate reductase from lactobacillus casei. Biochemical and Biophysical Research Communications, 1981, 100, 413-419.	1.0	34
65	4-Oxo-4H-quinolizine-3-carboxylic Acids as Mg2+ Selective, Fluorescent Indicators. Bioconjugate Chemistry, 2001, 12, 203-212.	1.8	34
66	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, 1340-1351.	1.3	33
67	13C NMR evidence of the slow exchange of tryptophans in dihydrofolate reductase between stable conformations. Biochemical and Biophysical Research Communications, 1979, 86, 779-786.	1.0	32
68	Dynamic nuclear magnetic resonance frequency shifts for spin 1/2 nuclei coupled to efficiently relaxed spinâ‰³1/2 nuclei. Journal of Chemical Physics, 1995, 102, 5181-5189.	1.2	32
69	Model for the Catalytic Domain of the Proofreading Îµ Subunit ofEscherichia coliDNA Polymerase III Based on NMR Structural Dataâ€. Biochemistry, 2002, 41, 94-110.	1.2	32
70	Carbon-13 Nuclear Magnetic Resonance Study of Metabolism of Propionate by Escherichia coli. Journal of Bacteriology, 1999, 181, 3562-3570.	1.0	32
71	Nuclear magnetic resonance studies on bacterial dihydrofolate reductase containing [guanidino-13C]arginine. Biochemistry, 1978, 17, 4285-4290.	1.2	31
72	Carbon-13 and nitrogen-15 nuclear magnetic resonance evidence of the ionization state of substrates bound to bovine dihydrofolate reductase. Biochemistry, 1990, 29, 1290-1296.	1.2	31

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73	Leukocyte-type 12-lipoxygenase-deficient mice show impaired ischemic preconditioning-induced cardioprotection. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H1963-H1969.	1.5	31
74	Primary Identification, Biochemical Characterization, and Immunologic Properties of the Allergenic Pollen Cyclophilin Cat r 1. Journal of Biological Chemistry, 2014, 289, 21374-21385.	1.6	31
75	In vivo31P nuclear magnetic resonance studies of arsenite induced changes in hepatic phosphate levels. Biochemical and Biophysical Research Communications, 1986, 139, 228-234.	1.0	30
76	Nuclear magnetic resonance study of the state of protonation of inhibitors bound to mutant dihydrofolate reductase lacking the active-site carboxyl. Biochemistry, 1986, 25, 7229-7235.	1.2	30
77	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.	6.6	30
78	Elucidation of the Îµâˆ'Î¸ Subunit Interface of Escherichia coli DNA Polymerase III by NMR Spectroscopy. Biochemistry, 2003, 42, 3635-3644.	1.2	30
79	Structure of the Escherichia coli DNA Polymerase III Ïµ-HOT Proofreading Complex. Journal of Biological Chemistry, 2006, 281, 38466-38471.	1.6	30
80	Metal-induced DNA translocation leads to DNA polymerase conformational activation. Nucleic Acids Research, 2012, 40, 2974-2983.	6.5	30
81	Nuclear Localization of the DNA Repair Scaffold XRCC1: Uncovering the Functional Role of a Bipartite NLS. Scientific Reports, 2015, 5, 13405.	1.6	30
82	Bradykinin and its Gly6 analog are substrates of cyclophilin: a fluorine-19 magnetization transfer study. Biochemistry, 1990, 29, 10298-10302.	1.2	29
83	An NMR analysis of the reaction of ubiquitin with [acetyl-1-13C]aspirin. Biochemical Pharmacology, 1999, 57, 1233-1244.	2.0	29
84	A Thymine Isostere in the Templating Position Disrupts Assembly of the Closed DNA Polymerase Î²2 Ternary Complex. Biochemistry, 2005, 44, 15230-15237.	1.2	29
85	Structural insights into catalytic and substrate binding mechanisms of the strategic EndA nuclease from Streptococcus pneumoniae. Nucleic Acids Research, 2011, 39, 2943-2953.	6.5	29
86	Identification and Functional Characterization of a Novel Acetylcholine-Binding Protein from the Marine Annelid Capitella teleta. Biochemistry, 2010, 49, 2279-2287.	1.2	28
87	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, 7547-7559.	1.2	27
88	Solution Structure of the Lyase Domain of Human DNA Polymerase Î». Biochemistry, 2003, 42, 9564-9574.	1.2	27
89	The metabolism of excess methionine in the liver of the intact rat: an in vivo deuterium NMR study. Biochemistry, 1987, 26, 7166-7172.	1.2	26
90	Solution structure of the Drosha double-stranded RNA-binding domain. Silence: A Journal of RNA Regulation, 2010, 1, 2.	8.0	26

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91	On the solution conformation of bradykinin and certain fragments. Biochemistry, 1976, 15, 498-504.	1.2	25
92	A critical evaluation of models for complex molecular dynamics: Application to NMR studies of double- and single-stranded DNA. Biopolymers, 1983, 22, 2703-2726.	1.2	25
93	Uridine diphospho sugars and related hexose phosphates in the liver of hexosamine-treated rats: identification using phosphorus-31-{proton} two-dimensional NMR with HOHAHA relay. Biochemistry, 1990, 29, 4318-4325.	1.2	25
94	Male/female differences in intracellular Na+regulation during ischemia/reperfusion in mouse heart. Journal of Molecular and Cellular Cardiology, 2004, 37, 747-753.	0.9	25
95	NMR and Crystallographic Characterization of Adventitious Borate Binding by Trypsin. Bioconjugate Chemistry, 2006, 17, 300-308.	1.8	25
96	Solution Structure of Polymerase Î¼'s BRCT Domain Reveals an Element Essential for Its Role in Nonhomologous End Joining. Biochemistry, 2007, 46, 12100-12110.	1.2	25
97	Selective unfolding of one Ribonuclease H domain of HIV reverse transcriptase is linked to homodimer formation. Nucleic Acids Research, 2014, 42, 5361-5377.	6.5	25
98	XRCC1 â€“ Strategies for coordinating and assembling a versatile DNA damage response. DNA Repair, 2020, 93, 102917.	1.3	25
99	Backbone Dynamics of the RNase H Domain of HIV-1 Reverse Transcriptase. Biochemistry, 2004, 43, 9332-9342.	1.2	24
100	NMR analysis of [methyl-13C]methionine UvrB from Bacillus caldotenax reveals UvrBâ€“domain 4 heterodimer formation in solution. Journal of Molecular Biology, 2007, 373, 282-295.	2.0	24
101	Mutational and biochemical analysis of the DNA-entry nuclease EndA from Streptococcus pneumoniae. Nucleic Acids Research, 2011, 39, 623-634.	6.5	24
102	[18] Interpreting protein dynamics with nuclear magnetic resonance relaxation measurements. Methods in Enzymology, 1989, 176, 358-375.	0.4	23
103	Magnetic resonance imaging study of the rat cerebral ventricular system utilizing intracerebrally administered contrast agents. Magnetic Resonance in Medicine, 1991, 21, 97-106.	1.9	23
104	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-H2262.	1.5	23
105	The Nuclease A-Inhibitor Complex Is Characterized by a Novel Metal Ion Bridge. Journal of Biological Chemistry, 2007, 282, 5682-5690.	1.6	23
106	Direct Magnetic Resonance Evidence for Peroxymonocarbonate Involvement in the Cu,Zn-Superoxide Dismutase Peroxidase Catalytic Cycle. Journal of Biological Chemistry, 2009, 284, 14618-14627.	1.6	23
107	HIV-1 Reverse Transcriptase: A Metamorphic Protein with Three Stable States. Structure, 2019, 27, 420-426.	1.6	23
108	A deuterium surface coil NMR study of the metabolism of D-methionine in the liver of the anesthetized rat. Biochemistry, 1988, 27, 7864-7869.	1.2	22

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109	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.	1.6	22
110	NMR Studies of the Interaction of a Type II Dihydrofolate Reductase with Pyridine Nucleotides Reveal Unexpected Phosphatase and Reductase Activityâ€. Biochemistry, 2003, 42, 11150-11160.	1.2	22
111	NvAssign: protein NMR spectral assignment with NMRView. Bioinformatics, 2004, 20, 1201-1203.	1.8	21
112	Calorimetric Studies of Ligand Binding in R67 Dihydrofolate Reductaseâ€. Biochemistry, 2005, 44, 12420-12433.	1.2	21
113	NMR Determination of Lysine pKaValues in the Pol Î» Lyase Domain:Â Mechanistic Implications. Biochemistry, 2006, 45, 1785-1794.	1.2	21
114	Probing the role of proline in peptide hormones. Biochemical Pharmacology, 1990, 40, 41-48.	2.0	20
115	NMR study of the sites of human hemoglobin acetylated by aspirin. BBA - Proteins and Proteomics, 1999, 1432, 333-349.	2.1	20
116	The Nuclease A Inhibitor Represents a New Variation of the Rare PR-1 Fold. Journal of Molecular Biology, 2002, 320, 771-782.	2.0	20
117	XRCC1 interaction with the REV1 C-terminal domain suggests a role in post replication repair. DNA Repair, 2013, 12, 1105-1113.	1.3	20
118	A Structural Basis for Biguanide Activity. Biochemistry, 2017, 56, 4786-4798.	1.2	20
119	Nuclear magnetic resonance study of the interaction of inhibitory nucleosides with Escherichia coli aspartate transcarbamylase and its regulatory subunit. Biochemistry, 1974, 13, 1170-1179.	1.2	19
120	Carbon-13 Fourier transform nuclear magnetic resonance studies of fractionated Candida utilis membranes. Biochemistry, 1975, 14, 5492-5500.	1.2	19
121	Anomeric Dependence of Fluorodeoxyglucose Transport in Human Erythrocytes. Biochemistry, 1994, 33, 10985-10992.	1.2	19
122	Novel Mechanism of Surface Catalysis of Protein Adduct Formation. Journal of Biological Chemistry, 2000, 275, 31908-31913.	1.6	19
123	Nuclear Magnetic Resonance Solution Structure of the Escherichia coli DNA Polymerase III Î¸ Subunit. Journal of Bacteriology, 2005, 187, 7081-7089.	1.0	19
124	Solution characterization of [methyl-13C]methionine HIV-1 reverse transcriptase by NMR spectroscopy. Antiviral Research, 2009, 84, 205-214.	1.9	19
125	Homodimerization of the p51 Subunit of HIV-1 Reverse Transcriptase. Biochemistry, 2010, 49, 2821-2833.	1.2	19
126	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.	0.4	19

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127	Asymmetric conformational maturation of HIV-1 reverse transcriptase. ELife, 2015, 4, .	2.8	19
128	Cleavage of the Xâ˜Pro Peptide Bond by Pepsin Is Specific for the trans Isomer. Biochemistry, 1997, 36, 13232-13240.	1.2	18
129	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, 2344-2358.	1.1	18
130	Fluorine-19 NMR studies of tumor-bearing rats treated with difluoromethylornithine. Magnetic Resonance in Medicine, 1987, 4, 137-143.	1.9	17
131	EFFECT OF TEMPERATURE UPON THE CIRCULAR DICHROISM OF BRADYKININ. International Journal of Peptide and Protein Research, 1979, 14, 388-392.	0.1	17
132	Nuclear magnetic resonance study of dihydrofolate reductase labeled with [.gamma.-13C]tryptophan. Biochemistry, 1981, 20, 6169-6178.	1.2	16
133	Measurements of in vivo hepatic halothane metabolism in rats using 19F NMR spectroscopy. Biochemical Pharmacology, 1987, 36, 413-416.	2.0	16
134	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, 307-312.	1.1	16
135	A New Approach to the Synthesis of APTRA Indicators. Bioconjugate Chemistry, 2001, 12, 76-83.	1.8	16
136	A 13C nuclear magnetic resonance study of the interaction of ligands with arginine residues in dihydrofolate reductase. Biochemical and Biophysical Research Communications, 1977, 76, 183-188.	1.0	15
137	Conformational Selectivity of HIV-1 Protease Cleavage of X-Pro Peptide Bonds and Its Implications. Journal of Biological Chemistry, 1997, 272, 15603-15606.	1.6	15
138	QUANTITATIVE EVALUATION OF Î³â€TURN CONFORMATION IN PROLINEâ€CONTAINING PEPTIDES USING13 C N.M.R.. International Journal of Peptide and Protein Research, 1979, 14, 377-387.	0.1	15
139	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.	1.5	15
140	NMR characterizations of an amyloidogenic conformational ensemble of the PI3K SH3 domain. Protein Science, 2006, 15, 2552-2557.	3.1	14
141	Kinetics of the oxidation of reduced Cu,Zn-superoxide dismutase by peroxymonocarbonate. Free Radical Biology and Medicine, 2012, 53, 589-594.	1.3	14
142	Structure of Escherichia coli dGTP Triphosphohydrolase. Journal of Biological Chemistry, 2015, 290, 10418-10429.	1.6	14
143	Structural Maturation of HIV-1 Reverse Transcriptaseâ€"A Metamorphic Solution to Genomic Instability. Viruses, 2016, 8, 260.	1.5	14
144	Proteases of Dermatophagoides pteronyssinus. International Journal of Molecular Sciences, 2017, 18, 1204.	1.8	14

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145	Ligand binding characteristics of the Ku80 von Willebrand domain. DNA Repair, 2020, 85, 102739.	1.3	14
146	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.	1.9	14
147	Aspirin acetylation of Î²Lys-82 of human hemoglobin. Biochemical Pharmacology, 2000, 60, 917-922.	2.0	13
148	Formation of a Trypsinâ^'Borateâ^'4-Aminobutanol Ternary Complex. Biochemistry, 2002, 41, 5963-5967.	1.2	13
149	Determination of Lysine pK Values Using [5-13C]Lysine:â€‰ Application to the Lyase Domain of DNA Pol Î². Journal of the American Chemical Society, 2006, 128, 8104-8105.	6.6	13
150	Ternary borateâ€“nucleoside complex stabilization by ribonuclease A demonstrates phosphate mimicry. Journal of Biological Inorganic Chemistry, 2008, 13, 207-217.	1.1	13
151	DNA polymerase Î² contains a functional nuclear localization signal at its N-terminus. Nucleic Acids Research, 2017, 45, 1958-1970.	6.5	13
152	Mechanism of <scp>APTX</scp> nicked <scp>DNA</scp> sensing and pleiotropic inactivation in neurodegenerative disease. EMBO Journal, 2018, 37, .	3.5	13
153	An approach to NMR studies of the metabolism of internal organs using surface coils. Journal of Proteomics, 1985, 11, 21-29.	2.4	12
154	LINEAGE BIOLOGY AND LIVER. , 2000, , 559-598a.		12
155	Phage Like It HOT. Structure, 2004, 12, 2221-2231.	1.6	12
156	Substrate Rescue of DNA Polymerase Î² Containing a Catastrophic L22P Mutation. Biochemistry, 2014, 53, 2413-2422.	1.2	12
157	Carbonâ€“carbon coupling in [90%-13C-2]histidine. Journal of the Chemical Society Chemical Communications, 1978, , 1070-1071.	2.0	11
158	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.	6.6	11
159	Differential clearance of nitroxide MRI contrast agents from rat cerebral ventricles. Brain Research Bulletin, 1995, 36, 91-96.	1.4	11
160	Acetylation of Human Hemoglobin by Methyl Acetylphosphate. Journal of Biological Chemistry, 1999, 274, 26629-26632.	1.6	11
161	Enhanced Approaches for Identifying Amadori Products: Application to Peanut Allergens. Journal of Agricultural and Food Chemistry, 2016, 64, 1406-1413.	2.4	11
162	Nuclear magnetic resonance study of interaction of ligands with Streptococcus faecium dihydrofolate reductase labeled with [.gamma.-13C]tryptophan. Biochemistry, 1982, 21, 4450-4458.	1.2	10

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163	Fluorinated o-Aminophenol Derivatives for Measurement of Intracellular pH. Bioconjugate Chemistry, 1995, 6, 77-81.	1.8	10
164	Testing for cisâ€˜ proline with Î±â€aminoisobutyric acid substitution. International Journal of Peptide and Protein Research, 1982, 19, 334-342.	0.1	10
165	Metal and ligand binding to the HIV-RNase H active site are remotely monitored by Ile556. Nucleic Acids Research, 2012, 40, 10543-10553.	6.5	10
166	A metabolomic, geographic, and seasonal analysis of the contribution of pollen-derived adenosine to allergic sensitization. Metabolomics, 2016, 12, 1.	1.4	10
167	Unfolding the HIV-1 reverse transcriptase RNase H domain â€“ how to lose a molecular tug-of-war. Nucleic Acids Research, 2016, 44, 1776-1788.	6.5	10
168	13C NMR relaxation and conformational flexibility of the deoxyribose ring. Nucleic Acids Research, 1982, 10, 6067-6083.	6.5	9
169	Protein NMR spin trapping with [methyl-13C3]-MNP: application to the tyrosyl radical of equine myoglobin. Free Radical Biology and Medicine, 2001, 31, 383-390.	1.3	9
170	Hydrogen-1 and carbon-13 nuclear magnetic resonance conformational studies of the His-Pro peptide bond: conformational behavior of TRHâ€. International Journal of Peptide and Protein Research, 2009, 22, 582-589.	0.1	9
171	Characterization of the APLF FHAâ€“XRCC1 phosphopeptide interaction and its structural and functional implications. Nucleic Acids Research, 2017, 45, 12374-12387.	6.5	9
172	Charge dependence of the distribution of contrast agents in rat cerebral ventricles. Magnetic Resonance in Medicine, 1992, 27, 135-141.	1.9	8
173	Photoactivated H/D Exchange in Tyrosine:Â Involvement of a Radical Anion Intermediate. Journal of the American Chemical Society, 2006, 128, 2268-2275.	6.6	8
174	Identification of drivers for the metamorphic transition of HIV-1 reverse transcriptase. Biochemical Journal, 2017, 474, 3321-3338.	1.7	7
175	The Structural Basis for Nonsteroidal Anti-Inflammatory Drug Inhibition of Human Dihydrofolate Reductase. Journal of Medicinal Chemistry, 2020, 63, 8314-8324.	2.9	7
176	Phosphopeptide interactions of the Nbs1 N-terminal FHA-BRCT1/2 domains. Scientific Reports, 2021, 11, 9046.	1.6	7
177	Correlation of carboxyl carbon titration shifts and pK values. Journal of Magnetic Resonance, 1980, 38, 173-177.	0.5	6
178	A 13C NMR study of the solution dynamics of 1,3,5-triphenylbenzene; analysis of motion about the phenyl-phenyl bond. Journal of Magnetic Resonance, 1981, 45, 476-489.	0.5	6
179	Mg2+and Other Polyvalent Cations Catalyze Nucleotide Fluorolysis. Archives of Biochemistry and Biophysics, 1996, 334, 332-340.	1.4	6
180	A preliminary CD and NMR study of theEscherichia coli DNA polymerase III ? subunit. , 1999, 36, 111-116.		6

#	Article	IF	Citations
181	Reanalysis of the involvement of Î³-glutamyl transpeptidase in the cell activation process. FEBS Letters, 2001, 508, 226-230.	1.3	6
182	Ligand discovery using the inter-ligand Overhauser effect: horse liver alcohol dehydrogenase. Biotechnology Letters, 2002, 24, 623-629.	1.1	6
183	Characterization of the Redox Transition of the XRCC1 N-terminal Domain. Structure, 2014, 22, 1754-1763.	1.6	6
184	Characterization of an anti-Bla g 1 scFv: Epitope mapping and cross-reactivity. Molecular Immunology, 2014, 59, 200-207.	1.0	6
185	Biosynthesis of trehalose by Brevibacterium flavum: Use of long range13C-13C coupling data to characterize triose phosphate isomerase activity. Bioscience Reports, 1985, 5, 509-515.	1.1	5
186	31P-NMR characterization of hen egg yolk and egg white. Biochimica Et Biophysica Acta - Molecular Cell Research, 1986, 887, 118-120.	1.9	5
187	Dynamic Frequency Shifts of Complexed Ligands: An NMR Study ofd-[1-13C,1-2H]Glucose Complexed to theEscherichia coliPeriplasmic Glucose/Galactose Receptor. Journal of Magnetic Resonance, 1997, 128, 101-104.	1.2	5
188	19F NMR Study of the Uptake of 2â€²-Fluoro-5-methyl-Î²-l-arabinofuranosyluracil in Erythrocytes. Biochemical Pharmacology, 1998, 55, 1611-1619.	2.0	5
189	Metabolic transformation of AZTp4A by Ap4A hydrolase regenerates AZT triphosphate. Antiviral Research, 2003, 58, 227-233.	1.9	5
190	NMR assignment of polymerase Î² labeled with 2H, 13C, and 15N in complex with substrate DNA. Biomolecular NMR Assignments, 2007, 1, 33-35.	0.4	5
191	Protein-Mediated Antagonism between HIV Reverse Transcriptase Ligands Nevirapine and MgATP. Biophysical Journal, 2013, 104, 2695-2705.	0.2	5
192	13 C-NMR studies of selectively carboxymethylated [methyl -13 C]methionine-labeled bacterial dihydrofolate reductase. FEBS Letters, 1983, 160, 56-60.	1.3	4
193	Measurement of Cytosolic Calcium Using 19 F NMR. Environmental Health Perspectives, 1990, 84, 95.	2.8	4
194	In Vivo NMR Studies Utilizing Fluorinated Probes. , 1994, , 263-277.		4
195	Synthesis and evaluation of fluorinated calcium chelators with enhanced relaxation characteristics. Magnetic Resonance in Chemistry, 1992, 30, 723-732.	1.1	3
196	Variations in nuclear localization strategies among pol X family enzymes. Traffic, 2018, 19, 723-735.	1.3	3
197	Transitions in DNA polymerase Î² Î¼s-ms dynamics related to substrate binding and catalysis. Nucleic Acids Research, 2018, 46, 7309-7322.	6.5	3
198	In Vivo 2H NMR Studies of Cellular Metabolism. Biological Magnetic Resonance, 1992, , 277-306.	0.4	3

#	Article	IF	Citations
199	Synthesis and Characterization of Two Improved NMR Indicators for Cytosolic Ca2+: 3FBAPTA and 35FBAPTA. Magnetic Resonance in Chemistry, 1996, 34, 440-446.	1.1	2
200	NMR assignment of protein side chains using residue-correlated labeling and NOE spectra. Journal of Magnetic Resonance, 2003, 165, 237-247.	1.2	2
201	A pulse reflectometer for routine monitoring of transmitted and reflected power in physiological NMR studies. Magnetic Resonance in Medicine, 1987, 4, 175-178.	1.9	1
202	Phase-sensitive imaging and its application to the separation of water and fat MRI signals. Journal of Magnetic Resonance, 1990, 88, 205-209.	0.5	0
203	01 Gender effects of ischemia reperfusion injury: The role of estrogen receptor alpha and beta. Journal of Molecular and Cellular Cardiology, 2002, 34, A23.	0.9	0
204	Introduction to Metabolomics and Metabolic Profiling. , 2005, , 299-340.		0
205	Identification and Characterization of Ternary Complexes Using NMR Spectroscopy. , 2008, , 1347-1356.		0
206	Response to Letter to the Editor regarding â€œComparison of phytochemical composition of Ginkgo biloba extracts using a combination of non-targeted and targeted analytical approachesâ€• Analytical and Bioanalytical Chemistry, 2021, 413, 7627-7629.	1.9	0
207	Structure of a Complex of E. coli DNA Polymerase III Îµ Subunit with Phage P1 Homolog of Î¸. FASEB Journal, 2006, 20, .	0.2	0
208	NMR study of the effect of Zn on conformational activation of rat DNA polymerase Î². FASEB Journal, 2010, 24, 876.6.	0.2	0
209	In Vivo Phosphorus NMR Studies of the Hepatic Metabolism of Amino Sugars. , 1990, 56, 349-360.		0
210	Species variations in XRCC1 recruitment strategies for FHA domain-containing proteins. DNA Repair, 2022, 110, 103263.	1.3	0