

# Masatsune Kainosho

## List of Publications by Year in descending order

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163  
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6,131  
citations

81900

39  
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88630

70  
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176  
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176  
docs citations

176  
times ranked

4180  
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR characterization of isomers of C78, C82 and C84 fullerenes. <i>Nature</i> , 1992, 357, 142-145.	27.8	519
2	Optimal isotope labelling for NMR protein structure determinations. <i>Nature</i> , 2006, 440, 52-57.	27.8	442
3	NMR structure of the histidine kinase domain of the <i>E. coli</i> osmosensor EnvZ. <i>Nature</i> , 1998, 396, 88-92.	27.8	248
4	The NMR Structure of a DNA Dodecamer in an Aqueous Dilute Liquid Crystalline Phase. <i>Journal of the American Chemical Society</i> , 2000, 122, 6190-6200.	13.7	201
5	Assignment of the three methionyl carbonyl carbon resonances in <i>Streptomyces subtilisin</i> inhibitor by a carbon-13 and nitrogen-15 double-labeling technique. A new strategy for structural studies of proteins in solution. <i>Biochemistry</i> , 1982, 21, 6273-6279.	2.5	174
6	Solution NMR Structure of Proteorhodopsin. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11942-11946.	13.8	162
7	Dual amino acid-selective and site-directed stable-isotope labeling of the human c-Ha-Ras protein by cell-free synthesis. <i>Journal of Biomolecular NMR</i> , 1998, 11, 295-306.	2.8	126
8	Efficient production of isotopically labeled proteins by cell-free synthesis: A practical protocol. <i>Journal of Biomolecular NMR</i> , 2004, 30, 311-325.	2.8	124
9	The formation and annealing of structural defects in lipid bilayer vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1976, 443, 313-330.	2.6	112
10	Solution Structure of the C-terminal Dimerization Domain of SARS Coronavirus Nucleocapsid Protein Solved by the SAIL-NMR Method. <i>Journal of Molecular Biology</i> , 2008, 380, 608-622.	4.2	111
11	Correlation of carbon-13 and nitrogen-15 chemical shifts in selectively and uniformly labeled proteins by heteronuclear two-dimensional NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 1988, 110, 6256-6258.	13.7	104
12	Relayed anisotropy correlation NMR: determination of dihedral angles in solids. <i>Chemical Physics Letters</i> , 1996, 256, 133-140.	2.6	100
13	Determination of the Complete Structure of a Uniformly Labeled Molecule by Rotational Resonance Solid-State NMR in the Tilted Rotating Frame. <i>Journal of the American Chemical Society</i> , 1999, 121, 4064-4065.	13.7	87
14	High-resolution proton and phosphorus nuclear magnetic resonance spectra of flavine adenine dinucleotide and its conformation in aqueous solution. <i>Biochemistry</i> , 1972, 11, 741-752.	2.5	86
15	Stable isotope labeling methods for protein NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2008, 53, 208-226.	7.5	85
16	Conformational analysis of amino acids and peptides using specific isotope substitution. II. Conformation of serine, tyrosine, phenylalanine, aspartic acid, asparagine, and aspartic acid .beta.-methyl ester in various ionization states. <i>Journal of the American Chemical Society</i> , 1975, 97, 5630-5631.	13.7	84
17	State of molecular motion of cholesterol in lecithin bilayers. <i>Nature</i> , 1975, 256, 582-584.	27.8	69
18	Use of chiral solvents or lanthanide shift reagents to distinguish meso from d or l diastereomers. <i>Journal of the American Chemical Society</i> , 1972, 94, 5924-5926.	13.7	65

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19	SAIL " stereo-array isotope labeling. Quarterly Reviews of Biophysics, 2009, 42, 247-300.	5.7	64
20	Effects of structural defects in sonicated phospholipid vesicles on fusion and ion permeability. Nature, 1975, 256, 584-586.	27.8	61
21	Motion of Scandium Ions in Sc <sup>2+</sup> Observed by <sup>45</sup> Sc Solution NMR. The Journal of Physical Chemistry, 1996, 100, 9579-9581.	2.9	61
22	[ <sup>13</sup> C, <sup>13</sup> C]- and [ <sup>13</sup> C, <sup>1</sup> H]-TROSY in a Triple Resonance Experiment for Ribose-Base and Intrabase Correlations in Nucleic Acids. Journal of the American Chemical Society, 2001, 123, 658-664.	13.7	61
23	Thermal phase transitions in deuterated lecithin bilayers. Chemistry and Physics of Lipids, 1975, 14, 343-349.	3.2	58
24	Proton magnetic resonance studies of lipid bilayer membranes Experimental determination of inter- and intramolecular nuclear relaxation rates in sonicated phosphatidylcholine bilayer vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1976, 433, 282-293.	2.6	57
25	DNA Duplex Dynamics: NMR Relaxation Studies of a Decamer with Uniformly <sup>13</sup> C-Labeled Purine Nucleotides. Journal of Magnetic Resonance, 1998, 135, 310-333.	2.1	55
26	Analysis of the relationship between enzyme activity and its internal motion using nuclear magnetic resonance: <sup>15</sup> N relaxation studies of wild-type and mutant lysozyme. Edited by P. E. Wright. Journal of Molecular Biology, 1999, 286, 1547-1565.	4.2	53
27	Evolution and diversification of the plant gibberellin receptor GID1. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7844-E7853.	7.1	51
28	Trends in Structure and Growth of Higher Fullerenes Isomer Structure of C <sub>86</sub> and C <sub>88</sub> . Molecular Crystals and Liquid Crystals, 2000, 340, 553-558.	0.3	49
29	Rotational diffusion tensor of nucleic acids from <sup>13</sup> C NMR relaxation. Journal of Biomolecular NMR, 2003, 27, 133-142.	2.8	49
30	An Alternative Triple-Resonance Method for the Through-Bond Correlation of Intranucleotide H1' and H8 NMR Signals of Purine Nucleotides. Application to a DNA Dodecamer with Fully <sup>13</sup> C/ <sup>15</sup> N-Labeled Deoxyadenosine Residues. Journal of the American Chemical Society, 1994, 116, 5977-5978.	13.7	48
31	Automated structure determination of proteins with the SAIL-FLYA NMR method. Nature Protocols, 2007, 2, 2896-2902.	12.0	48
32	Hydrogen Exchange Rate of Tyrosine Hydroxyl Groups in Proteins As Studied by the Deuterium Isotope Effect on <sup>13</sup> C Chemical Shifts. Journal of the American Chemical Society, 2009, 131, 18556-18562.	13.7	48
33	Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato)gadolinium (Gd(fod) <sub>3</sub> )-induced contact shifts. Versatile new method to estimate contact and pseudocontact shift contributions to observed lanthanide-induced shifts. Journal of the American Chemical Society, 1975, 97, 330-334.	13.7	46
34	NMR Assignment Methods for the Aromatic Ring Resonances of Phenylalanine and Tyrosine Residues in Proteins. Journal of the American Chemical Society, 2005, 127, 12620-12626.	13.7	46
35	Solution structure of a human cystatin A variant, cystatin A2-98 M65L by NMR spectroscopy. A possible role of the interactions between the N- and C-termini to maintain the inhibitory active form of cystatin A. Biochemistry, 1995, 34, 14637-14648.	2.5	43
36	Determination of <sup>2</sup> J(HN) and <sup>1</sup> J(HN) coupling constants across Watson-Crick base pairs in the Antennapedia homeodomain-DNA complex using TROSY. Journal of Biomolecular NMR, 2000, 16, 39-46.	2.8	43

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37	Aromatic Ring Dynamics, Thermal Activation, and Transient Conformations of a 468 kDa Enzyme by Specific <sup>13</sup> C Labeling and Fast Magic-Angle Spinning NMR. <i>Journal of the American Chemical Society</i> , 2019, 141, 11183-11195.	13.7	43
38	Phosphorus-proton Spin-spin Coupling in the <sup>13</sup> C- <sup>1</sup> H Group. A Comparison of Cyclic and Acyclic Systems. <i>Bulletin of the Chemical Society of Japan</i> , 1969, 42, 1713-1718.	3.2	42
39	The formation and annealing of structural defects in lipid bilayer vesicles. <i>Nucleic Acids and Protein Synthesis</i> , 1976, 443, 313-330.	1.7	42
40	Local structural features around the C-terminal segment of <i>Streptomyces subtilisin</i> inhibitor studied by the carbonyl carbon nuclear magnetic resonances of three phenylalanyl residues. <i>Biochemistry</i> , 1987, 26, 1068-1075.	2.5	42
41	Conformational study of cyclic nucleotides. Lanthanide ion assisted analysis of the hydrogen-1 nuclear magnetic resonance spectra. <i>Journal of the American Chemical Society</i> , 1975, 97, 6839-6843.	13.7	39
42	Preparation and heteronuclear 2D NMR spectroscopy of a DNA dodecamer containing a thymidine residue with a uniformly <sup>13</sup> C-labeled deoxyribose ring. <i>Journal of Biomolecular NMR</i> , 1994, 4, 581-586.	2.8	39
43	Methylation Dependent Functional Switch Mechanism Newly Found in the <i>Escherichia coli</i> Ada Protein. <i>Journal of the American Chemical Society</i> , 1994, 116, 6035-6036.	13.7	39
44	Sonochemical and Triethylborane-Induced Tin Deuteride Reduction for the Highly Diastereoselective Synthesis of (2'R)-2'-Deoxy[2'- <sup>2</sup> H]ribonucleoside Derivatives. <i>Journal of Organic Chemistry</i> , 1995, 60, 6980-6986.	3.2	39
45	NMR structure of the <i>Streptomyces</i> metalloproteinase inhibitor, SMPI, isolated from <i>Streptomyces nigrescens</i> TK-23: another example of an ancestral <sup>13</sup> C-crystallin precursor structure 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1998, 282, 421-433.	4.2	39
46	Nano-mole scale sequential signal assignment by <sup>1</sup> H-detected protein solid-state NMR. <i>Chemical Communications</i> , 2015, 51, 15055-15058.	4.1	39
47	Solution NMR structure of the myosin phosphatase inhibitor protein CPI-17 shows phosphorylation-induced conformational changes responsible for activation 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 2001, 314, 839-849.	4.2	38
48	Application of SAIL phenylalanine and tyrosine with alternative isotope-labeling patterns for protein structure determination. <i>Journal of Biomolecular NMR</i> , 2010, 46, 45-49.	2.8	38
49	Three-dimensional structure determination of a uniformly labeled molecule by frequency-selective dipolar recoupling under magic-angle spinning. <i>Journal of Biomolecular NMR</i> , 2000, 17, 111-123.	2.8	37
50	Medium-sized Cyclophanes. II. The Stereoselective Synthesis and Optical Resolution of 4, 14-Dimethyl[2.2]metacyclophane. <i>Bulletin of the Chemical Society of Japan</i> , 1966, 39, 856-856.	3.2	36
51	Differential isotope-labeling for Leu and Val residues in a protein by <i>E. coli</i> cellular expression using stereo-specifically methyl labeled amino acids. <i>Journal of Biomolecular NMR</i> , 2013, 57, 237-249.	2.8	35
52	Application of <sup>13</sup> C Nuclear Magnetic Resonance Spectroscopy to Molecular Structural Analyses of Antibody Molecules 1. <i>Journal of Biochemistry</i> , 1989, 105, 867-869.	1.7	34
53	Measurement of <sup>13</sup> C- <sup>31</sup> P Scalar Couplings in a 17 kDa Protein Complex with <sup>13</sup> C, <sup>15</sup> N-Labeled DNA Distinguishes the Bland BII Phosphate Conformations of the DNA. <i>Journal of the American Chemical Society</i> , 1997, 119, 9901-9902.	13.7	33
54	A Numb- <sup>1</sup> Mdm2 fuzzy complex reveals an isoform-specific involvement of Numb in breast cancer. <i>Journal of Cell Biology</i> , 2018, 217, 745-762.	5.2	33

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55	Determination of peptide $\phi$ angles in solids by relayed anisotropy correlation NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 1998, 11, 169-175.	2.3	32
56	Characterization of the ATP-Binding Domain of the Sarco(endo)plasmic Reticulum Ca <sup>2+</sup> -ATPase: Probing Nucleotide Binding by Multidimensional NMR. <i>Biochemistry</i> , 2002, 41, 1156-1164.	2.5	32
57	Evaluation of stereo-array isotope labeling (SAIL) patterns for automated structural analysis of proteins with CYANA. <i>Magnetic Resonance in Chemistry</i> , 2006, 44, S152-S157.	1.9	32
58	Developing model systems for the NMR study of substituent effects on the N-H $\cdots$ N hydrogen bond in duplex DNA. <i>Magnetic Resonance in Chemistry</i> , 2001, 39, S159-S165.	1.9	29
59	Detection of the Sulfhydryl Groups in Proteins with Slow Hydrogen Exchange Rates and Determination of Their Proton/Deuteron Fractionation Factors Using the Deuterium-Induced Effects on the <sup>13</sup> C <sup>12</sup> NMR Signals. <i>Journal of the American Chemical Society</i> , 2010, 132, 6254-6260.	13.7	29
60	Highly efficient residue-selective labeling with isotope-labeled Ile, Leu, and Val using a new auxotrophic E. coli strain. <i>Journal of Biomolecular NMR</i> , 2016, 65, 109-119.	2.8	29
61	Structure of the putative 32 kDa myosinase-binding protein from <i>Arabidopsis</i> (At3g16450.1) determined by SAIL-NMR. <i>FEBS Journal</i> , 2008, 275, 5873-5884.	4.7	28
62	Conformational changes in the sulfur analogs of 11- and 12-membered metacyclophanes. <i>Tetrahedron Letters</i> , 1968, 9, 4185-4189.	1.4	27
63	Conformational analysis of amino acids and peptides using specific isotope substitution. I. Conformation of L-phenylalanylglycine. <i>Biochemical and Biophysical Research Communications</i> , 1975, 64, 425-432.	2.1	27
64	Sonochemical and triethylborane-induced tin deuteride reduction for the highly stereoselective synthesis of (2 <sup>R</sup> )-[2- <sup>2</sup> H]-2-deoxyribonucleosides from 2-functionalized ribonucleosides. <i>Tetrahedron Letters</i> , 1993, 34, 1317-1320.	1.4	27
65	Automated NMR structure determination of stereo-array isotope labeled ubiquitin from minimal sets of spectra using the SAIL-FLYA system. <i>Journal of Biomolecular NMR</i> , 2009, 44, 261-272.	2.8	27
66	Construction and performance of an NMR tube with a sample cavity formed within magnetic susceptibility-matched glass. <i>Journal of Magnetic Resonance</i> , 2011, 209, 167-173.	2.1	27
67	Medium-Sized Cyclophanes. VI. High-Temperature NMR Spectra of [2.2]Metacyclophane and Optical Resolution of 4,14-Disubstituted Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , 1968, 41, 218-221.	3.2	26
68	Conformational Dependence of P=O Stretching Vibration Frequency in Six-membered Cyclic Phosphates. <i>Bulletin of the Chemical Society of Japan</i> , 1969, 42, 845-845.	3.2	26
69	NMR with (13)C, (15)N-doubly-labeled DNA: The shape Antennapedia homeodomain complex with a 14-mer DNA duplex. <i>Journal of Biomolecular NMR</i> , 1998, 12, 25-37.	2.8	26
70	NMR structure of Streptomyces killer toxin-like protein, SKLP: further evidence for the wide distribution of single-domain $\beta$ -crystallin superfamily proteins. <i>Journal of Molecular Biology</i> , 2001, 305, 109-120.	4.2	26
71	Exclusively NOESY-based automated NMR assignment and structure determination of proteins. <i>Journal of Biomolecular NMR</i> , 2011, 50, 137-146.	2.8	26
72	Hydrogen exchange during cell-free incorporation of deuterated amino acids and an approach to its inhibition. <i>Journal of Biomolecular NMR</i> , 2011, 51, 467-476.	2.8	26

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73	Use of H/D isotope effects to gather information about hydrogen bonding and hydrogen exchange rates. <i>Journal of Magnetic Resonance</i> , 2014, 241, 148-154.	2.1	26
74	Differential isotope labeling strategy for determining the structure of myristoylated recoverin by NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 1998, 11, 135-152.	2.8	25
75	Stereospecific measurements of the vicinal <sup>1</sup> H- <sup>31</sup> P coupling constants for the diastereotopic C5' methylene protons in a DNA dodecamer with a <sup>13</sup> C/ <sup>2</sup> H doubly labeled residue. Conformational analysis of the torsion angle $\beta$ . <i>Journal of the American Chemical Society</i> , 1995, 117, 7277-7278.	13.7	24
76	Hydrogen Exchange Study on the Hydroxyl Groups of Serine and Threonine Residues in Proteins and Structure Refinement Using NOE Restraints with Polar Side-Chain Groups. <i>Journal of the American Chemical Society</i> , 2011, 133, 17420-17427.	13.7	24
77	Alternative SAIL-Trp for robust aromatic signal assignment and determination of the $\chi_2$ conformation by intra-residue NOEs. <i>Journal of Biomolecular NMR</i> , 2011, 51, 425-435.	2.8	24
78	Differential Large-Amplitude Breathing Motions in the Interface of FKBP12-Drug Complexes. <i>Biochemistry</i> , 2015, 54, 6983-6995.	2.5	24
79	Synthesis of L-threo- and L-erythro-[ <sup>1-13</sup> C, 2,3- <sup>2</sup> H <sub>2</sub> ]amino acids: novel probes for conformational analysis of peptide side chains. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995, , 1603-1609.	0.9	22
80	C5' Methylene Proton Signal Assignment of DNA/RNA Oligomers Labeled with C5'-Monodeuterated Nucleosides by <sup>1</sup> H- <sup>31</sup> P HSQC Spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1996, 34, S40-S46.	1.9	22
81	Studies of physicochemical properties of N-H...N hydrogen bonds in DNA, using selective <sup>15</sup> N-labeling and direct <sup>15</sup> N 1D NMR. <i>Journal of Biomolecular NMR</i> , 2000, 18, 269-277.	2.8	22
82	In situ analysis of the microbial fermentation process by natural abundance <sup>13</sup> C and <sup>31</sup> P NMR spectroscopy. Production of adenosine-5'-triphosphate from adenosine. <i>FEBS Letters</i> , 1977, 80, 385-389.	2.8	21
83	H...N hydrogen bond lengths in double stranded DNA from internucleotide dipolar couplings. <i>Journal of Biomolecular NMR</i> , 2001, 19, 361-365.	2.8	21
84	Structural Basis of the Role of the NikA Ribbon-Helix-Helix Domain in Initiating Bacterial Conjugation. <i>Journal of Molecular Biology</i> , 2008, 384, 690-701.	4.2	21
85	Cell-Free Protein Production for NMR Studies. <i>Methods in Molecular Biology</i> , 2012, 831, 71-84.	0.9	21
86	Expression and purification of a GRAS domain of SLR1, the rice DELLA protein. <i>Protein Expression and Purification</i> , 2014, 95, 248-258.	1.3	21
87	Biosynthesis of lactacystin. Origin of the carbons and stereospecific NMR assignment of the two diastereotopic methyl groups. <i>Tetrahedron Letters</i> , 1994, 35, 5009-5012.	1.4	20
88	Biosynthesis of Lactacystin.. <i>Journal of Antibiotics</i> , 1995, 48, 1015-1020.	2.0	20
89	The 2D { <sup>31</sup> P} Spin-Echo-Difference Constant-Time [ <sup>13</sup> C, <sup>1</sup> H]-HMQC Experiment for Simultaneous Determination of <sup>3</sup> JH3- <sup>2</sup> P and <sup>3</sup> JC4- <sup>2</sup> P in <sup>13</sup> C-Labeled Nucleic Acids and Their Protein Complexes. <i>Journal of Magnetic Resonance</i> , 1999, 140, 491-494.	2.1	20
90	The Crystal Structure of 5,5-Dimethyl-2-oxo-2-hydroxy-1,3,2-dioxaphosphorinane Monohydrate. <i>Bulletin of the Chemical Society of Japan</i> , 1969, 42, 1819-1824.	3.2	19



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91	Elucidation of the mode of interaction of thermolysin with a proteinaceous metalloproteinase inhibitor, SMPI, based on a model complex structure and a structural dynamics analysis 1 Edited by P. E. Wright. Journal of Molecular Biology, 1998, 282, 435-446.	4.2	19
92	Biosynthesis of Quinolactacin A, a TNF Production Inhibitor. Journal of Antibiotics, 2006, 59, 418-427.	2.0	19
93	Measurement of Deoxyribose 3JHH Scalar Couplings Reveals Protein Binding-Induced Changes in the Sugar Puckers of the DNA. Journal of the American Chemical Society, 1998, 120, 821-822.	13.7	18
94	Detection of Proton Acceptor Sites of Hydrogen Bonding in Adenine-Uracil Base Pairs by the Use of <sup>15</sup> N Magnetic Resonance. FEBS Journal, 1981, 117, 553-558.	0.2	18
95	Stereoselective Synthesis of Triply Isotope-Labeled Ser, Cys, and Ala: Amino Acids for Stereoarray Isotope Labeling Technology. Organic Letters, 2008, 10, 2785-2787.	4.6	18
96	Quantitative Measurement of Transverse and Longitudinal Cross-Correlation between <sup>13</sup> C- <sup>1</sup> H Dipolar Interaction and <sup>13</sup> C Chemical Shift Anisotropy: Application to a <sup>13</sup> C-Labeled DNA Duplex. Journal of Magnetic Resonance, 1999, 136, 169-175.	2.1	17
97	Stereodivergent Synthesis of (2S,3S,4R,5R)- and (2S,3S,4R,5S)-[3,4,5-D <sup>3</sup> ]Proline Depending on the Substituent of the <sup>β</sup> -Lactam Ring. Journal of Organic Chemistry, 1999, 64, 9275-9278.	3.2	17
98	Synthesis of <sup>13</sup> C/D Doubly Labeled l-Leucines: Probes for Conformational Analysis of the Leucine Side-chain. Journal of Organic Chemistry, 2001, 66, 5919-5922.	3.2	17
99	Importance of complex formation and contact shifts in the application of lanthanide shift reagents to <sup>1</sup> H and <sup>13</sup> C nmr spectra of aromatic compounds. Tetrahedron Letters, 1973, 14, 3127-3130.	1.4	16
100	Distinctive Solution Conformation of Phosphatase Inhibitor CPI-17 Substituted with Aspartate at the Phosphorylation-site Threonine Residue. Journal of Molecular Biology, 2003, 326, 1539-1547.	4.2	16
101	Nano-Mole Scale Side-Chain Signal Assignment by <sup>1</sup> H-Detected Protein Solid-State NMR by Ultra-Fast Magic-Angle Spinning and Stereo-Array Isotope Labeling. PLoS ONE, 2015, 10, e0122714.	2.5	16
102	Ion permeation across the bilayer of annealed phosphatidylcholine vesicles at elevated temperatures. Concentration dependence and the micelle-bilayer dynamic equilibrium. Biochimica Et Biophysica Acta - Biomembranes, 1977, 468, 411-422.	2.6	15
103	Localisation of methionine residues in bacteriorhodopsin by carbonyl <sup>13</sup> C-NMR with sequence-specific assignments. FEBS Letters, 1993, 327, 7-12.	2.8	15
104	Systematic synthesis of specifically <sup>13</sup> C/ <sup>2</sup> H-labeled nucleosides from [ <sup>13</sup> C <sub>6</sub> ]-d-glucose. Tetrahedron Letters, 1998, 39, 2793-2796.	1.4	15
105	Backbone <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N resonance assignments of an 18.2 kDa protein, E. coli peptidyl-prolyl cis-trans isomerase b (EPPib). Journal of Biomolecular NMR, 2000, 18, 75-76.	2.8	15
106	Carbon-13 NMR Method for the Detection of Correlated Hydrogen Exchange at Adjacent Backbone Peptide Amides and Its Application to Hydrogen Exchange in Five Antiparallel <sup>β</sup> Strands within the Hydrophobic Core of Streptomyces Subtilisin Inhibitor (SSI). Biochemistry, 2005, 44, 11811-11820.	2.5	15
107	Diastereomeric interaction of partially resolved amines facilitated by lanthanide chelates. Evidence for dynamic equilibrium between seven-coordinate and eight-coordinate alkylamine-lanthanide chelate adducts. Journal of the American Chemical Society, 1975, 97, 1761-1765.	13.7	14
108	Significance of the Highly Conserved Gly-4 Residue in Human Cystatin A1. Journal of Biochemistry, 1995, 118, 635-642.	1.7	14

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109	Novel synthesis of 2'-deoxy[5'- <sup>2</sup> H]ribonucleoside derivatives from 5'-O-Ac-2'-deoxy-5'-PhSe-ribonucleoside derivatives. <i>Tetrahedron Letters</i> , 1995, 36, 6699-6700.	1.4	14
110	Synthesis of (5'- <sup>2</sup> S)-[5'- <sup>2</sup> H;1'- <sup>2</sup> ,2'- <sup>3</sup> ,4'- <sup>5</sup> ,5'- <sup>13</sup> C <sub>5</sub> ]-Thymidine via stereoselective deuteration of a 5-oxoribose derivative. <i>Tetrahedron Letters</i> , 1997, 38, 395-398.	1.4	14
111	Novel approach to diastereoselective synthesis of 2'-deoxy[5'- <sup>2</sup> H]ribonucleoside derivatives by reduction of the corresponding 5'-O-acetyl-2'-deoxy-5'-phenylselenoribonucleoside derivatives with a Bu <sub>3</sub> Sn <sup>2</sup> H-Et <sub>3</sub> B system. <i>Chirality</i> , 1997, 9, 435-442.	2.6	14
112	Stereospecific assignment of H5' and H5' <sup>3</sup> in a (5'R)-/(5'S)-deuterium- labeled DNA decamer for (3) J (HH) determination and unambiguous NOE assignments. <i>Journal of Biomolecular NMR</i> , 1998, 11, 103-109.	2.8	14
113	Conformational Changes of the BS2 Operator DNA upon Complex Formation with the Antennapedia Homeodomain Studied by NMR with <sup>13</sup> C/ <sup>15</sup> N-labeled DNA. <i>Journal of Molecular Biology</i> , 1999, 292, 609-617.	4.2	14
114	Solid-Phase Synthesis of Selectively Labeled DNA: Applications for Multidimensional Nuclear Magnetic Resonance Spectroscopy. <i>Methods in Enzymology</i> , 2002, 338, 261-283.	1.0	14
115	Cell-Free Protein Synthesis Using E. coli Cell Extract for NMR Studies. <i>Advances in Experimental Medicine and Biology</i> , 2012, 992, 167-177.	1.6	14
116	Perspective: next generation isotope-aided methods for protein NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2018, 71, 119-127.	2.8	14
117	Evidence for the presence of contact term contribution to lanthanide induced shifts in <sup>1</sup> H and <sup>13</sup> C NMR spectra of pyridine N-oxides. <i>Tetrahedron Letters</i> , 1973, 14, 1573-1576.	1.4	13
118	Highly Diastereoselective Synthesis of (2'S)-[2'- <sup>2</sup> H]-2'-Deoxyribonucleosides from the Corresponding Ribonucleosides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 1995, 14, 333-336.	1.1	13
119	Conformational analysis by quantitative NOE measurements of the <sup>1</sup> H <sup>2</sup> -proton pairs across individual disulfide bonds in proteins. <i>Journal of Biomolecular NMR</i> , 2012, 52, 127-139.	2.8	13
120	Structural and Functional Analysis of the C-Terminal Region of FliG, an Essential Motor Component of Vibrio Na <sup>+</sup> -Driven Flagella. <i>Structure</i> , 2017, 25, 1540-1548.e3.	3.3	13
121	Caution in using nitrogen-15-carbon-13 spin-spin coupling for determining (bio)synthetic pathways. <i>Journal of the American Chemical Society</i> , 1979, 101, 1031-1032.	13.7	12
122	Asymmetric synthesis of (2S,3R)- and (2S,3S)-[2- <sup>13</sup> C;3- <sup>2</sup> H] glutamic acid. <i>Tetrahedron Letters</i> , 2009, 50, 1482-1484.	1.4	12
123	Synthesis of Stereoarray Isotope Labeled (SAIL) Lysine via the $\alpha$ -Head-to-Tail-Conversion of SAIL Glutamic Acid. <i>Organic Letters</i> , 2011, 13, 161-163.	4.6	12
124	EVIDENCE FOR THE PRESENCE OF CONTACT TERM CONTRIBUTION TO LANTHANIDE-INDUCED ISOTROPIC SHIFTS IN <sup>13</sup> C AND <sup>19</sup> F NMR SPECTRA OF ALIPHATIC COMPOUNDS: CAUTION FOR APPLICATIONS OF LANTHANIDE SHIFT REAGENTS. <i>Chemistry Letters</i> , 1972, 1, 1061-1064.	1.3	11
125	Carbon-13 nuclear magnetic resonance spectra of gross plant tissues containing starch. <i>Tetrahedron Letters</i> , 1978, 19, 1563-1566.	1.4	11
126	Synthesis of phenylalanines regiospecifically labelled with deuterium in the aromatic ring. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1994, 34, 831-837.	1.0	11



#	ARTICLE	IF	CITATIONS
127	Studies of Phosphorylation. V. The Synthesis of Inosine-5- $\epsilon^2$ -thiophosphates. Bulletin of the Chemical Society of Japan, 1971, 44, 460-463.	3.2	10
128	Collision-Induced Dissociation Spectra Obtained by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Using a $^{13}\text{C}$ , $^{15}\text{N}$ -Doubly Depleted Protein. Analytical Chemistry, 1998, 70, 3333-3336.	6.5	10
129	Stereo-Array Isotope Labeling Method for Studying Protein Structure and Dynamics. Advances in Experimental Medicine and Biology, 2012, 992, 83-93.	1.6	10
130	$^{13}\text{C}$ nuclear magnetic resonance spectrum of dried fruits and its histological implications. Tetrahedron Letters, 1976, 17, 4757-4760.	1.4	9
131	Reductive cleavage and regeneration of the disulfide bonds in Streptomyces subtilisin inhibitor (SSI) as studied by the carbonyl $^{13}\text{C}$ NMR resonances of cysteinyl residues. Journal of Biomolecular NMR, 1991, 1, 49-64.	2.8	9
132	Sequence-Specific DNA Recognition of the Escherichia coli Ada Protein Associated with the Methylation-Dependent Functional Switch for Transcriptional Regulation. Journal of Biochemistry, 1995, 118, 1184-1191.	1.7	9
133	Internal motion of a tryptophan residue in Streptomyces subtilisin inhibitor: Deuterium nuclear magnetic resonance in solution. Proteins: Structure, Function and Bioinformatics, 1988, 4, 131-136.	2.6	8
134	$^1\text{H}$ -detected $^1\text{H}$ - $^1\text{H}$ correlation spectroscopy of a stereo-array isotope labeled amino acid under fast magic-angle spinning. Journal of Magnetic Resonance, 2010, 203, 253-256.	2.1	8
135	Pressure dependence of side chain $^{13}\text{C}$ chemical shifts in model peptides Ac-Gly-Gly-Xxx-Ala-NH $_2$ . Journal of Biomolecular NMR, 2017, 69, 53-67.	2.8	8
136	$^{13}\text{C}$ NMR studies of the intact plant tissues. Cytoplasmic aucubin and sucrose in a single seed of aucuba japonica. Tetrahedron Letters, 1976, 17, 4279-4282.	1.4	7
137	Synthesis of [ $^2\text{H}$ ]-nucleosides with defined ( $^2\text{S}$ )/( $^2\text{R}$ ) - ratios. Tetrahedron Letters, 1998, 39, 2873-2876.	1.4	7
138	Structural comparison between wild-type and P25S human cystatin A by NMR spectroscopy. Does this mutation affect the alpha-helix conformation?. Journal of Structural and Functional Genomics, 2000, 1, 26-42.	1.2	7
139	Sugar conformation of a stereospecific 2'-R or 2'-S deuterium-labeled DNA decamer studied with proton-proton J coupling constants. Journal of Biomolecular NMR, 2001, 19, 19-31.	2.8	7
140	Automated resonance assignment of the 21 kDa stereo-array isotope labeled thioldisulfide oxidoreductase DsbA. Journal of Magnetic Resonance, 2014, 249, 88-93.	2.1	7
141	$^{13}\text{C}$ -NMR studies on disulfide bond isomerization in bovine pancreatic trypsin inhibitor (BPTI). Journal of Biomolecular NMR, 2016, 66, 37-53.	2.8	7
142	Recent developments in isotope-aided NMR methods for supramolecular protein complexes – SAIL aromatic TROSY. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129439.	2.4	7
143	Synthesis of [ $^2\text{H}$ ]-L-cystine. Journal of Labelled Compounds and Radiopharmaceuticals, 1991, 29, 867-874.	1.0	5
144	Isotope-Aided Methods for Biological NMR Spectroscopy: Past, Present, and Future. , 2018, , 37-61.		5

#	ARTICLE	IF	CITATIONS
145	Conformation of $\hat{I}\pm$ -Aminobutyric Acid in Aqueous Solution. Bulletin of the Chemical Society of Japan, 1971, 44, 2577-2582.	3.2	4
146	ASSIGNMENT OF $\hat{I}^2$ -PROTON RESONANCES OF L-HISTIDINE BY STEREOSELECTIVE DEUTERIUM SUBSTITUTION. Chemistry Letters, 1979, 8, 395-396.	1.3	4
147	Dihedral-angle dependence of the vicinal $^{15}\text{N}$ , $^{13}\text{C}$ spin-coupling constants. A new NMR parameter for the conformational analysis of amino acids and peptides. Magnetic Resonance in Chemistry, 1981, 17, 46-49.	0.7	3
148	Letter to the editor: $^1\text{H}$ , $^{13}\text{C}$ and $^{15}\text{N}$ backbone assignment of a 32 kDa hypothetical protein from Arabidopsis thaliana, At3g16450.1. Journal of Biomolecular NMR, 2004, 30, 357-358.	2.8	2
149	A New Stable-Isotope-Aided NMR Method for Structural Determinations of Proteins: The SAIL Method. Seibutsu Butsuri, 2004, 44, 200-205.	0.1	2
150	Phosphorylation-induced conformational change responsible for the function of a myosin phosphatase inhibitor, CPI-17. Science and Technology of Advanced Materials, 2004, 5, 383-386.	6.1	1
151	Pressure dependence of side chain $^1\text{H}$ and $^{15}\text{N}$ -chemical shifts in the model peptides Ac-Gly-Gly-Xxx-Ala-NH <sub>2</sub> . Journal of Biomolecular NMR, 2020, 74, 381-399.	2.8	1
152	Direct Observation of Hydrogen Bonding in Biomolecules by NMR. Seibutsu Butsuri, 2000, 40, 379-384.	0.1	1
153	Stable-Isotope-Aided NMR Spectroscopy. , 2016, , 1-18.		1
154	Backbone $^1\text{H}$ , $^{13}\text{C}$ , and $^{15}\text{N}$ resonance assignments of Streptomyces subtilisin inhibitor. Journal of Biomolecular NMR, 1999, 14, 285-286.	2.8	0
155	Recent Developments in Stable-Isotope-Aided Methods for Protein NMR Spectroscopy. , 2008, , 215-222.		0
156	1B1424 Solution NMR analysis of FUG C-terminal domain derived from Na <sup>+</sup> -driven motor of Vibrio(Proteins: Structure & Function I, Oral Presentation, The 50th Annual Meeting of the Biophysical) Tj ETQq0 0 0orgBT /Ovælock 10 Tf		0
157	Stable-Isotope-Aided NMR Spectroscopy. , 2018, , 469-486.		0
158	Conformational features and ionization states of Lys side chains in a protein studied using the stereo-array isotope labeling (SAIL) method. Magnetic Resonance, 2021, 2, 223-237.	1.9	0
159	<SUP>13</SUP>C-NMR Relaxation Analysis of Nucleic Acid Structure and Dynamics. Seibutsu Butsuri, 2000, 40, 191-194.	0.1	0
160	Structural Basis of a Myosin Phosphatase Inhibitory Protein, CPI-17. Seibutsu Butsuri, 2005, 45, 72-77.	0.1	0
161	Protein NMR Study Expanded by the SAIL Method. Seibutsu Butsuri, 2009, 49, 206-209.	0.1	0
162	A NEW STRATEGY OF FOOD ANALYSIS USING LIQUID CHROMATOGRAPHY AND $^{13}\text{C}$ NMR SPECTROSCOPY. , 1979, , 59-80.		0

#	ARTICLE	IF	CITATIONS
163	Stereo-Array Isotope Labeling (SAIL) and Related Methods. , 2021, , 1-3.		0