

Gottfried Otting

List of Publications by Year in descending order

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301
papers

20,698
citations

9784

73
h-index

13375

130
g-index

484
all docs

484
docs citations

484
times ranked

12909
citing authors

#	ARTICLE	IF	CITATIONS
1	Clean TOCSY for proton spin system identification in macromolecules. Journal of the American Chemical Society, 1988, 110, 7870-7872.	13.7	1,191
2	Protein hydration in aqueous solution. Science, 1991, 254, 974-980.	12.6	795
3	Homeodomain-DNA recognition. Cell, 1994, 78, 211-223.	28.9	770
4	Alignment of Biological Macromolecules in Novel Nonionic Liquid Crystalline Media for NMR Experiments. Journal of the American Chemical Society, 2000, 122, 7793-7797.	13.7	600
5	Stereospecific nuclear magnetic resonance assignments of the methyl groups of valine and leucine in the DNA-binding domain of the 434 repressor by biosynthetically directed fractional carbon-13 labeling. Biochemistry, 1989, 28, 7510-7516.	2.5	597
6	The structure of the Antennapedia homeodomain determined by NMR spectroscopy in solution: Comparison with prokaryotic repressors. Cell, 1989, 59, 573-580.	28.9	513
7	Protein NMR Using Paramagnetic Ions. Annual Review of Biophysics, 2010, 39, 387-405.	10.0	354
8	Heteronuclear filters in two-dimensional [¹ H, ¹ H]-NMR spectroscopy: combined use with isotope labelling for studies of macromolecular conformation and intermolecular interactions. Quarterly Reviews of Biophysics, 1990, 23, 39-96.	5.7	350
9	Proton exchange rates from amino acid side chains—implications for image contrast. Magnetic Resonance in Medicine, 1996, 35, 30-42.	3.0	309
10	Studies of protein hydration in aqueous solution by direct NMR observation of individual protein-bound water molecules. Journal of the American Chemical Society, 1989, 111, 1871-1875.	13.7	308
11	Determination of the Nuclear Magnetic Resonance Solution Structure of an Antennapedia Homeodomain-DNA Complex. Journal of Molecular Biology, 1993, 234, 1084-1097.	4.2	278
12	NMR structure of the death domain of the p75 neurotrophin receptor. EMBO Journal, 1997, 16, 4999-5005.	7.8	269
13	NMR Structure Determination of Protein-Ligand Complexes by Lanthanide Labeling. Accounts of Chemical Research, 2007, 40, 206-212.	15.6	267
14	Hydration of Proteins. Journal of Molecular Biology, 1993, 231, 1040-1048.	4.2	235
15	The structure of the homeodomain and its functional implications. Trends in Genetics, 1990, 6, 323-329.	6.7	229
16	NMR observation of individual molecules of hydration water bound to DNA duplexes: direct evidence for a spine of hydration water present in aqueous solution. Nucleic Acids Research, 1992, 20, 6549-6553.	14.5	221
17	Dynamics of Protein and Peptide Hydration. Journal of the American Chemical Society, 2004, 126, 102-114.	13.7	215
18	Saprosin fold revealed by the NMR structure of NK-lysin. Nature Structural Biology, 1997, 4, 793-795.	9.7	214

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19	NMR studies of water bound to biological molecules. Progress in Nuclear Magnetic Resonance Spectroscopy, 1997, 31, 259-285.	7.5	204
20	Identification of Protein Surfaces by NMR Measurements with a Paramagnetic Gd(III) Chelate. Journal of the American Chemical Society, 2002, 124, 372-373.	13.7	201
21	Disulfide bond isomerization in BPTI and BPTI(G36S): An NMR study of correlated mobility in proteins. Biochemistry, 1993, 32, 3571-3582.	2.5	173
22	Prospects for lanthanides in structural biology by NMR. Journal of Biomolecular NMR, 2008, 42, 1-9.	2.8	172
23	Nubat: an interactive software tool for fitting $\hat{\Gamma}^{\text{PC}}$ -tensors to molecular coordinates using pseudocontact shifts. Journal of Biomolecular NMR, 2008, 41, 179-189.	2.8	168
24	Paramagnetic labelling of proteins and oligonucleotides for NMR. Journal of Biomolecular NMR, 2010, 46, 101-112.	2.8	157
25	Origin of $\hat{\Gamma}_{\text{H}}$ and $\hat{\Gamma}_{\text{N}}$ ridges in 2D NMR spectra and procedures for suppression. Journal of Magnetic Resonance, 1986, 66, 187-193.	0.5	152
26	The Death-domain Fold of the ASC PYRIN Domain, Presenting a Basis for PYRIN/PYRIN Recognition. Journal of Molecular Biology, 2003, 332, 1155-1163.	4.2	143
27	Nanometer-Scale Distance Measurements in Proteins Using Gd ³⁺ Spin Labeling. Journal of the American Chemical Society, 2010, 132, 9040-9048.	13.7	143
28	Main protease mutants of SARS-CoV-2 variants remain susceptible to nirmatrelvir. Bioorganic and Medicinal Chemistry Letters, 2022, 62, 128629.	2.2	131
29	Structure determination of the Antp(C39 $\hat{\Gamma}$ S) homeodomain from nuclear magnetic resonance data in solution using a novel strategy for the structure calculation with the programs DIANA, CALIBA, HABAS and GLOMSA. Journal of Molecular Biology, 1991, 217, 531-540.	4.2	130
30	Lanthanide Labeling Offers Fast NMR Approach to 3D Structure Determinations of Protein-Protein Complexes. Journal of the American Chemical Society, 2006, 128, 3696-3702.	13.7	125
31	Pseudocontact shifts in biomolecular NMR using paramagnetic metal tags. Progress in Nuclear Magnetic Resonance Spectroscopy, 2017, 98-99, 20-49.	7.5	125
32	Determination of the three-dimensional structure of the Antennapedia homeodomain from Drosophila in solution by ¹ H nuclear magnetic resonance spectroscopy. Journal of Molecular Biology, 1990, 214, 183-197.	4.2	122
33	NMR structure of Escherichia coli glutaredoxin 3-glutathione mixed disulfide complex: implications for the enzymatic mechanism 1 Edited by P. E. Wright. Journal of Molecular Biology, 1999, 286, 541-552.	4.2	121
34	Binding of Low Molecular Weight Inhibitors Promotes Large Conformational Changes in the Dengue Virus NS2B-NS3 Protease: Fold Analysis by Pseudocontact Shifts. Journal of the American Chemical Society, 2011, 133, 19205-19215.	13.7	119
35	NMR spectroscopy of hydroxyl protons in aqueous solutions of peptides and proteins. Journal of Biomolecular NMR, 1992, 2, 447-465.	2.8	117
36	A Dipicolinic Acid Tag for Rigid Lanthanide Tagging of Proteins and Paramagnetic NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 10486-10487.	13.7	117

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37	Solvent suppression using a spin lock in 2D and 3D NMR spectroscopy with H ₂ O solutions. <i>Journal of Magnetic Resonance</i> , 1989, 85, 608-613.	0.5	115
38	Solution structure of the DNA-binding domain and model for the complex of multifunctional hexameric arginine repressor with DNA. <i>Nature Structural Biology</i> , 1997, 4, 819-826.	9.7	115
39	Protein Hydration Viewed by High-Resolution NMR Spectroscopy: Implications for Magnetic Resonance Image Contrast. <i>Accounts of Chemical Research</i> , 1995, 28, 171-177.	15.6	114
40	Protein hydration studied with homonuclear 3D ¹ H NMR experiments. <i>Journal of Biomolecular NMR</i> , 1991, 1, 209-215.	2.8	113
41	Precise vicinal coupling constants $^3J_{\text{HNH}}$ in proteins from nonlinear fits of J-modulated [¹⁵ N, ¹ H]-COSY experiments. <i>Journal of Biomolecular NMR</i> , 1992, 2, 257-274.	2.8	112
42	Organic solvents identify specific ligand binding sites on protein surfaces. <i>Nature Biotechnology</i> , 1997, 15, 264-268.	17.5	108
43	Spin-state selection filters for the measurement of heteronuclear one-bond coupling constants. <i>Journal of Biomolecular NMR</i> , 1998, 12, 435-441.	2.8	107
44	Proton exchange with internal water molecules in the protein BPTI in aqueous solution. <i>Journal of the American Chemical Society</i> , 1991, 113, 4363-4364.	13.7	106
45	Hydrophobic Interactions in a Cyanobacterial Plastocyanin-Cytochrome f Complex. <i>Journal of the American Chemical Society</i> , 2001, 123, 10444-10453.	13.7	106
46	Protein Structure Determination from Pseudocontact Shifts Using ROSETTA. <i>Journal of Molecular Biology</i> , 2012, 416, 668-677.	4.2	106
47	DOTA-Amide Lanthanide Tag for Reliable Generation of Pseudocontact Shifts in Protein NMR Spectra. <i>Bioconjugate Chemistry</i> , 2011, 22, 2118-2125.	3.6	104
48	Gadolinium Tagging for High-Precision Measurements of 6 nm Distances in Protein Assemblies by EPR. <i>Journal of the American Chemical Society</i> , 2011, 133, 10418-10421.	13.7	104
49	Molecular electroporation: a unifying concept for the description of membrane pore formation by antibacterial peptides, exemplified with NK-lysins. <i>FEBS Letters</i> , 1999, 462, 155-158.	2.8	103
50	Structure Determination of Protein-Ligand Complexes by Transferred Paramagnetic Shifts. <i>Journal of the American Chemical Society</i> , 2006, 128, 12910-12916.	13.7	102
51	Specificity of Urea Binding to Proteins. <i>Journal of the American Chemical Society</i> , 1994, 116, 9670-9674.	13.7	101
52	Support of ¹ H NMR assignments in proteins by biosynthetically directed fractional ¹³ C-labeling. <i>Journal of Biomolecular NMR</i> , 1992, 2, 323-334.	2.8	99
53	Thioredoxin Fold as Homodimerization Module in the Putative Chaperone ERp29. <i>Structure</i> , 2001, 9, 457-471.	3.3	97
54	Lanthanide-Binding Peptides for NMR Measurements of Residual Dipolar Couplings and Paramagnetic Effects from Multiple Angles. <i>Journal of the American Chemical Society</i> , 2008, 130, 1681-1687.	13.7	96

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55	NMR detection of hydration water in the intermolecular interface of a protein-DNA complex. Journal of the American Chemical Society, 1993, 115, 1189-1190.	13.7	95
56	NMR identification of hydrophobic cavities with low water occupancies in protein structures using small gas molecules. Nature Structural and Molecular Biology, 1997, 4, 396-404.	8.2	95
57	Backbone Assignment of Fully Protonated Solid Proteins by ^1H Detection and Ultrafast Magic-Angle Spinning NMR Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 10756-10759.	13.8	95
58	A fluorescence quenching assay to discriminate between specific and nonspecific inhibitors of dengue virus protease. Analytical Biochemistry, 2009, 395, 195-204.	2.4	92
59	Multiple-Site Labeling of Proteins with Unnatural Amino Acids. Angewandte Chemie - International Edition, 2012, 51, 2243-2246.	13.8	89
60	Optimization of an Escherichia coli system for cell-free synthesis of selectively ^{15}N -labelled proteins for rapid analysis by NMR spectroscopy. FEBS Journal, 2004, 271, 4084-4093.	0.2	87
61	Rapid pulse length determination in high-resolution NMR. Journal of Magnetic Resonance, 2005, 176, 115-119.	2.1	86
62	Mutations in the COCH gene are a frequent cause of autosomal dominant progressive cochleo-vestibular dysfunction, but not of Meniere's disease. European Journal of Human Genetics, 2003, 11, 744-748.	2.8	85
63	Fast Structure-Based Assignment of ^{15}N HSQC Spectra of Selectively ^{15}N -Labeled Paramagnetic Proteins. Journal of the American Chemical Society, 2004, 126, 2963-2970.	13.7	83
64	New nuclear magnetic resonance experiment for measurements of the vicinal coupling constants $^3J_{\text{HN},\alpha}$ in proteins. Journal of the American Chemical Society, 1990, 112, 3663-3665.	13.7	82
65	Site-Specific Labelling of Proteins with a Rigid Lanthanide-Binding Tag. ChemBioChem, 2006, 7, 1599-1604.	2.6	82
66	Lanthanide Tags for Site-Specific Ligation to an Unnatural Amino Acid and Generation of Pseudocontact Shifts in Proteins. Bioconjugate Chemistry, 2013, 24, 260-268.	3.6	81
67	Nuclear Magnetic Resonance Spectroscopy of a DNA Complex with the Uniformly ^{13}C -Labeled Antennapedia Homeodomain and Structure Determination of the DNA-bound Homeodomain. Journal of Molecular Biology, 1993, 234, 1070-1083.	4.2	80
68	Water molecules in DNA recognition II: a molecular dynamics view of the structure and hydration of the trp operator 1 Edited by B. Honig. Journal of Molecular Biology, 1998, 282, 859-873.	4.2	80
69	Protein engineering with unnatural amino acids. Current Opinion in Structural Biology, 2013, 23, 581-587.	5.7	80
70	Site-specific Labelling with a Metal Chelator for Protein-structure Refinement. Journal of Biomolecular NMR, 2004, 29, 351-361.	2.8	78
71	Flaviviral Protease Inhibitors Identified by Fragment-Based Library Docking into a Structure Generated by Molecular Dynamics. Journal of Medicinal Chemistry, 2009, 52, 4860-4868.	6.4	77
72	Improving a Natural Enzyme Activity through Incorporation of Unnatural Amino Acids. Journal of the American Chemical Society, 2011, 133, 326-333.	13.7	77

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73	Three-Dimensional Protein Fold Determination from Backbone Amide Pseudocontact Shifts Generated by Lanthanide Tags at Multiple Sites. <i>Structure</i> , 2013, 21, 883-890.	3.3	77
74	Efficient purging scheme for proton-detected heteronuclear two-dimensional NMR. <i>Journal of Magnetic Resonance</i> , 1988, 76, 569-574.	0.5	76
75	NMR Analysis of the Dynamic Exchange of the NS2B Cofactor between Open and Closed Conformations of the West Nile Virus NS2B-NS3 Protease. <i>PLoS Neglected Tropical Diseases</i> , 2009, 3, e561.	3.0	75
76	Spectroscopic selection of distance measurements in a protein dimer with mixed nitroxide and Gd ³⁺ spin labels. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4355.	2.8	73
77	Nanometer-Range Distance Measurement in a Protein Using Mn ²⁺ Tags. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 157-160.	4.6	72
78	Memory T Cell RNA Rearrangement Programmed by Heterogeneous Nuclear Ribonucleoprotein hnRNPLL. <i>Immunity</i> , 2008, 29, 863-875.	14.3	71
79	Discovery of a Non-Peptidic Inhibitor of West Nile Virus NS3 Protease by High-Throughput Docking. <i>PLoS Neglected Tropical Diseases</i> , 2009, 3, e356.	3.0	71
80	Experimental NMR techniques for studies of protein-ligand interactions. <i>Current Opinion in Structural Biology</i> , 1993, 3, 760-768.	5.7	69
81	NMR analysis of in vitro-synthesized proteins without purification: a high-throughput approach. <i>FEBS Letters</i> , 2002, 524, 159-162.	2.8	69
82	Cell-Free Transcription/Translation from PCR-Amplified DNA for High-Throughput NMR Studies. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3356-3358.	13.8	69
83	Protein conformation by EPR spectroscopy using gadolinium tags clicked to genetically encoded p-azido-phenylalanine. <i>Chemical Communications</i> , 2015, 51, 15898-15901.	4.1	67
84	An \hat{I}^2 -HSQC- \hat{I}^2 Experiment for Spin-State Selective Editing of IS Cross Peaks. <i>Journal of Magnetic Resonance</i> , 1998, 133, 364-367.	2.1	66
85	In Vivo Protein Cyclization Promoted by a Circularly Permuted <i>Synechocystis</i> sp. PCC6803 DnaB Mini-intein. <i>Journal of Biological Chemistry</i> , 2002, 277, 7790-7798.	3.4	66
86	¹⁵ N-Labelled proteins by cell-free protein synthesis.. <i>FEBS Journal</i> , 2006, 273, 4154-4159.	4.7	66
87	Translational incorporation of L-3,4-dihydroxyphenylalanine into proteins. <i>FEBS Journal</i> , 2005, 272, 3162-3171.	4.7	64
88	Hydration of DNA in aqueous solution: NMR evidence for a kinetic destabilization of the minor groove hydration of d-(TTAA) ₂ versus d-(AATT) ₂ segments. <i>Nucleic Acids Research</i> , 1994, 22, 2249-2254.	14.5	63
89	Direct NMR observation of the Cys-14 thiol proton of reduced <i>Escherichia coli</i> glutaredoxin-3 supports the presence of an active site thiol-thiolate hydrogen bond. <i>FEBS Letters</i> , 1999, 449, 196-200.	2.8	63
90	NMR structure of the N-terminal domain of <i>E. coli</i> DnaB helicase: implications for structure rearrangements in the helicase hexamer. <i>Structure</i> , 1999, 7, 681-690.	3.3	62

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91	Crystal and Solution Structures of the Helicase-binding Domain of Escherichia coli Primase. Journal of Biological Chemistry, 2005, 280, 11495-11504.	3.4	62
92	<i>De Novo</i> Discovery of Nonstandard Macrocyclic Peptides as Noncompetitive Inhibitors of the Zika Virus NS2B-NS3 Protease. ACS Medicinal Chemistry Letters, 2019, 10, 168-174.	2.8	62
93	Protein structure and interactions by combined use of sequential NMR assignments and isotope labeling. Journal of the American Chemical Society, 1987, 109, 1090-1092.	13.7	61
94	Glutaredoxin-3 from Escherichia coli. Journal of Biological Chemistry, 1996, 271, 6736-6745.	3.4	61
95	Role of Charged and Hydrophobic Residues in the Oligomerization of the PYRIN Domain of ASC. Biochemistry, 2005, 44, 575-583.	2.5	61
96	Protein hydration in aqueous solution. Faraday Discussions, 1992, 93, 35-45.	3.2	60
97	¹ H-Detected INEPT-INADEQUATE at Natural ¹³ C Abundance. Journal of Magnetic Resonance Series A, 1995, 113, 128-130.	1.6	60
98	Pathway of chymotrypsin evolution suggested by the structure of the FMN-binding protein from Desulfovibrio vulgaris (Miyazaki F). Nature Structural Biology, 1997, 4, 975-979.	9.7	60
99	NMR structure of the LCCL domain and implications for DFNA9 deafness disorder. EMBO Journal, 2001, 20, 5347-5353.	7.8	60
100	Cell-Free Protein Synthesis for Analysis by NMR Spectroscopy. Methods in Molecular Biology, 2008, 426, 257-268.	0.9	60
101	Sequence-Specific and Stereospecific Assignment of Methyl Groups Using Paramagnetic Lanthanides. Journal of the American Chemical Society, 2007, 129, 13749-13757.	13.7	59
102	Gd ³⁺ Spin Labeling for Measuring Distances in Biomacromolecules. Methods in Enzymology, 2015, 563, 415-457.	1.0	59
103	How reliable are pseudocontact shifts induced in proteins and ligands by mobile paramagnetic metal tags? A modelling study. Journal of Biomolecular NMR, 2013, 56, 203-216.	2.8	58
104	Editing of 2D ¹ H NMR spectra using X half-filters. combined use with residue-selective ¹⁵ N labeling of proteins. Journal of Magnetic Resonance, 1986, 70, 500-505.	0.5	57
105	POMA: A Complete Mathematica Implementation of the NMR Product-Operator Formalism. Journal of Magnetic Resonance Series A, 1993, 101, 103-105.	1.6	57
106	Lipid membrane binding of NK-lysin. FEBS Letters, 1998, 425, 341-344.	2.8	57
107	Solution Structure of a Naturally-Occurring Zinc ²⁺ Peptide Complex Demonstrates that the N-Terminal Zinc-Binding Module of the Lasp-1 LIM Domain Is an Independent Folding Unit. Biochemistry, 1996, 35, 12723-12732.	2.5	56
108	Weak Alignment of Paramagnetic Proteins Warrants Correction for Residual CSA Effects in Measurements of Pseudocontact Shifts. Journal of the American Chemical Society, 2005, 127, 17190-17191.	13.7	56

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109	Efficient β -tensor determination and NH assignment of paramagnetic proteins. <i>Journal of Biomolecular NMR</i> , 2006, 35, 79-87.	2.8	56
110	[Ln(DPA) ₃] ³⁺ Is a Convenient Paramagnetic Shift Reagent for Protein NMR Studies. <i>Journal of the American Chemical Society</i> , 2009, 131, 10352-10353.	13.7	56
111	NMR structure determination reveals that the homeodomain is connected through a flexible linker to the main body in the <i>Drosophila Antennapedia</i> protein.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 10738-10742.	7.1	55
112	Polypeptide hydration in mixed solvents at low temperatures. <i>Journal of the American Chemical Society</i> , 1992, 114, 7093-7095.	13.7	55
113	Warum Pentose- und nicht Hexose-NucleinsÄuren??. Teil VI. â€ˆHomo-DNSâ€™:1H-,13C-,31P- und15N-NMR-spektroskopische Untersuchung von ddGlc(A-A-A-A-T-T-T-T) in wÄssriger LÄ¶sung. <i>Helvetica Chimica Acta</i> , 1993, 76, 2701-2756.	1.6	55
114	Amino-acid Type Identification in 15N-HSQC Spectra by Combinatorial Selective 15N-labelling. <i>Journal of Biomolecular NMR</i> , 2006, 34, 13-21.	2.8	55
115	Gadolinium(III) Spin Labels for Highâ€™Sensitivity Distance Measurements in Transmembrane Helices. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11831-11834.	13.8	54
116	The unstructured C-terminus of the β , subunit of <i>Escherichia coli</i> DNA polymerase III holoenzyme is the site of interaction with the β subunit. <i>Nucleic Acids Research</i> , 2007, 35, 2813-2824.	14.5	53
117	Sensitive NMR Approach for Determining the Binding Mode of Tightly Binding Ligand Molecules to Protein Targets. <i>Journal of the American Chemical Society</i> , 2016, 138, 4539-4546.	13.7	53
118	NMR Structure of <i>Citrobacter freundii</i> AmpD, Comparison with Bacteriophage T7 Lysozyme and Homology with PGRP Domains. <i>Journal of Molecular Biology</i> , 2003, 327, 833-842.	4.2	52
119	W-band orientation selective DEER measurements on a Gd ³⁺ /nitroxide mixed-labeled protein dimer with a dual mode cavity. <i>Journal of Magnetic Resonance</i> , 2013, 227, 66-71.	2.1	52
120	Bound or Free: Interaction of the C-Terminal Domain of <i>Escherichia coli</i> Single-Stranded DNA-Binding Protein (SSB) with the Tetrameric Core of SSB. <i>Biochemistry</i> , 2014, 53, 1925-1934.	2.5	52
121	Thiolâ€™ene reaction: a versatile tool in site-specific labelling of proteins with chemically inert tags for paramagnetic NMR. <i>Chemical Communications</i> , 2012, 48, 2704.	4.1	51
122	3â€™Mercaptoâ€™2,6â€™Pyridinedicarboxylic Acid: A Small Lanthanideâ€™Binding Tag for Protein Studies by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2010, 16, 3827-3832.	3.3	50
123	Binding mode of the activityâ€™modulating Câ€™terminal segment of $\langle NS \rangle_2 B$ to $\langle NS \rangle_3$ in the dengue virus $\langle NS \rangle_2 B$ â€™ $\langle NS \rangle_3$ protease. <i>FEBS Journal</i> , 2014, 281, 1517-1533.	4.7	50
124	Improved Spectral Resolution in 1H NMR Spectroscopy by Homonuclear Semiselective Shaped Pulse Decoupling during Acquisition. <i>Journal of the American Chemical Society</i> , 1994, 116, 8847-8848.	13.7	49
125	High-yield cell-free protein synthesis for site-specific incorporation of unnatural amino acids at two sites. <i>Biochemical and Biophysical Research Communications</i> , 2012, 418, 652-656.	2.1	49
126	NMR studies of ligand binding. <i>Current Opinion in Structural Biology</i> , 2018, 48, 16-22.	5.7	48

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127	Determination of the Nuclear Magnetic Resonance Structure of the DNA-binding Domain of the P22 c2 Repressor (1 to 76) in Solution and Comparison with the DNA-binding Domain of the 434 Repressor. <i>Journal of Molecular Biology</i> , 1994, 235, 1003-1020.	4.2	47
128	Water molecules in DNA recognition I: hydration lifetimes of trp operator DNA in solution measured by NMR spectroscopy 1 Edited by B. Honig. <i>Journal of Molecular Biology</i> , 1998, 282, 847-858.	4.2	47
129	Modulation of the distance dependence of paramagnetic relaxation enhancements by CSA—DSA cross-correlation. <i>Journal of Magnetic Resonance</i> , 2004, 171, 233-243.	2.1	46
130	The dengue virus NS2B—NS3 protease retains the closed conformation in the complex with BPTI. <i>FEBS Letters</i> , 2014, 588, 2206-2211.	2.8	46
131	Biocompatible Macrocyclization between Cysteine and 2-Cyanopyridine Generates Stable Peptide Inhibitors. <i>Organic Letters</i> , 2019, 21, 4709-4712.	4.6	46
132	Solution conformations of a linked construct of the Zika virus NS2B-NS3 protease. <i>Antiviral Research</i> , 2017, 142, 141-147.	4.1	45
133	Selective Distance Measurements Using Triple Spin Labeling with Gd ³⁺ , Mn ²⁺ , and a Nitroxide. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5277-5282.	4.6	45
134	A Probehead with Switchable Quality Factor. Suppression of Radiation Damping. <i>Journal of Magnetic Resonance Series B</i> , 1995, 106, 199-201.	1.6	44
135	Engineering of a bis-chelator motif into a protein α -helix for rigid lanthanide binding and paramagnetic NMR spectroscopy. <i>Chemical Communications</i> , 2011, 47, 7368.	4.1	44
136	NMR structure of oxidized glutaredoxin 3 from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2000, 303, 423-432.	4.2	43
137	Determination of scalar coupling constants by inverse Fourier transformation of in-phase multiplets. <i>Journal of Magnetic Resonance</i> , 1992, 99, 552-560.	0.5	42
138	Stabilization of Native Protein Fold by Intein-Mediated Covalent Cyclization. <i>Journal of Molecular Biology</i> , 2005, 346, 1095-1108.	4.2	42
139	NMR Structure of the WIF Domain of the Human Wnt-Inhibitory Factor-1. <i>Journal of Molecular Biology</i> , 2006, 357, 942-950.	4.2	42
140	A New Gd ³⁺ Spin Label for Gd ³⁺ —Gd ³⁺ Distance Measurements in Proteins Produces Narrow Distance Distributions. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5016-5021.	4.6	42
141	NMR experiments for the sign determination of homonuclear scalar and residual dipolar couplings. <i>Journal of Biomolecular NMR</i> , 2000, 16, 343-346.	2.8	41
142	Selective excitation of intense solvent signals in the presence of radiation damping. <i>Journal of Biomolecular NMR</i> , 1995, 5, 420-6.	2.8	39
143	Solution structure of Domains IVa and V of the β , subunit of <i>Escherichia coli</i> DNA polymerase III and interaction with the β subunit. <i>Nucleic Acids Research</i> , 2007, 35, 2825-2832.	14.5	39
144	RIDME distance measurements using Gd(ⁱⁱⁱ) tags with a narrow central transition. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19037-19049.	2.8	39

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145	Suppression of isotope scrambling in cell-free protein synthesis by broadband inhibition of PLP enzymes for selective ¹⁵ N-labelling and production of perdeuterated proteins in H ₂ O. <i>Journal of Biomolecular NMR</i> , 2011, 50, 35-42.	2.8	37
146	Compact, hydrophilic, lanthanide-binding tags for paramagnetic NMR spectroscopy. <i>Chemical Science</i> , 2015, 6, 2614-2624.	7.4	37
147	Mosquito-Derived Anophelin Sulfoproteins Are Potent Antithrombotics. <i>ACS Central Science</i> , 2018, 4, 468-476.	11.3	37
148	Structure of the RTP-DNA complex and the mechanism of polar replication fork arrest. <i>Nature Structural Biology</i> , 2001, 8, 206-210.	9.7	36
149	Intramolecular binding mode of the C-terminus of <i>Escherichia coli</i> single-stranded DNA binding protein determined by nuclear magnetic resonance spectroscopy. <i>Nucleic Acids Research</i> , 2014, 42, 2750-2757.	14.5	36
150	Altered conformational sampling along an evolutionary trajectory changes the catalytic activity of an enzyme. <i>Nature Communications</i> , 2020, 11, 5945.	12.8	36
151	Paramagnetic Chemical Probes for Studying Biological Macromolecules. <i>Chemical Reviews</i> , 2022, 122, 9571-9642.	47.7	36
152	Cell-free synthesis of ¹⁵ N-labeled proteins for NMR studies. <i>IUBMB Life</i> , 2005, 57, 615-622.	3.4	35
153	NMR study of complexes between low molecular mass inhibitors and the West Nile virus NS2B-NS3 protease. <i>FEBS Journal</i> , 2009, 276, 4244-4255.	4.7	35
154	¹ H and ¹³ C NMR chemical shifts of the diastereotopic methyl groups of valyl and leucyl residues in peptides and proteins. <i>Tetrahedron</i> , 1990, 46, 3287-3296.	1.9	34
155	Isolation and structure of a new galactolipid from oat seeds. <i>Lipids</i> , 1998, 33, 355-363.	1.7	34
156	Proofreading exonuclease on a tether: the complex between the <i>E. coli</i> DNA polymerase III subunits ϵ , μ , θ , and θ^2 reveals a highly flexible arrangement of the proofreading domain. <i>Nucleic Acids Research</i> , 2013, 41, 5354-5367.	14.5	34
157	3D Structure Determination of an Unstable Transient Enzyme Intermediate by Paramagnetic NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13744-13748.	13.8	34
158	Heteronuclear correlation experiments for the determination of one-bond coupling constants. <i>Journal of Biomolecular NMR</i> , 1998, 11, 445-450.	2.8	33
159	Strategies for Measurements of Pseudocontact Shifts in Protein NMR Spectroscopy. <i>ChemPhysChem</i> , 2007, 8, 2309-2313.	2.1	33
160	Generation of Pseudocontact Shifts in Protein NMR Spectra with a Genetically Encoded Cobalt(II)-Binding Amino Acid. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 692-694.	13.8	33
161	Site-Specific Incorporation of Selenocysteine by Genetic Encoding as a Photocaged Unnatural Amino Acid. <i>Bioconjugate Chemistry</i> , 2018, 29, 2257-2264.	3.6	33
162	Paramagpy: software for fitting magnetic susceptibility tensors using paramagnetic effects measured in NMR spectra. <i>Magnetic Resonance</i> , 2020, 1, 1-12.	1.9	33

#	ARTICLE	IF	CITATIONS
163	Minor groove hydration of DNA in aqueous solution: sequence-dependent next neighbor effect of the hydration lifetimes in d(TTAA) ₂ segments measured by NMR spectroscopy. <i>Nucleic Acids Research</i> , 1996, 24, 2911-2918.	14.5	32
164	Cell-free Protein Synthesis in an Autoinduction System for NMR Studies of Protein-Protein Interactions. <i>Journal of Biomolecular NMR</i> , 2005, 32, 235-241.	2.8	32
165	Angular dependence of dipole-dipole-Curie-spin cross-correlation effects in high-spin and low-spin paramagnetic myoglobin. <i>Journal of Biomolecular NMR</i> , 2003, 27, 115-132.	2.8	31
166	Tracking Conformational Changes in Calmodulin in vitro, in Cell Extract, and in Cells by Electron Paramagnetic Resonance Distance Measurements. <i>ChemPhysChem</i> , 2019, 20, 1860-1868.	2.1	31
167	Similarities between the homeodomain and the hin recombinase DNA-binding domain. <i>Cell</i> , 1991, 64, 879-880.	28.9	30
168	The Mechanism of the Anaerobic Escherichia coli Ribonucleotide Reductase Investigated with Nuclear Magnetic Resonance Spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1995, 214, 28-35.	2.1	29
169	Generation of Pseudocontact Shifts in Proteins with Lanthanides Using Small "Clickable" Nitrilotriacetic Acid and Iminodiacetic Acid Tags. <i>Chemistry - A European Journal</i> , 2015, 21, 5084-5092.	3.3	29
170	Small Gd(III) Tags for Gd(III)-Gd(III) Distance Measurements in Proteins by EPR Spectroscopy. <i>Inorganic Chemistry</i> , 2018, 57, 5048-5059.	4.0	29
171	Capturing Conformational States in Proteins Using Sparse Paramagnetic NMR Data. <i>PLoS ONE</i> , 2015, 10, e0127053.	2.5	29
172	Antiviral cyclic peptides targeting the main protease of SARS-CoV-2. <i>Chemical Science</i> , 2022, 13, 3826-3836.	7.4	29
173	4,4'-Dithiobisdipicolinic Acid: A Small and Convenient Lanthanide Binding Tag for Protein NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2011, 17, 6830-6836.	3.3	28
174	<i>tert</i> -Butyltyrosine, an NMR Tag for High-Molecular-Weight Systems and Measurements of Submicromolar Ligand Binding Affinities. <i>Journal of the American Chemical Society</i> , 2015, 137, 4581-4586.	13.7	28
175	Overcoming artificial broadening in Gd ³⁺ -Gd ³⁺ distance distributions arising from dipolar pseudo-secular terms in DEER experiments. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12847-12859.	2.8	28
176	Dynamic Liquid State NMR and IR Study of Tautomerism and Conformations of Tetraphenylloxalamidine, a Novel Small Intramolecular Double Hydrogen Transfer System. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1986, 90, 1122-1129.	0.9	27
177	Sequential NMR assignments of labile protons in DNA using two-dimensional nuclear-Overhauser-enhancement spectroscopy with three jump-and-return pulse sequences. <i>FEBS Journal</i> , 1987, 166, 215-220.	0.2	27
178	Extended heteronuclear editing of 2D 1H NMR spectra of isotope-labeled proteins, using the X(1, 2) double half filter. <i>Journal of Magnetic Resonance</i> , 1989, 85, 586-594.	0.5	27
179	Solution Structure and Dynamics of PEC-60, a Protein of the Kazal Type Inhibitor Family, Determined by Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Molecular Biology</i> , 1994, 239, 137-153.	4.2	27
180	The proofreading exonuclease subunit ϵ of Escherichia coli DNA polymerase III is tethered to the polymerase subunit β via a flexible linker. <i>Nucleic Acids Research</i> , 2008, 36, 5074-5082.	14.5	27

#	ARTICLE	IF	CITATIONS
181	Sequence-specific ¹ H-NMR assignments and determination of the secondary structure in aqueous solution of the cardiotoxins CTXIIa and CTXIIb from <i>Naja mossambica mossambica</i> . FEBS Journal, 1987, 168, 609-620.	0.2	26
182	A heteronuclear three-dimensional NMR experiment for measurements of small heteronuclear coupling constants in biological macromolecules. Journal of Magnetic Resonance, 1989, 85, 426-431.	0.5	26
183	Rapid measurement of scalar three-bond ¹ HN- ¹ H alpha spin coupling constants in ¹⁵ N-labelled proteins. , 1998, 12, 319-324.		26
184	Solution structure of a hydrophobic analogue of the winter flounder antifreeze protein. FEBS Journal, 2002, 269, 1259-1266.	0.2	26
185	Structure of the $\hat{\nu}$ Subunit of Escherichia coli DNA Polymerase III in Complex with the $\hat{\mu}$ Subunit. Journal of Bacteriology, 2006, 188, 4464-4473.	2.2	26
186	Engineering [Ln(DPA) ₃] ³⁺ binding sites in proteins: a widely applicable method for tagging proteins with lanthanide ions. Journal of Biomolecular NMR, 2011, 50, 411-420.	2.8	26
187	Pseudocontact Shift-Driven Iterative Resampling for 3D Structure Determinations of Large Proteins. Journal of Molecular Biology, 2016, 428, 522-532.	4.2	26
188	Luminescent Alkyne-Bearing Terbium(III) Complexes and Their Application to Bioorthogonal Protein Labeling. Inorganic Chemistry, 2016, 55, 1674-1682.	4.0	26
189	Challenges of short substrate analogues as SARS-CoV-2 main protease inhibitors. Bioorganic and Medicinal Chemistry Letters, 2021, 50, 128333.	2.2	26
190	NMR Structure of the Netrin-like Domain (NTR) of Human Type I Procollagen C-Proteinase Enhancer Defines Structural Consensus of NTR Domains and Assesses Potential Proteinase Inhibitory Activity and Ligand Binding. Journal of Biological Chemistry, 2003, 278, 25982-25989.	3.4	25
191	Monomeric solution structure of the helicase-binding domain of Escherichia coli DnaG primase. FEBS Journal, 2006, 273, 4997-5009.	4.7	25
192	Double- ϵ Arm Lanthanide Tags Deliver Narrow Gd ³⁺ Distance Distributions in Double Electron- ϵ Electron Resonance (DEER) Measurements. Chemistry - A European Journal, 2017, 23, 11694-11702.	3.3	25
193	Selective Excitation of the Water Signal by a Q-Switched Selective Pulse. Journal of Magnetic Resonance Series B, 1995, 107, 192-196.	1.6	23
194	¹ H-Detected Multinuclear NMR Experiments for the Measurement of Small Heteronuclear Coupling Constants in Transition Metal Complexes. Journal of the American Chemical Society, 1997, 119, 5425-5434.	13.7	23
195	Title is missing!. Journal of Biomolecular NMR, 1997, 9, 441-444.	2.8	23
196	Solution Structure of the R3H Domain from Human S ^{1/4} bp-2. Journal of Molecular Biology, 2003, 326, 217-223.	4.2	23
197	Tunable paramagnetic relaxation enhancements by [Gd(DPA) ₃] ³⁺ for protein structure analysis. Journal of Biomolecular NMR, 2010, 47, 143-153.	2.8	23
198	Radiation damping on cryoprobes. Journal of Magnetic Resonance, 2011, 213, 76-81.	2.1	23

#	ARTICLE	IF	CITATIONS
199	A systematic study of labelling an α -helix in a protein with a lanthanide using IDA-SH or NTA-SH tags. <i>Journal of Biomolecular NMR</i> , 2013, 55, 157-166.	2.8	23
200	Residual Dipolar ^1H - ^1H Couplings of Methyl Groups in Weakly Aligned Proteins. <i>Journal of the American Chemical Society</i> , 2001, 123, 1770-1771.	13.7	22
201	Small neutral Gd(III) tags for distance measurements in proteins by double electron-electron resonance experiments. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23535-23545.	2.8	22
202	Genetic Encoding of α -Pentafluorosulfanyl Phenylalanine: A Highly Hydrophobic and Strongly Electronegative Group for Stable Protein Interactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 17277-17281.	13.7	22
203	^1H -Detected, Gradient-Enhanced ^{15}N and ^{13}C NMR Experiments for the Measurement of Small Heteronuclear Coupling Constants and Isotopic Shifts. <i>Journal of the American Chemical Society</i> , 1996, 118, 5096-5102.	13.7	21
204	Precise Limits of the N-Terminal Domain of DnaB Helicase Determined by NMR Spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1997, 231, 126-130.	2.1	21
205	New Lanthanide Tag for the Generation of Pseudocontact Shifts in DNA by Site-Specific Ligation to a Phosphorothioate Group. <i>Bioconjugate Chemistry</i> , 2017, 28, 1741-1748.	3.6	21
206	Complete protein fingerprints by double-quantum spectroscopy. <i>Journal of Magnetic Resonance</i> , 1986, 66, 359-363.	0.5	20
207	Removal of Zero-Quantum Coherence in Protein NMR Spectra Using SESAM Decoupling and Suppression of Decoupling Sidebands. <i>Journal of Magnetic Resonance Series B</i> , 1996, 110, 219-224.	1.6	20
208	β Angle Restraints in Protein Backbones from Dipole-Dipole Cross-Correlation between ^1H - ^{15}N and ^1H - ^1H Vectors. <i>Journal of the American Chemical Society</i> , 2000, 122, 2968-2969.	13.7	20
209	Integron-associated Mobile Gene Cassettes Code for Folded Proteins: The Structure of Bal32a, a New Member of the Adaptable β -Barrel Family. <i>Journal of Molecular Biology</i> , 2005, 346, 1229-1241.	4.2	20
210	Accurate Electron-Nucleus Distances from Paramagnetic Relaxation Enhancements. <i>Journal of the American Chemical Society</i> , 2018, 140, 7688-7697.	13.7	20
211	Measurement of Magnitude and Sign of Heteronuclear Coupling Constants in Transition Metal Complexes. <i>Journal of Magnetic Resonance</i> , 1999, 137, 413-429.	2.1	19
212	Selection of a Peptide Ligand to the p75 Neurotrophin Receptor Death Domain and Determination of Its Binding Sites by NMR. <i>Biochemical and Biophysical Research Communications</i> , 1999, 255, 104-109.	2.1	19
213	Using Paramagnetism to Slow Down Nuclear Relaxation in Protein NMR. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4815-4818.	4.6	19
214	A Chiral Lanthanide Tag for Stable and Rigid Attachment to Single Cysteine Residues in Proteins for NMR, EPR and Time-Resolved Luminescence Studies. <i>Chemistry - A European Journal</i> , 2021, 27, 13009-13023.	3.3	19
215	Measurement of dissociation constants of high-molecular weight protein-protein complexes by transferred ^{15}N -relaxation. <i>Journal of Biomolecular NMR</i> , 2007, 38, 65-72.	2.8	18
216	Effect of protein stabilization on charge state distribution in positive- and negative-ion electrospray ionization mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1605-1611.	2.8	18

#	ARTICLE	IF	CITATIONS
217	Cell-free synthesis and combinatorial selective ¹⁵ N-labeling of the cytotoxic protein amoebapore A from <i>Entamoeba histolytica</i> . <i>Protein Expression and Purification</i> , 2009, 68, 22-27.	1.3	18
218	Using a Genetically Encoded Fluorescent Amino Acid as a Site-Specific Probe to Detect Binding of Low-Molecular-Weight Compounds. <i>Assay and Drug Development Technologies</i> , 2011, 9, 50-57.	1.2	18
219	Selective ¹⁵ N-labeling of the side-chain amide groups of asparagine and glutamine for applications in paramagnetic NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2014, 59, 251-261.	2.8	18
220	Genetic Encoding of ¹⁵ N-(((Trimethylsilyl)methoxy)carbonyl)-lysine for NMR Studies of Protein-Protein and Protein-Ligand Interactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 1133-1143.	13.7	18
221	Improved Resolution and Sensitivity in NOE and ROE Experiments with Water by the Use of B1 Gradients. <i>Journal of Magnetic Resonance Series B</i> , 1994, 103, 288-291.	1.6	17
222	Structural Basis for 5'-End-Specific Recognition of Single-Stranded DNA by the R3H Domain from Human Ψ 2. <i>Journal of Molecular Biology</i> , 2012, 424, 42-53.	4.2	17
223	Synthesis of Δ^{\pm} -Panduratin A and Related Natural Products Using the High Pressure Diels-Alder Reaction. <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 60-63.	2.7	17
224	Analysis of the solution conformations of T4 lysozyme by paramagnetic NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5850-5859.	2.8	17
225	Protein Structure Determination by Assembling Super-Secondary Structure Motifs Using Pseudocontact Shifts. <i>Structure</i> , 2017, 25, 559-568.	3.3	17
226	Pre-TOCSY, a new experiment for obtaining complete 2D ¹ H NMR spectra of proteins in H ₂ O solution. <i>Journal of Magnetic Resonance</i> , 1987, 75, 546-549.	0.5	16
227	HMQC and HSQC experiments with water flip-back optimized for large proteins. <i>Journal of Biomolecular NMR</i> , 1998, 11, 279-288.	2.8	16
228	Random coil conformation of a Gly/Ala-rich insert in β 1 ₂ excludes structural stabilization as the mechanism for protection against proteasomal degradation. <i>FEBS Letters</i> , 1998, 440, 365-369.	2.8	16
229	Ring Opening of Benzo[a]pyrene in the Germ-Free Rat Is a Novel Pathway for Formation of Potentially Genotoxic Metabolites. <i>Biochemistry</i> , 2000, 39, 15585-15591.	2.5	16
230	SWET for Secure Water Suppression on Probes with High Quality Factor. <i>Journal of Biomolecular NMR</i> , 2005, 32, 243-250.	2.8	16
231	NMR Detection of Protein ¹⁵ N Spins near Paramagnetic Lanthanide Ions. <i>Journal of the American Chemical Society</i> , 2007, 129, 462-463.	13.7	16
232	A novel zinc-binding fold in the helicase interaction domain of the <i>Bacillus subtilis</i> Dnal helicase loader. <i>Nucleic Acids Research</i> , 2009, 37, 2395-2404.	14.5	16
233	Through-Space Scalar ¹⁹ F- ¹⁹ F Couplings between Fluorinated Noncanonical Amino Acids for the Detection of Specific Contacts in Proteins. <i>Journal of the American Chemical Society</i> , 2021, 143, 19587-19598.	13.7	16
234	Zero-quantum suppression in NOESY and experiments with a z filter. <i>Journal of Magnetic Resonance</i> , 1990, 86, 496-508.	0.5	15

#	ARTICLE	IF	CITATIONS
235	Assignment of paramagnetic 15N-HSQC spectra by heteronuclear exchange spectroscopy. Journal of Biomolecular NMR, 2006, 37, 43-51.	2.8	15
236	Glutarate and N-acetyl-L-glutamate buffers for cell-free synthesis of selectively 15N-labelled proteins. Journal of Biomolecular NMR, 2009, 44, 59-67.	2.8	15
237	Site-selective tagging of proteins by pnictogen-mediated self-assembly. Chemical Communications, 2017, 53, 10894-10897.	4.1	15
238	Genetic Encoding of Cyanopyridylalanine for In-Cell Protein Macrocyclization by the Nitrile- α -Amino Thiol Click Reaction. Angewandte Chemie - International Edition, 2022, 61, .	13.8	15
239	Preliminary X-Ray Crystallographic and NMR Studies on the Exonuclease Domain of the β Subunit of Escherichia coli DNA Polymerase III. Journal of Structural Biology, 2000, 131, 164-169.	2.8	14
240	Iron(III) Located in the Dinuclear Metallo- β -Lactamase IMP-1 by Pseudocontact Shifts. Angewandte Chemie - International Edition, 2014, 53, 14269-14272.	13.8	14
241	Pulse EPR-enabled interpretation of scarce pseudocontact shifts induced by lanthanide binding tags. Journal of Biomolecular NMR, 2016, 64, 39-51.	2.8	14
242	Structure restraints from heteronuclear pseudocontact shifts generated by lanthanide tags at two different sites. Journal of Biomolecular NMR, 2017, 68, 19-32.	2.8	14
243	Genetically encoded amino acids with tert-butyl and trimethylsilyl groups for site-selective studies of proteins by NMR spectroscopy. Journal of Biomolecular NMR, 2018, 71, 287-293.	2.8	14
244	Fragment-Based Discovery of Inhibitors of the Bacterial DnaG-SSB Interaction. Antibiotics, 2018, 7, 14.	3.7	14
245	NT*-HRV3CP: An optimized construct of human rhinovirus 14 3C protease for high-yield expression and fast affinity-tag cleavage. Journal of Biotechnology, 2021, 325, 145-151.	3.8	14
246	Solvation study of the non-specific lipid transfer protein from wheat by intermolecular NOEs with water and small organic molecules. Journal of Biomolecular NMR, 1999, 15, 213-225.	2.8	13
247	Water-protein NOEs: Optimized scheme for selective water excitation. , 1999, 13, 73-76.		13
248	Ruthenium Complexes of Substituted Hydrazine: New Solution- and Solid-State Binding Modes. Chemistry - A European Journal, 2008, 14, 10058-10065.	3.3	13
249	NMR Assignments, Secondary Structure and Hydration of Oxidized Escherichia coli Flavodoxin. FEBS Journal, 1997, 244, 384-399.	0.2	12
250	In Situ Deprotection and Incorporation of Unnatural Amino Acids during Cell-Free Protein Synthesis. Chemistry - A European Journal, 2013, 19, 6824-6830.	3.3	12
251	Chemical Tagging with <i>tert</i> -Butyl and Trimethylsilyl Groups for Measuring Intermolecular Nuclear Overhauser Effects in a Large Protein-Ligand Complex. Chemistry - A European Journal, 2017, 23, 13033-13036.	3.3	12
252	Two Histidines in an α -Helix: A Rigid Co ²⁺ -Binding Motif for PCS Measurements by NMR Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 6226-6229.	13.8	12

#	ARTICLE	IF	CITATIONS
253	Monitoring the purification by high-performance liquid chromatography of cardiotoxins from <i>Naja mossaibica mossaibica</i> using phase-sensitive two-dimensional nuclear magnetic resonance. <i>FEBS Journal</i> , 1987, 168, 603-607.	0.2	11
254	Application of ^{13}C (1)-half-filtered $[^1\text{H},^1\text{H}]$ -NOESY for studies of a complex formed between DNA and a ^{13}C -labeled minor-groove-binding drug. <i>FEBS Letters</i> , 1990, 263, 313-316.	2.8	11
255	Expression, purification, crystallization, and NMR studies of the helicase interaction domain of <i>Escherichia coli</i> DnaG primase. <i>Protein Expression and Purification</i> , 2004, 33, 304-310.	1.3	11
256	Backbone NMR assignments and secondary structure of the N-terminal domain of DnaB helicase from <i>E. coli</i> . <i>Journal of Biomolecular NMR</i> , 1998, 11, 233-234.	2.8	10
257	Chaperonin-encapsulation of proteins for NMR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 866-871.	2.3	10
258	Three-Dimensional Protein Structure Determination Using Pseudocontact Shifts of Backbone Amide Protons Generated by Double-Histidine Co ²⁺ -Binding Motifs at Multiple Sites. <i>Biochemistry</i> , 2019, 58, 3243-3250.	2.5	10
259	Suppression of zero-quantum coherence in NOESY and soft NOESY. <i>Journal of Magnetic Resonance</i> , 1990, 89, 423-430.	0.5	9
260	Trimethylsilyl tag for probing protein-ligand interactions by NMR. <i>Journal of Biomolecular NMR</i> , 2018, 70, 211-218.	2.8	9
261	Mutant T4 DNA polymerase for easy cloning and mutagenesis. <i>PLoS ONE</i> , 2019, 14, e0211065.	2.5	9
262	Intrinsic and Extrinsic Paramagnetic Probes. <i>New Developments in NMR</i> , 2018, , 42-84.	0.1	9
263	Site-Specific Incorporation of 7-Fluoro-tryptophan into Proteins by Genetic Encoding to Monitor Ligand Binding by ^{19}F NMR Spectroscopy. <i>ACS Sensors</i> , 2022, 7, 44-49.	7.8	9
264	Common ancestor of serine proteases and flavin-binding domains. <i>Nature Structural Biology</i> , 1998, 5, 102-103.	9.7	8
265	Letter to the Editor: NMR structure of human coactosin-like protein. <i>Journal of Biomolecular NMR</i> , 2004, 30, 353-356.	2.8	8
266	Conversion of an amide to a high-energy thioester by <i>Staphylococcus aureus</i> sortase A is powered by variable binding affinity for calcium. <i>Scientific Reports</i> , 2018, 8, 16371.	3.3	8
267	Phosphoserine for the generation of lanthanide-binding sites on proteins for paramagnetic nuclear magnetic resonance spectroscopy. <i>Magnetic Resonance</i> , 2021, 2, 1-13.	1.9	8
268	Measurement of small heteronuclear ^1H - ^{15}N coupling constants in ^{15}N -labeled proteins by 3D HNNHAB-COSY. <i>Journal of Magnetic Resonance</i> , 1991, 93, 218-224.	0.5	7
269	Second Kunitz-type protease inhibitor domain of the human WFIKKN1 protein. <i>Journal of Biomolecular NMR</i> , 2006, 35, 73-78.	2.8	7
270	3D Structure Determination of an Unstable Transient Enzyme Intermediate by Paramagnetic NMR Spectroscopy. <i>Angewandte Chemie</i> , 2016, 128, 13948-13952.	2.0	7

#	ARTICLE	IF	CITATIONS
271	Long-Range HSQC with Spin-Lock Purge Pulses for the Observation of Heteronuclear Correlations with ^1H Detection and Low ^1H Noise. <i>Journal of Magnetic Resonance Series B</i> , 1995, 109, 326-328.	1.6	6
272	Hydration Studies of Biological Macromolecules by Intermolecular Water-Solute NOEs. , 2002, , 485-527.		6
273	Stereocontrolled Synthesis of (S)- ^3H -Fluoroleucine. <i>Synlett</i> , 2007, 2007, 1083-1084.	1.8	6
274	3D Computational Modeling of Proteins Using Sparse Paramagnetic NMR Data. <i>Methods in Molecular Biology</i> , 2017, 1526, 3-21.	0.9	6
275	Cell-free expression of natively folded hydrophobins. <i>Protein Expression and Purification</i> , 2020, 170, 105591.	1.3	6
276	Synthesis of $^{13}\text{C}/^{19}\text{F}/^2\text{H}$ labeled indoles for use as tryptophan precursors for protein NMR spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 5133-5147.	2.8	6
277	Studies of protein hydration in aqueous solution by high-resolution nuclear magnetic resonance spectroscopy. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 1553-1561.	2.0	5
278	Axial-Peak Artifacts in Multipulse NMR Experiments. <i>Journal of Magnetic Resonance Series A</i> , 1994, 109, 246-249.	1.6	5
279	^{13}C -Relayed ^{13}C HSQC at Natural Isotopic Abundance. <i>Journal of Magnetic Resonance Series A</i> , 1995, 116, 133-134.	1.6	5
280	Biosynthetically directed ^2H labelling for stereospecific resonance assignments of glycine methylene groups. <i>Journal of Biomolecular NMR</i> , 2013, 55, 97-104.	2.8	5
281	Time-Shared X($\%1$)-Half-Filter for Improved Sensitivity in Subspectral Editing. <i>Journal of Magnetic Resonance</i> , 2000, 144, 168-170.	2.1	4
282	Sensitivity enhancement in (HCA)CONH experiments. , 2000, 16, 229-233.		4
283	Sensitivity-enhanced double-TROSY experiment for simultaneous measurement of one-bond $^{15}\text{N}\text{--}^1\text{H}$, $^{15}\text{N}\text{--}^{13}\text{C}$ and two-bond $^1\text{H}\text{--}^{13}\text{C}$ couplings. <i>Journal of Magnetic Resonance</i> , 2004, 171, 270-276.	2.1	4
284	Interaction of the replication terminator protein of <i>Bacillus subtilis</i> with DNA probed by NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2005, 335, 361-366.	2.1	4
285	Transformation of hemipentahydrate to monohydrate of risedronate monosodium by seed crystallization in solution. <i>AIChE Journal</i> , 2011, 57, 3385-3394.	3.6	4
286	Using <i>tert</i> -Butyl Groups in a Ligand To Identify Its Binding Site on a Protein. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 109-113.	2.8	4
287	Cell-Free Synthesis of Selenoproteins in High Yield and Purity for Selective Protein Tagging. <i>ChemBioChem</i> , 2021, 22, 1480-1486.	2.6	4
288	Resonance assignment and structural analysis of acid denatured <i>E. coli</i> [U- ^{15}N]-glutaredoxin 3. <i>European Biophysics Journal</i> , 1996, 24, 179-84.	2.2	3

#	ARTICLE	IF	CITATIONS
289	Backbone ¹ H, ¹³ C and ¹⁵ N resonance assignment of the N-terminal 24 kDa fragment of the gyrase B subunit from E. coli. <i>Journal of Biomolecular NMR</i> , 2002, 22, 369-370.	2.8	3
290	Synthesis of fluorinated leucines, valines and alanines for use in protein NMR. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2424-2432.	2.8	3
291	DEER experiments reveal fundamental differences between calmodulin complexes with IQ and MARCKS peptides in solution. <i>Structure</i> , 2022, 30, 813-827.e5.	3.3	3
292	Localising nuclear spins by pseudocontact shifts from a single tagging site. <i>Magnetic Resonance</i> , 2022, 3, 65-76.	1.9	3
293	Homeodomain-DNA Recognition. <i>World Scientific Series in 20th Century Chemistry</i> , 1995, , 493-505.	0.0	2
294	Sensitive ¹ H- ³¹ P correlations with 5' methylene protons of DNA via homonuclear double-quantum coherence. <i>Journal of Biomolecular NMR</i> , 2001, 19, 273-277.	2.8	2
295	Two Histidines in an Î±-Helix: A Rigid Co ²⁺ -Binding Motif for PCS Measurements by NMR Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 6334-6337.	2.0	2
296	Studies of Protein Hydration by Direct NMR Observation of Individual Protein-Bound Water Molecules. , 1990, , 141-147.		2
297	Chapter 8 Use of high power spin-lock purge pulses in high resolution NMR spectroscopy. <i>Analytical Spectroscopy Library</i> , 1997, 8, 149-171.	0.1	1
298	Localising individual atoms of tryptophan side chains in the metallo-Î²-lactamase IMP-1 by pseudocontact shifts from paramagnetic lanthanoid tags at multiple sites. <i>Magnetic Resonance</i> , 2022, 3, 1-13.	1.9	1
299	Organoarsenic probes to study proteins by NMR spectroscopy. <i>Chemical Communications</i> , 2022, 58, 701-704.	4.1	1
300	Enhanced Spectral Resolution and Sensitivity in the COSY Fingerprint Region of Polypeptides. <i>Journal of Magnetic Resonance Series B</i> , 1995, 108, 86-88.	1.6	0
301	Genetic Encoding of Cyanopyridylalanine for In-Cell Protein Macrocyclization by the Nitrile-Aminothiol Click Reaction. <i>Angewandte Chemie</i> , 0, , .	2.0	0