

Gottfried Otting

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2664131/gottfried-otting-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

301
papers

18,015
citations

67
h-index

122
g-index

484
ext. papers

19,249
ext. citations

8.3
avg, IF

6.67
L-index

#	Paper	IF	Citations
301	Paramagnetic Chemical Probes for Studying Biological Macromolecules.. <i>Chemical Reviews</i> , 2022 ,	68.1	6
300	Localising individual atoms of tryptophan side chains in the metallo- β -lactamase IMP-1 by pseudocontact shifts from paramagnetic lanthanoid tags at multiple sites. <i>Magnetic Resonance</i> , 2022 , 3, 1-13	2.9	1
299	Antiviral cyclic peptides targeting the main protease of SARS-CoV-2.. <i>Chemical Science</i> , 2022 , 13, 3826-3836	3.6	2
298	Main protease mutants of SARS-CoV-2 variants remain susceptible to nirmatrelvir.. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022 , 128629	2.9	19
297	Localising nuclear spins by pseudocontact shifts from a single tagging site. <i>Magnetic Resonance</i> , 2022 , 3, 65-76	2.9	1
296	Through-Space Scalar F-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	16.4	3
295	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	4.8	9
294	NT*-HRV3CP: An optimized construct of human rhinovirus 14 3C protease for high-yield expression and fast affinity-tag cleavage. <i>Journal of Biotechnology</i> , 2021 , 325, 145-151	3.7	3
293	Cell-Free Synthesis of Selenoproteins in High Yield and Purity for Selective Protein Tagging. <i>ChemBioChem</i> , 2021 , 22, 1480-1486	3.8	2
292	Genetic Encoding of -(((Trimethylsilyl)methoxy)carbonyl)-l-lysine for NMR Studies of Protein-Protein and Protein-Ligand Interactions. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1133-1143	16.4	9
291	Phosphoserine for the generation of lanthanide-binding sites on proteins for paramagnetic nuclear magnetic resonance spectroscopy. <i>Magnetic Resonance</i> , 2021 , 2, 1-13	2.9	4
290	Challenges of short substrate analogues as SARS-CoV-2 main protease inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 50, 128333	2.9	4
289	Synthesis of C/F/H labeled indoles for use as tryptophan precursors for protein NMR spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 5133-5147	3.9	1
288	Cell-free expression of natively folded hydrophobins. <i>Protein Expression and Purification</i> , 2020 , 170, 105591	5.1	4
287	Paramagpy: software for fitting magnetic susceptibility tensors using paramagnetic effects measured in NMR spectra. <i>Magnetic Resonance</i> , 2020 , 1, 1-12	2.9	17
286	Altered conformational sampling along an evolutionary trajectory changes the catalytic activity of an enzyme. <i>Nature Communications</i> , 2020 , 11, 5945	17.4	14
285	Genetic Encoding of -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	16.4	11

284	Mutant T4 DNA polymerase for easy cloning and mutagenesis. <i>PLoS ONE</i> , 2019 , 14, e0211065	3.7	7
283	Biocompatible Macrocyclization between Cysteine and 2-Cyanopyridine Generates Stable Peptide Inhibitors. <i>Organic Letters</i> , 2019 , 21, 4709-4712	6.2	21
282	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	3.2	22
281	Three-Dimensional Protein Structure Determination Using Pseudocontact Shifts of Backbone Amide Protons Generated by Double-Histidine Co-Binding Motifs at Multiple Sites. <i>Biochemistry</i> , 2019 , 58, 3243-3250	3.2	8
280	Discovery of Nonstandard Macrocyclic Peptides as Noncompetitive Inhibitors of the Zika Virus NS2B-NS3 Protease. <i>ACS Medicinal Chemistry Letters</i> , 2019 , 10, 168-174	4.3	41
279	Two Histidines in an α -Helix: A Rigid Co ²⁺ -Binding Motif for PCS Measurements by NMR Spectroscopy. <i>Angewandte Chemie</i> , 2018 , 130, 6334-6337	3.6	2
278	Two Histidines in an α -Helix: A Rigid Co ⁺ -Binding Motif for PCS Measurements by NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6226-6229	16.4	10
277	Small Gd(III) Tags for Gd(III)-Gd(III) Distance Measurements in Proteins by EPR Spectroscopy. <i>Inorganic Chemistry</i> , 2018 , 57, 5048-5059	5.1	23
276	Using n -Butyl Groups in a Ligand To Identify Its Binding Site on a Protein. <i>ACS Medicinal Chemistry Letters</i> , 2018 , 9, 109-113	4.3	4
275	Mosquito-Derived Anophelin Sulfopeptides Are Potent Antithrombotics. <i>ACS Central Science</i> , 2018 , 4, 468-476	16.8	25
274	Trimethylsilyl tag for probing protein-ligand interactions by NMR. <i>Journal of Biomolecular NMR</i> , 2018 , 70, 211-218	3	6
273	NMR studies of ligand binding. <i>Current Opinion in Structural Biology</i> , 2018 , 48, 16-22	8.1	36
272	Fragment-Based Discovery of Inhibitors of the Bacterial DnaG-SSB Interaction. <i>Antibiotics</i> , 2018 , 7,	4.9	11
271	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	3.6	19
270	Site-Specific Incorporation of Selenocysteine by Genetic Encoding as a Photocaged Unnatural Amino Acid. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2257-2264	6.3	20
269	Chapter 2: Intrinsic and Extrinsic Paramagnetic Probes. <i>New Developments in NMR</i> , 2018 , 42-84	0.9	7
268	Genetically encoded amino acids with tert-butyl and trimethylsilyl groups for site-selective studies of proteins by NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2018 , 71, 287-293	3	6
267	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	4.9	2

266	Accurate Electron-Nucleus Distances from Paramagnetic Relaxation Enhancements. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7688-7697	16.4	17
265	Protein Structure Determination by Assembling Super-Secondary Structure Motifs Using Pseudocontact Shifts. <i>Structure</i> , 2017 , 25, 559-568	5.2	16
264	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	6.3	16
263	Structure restraints from heteronuclear pseudocontact shifts generated by lanthanide tags at two different sites. <i>Journal of Biomolecular NMR</i> , 2017 , 68, 19-32	3	12
262	3D Computational Modeling of Proteins Using Sparse Paramagnetic NMR Data. <i>Methods in Molecular Biology</i> , 2017 , 1526, 3-21	1.4	6
261	Solution conformations of a linked construct of the Zika virus NS2B-NS3 protease. <i>Antiviral Research</i> , 2017 , 142, 141-147	10.8	39
260	Pseudocontact shifts in biomolecular NMR using paramagnetic metal tags. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2017 , 98-99, 20-49	10.4	100
259	Selective Distance Measurements Using Triple Spin Labeling with Gd, Mn, and a Nitroxide. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5277-5282	6.4	34
258	Site-selective tagging of proteins by pnictogen-mediated self-assembly. <i>Chemical Communications</i> , 2017 , 53, 10894-10897	5.8	10
257	Double-Arm Lanthanide Tags Deliver Narrow Gd -Gd Distance Distributions in Double Electron-Electron Resonance (DEER) Measurements. <i>Chemistry - A European Journal</i> , 2017 , 23, 11694-11702	4.8	21
256	Chemical Tagging with tert-Butyl and Trimethylsilyl Groups for Measuring Intermolecular Nuclear Overhauser Effects in a Large Protein-Ligand Complex. <i>Chemistry - A European Journal</i> , 2017 , 23, 13033-13036	4.8	10
255	Using Paramagnetism to Slow Down Nuclear Relaxation in Protein NMR. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4815-4818	6.4	15
254	Pseudocontact Shift-Driven Iterative Resampling for 3D Structure Determinations of Large Proteins. <i>Journal of Molecular Biology</i> , 2016 , 428, 522-32	6.5	22
253	RIDME distance measurements using Gd(III) tags with a narrow central transition. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19037-49	3.6	34
252	Pulse EPR-enabled interpretation of scarce pseudocontact shifts induced by lanthanide binding tags. <i>Journal of Biomolecular NMR</i> , 2016 , 64, 39-51	3	14
251	Luminescent Alkyne-Bearing Terbium(III) Complexes and Their Application to Bioorthogonal Protein Labeling. <i>Inorganic Chemistry</i> , 2016 , 55, 1674-82	5.1	19
250	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, 4539-46	16.4	45
249	Analysis of the solution conformations of T4 lysozyme by paramagnetic NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5850-9	3.6	12

248	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, 12847-59	3.6	24
247	3D Structure Determination of an Unstable Transient Enzyme Intermediate by Paramagnetic NMR Spectroscopy. <i>Angewandte Chemie</i> , 2016 , 128, 13948-13952	3.6	7
246	3D Structure Determination of an Unstable Transient Enzyme Intermediate by Paramagnetic NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13744-13748	16.4	29
245	O-tert-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, 4581-6	16.4	23
244	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, 5084-92	4.8	25
243	Protein conformation by EPR spectroscopy using gadolinium tags clicked to genetically encoded p-azido-L-phenylalanine. <i>Chemical Communications</i> , 2015 , 51, 15898-901	5.8	54
242	Gd ³⁺ Spin Labeling for Measuring Distances in Biomacromolecules: Why and How?. <i>Methods in Enzymology</i> , 2015 , 563, 415-57	1.7	54
241	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, 5016-21	6.4	41
240	Compact, hydrophilic, lanthanide-binding tags for paramagnetic NMR spectroscopy. <i>Chemical Science</i> , 2015 , 6, 2614-2624	9.4	34
239	Capturing conformational States in proteins using sparse paramagnetic NMR data. <i>PLoS ONE</i> , 2015 , 10, e0127053	3.7	20
238	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, 251-61	3	11
237	Bound or free: interaction of the C-terminal domain of Escherichia coli single-stranded DNA-binding protein (SSB) with the tetrameric core of SSB. <i>Biochemistry</i> , 2014 , 53, 1925-34	3.2	32
236	The dengue virus NS2B-NS3 protease retains the closed conformation in the complex with BPTI. <i>FEBS Letters</i> , 2014 , 588, 2206-11	3.8	37
235	Iron(III) located in the dinuclear metallo-β-lactamase IMP-1 by pseudocontact shifts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14269-72	16.4	11
234	Pseudokontaktverschiebungen lokalisieren Eisen(III) in der zweikernigen Metallo-β-Laktamase IMP-1. <i>Angewandte Chemie</i> , 2014 , 126, 14494-14497	3.6	1
233	Intramolecular binding mode of the C-terminus of Escherichia coli single-stranded DNA binding protein determined by nuclear magnetic resonance spectroscopy. <i>Nucleic Acids Research</i> , 2014 , 42, 2750-7 ^{20.1}		34
232	Protein engineering with unnatural amino acids. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 581-7	8.1	63
231	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, 157-66	3	23

230	In situ deprotection and incorporation of unnatural amino acids during cell-free protein synthesis. <i>Chemistry - A European Journal</i> , 2013 , 19, 6824-30	4.8	9
229	Biosynthetically directed ^1H labelling for stereospecific resonance assignments of glycine methylene groups. <i>Journal of Biomolecular NMR</i> , 2013 , 55, 97-104	3	5
228	Synthesis of (E)-Panduratin A and Related Natural Products Using the High Pressure Diels-Alder Reaction. <i>Asian Journal of Organic Chemistry</i> , 2013 , 2, 60-63	3	11
227	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	3	47
226	How reliable are pseudocontact shifts induced in proteins and ligands by mobile paramagnetic metal tags? A modelling study. <i>Journal of Biomolecular NMR</i> , 2013 , 56, 203-16	3	55
225	Three-dimensional protein fold determination from backbone amide pseudocontact shifts generated by lanthanide tags at multiple sites. <i>Structure</i> , 2013 , 21, 883-90	5.2	67
224	Lanthanide tags for site-specific ligation to an unnatural amino acid and generation of pseudocontact shifts in proteins. <i>Bioconjugate Chemistry</i> , 2013 , 24, 260-8	6.3	69
223	Gadolinium(III) spin labels for high-sensitivity distance measurements in transmembrane helices. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11831-4	16.4	47
222	Proofreading exonuclease on a tether: the complex between the E. coli DNA polymerase III subunits θ , ϵ , and κ reveals a highly flexible arrangement of the proofreading domain. <i>Nucleic Acids Research</i> , 2013 , 41, 5354-67	20.1	28
221	Gadolinium(III) Spin Labels for High-Sensitivity Distance Measurements in Transmembrane Helices. <i>Angewandte Chemie</i> , 2013 , 125, 12047-12050	3.6	12
220	Multiple-site labeling of proteins with unnatural amino acids. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2243-6	16.4	82
219	Nanometer-Range Distance Measurement in a Protein Using Mn $^{2+}$ Tags. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 157-160	6.4	64
218	Backbone Assignment of Fully Protonated Solid Proteins by ^1H Detection and Ultrafast Magic-Angle-Spinning NMR Spectroscopy. <i>Angewandte Chemie</i> , 2012 , 124, 10914-10917	3.6	21
217	Backbone assignment of fully protonated solid proteins by ^1H detection and ultrafast magic-angle-spinning NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10756-9	16.4	91
216	Thiol-ene reaction: a versatile tool in site-specific labelling of proteins with chemically inert tags for paramagnetic NMR. <i>Chemical Communications</i> , 2012 , 48, 2704-6	5.8	47
215	Protein structure determination from pseudocontact shifts using ROSETTA. <i>Journal of Molecular Biology</i> , 2012 , 416, 668-77	6.5	89
214	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, 652-6	3.4	48
213	Structural basis for 5'-end-specific recognition of single-stranded DNA by the R3H domain from human Sfp-2. <i>Journal of Molecular Biology</i> , 2012 , 424, 42-53	6.5	14

212	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, 4355-8	3.6	68
211	Mehrfache Markierung von Proteinen mit nichtnatürlichen Aminosäuren. <i>Angewandte Chemie</i> , 2012 , 124, 2286-2289	3.6	10
210	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, 10418-21	16.4	95
209	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, 7368-70	5.8	43
208	Radiation damping on cryoprobes. <i>Journal of Magnetic Resonance</i> , 2011 , 213, 76-81	3	16
207	Improving a natural enzyme activity through incorporation of unnatural amino acids. <i>Journal of the American Chemical Society</i> , 2011 , 133, 326-33	16.4	67
206	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	3	27
205	Engineering [Ln(DPA) ₃] 3- binding sites in proteins: a widely applicable method for tagging proteins with lanthanide ions. <i>Journal of Biomolecular NMR</i> , 2011 , 50, 411-20	3	23
204	Transformation of hemipentahydrate to monohydrate of risedronate monosodium by seed crystallization in solution. <i>AIChE Journal</i> , 2011 , 57, 3385-3394	3.6	4
203	Generation of Pseudocontact Shifts in Protein NMR Spectra with a Genetically Encoded Cobalt(II)-Binding Amino Acid. <i>Angewandte Chemie</i> , 2011 , 123, 718-720	3.6	13
202	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, 692-4	16.4	32
201	4,4'-dithiobisdipicolinic acid: a small and convenient lanthanide binding tag for protein NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2011 , 17, 6830-6	4.8	26
200	Binding of low molecular weight inhibitors promotes large conformational changes in the dengue virus NS2B-NS3 protease: fold analysis by pseudocontact shifts. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19205-15	16.4	108
199	DOTA-amide lanthanide tag for reliable generation of pseudocontact shifts in protein NMR spectra. <i>Bioconjugate Chemistry</i> , 2011 , 22, 2118-25	6.3	95
198	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, 50-7	2.1	14
197	Nanometer-scale distance measurements in proteins using Gd ³⁺ spin labeling. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9040-8	16.4	122
196	Protein NMR using paramagnetic ions. <i>Annual Review of Biophysics</i> , 2010 , 39, 387-405	21.1	304
195	Paramagnetic labelling of proteins and oligonucleotides for NMR. <i>Journal of Biomolecular NMR</i> , 2010 , 46, 101-12	3	142

194	Tunable paramagnetic relaxation enhancements by [Gd(DPA)(3)] (3-) for protein structure analysis. <i>Journal of Biomolecular NMR</i> , 2010 , 47, 143-53	3	20
193	3-Mercapto-2,6-pyridinedicarboxylic acid: a small lanthanide-binding tag for protein studies by NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2010 , 16, 3827-32	4.8	47
192	Chaperonin-encapsulation of proteins for NMR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 866-71	4	10
191	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	4.8	60
190	A novel zinc-binding fold in the helicase interaction domain of the Bacillus subtilis Dnal helicase loader. <i>Nucleic Acids Research</i> , 2009 , 37, 2395-404	20.1	12
189	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, e564	4.8	64
188	Glutarate and N-acetyl-L-glutamate buffers for cell-free synthesis of selectively ¹⁵ N-labelled proteins. <i>Journal of Biomolecular NMR</i> , 2009 , 44, 59-67	3	12
187	NMR study of complexes between low molecular mass inhibitors and the West Nile virus NS2B-NS3 protease. <i>FEBS Journal</i> , 2009 , 276, 4244-55	5.7	30
186	A fluorescence quenching assay to discriminate between specific and nonspecific inhibitors of dengue virus protease. <i>Analytical Biochemistry</i> , 2009 , 395, 195-204	3.1	79
185	Flaviviral protease inhibitors identified by fragment-based library docking into a structure generated by molecular dynamics. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 4860-8	8.3	70
184	Cell-free synthesis and combinatorial selective ¹⁵ N-labeling of the cytotoxic protein amoebapore A from Entamoeba histolytica. <i>Protein Expression and Purification</i> , 2009 , 68, 22-7	2	16
183	[Ln(DPA)(3)](3-) is a convenient paramagnetic shift reagent for protein NMR studies. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10352-3	16.4	52
182	A dipicolinic acid tag for rigid lanthanide tagging of proteins and paramagnetic NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10486-7	16.4	109
181	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, 1681-7	16.4	89
180	The proofreading exonuclease subunit epsilon of Escherichia coli DNA polymerase III is tethered to the polymerase subunit alpha via a flexible linker. <i>Nucleic Acids Research</i> , 2008 , 36, 5074-82	20.1	24
179	Memory T cell RNA rearrangement programmed by heterogeneous nuclear ribonucleoprotein hnRNPLL. <i>Immunity</i> , 2008 , 29, 863-75	32.3	62
178	Numbat: an interactive software tool for fitting Deltachi-tensors to molecular coordinates using pseudocontact shifts. <i>Journal of Biomolecular NMR</i> , 2008 , 41, 179-89	3	155
177	Prospects for lanthanides in structural biology by NMR. <i>Journal of Biomolecular NMR</i> , 2008 , 42, 1-9	3	156

176	Ruthenium complexes of substituted hydrazine: new solution- and solid-state binding modes. <i>Chemistry - A European Journal</i> , 2008 , 14, 10058-65	4.8	13
175	Cell-free protein synthesis for analysis by NMR spectroscopy. <i>Methods in Molecular Biology</i> , 2008 , 426, 257-68	1.4	49
174	NMR detection of protein 15N spins near paramagnetic lanthanide ions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 462-3	16.4	16
173	Sequence-specific and stereospecific assignment of methyl groups using paramagnetic lanthanides. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13749-57	16.4	54
172	Cell-free transcription/translation from PCR-amplified DNA for high-throughput NMR studies. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3356-8	16.4	62
171	Zellfreie Transkription/Translation von PCR-amplifizierter DNA für NMR-Studien mit hohem Durchsatz. <i>Angewandte Chemie</i> , 2007 , 119, 3420-3422	3.6	6
170	Strategies for measurements of pseudocontact shifts in protein NMR spectroscopy. <i>ChemPhysChem</i> , 2007 , 8, 2309-13	3.2	32
169	Measurement of dissociation constants of high-molecular weight protein-protein complexes by transferred 15N-relaxation. <i>Journal of Biomolecular NMR</i> , 2007 , 38, 65-72	3	13
168	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, 1605-11	3.5	17
167	Stereocontrolled Synthesis of (S)- β -Fluoroleucine. <i>Synlett</i> , 2007 , 2007, 1083-1084	2.2	4
166	The unstructured C-terminus of the tau subunit of Escherichia coli DNA polymerase III holoenzyme is the site of interaction with the alpha subunit. <i>Nucleic Acids Research</i> , 2007 , 35, 2813-24	20.1	46
165	Solution structure of Domains IVa and V of the tau subunit of Escherichia coli DNA polymerase III and interaction with the alpha subunit. <i>Nucleic Acids Research</i> , 2007 , 35, 2825-32	20.1	30
164	NMR structure determination of protein-ligand complexes by lanthanide labeling. <i>Accounts of Chemical Research</i> , 2007 , 40, 206-12	24.3	237
163	Assignment of paramagnetic (15)N-HSQC spectra by heteronuclear exchange spectroscopy. <i>Journal of Biomolecular NMR</i> , 2007 , 37, 43-51	3	14
162	Site-specific labelling of proteins with a rigid lanthanide-binding tag. <i>ChemBioChem</i> , 2006 , 7, 1599-604	3.8	77
161	Structure of the theta subunit of Escherichia coli DNA polymerase III in complex with the epsilon subunit. <i>Journal of Bacteriology</i> , 2006 , 188, 4464-73	3.5	26
160	Structure determination of protein-ligand complexes by transferred paramagnetic shifts. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12910-6	16.4	96
159	Lanthanide labeling offers fast NMR approach to 3D structure determinations of protein-protein complexes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3696-702	16.4	121

158	NMR structure of the WIF domain of the human Wnt-inhibitory factor-1. <i>Journal of Molecular Biology</i> , 2006 , 357, 942-50	6.5	33
157	N-Labelled proteins by cell-free protein synthesis. Strategies for high-throughput NMR studies of proteins and protein-ligand complexes. <i>FEBS Journal</i> , 2006 , 273, 4154-9	5.7	61
156	Monomeric solution structure of the helicase-binding domain of Escherichia coli DnaG primase. <i>FEBS Journal</i> , 2006 , 273, 4997-5009	5.7	25
155	Amino-acid type identification in ¹⁵ N-HSQC spectra by combinatorial selective ¹⁵ N-labelling. <i>Journal of Biomolecular NMR</i> , 2006 , 34, 13-21	3	54
154	Efficient chi-tensor determination and NH assignment of paramagnetic proteins. <i>Journal of Biomolecular NMR</i> , 2006 , 35, 79-87	3	53
153	Second Kunitz-type protease inhibitor domain of the human WFIKKN1 protein. <i>Journal of Biomolecular NMR</i> , 2006 , 35, 73-8	3	7
152	Role of charged and hydrophobic residues in the oligomerization of the PYRIN domain of ASC. <i>Biochemistry</i> , 2005 , 44, 575-83	3.2	56
151	Weak alignment of paramagnetic proteins warrants correction for residual CSA effects in measurements of pseudocontact shifts. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17190-1	16.4	54
150	Integron-associated mobile gene cassettes code for folded proteins: the structure of Bal32a, a new member of the adaptable alpha+beta barrel family. <i>Journal of Molecular Biology</i> , 2005 , 346, 1229-41	6.5	18
149	Stabilization of native protein fold by intein-mediated covalent cyclization. <i>Journal of Molecular Biology</i> , 2005 , 346, 1095-108	6.5	40
148	Interaction of the replication terminator protein of Bacillus subtilis with DNA probed by NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 335, 361-6	3.4	3
147	Cell-free synthesis of ¹⁵ N-labeled proteins for NMR studies. <i>IUBMB Life</i> , 2005 , 57, 615-22	4.7	34
146	Translational incorporation of L-3,4-dihydroxyphenylalanine into proteins. <i>FEBS Journal</i> , 2005 , 272, 3162-71	5.7	56
145	Rapid pulse length determination in high-resolution NMR. <i>Journal of Magnetic Resonance</i> , 2005 , 176, 115-9	3	67
144	Cell-free protein synthesis in an autoinduction system for NMR studies of protein-protein interactions. <i>Journal of Biomolecular NMR</i> , 2005 , 32, 235-41	3	30
143	SWET for secure water suppression on probes with high quality factor. <i>Journal of Biomolecular NMR</i> , 2005 , 32, 243-50	3	16
142	Crystal and solution structures of the helicase-binding domain of Escherichia coli primase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 11495-504	5.4	57
141	Optimization of an Escherichia coli system for cell-free synthesis of selectively N-labelled proteins for rapid analysis by NMR spectroscopy. <i>FEBS Journal</i> , 2004 , 271, 4084-93		81

140	Site-specific labelling with a metal chelator for protein-structure refinement. <i>Journal of Biomolecular NMR</i> , 2004 , 29, 351-61	3	75
139	NMR structure of human coactosin-like protein. <i>Journal of Biomolecular NMR</i> , 2004 , 30, 353-6	3	7
138	Modulation of the distance dependence of paramagnetic relaxation enhancements by CSA x DSA cross-correlation. <i>Journal of Magnetic Resonance</i> , 2004 , 171, 233-43	3	40
137	Sensitivity-enhanced double-TROSY experiment for simultaneous measurement of one-bond ^{15}N - ^1H , ^{15}N - $^{13}\text{C}'$ and two-bond ^1H - $^{13}\text{C}'$ couplings. <i>Journal of Magnetic Resonance</i> , 2004 , 171, 270-6	3	4
136	Fast structure-based assignment of ^{15}N HSQC spectra of selectively ^{15}N -labeled paramagnetic proteins. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2963-70	16.4	80
135	Dynamics of protein and peptide hydration. <i>Journal of the American Chemical Society</i> , 2004 , 126, 102-14	16.4	200
134	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, 304-10	2	10
133	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, 115-32	3	28
132	Mutations in the COCH gene are a frequent cause of autosomal dominant progressive cochleo-vestibular dysfunction, but not of Meniere's disease. <i>European Journal of Human Genetics</i> , 2003 , 11, 744-8	5.3	74
131	The death-domain fold of the ASC PYRIN domain, presenting a basis for PYRIN/PYRIN recognition. <i>Journal of Molecular Biology</i> , 2003 , 332, 1155-63	6.5	128
130	Solution structure of the R3H domain from human Smubp-2. <i>Journal of Molecular Biology</i> , 2003 , 326, 217-23	6.5	18
129	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, 833-42	6.5	47
128	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. <i>Journal of Biological Chemistry</i> , 2003 , 278, 25982-9	5.4	23
127	Solution structure of a hydrophobic analogue of the winter flounder antifreeze protein. <i>FEBS Journal</i> , 2002 , 269, 1259-66		21
126	Backbone ^1H , ^{13}C and ^{15}N resonance assignment of the N-terminal 24 kDa fragment of the gyrase B subunit from <i>E. coli</i> . <i>Journal of Biomolecular NMR</i> , 2002 , 22, 369-70	3	3
125	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, 7790-8	5.4	61
124	Hydration Studies of Biological Macromolecules by Intermolecular Water-Solute NOEs 2002 , 485-527		6
123	Identification of protein surfaces by NMR measurements with a paramagnetic Gd(III) chelate. <i>Journal of the American Chemical Society</i> , 2002 , 124, 372-3	16.4	182

122	NMR analysis of in vitro-synthesized proteins without purification: a high-throughput approach. <i>FEBS Letters</i> , 2002 , 524, 159-62	3.8	64
121	Sensitive ^1H - ^{31}P correlations with 5' methylene protons of DNA via homonuclear double-quantum coherence. <i>Journal of Biomolecular NMR</i> , 2001 , 19, 273-7	3	2
120	NMR structure of the LCCL domain and implications for DFNA9 deafness disorder. <i>EMBO Journal</i> , 2001 , 20, 5347-53	13	51
119	Structure of the RTP-DNA complex and the mechanism of polar replication fork arrest. <i>Nature Structural Biology</i> , 2001 , 8, 206-10		31
118	Thioredoxin fold as homodimerization module in the putative chaperone ERp29: NMR structures of the domains and experimental model of the 51 kDa dimer. <i>Structure</i> , 2001 , 9, 457-71	5.2	91
117	Hydrophobic interactions in a cyanobacterial plastocyanin-cytochrome f complex. <i>Journal of the American Chemical Society</i> , 2001 , 123, 10444-53	16.4	103
116	Residual dipolar (^1H) - (^1H) couplings of methyl groups in weakly aligned proteins. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1770-1	16.4	22
115	Time-shared X(ω (1))-half-filter for improved sensitivity in subspectral editing. <i>Journal of Magnetic Resonance</i> , 2000 , 144, 168-70	3	4
114	Sensitivity enhancement in (HCA)CONH experiments. <i>Journal of Biomolecular NMR</i> , 2000 , 16, 229-33	3	4
113	NMR experiments for the sign determination of homonuclear scalar and residual dipolar couplings. <i>Journal of Biomolecular NMR</i> , 2000 , 16, 343-6	3	40
112	NMR structure of oxidized glutaredoxin 3 from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2000 , 303, 423-32	6.5	39
111	Preliminary X-ray crystallographic and NMR studies on the exonuclease domain of the epsilon subunit of <i>Escherichia coli</i> DNA polymerase III. <i>Journal of Structural Biology</i> , 2000 , 131, 164-9	3.4	14
110	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, 15585-91	3.2	16
109	Alignment of Biological Macromolecules in Novel Nonionic Liquid Crystalline Media for NMR Experiments. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7793-7797	16.4	564
108	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	16.4	20
107	Solvation study of the non-specific lipid transfer protein from wheat by intermolecular NOEs with water and small organic molecules. <i>Journal of Biomolecular NMR</i> , 1999 , 15, 213-25	3	12
106	Water-protein NOEs: Optimized scheme for selective water excitation. <i>Journal of Biomolecular NMR</i> , 1999 , 13, 73-6	3	13
105	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, 681-90	5.2	57

104	Measurement of Magnitude and Sign of Heteronuclear Coupling Constants in Transition Metal Complexes. <i>Journal of Magnetic Resonance</i> , 1999 , 137, 413-429	3	17
103	Direct NMR observation of the Cys-14 thiol proton of reduced Escherichia coli glutaredoxin-3 supports the presence of an active site thiol-thiolate hydrogen bond. <i>FEBS Letters</i> , 1999 , 449, 196-200	3.8	60
102	Molecular electroporation: a unifying concept for the description of membrane pore formation by antibacterial peptides, exemplified with NK-lysin. <i>FEBS Letters</i> , 1999 , 462, 155-8	3.8	90
101	NMR structure of Escherichia coli glutaredoxin 3-glutathione mixed disulfide complex: implications for the enzymatic mechanism. <i>Journal of Molecular Biology</i> , 1999 , 286, 541-52	6.5	113
100	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, 104-9	3.4	18
99	Heteronuclear correlation experiments for the determination of one-bond coupling constants. <i>Journal of Biomolecular NMR</i> , 1998 , 11, 445-50	3	32
98	Backbone NMR assignments and secondary structure of the N-terminal domain of DnaB helicase from E. coli. <i>Journal of Biomolecular NMR</i> , 1998 , 11, 233-4	3	7
97	HMQC and HSQC experiments with water flip-back optimized for large proteins. <i>Journal of Biomolecular NMR</i> , 1998 , 11, 279-88	3	15
96	Spin-state selection filters for the measurement of heteronuclear one-bond coupling constants. <i>Journal of Biomolecular NMR</i> , 1998 , 12, 435-41	3	104
95	Rapid measurement of scalar three-bond ¹ HN- ¹ H alpha spin coupling constants in ¹⁵ N-labelled proteins. <i>Journal of Biomolecular NMR</i> , 1998 , 12, 319-24	3	25
94	Common ancestor of serine proteases and flavin-binding domains. <i>Nature Structural Biology</i> , 1998 , 5, 102-3		6
93	An alpha/beta-HSQC-alpha/beta experiment for spin-state selective editing of IS cross peaks. <i>Journal of Magnetic Resonance</i> , 1998 , 133, 364-7	3	66
92	Isolation and structure of a new galactolipid from oat seeds. <i>Lipids</i> , 1998 , 33, 355-63	1.6	29
91	Lipid membrane binding of NK-lysin. <i>FEBS Letters</i> , 1998 , 425, 341-4	3.8	51
90	Random coil conformation of a Gly/Ala-rich insert in IkappaB alpha excludes structural stabilization as the mechanism for protection against proteasomal degradation. <i>FEBS Letters</i> , 1998 , 440, 365-9	3.8	15
89	Water molecules in DNA recognition II: a molecular dynamics view of the structure and hydration of the trp operator. <i>Journal of Molecular Biology</i> , 1998 , 282, 859-73	6.5	75
88	Water molecules in DNA recognition I: hydration lifetimes of trp operator DNA in solution measured by NMR spectroscopy. <i>Journal of Molecular Biology</i> , 1998 , 282, 847-58	6.5	46
87	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

86	¹ H-Detected Multinuclear NMR Experiments for the Measurement of Small Heteronuclear Coupling Constants in Transition Metal Complexes. <i>Journal of the American Chemical Society</i> , 1997 , 119, 5425-5434	16.4	22
85	Precise limits of the N-terminal domain of DnaB helicase determined by NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 231, 126-30	3.4	21
84	NMR studies of water bound to biological molecules. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1997 , 31, 259-285	10.4	185
83	NMR identification of hydrophobic cavities with low water occupancies in protein structures using small gas molecules. <i>Nature Structural and Molecular Biology</i> , 1997 , 4, 396-404	17.6	89
82	Sapoin fold revealed by the NMR structure of NK-lysin. <i>Nature Structural Biology</i> , 1997 , 4, 793-5		188
81	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, 819-26		104
80	Pathway of chymotrypsin evolution suggested by the structure of the FMN-binding protein from <i>Desulfovibrio vulgaris</i> (Miyazaki F). <i>Nature Structural Biology</i> , 1997 , 4, 975-9		56
79	Organic solvents identify specific ligand binding sites on protein surfaces. <i>Nature Biotechnology</i> , 1997 , 15, 264-8	44.5	100
78	NMR assignments, secondary structure and hydration of oxidized <i>Escherichia coli</i> flavodoxin. <i>FEBS Journal</i> , 1997 , 244, 384-99		11
77	NMR structure of the death domain of the p75 neurotrophin receptor. <i>EMBO Journal</i> , 1997 , 16, 4999-5005		222
76	Detection of protein-ligand NOEs with small, weakly binding ligands by combined relaxation and diffusion filtering. <i>Journal of Biomolecular NMR</i> , 1997 , 9, 441-444	3	19
75	¹ H-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	16.4	19
74	Solution structure of a naturally-occurring zinc-peptide complex demonstrates that the N-terminal zinc-binding module of the Lasp-1 LIM domain is an independent folding unit. <i>Biochemistry</i> , 1996 , 35, 12723-32	3.2	49
73	Proton exchange rates from amino acid side chains--implications for image contrast. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 30-42	4.4	276
72	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, 219-24		18
71	Resonance assignment and structural analysis of acid denatured <i>E. coli</i> [U- ¹⁵ N]-glutaredoxin 3: use of 3D ¹⁵ N-HSQC-(TOCSY-NOESY)- ¹⁵ N-HSQC. <i>European Biophysics Journal</i> , 1996 , 24, 179-84	1.9	2
70	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, 2911-8	20.1	32
69	Glutaredoxin-3 from <i>Escherichia coli</i> . Amino acid sequence, ¹ H AND ¹⁵ N NMR assignments, and structural analysis. <i>Journal of Biological Chemistry</i> , 1996 , 271, 6736-45	5.4	56

68	Selective excitation of intense solvent signals in the presence of radiation damping. <i>Journal of Biomolecular NMR</i> , 1995 , 5, 420-6	3	36
67	The mechanism of the anaerobic <i>Escherichia coli</i> ribonucleotide reductase investigated with nuclear magnetic resonance spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1995 , 214, 28-35	3.4	27
66	Protein Hydration Viewed by High-Resolution NMR Spectroscopy: Implications for Magnetic Resonance Image Contrast. <i>Accounts of Chemical Research</i> , 1995 , 28, 171-177	24.3	105
65	Homeodomain-DNA Recognition. <i>World Scientific Series in 20th Century Chemistry</i> , 1995 , 493-505		2
64	¹ H-Detected INEPT-INADEQUATE at Natural ¹³ C Abundance. <i>Journal of Magnetic Resonance Series A</i> , 1995 , 113, 128-130		50
63	¹³ C-Relayed ¹³ C HSQC at Natural Isotopic Abundance. <i>Journal of Magnetic Resonance Series A</i> , 1995 , 116, 133-134		5
62	A Probehead with Switchable Quality Factor. Suppression of Radiation Damping. <i>Journal of Magnetic Resonance Series B</i> , 1995 , 106, 199-201		37
61	Selective Excitation of the Water Signal by a Q-Switched Selective Pulse. <i>Journal of Magnetic Resonance Series B</i> , 1995 , 107, 192-196		21
60	Long-Range HSQC with Spin-Lock Purge Pulses for the Observation of Heteronuclear Correlations with ¹ H Detection and Low ¹ H Noise. <i>Journal of Magnetic Resonance Series B</i> , 1995 , 109, 326-328		6
59	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, 2249-54	20.1	61
58	Axial-Peak Artifacts in Multipulse NMR Experiments. <i>Journal of Magnetic Resonance Series A</i> , 1994 , 109, 246-249		5
57	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		14
56	Specificity of Urea Binding to Proteins. <i>Journal of the American Chemical Society</i> , 1994 , 116, 9670-9674	16.4	95
55	Homeodomain-DNA recognition. <i>Cell</i> , 1994 , 78, 211-23	56.2	704
54	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, 1003-20	6.5	46
53	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, 137-53	6.5	25
52	Improved Spectral Resolution in ¹ H NMR Spectroscopy by Homonuclear Semiselective Shaped Pulse Decoupling during Acquisition. <i>Journal of the American Chemical Society</i> , 1994 , 116, 8847-8848	16.4	46
51	Hydration of proteins. A comparison of experimental residence times of water molecules solvating the bovine pancreatic trypsin inhibitor with theoretical model calculations. <i>Journal of Molecular Biology</i> , 1993 , 231, 1040-8	6.5	216

50	Nuclear magnetic resonance spectroscopy of a DNA complex with the uniformly ¹³ C-labeled Antennapedia homeodomain and structure determination of the DNA-bound homeodomain. <i>Journal of Molecular Biology</i> , 1993 , 234, 1070-83	6.5	74
49	Determination of the nuclear magnetic resonance solution structure of an Antennapedia homeodomain-DNA complex. <i>Journal of Molecular Biology</i> , 1993 , 234, 1084-93	6.5	251
48	Disulfide bond isomerization in BPTI and BPTI(G36S): an NMR study of correlated mobility in proteins. <i>Biochemistry</i> , 1993 , 32, 3571-82	3.2	157
47	NMR detection of hydration water in the intermolecular interface of a protein-DNA complex. <i>Journal of the American Chemical Society</i> , 1993 , 115, 1189-1190	16.4	86
46	Experimental NMR techniques for studies of protein-ligand interactions. <i>Current Opinion in Structural Biology</i> , 1993 , 3, 760-768	8.1	62
45	POMA: A Complete Mathematica Implementation of the NMR Product-Operator Formalism. <i>Journal of Magnetic Resonance Series A</i> , 1993 , 101, 103-105		56
44	Warum Pentose- und nicht Hexose-Nucleinsäuren??. Teil VI. Homo-DNS- ¹ H-, ¹³ C-, ³¹ P- und ¹⁵ N-NMR-spektroskopische Untersuchung von ddGlc(A-A-A-A-A-T-T-T-T) in wässriger Lösung. <i>Helvetica Chimica Acta</i> , 1993 , 76, 2701-2756	2	47
43	NMR structure determination reveals that the homeodomain is connected through a flexible linker to the main body in the Drosophila Antennapedia protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 10738-42	11.5	50
42	Protein hydration in aqueous solution. <i>Faraday Discussions</i> , 1992 , 35-45	3.6	53
41	Polypeptide hydration in mixed solvents at low temperatures. <i>Journal of the American Chemical Society</i> , 1992 , 114, 7093-7095	16.4	46
40	NMR observation of individual molecules of hydration water bound to DNA duplexes: direct evidence for a spine of hydration water present in aqueous solution. <i>Nucleic Acids Research</i> , 1992 , 20, 6549-53	20.1	199
39	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	2.1	5
38	Determination of scalar coupling constants by inverse Fourier transformation of in-phase multiplets. <i>Journal of Magnetic Resonance</i> , 1992 , 99, 552-560		16
37	NMR spectroscopy of hydroxyl protons in aqueous solutions of peptides and proteins. <i>Journal of Biomolecular NMR</i> , 1992 , 2, 447-65	3	101
36	Support of ¹ H NMR assignments in proteins by biosynthetically directed fractional ¹³ C-labeling. <i>Journal of Biomolecular NMR</i> , 1992 , 2, 323-34	3	88
35	Precise vicinal coupling constants ³ J _{HN} α in proteins from nonlinear fits of J-modulated [¹⁵ N, ¹ H]-COSY experiments. <i>Journal of Biomolecular NMR</i> , 1992 , 2, 257-74	3	104
34	Measurement of small heteronuclear ¹ H- ¹⁵ N coupling constants in ¹⁵ N-labeled proteins by 3D HNNHAB-COSY. <i>Journal of Magnetic Resonance</i> , 1991 , 93, 218-224		2
33	Protein hydration in aqueous solution. <i>Science</i> , 1991 , 254, 974-80	33.3	728

32	Protein hydration studied with homonuclear 3D 1H NMR experiments. <i>Journal of Biomolecular NMR</i> , 1991 , 1, 209-15	3	102
31	Similarities between the homeodomain and the Hin recombinase DNA-binding domain. <i>Cell</i> , 1991 , 64, 879-80	56.2	29
30	Structure determination of the Antp (C39----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. <i>Journal of Molecular Biology</i> , 1991 , 217, 531-40	6.5	124
29	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	16.4	87
28	The structure of the homeodomain and its functional implications. <i>Trends in Genetics</i> , 1990 , 6, 323-9	8.5	208
27	Suppression of zero-quantum coherence in NOESY and soft NOESY. <i>Journal of Magnetic Resonance</i> , 1990 , 89, 423-430		3
26	1H And 13C NMR chemical shifts of the diastereotopic methyl groups of valyl and leucyl residues in peptides and proteins. <i>Tetrahedron</i> , 1990 , 46, 3287-3296	2.4	29
25	Zero-quantum suppression in NOESY and experiments with a z filter. <i>Journal of Magnetic Resonance</i> , 1990 , 86, 496-508		5
24	Heteronuclear filters in two-dimensional [1H,1H]-NMR spectroscopy: combined use with isotope labelling for studies of macromolecular conformation and intermolecular interactions. <i>Quarterly Reviews of Biophysics</i> , 1990 , 23, 39-96	7	308
23	New nuclear magnetic resonance experiment for measurements of the vicinal coupling constants 3JHN.alpha. in proteins. <i>Journal of the American Chemical Society</i> , 1990 , 112, 3663-3665	16.4	72
22	Determination of the three-dimensional structure of the Antennapedia homeodomain from Drosophila in solution by 1H nuclear magnetic resonance spectroscopy. <i>Journal of Molecular Biology</i> , 1990 , 214, 183-97	6.5	116
21	Application of 13C(omega 1)-half-filtered [1H,1H]-NOESY for studies of a complex formed between DNA and a 13C-labeled minor-groove-binding drug. <i>FEBS Letters</i> , 1990 , 263, 313-6	3.8	9
20	Studies of Protein Hydration by Direct NMR Observation of Individual Protein-Bound Water Molecules 1990 , 141-147		2
19	A heteronuclear three-dimensional NMR experiment for measurements of small heteronuclear coupling constants in biological macromolecules. <i>Journal of Magnetic Resonance</i> , 1989 , 85, 426-431		11
18	Extended heteronuclear editing of 2D 1H NMR spectra of isotope-labeled proteins, using the X(1, 0) double half filter. <i>Journal of Magnetic Resonance</i> , 1989 , 85, 586-594		10
17	Solvent suppression using a spin lock in 2D and 3D NMR spectroscopy with H2O solutions. <i>Journal of Magnetic Resonance</i> , 1989 , 85, 608-613		35
16	The structure of the Antennapedia homeodomain determined by NMR spectroscopy in solution: comparison with prokaryotic repressors. <i>Cell</i> , 1989 , 59, 573-80	56.2	477
15	Studies of protein hydration in aqueous solution by direct NMR observation of individual protein-bound water molecules. <i>Journal of the American Chemical Society</i> , 1989 , 111, 1871-1875	16.4	277

14	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 ¹³ C labeling. <i>Biochemistry</i> , 1989 , 28, 7510-6	3.2	564
13	Efficient purging scheme for proton-detected heteronuclear two-dimensional NMR. <i>Journal of Magnetic Resonance</i> , 1988 , 76, 569-574		34
12	Clean TOCSY for proton spin system identification in macromolecules. <i>Journal of the American Chemical Society</i> , 1988 , 110, 7870-7872	16.4	1101
11	Protein structure and interactions by combined use of sequential NMR assignments and isotope labeling. <i>Journal of the American Chemical Society</i> , 1987 , 109, 1090-1092	16.4	50
10	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		5
9	Monitoring the purification by high-performance liquid chromatography of cardiotoxins from <i>Naja mossambica mossambica</i> using phase-sensitive two-dimensional nuclear magnetic resonance. <i>FEBS Journal</i> , 1987 , 168, 603-7		10
8	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> . <i>FEBS Journal</i> , 1987 , 168, 609-20		25
7	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, 215-20		21
6	Dynamic Liquid State NMR and IR Study of Tautomerism and Conformations of Tetraphenylloxalamidine, a Novel Small Intramolecular Double Hydrogen Transfer System. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1986 , 90, 1122-1129		24
5	Complete protein fingerprints by double-quantum spectroscopy. <i>Journal of Magnetic Resonance</i> , 1986 , 66, 359-363		8
4	Origin of β and β' ridges in 2D NMR spectra and procedures for suppression. <i>Journal of Magnetic Resonance</i> , 1986 , 66, 187-193		50
3	Editing of 2D ¹ H NMR spectra using X half-filters. combined use with residue-selective ¹⁵ N labeling of proteins. <i>Journal of Magnetic Resonance</i> , 1986 , 70, 500-505		22
2	Main protease mutants of SARS-CoV-2 variants remain susceptible to PF-07321332		9
1	Altered conformational sampling along an evolutionary trajectory changes the catalytic activity of an enzyme		3