

# Gottfried Otting

## List of Publications by Citations

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484  
ext. papers

19,249  
ext. citations

8.3  
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L-index

#	Paper	IF	Citations
301	Clean TOCSY for proton spin system identification in macromolecules. <i>Journal of the American Chemical Society</i> , <b>1988</b> , 110, 7870-7872	16.4	1101
300	Protein hydration in aqueous solution. <i>Science</i> , <b>1991</b> , 254, 974-80	33.3	728
299	Homeodomain-DNA recognition. <i>Cell</i> , <b>1994</b> , 78, 211-23	56.2	704
298	Alignment of Biological Macromolecules in Novel Nonionic Liquid Crystalline Media for NMR Experiments. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 7793-7797	16.4	564
297	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 <sup>13</sup> C labeling. <i>Biochemistry</i> , <b>1989</b> , 28, 7510-6	3.2	564
296	The structure of the Antennapedia homeodomain determined by NMR spectroscopy in solution: comparison with prokaryotic repressors. <i>Cell</i> , <b>1989</b> , 59, 573-80	56.2	477
295	Heteronuclear filters in two-dimensional [ <sup>1</sup> H, <sup>1</sup> H]-NMR spectroscopy: combined use with isotope labelling for studies of macromolecular conformation and intermolecular interactions. <i>Quarterly Reviews of Biophysics</i> , <b>1990</b> , 23, 39-96	7	308
294	Protein NMR using paramagnetic ions. <i>Annual Review of Biophysics</i> , <b>2010</b> , 39, 387-405	21.1	304
293	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> , <b>1989</b> , 111, 1871-1875	16.4	277
292	Proton exchange rates from amino acid side chains--implications for image contrast. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 30-42	4.4	276
291	Determination of the nuclear magnetic resonance solution structure of an Antennapedia homeodomain-DNA complex. <i>Journal of Molecular Biology</i> , <b>1993</b> , 234, 1084-93	6.5	251
290	NMR structure determination of protein-ligand complexes by lanthanide labeling. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 206-12	24.3	237
289	NMR structure of the death domain of the p75 neurotrophin receptor. <i>EMBO Journal</i> , <b>1997</b> , 16, 4999-5005		222
288	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> , <b>1993</b> , 231, 1040-8	6.5	216
287	The structure of the homeodomain and its functional implications. <i>Trends in Genetics</i> , <b>1990</b> , 6, 323-9	8.5	208
286	Dynamics of protein and peptide hydration. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 102-14	16.4	200
285	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> , <b>1992</b> , 20, 6549-53	20.1	199

284	Sapoin fold revealed by the NMR structure of NK-lysin. <i>Nature Structural Biology</i> , <b>1997</b> , 4, 793-5		188
283	NMR studies of water bound to biological molecules. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>1997</b> , 31, 259-285	10.4	185
282	Identification of protein surfaces by NMR measurements with a paramagnetic Gd(III) chelate. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 372-3	16.4	182
281	Disulfide bond isomerization in BPTI and BPTI(G36S): an NMR study of correlated mobility in proteins. <i>Biochemistry</i> , <b>1993</b> , 32, 3571-82	3.2	157
280	Prospects for lanthanides in structural biology by NMR. <i>Journal of Biomolecular NMR</i> , <b>2008</b> , 42, 1-9	3	156
279	Numbat: an interactive software tool for fitting Delta chi-tensors to molecular coordinates using pseudocontact shifts. <i>Journal of Biomolecular NMR</i> , <b>2008</b> , 41, 179-89	3	155
278	Paramagnetic labelling of proteins and oligonucleotides for NMR. <i>Journal of Biomolecular NMR</i> , <b>2010</b> , 46, 101-12	3	142
277	The death-domain fold of the ASC PYRIN domain, presenting a basis for PYRIN/PYRIN recognition. <i>Journal of Molecular Biology</i> , <b>2003</b> , 332, 1155-63	6.5	128
276	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> , <b>1991</b> , 217, 531-40	6.5	124
275	Nanometer-scale distance measurements in proteins using Gd <sup>3+</sup> spin labeling. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9040-8	16.4	122
274	Lanthanide labeling offers fast NMR approach to 3D structure determinations of protein-protein complexes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 3696-702	16.4	121
273	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> , <b>1990</b> , 214, 183-97	6.5	116
272	NMR structure of Escherichia coli glutaredoxin 3-glutathione mixed disulfide complex: implications for the enzymatic mechanism. <i>Journal of Molecular Biology</i> , <b>1999</b> , 286, 541-52	6.5	113
271	A dipicolinic acid tag for rigid lanthanide tagging of proteins and paramagnetic NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 10486-7	16.4	109
270	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> , <b>2011</b> , 133, 19205-15	16.4	108
269	Protein Hydration Viewed by High-Resolution NMR Spectroscopy: Implications for Magnetic Resonance Image Contrast. <i>Accounts of Chemical Research</i> , <b>1995</b> , 28, 171-177	24.3	105
268	Solution structure of the DNA-binding domain and model for the complex of multifunctional hexameric arginine repressor with DNA. <i>Nature Structural Biology</i> , <b>1997</b> , 4, 819-26		104
267	Spin-state selection filters for the measurement of heteronuclear one-bond coupling constants. <i>Journal of Biomolecular NMR</i> , <b>1998</b> , 12, 435-41	3	104

266	Precise vicinal coupling constants $3J_{\text{HN}}^{\alpha}$ in proteins from nonlinear fits of J-modulated $[15\text{N}, 1\text{H}]$ -COSY experiments. <i>Journal of Biomolecular NMR</i> , <b>1992</b> , 2, 257-74	3	104
265	Hydrophobic interactions in a cyanobacterial plastocyanin-cytochrome f complex. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 10444-53	16.4	103
264	Protein hydration studied with homonuclear 3D $1\text{H}$ NMR experiments. <i>Journal of Biomolecular NMR</i> , <b>1991</b> , 1, 209-15	3	102
263	NMR spectroscopy of hydroxyl protons in aqueous solutions of peptides and proteins. <i>Journal of Biomolecular NMR</i> , <b>1992</b> , 2, 447-65	3	101
262	Pseudocontact shifts in biomolecular NMR using paramagnetic metal tags. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>2017</b> , 98-99, 20-49	10.4	100
261	Organic solvents identify specific ligand binding sites on protein surfaces. <i>Nature Biotechnology</i> , <b>1997</b> , 15, 264-8	44.5	100
260	Structure determination of protein-ligand complexes by transferred paramagnetic shifts. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 12910-6	16.4	96
259	Gadolinium tagging for high-precision measurements of 6 nm distances in protein assemblies by EPR. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10418-21	16.4	95
258	DOTA-amide lanthanide tag for reliable generation of pseudocontact shifts in protein NMR spectra. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 2118-25	6.3	95
257	Specificity of Urea Binding to Proteins. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 9670-9674	16.4	95
256	Backbone assignment of fully protonated solid proteins by $1\text{H}$ detection and ultrafast magic-angle-spinning NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10756-9	16.4	91
255	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> , <b>2001</b> , 9, 457-71	5.2	91
254	Molecular electroporation: a unifying concept for the description of membrane pore formation by antibacterial peptides, exemplified with NK-lysin. <i>FEBS Letters</i> , <b>1999</b> , 462, 155-8	3.8	90
253	Protein structure determination from pseudocontact shifts using ROSETTA. <i>Journal of Molecular Biology</i> , <b>2012</b> , 416, 668-77	6.5	89
252	NMR identification of hydrophobic cavities with low water occupancies in protein structures using small gas molecules. <i>Nature Structural and Molecular Biology</i> , <b>1997</b> , 4, 396-404	17.6	89
251	Lanthanide-binding peptides for NMR measurements of residual dipolar couplings and paramagnetic effects from multiple angles. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1681-7	16.4	89
250	Support of $1\text{H}$ NMR assignments in proteins by biosynthetically directed fractional $^{13}\text{C}$ -labeling. <i>Journal of Biomolecular NMR</i> , <b>1992</b> , 2, 323-34	3	88
249	Proton exchange with internal water molecules in the protein BPTI in aqueous solution. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 4363-4364	16.4	87

248	NMR detection of hydration water in the intermolecular interface of a protein-DNA complex. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 1189-1190	16.4	86
247	Multiple-site labeling of proteins with unnatural amino acids. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 2243-6	16.4	82
246	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> , <b>2004</b> , 271, 4084-93		81
245	Fast structure-based assignment of <sup>15</sup> N HSQC spectra of selectively <sup>15</sup> N-labeled paramagnetic proteins. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 2963-70	16.4	80
244	A fluorescence quenching assay to discriminate between specific and nonspecific inhibitors of dengue virus protease. <i>Analytical Biochemistry</i> , <b>2009</b> , 395, 195-204	3.1	79
243	Site-specific labelling of proteins with a rigid lanthanide-binding tag. <i>ChemBioChem</i> , <b>2006</b> , 7, 1599-604	3.8	77
242	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> , <b>1998</b> , 282, 859-73	6.5	75
241	Site-specific labelling with a metal chelator for protein-structure refinement. <i>Journal of Biomolecular NMR</i> , <b>2004</b> , 29, 351-61	3	75
240	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> , <b>2003</b> , 11, 744-8	5.3	74
239	Nuclear magnetic resonance spectroscopy of a DNA complex with the uniformly <sup>13</sup> C-labeled Antennapedia homeodomain and structure determination of the DNA-bound homeodomain. <i>Journal of Molecular Biology</i> , <b>1993</b> , 234, 1070-83	6.5	74
238	New nuclear magnetic resonance experiment for measurements of the vicinal coupling constants <sup>3</sup> J <sub>HN</sub> . <sub>α</sub> in proteins. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 3663-3665	16.4	72
237	Flaviviral protease inhibitors identified by fragment-based library docking into a structure generated by molecular dynamics. <i>Journal of Medicinal Chemistry</i> , <b>2009</b> , 52, 4860-8	8.3	70
236	Lanthanide tags for site-specific ligation to an unnatural amino acid and generation of pseudocontact shifts in proteins. <i>Bioconjugate Chemistry</i> , <b>2013</b> , 24, 260-8	6.3	69
235	Spectroscopic selection of distance measurements in a protein dimer with mixed nitroxide and Gd <sup>3+</sup> spin labels. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 4355-8	3.6	68
234	Three-dimensional protein fold determination from backbone amide pseudocontact shifts generated by lanthanide tags at multiple sites. <i>Structure</i> , <b>2013</b> , 21, 883-90	5.2	67
233	Improving a natural enzyme activity through incorporation of unnatural amino acids. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 326-33	16.4	67
232	Rapid pulse length determination in high-resolution NMR. <i>Journal of Magnetic Resonance</i> , <b>2005</b> , 176, 115-9	3	67
231	An alpha/beta-HSQC-alpha/beta experiment for spin-state selective editing of IS cross peaks. <i>Journal of Magnetic Resonance</i> , <b>1998</b> , 133, 364-7	3	66

230	Nanometer-Range Distance Measurement in a Protein Using Mn <sup>2+</sup> Tags. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 157-160	6.4	64
229	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> , <b>2009</b> , 3, e5614.8	4.8	64
228	NMR analysis of in vitro-synthesized proteins without purification: a high-throughput approach. <i>FEBS Letters</i> , <b>2002</b> , 524, 159-62	3.8	64
227	Protein engineering with unnatural amino acids. <i>Current Opinion in Structural Biology</i> , <b>2013</b> , 23, 581-7	8.1	63
226	Cell-free transcription/translation from PCR-amplified DNA for high-throughput NMR studies. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3356-8	16.4	62
225	Memory T cell RNA rearrangement programmed by heterogeneous nuclear ribonucleoprotein hnRNPLL. <i>Immunity</i> , <b>2008</b> , 29, 863-75	32.3	62
224	Experimental NMR techniques for studies of protein-ligand interactions. <i>Current Opinion in Structural Biology</i> , <b>1993</b> , 3, 760-768	8.1	62
223	N-Labelled proteins by cell-free protein synthesis. Strategies for high-throughput NMR studies of proteins and protein-ligand complexes. <i>FEBS Journal</i> , <b>2006</b> , 273, 4154-9	5.7	61
222	In vivo protein cyclization promoted by a circularly permuted <i>Synechocystis</i> sp. PCC6803 DnaB mini-intein. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 7790-8	5.4	61
221	Hydration of DNA in aqueous solution: NMR evidence for a kinetic destabilization of the minor groove hydration of d-(TTAA) <sub>2</sub> versus d-(AATT) <sub>2</sub> segments. <i>Nucleic Acids Research</i> , <b>1994</b> , 22, 2249-54	20.1	61
220	Discovery of a non-peptidic inhibitor of west nile virus NS3 protease by high-throughput docking. <i>PLoS Neglected Tropical Diseases</i> , <b>2009</b> , 3, e356	4.8	60
219	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> , <b>1999</b> , 449, 196-200	3.8	60
218	Crystal and solution structures of the helicase-binding domain of <i>Escherichia coli</i> primase. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 11495-504	5.4	57
217	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> , <b>1999</b> , 7, 681-90	5.2	57
216	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> , <b>1997</b> , 4, 975-9		56
215	Role of charged and hydrophobic residues in the oligomerization of the PYRIN domain of ASC. <i>Biochemistry</i> , <b>2005</b> , 44, 575-83	3.2	56
214	Translational incorporation of L-3,4-dihydroxyphenylalanine into proteins. <i>FEBS Journal</i> , <b>2005</b> , 272, 3162-71	5.71	56
213	Glutaredoxin-3 from <i>Escherichia coli</i> . Amino acid sequence, 1H AND 15N NMR assignments, and structural analysis. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 6736-45	5.4	56

212	POMA: A Complete Mathematica Implementation of the NMR Product-Operator Formalism. <i>Journal of Magnetic Resonance Series A</i> , <b>1993</b> , 101, 103-105		56
211	How reliable are pseudocontact shifts induced in proteins and ligands by mobile paramagnetic metal tags? A modelling study. <i>Journal of Biomolecular NMR</i> , <b>2013</b> , 56, 203-16	3	55
210	Protein conformation by EPR spectroscopy using gadolinium tags clicked to genetically encoded p-azido-L-phenylalanine. <i>Chemical Communications</i> , <b>2015</b> , 51, 15898-901	5.8	54
209	Gd <sup>3+</sup> Spin Labeling for Measuring Distances in Biomacromolecules: Why and How?. <i>Methods in Enzymology</i> , <b>2015</b> , 563, 415-57	1.7	54
208	Sequence-specific and stereospecific assignment of methyl groups using paramagnetic lanthanides. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 13749-57	16.4	54
207	Weak alignment of paramagnetic proteins warrants correction for residual CSA effects in measurements of pseudocontact shifts. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 17190-1	16.4	54
206	Amino-acid type identification in 15N-HSQC spectra by combinatorial selective 15N-labelling. <i>Journal of Biomolecular NMR</i> , <b>2006</b> , 34, 13-21	3	54
205	Efficient chi-tensor determination and NH assignment of paramagnetic proteins. <i>Journal of Biomolecular NMR</i> , <b>2006</b> , 35, 79-87	3	53
204	Protein hydration in aqueous solution. <i>Faraday Discussions</i> , <b>1992</b> , 35-45	3.6	53
203	[Ln(DPA)(3)](3-) is a convenient paramagnetic shift reagent for protein NMR studies. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10352-3	16.4	52
202	Lipid membrane binding of NK-lysin. <i>FEBS Letters</i> , <b>1998</b> , 425, 341-4	3.8	51
201	NMR structure of the LCCL domain and implications for DFNA9 deafness disorder. <i>EMBO Journal</i> , <b>2001</b> , 20, 5347-53	13	51
200	1H-Detected INEPT-INADEQUATE at Natural 13C Abundance. <i>Journal of Magnetic Resonance Series A</i> , <b>1995</b> , 113, 128-130		50
199	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> , <b>1992</b> , 89, 10738-42	11.5	50
198	Origin of $\nu$ and $\delta$ ridges in 2D NMR spectra and procedures for suppression. <i>Journal of Magnetic Resonance</i> , <b>1986</b> , 66, 187-193		50
197	Protein structure and interactions by combined use of sequential NMR assignments and isotope labeling. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 1090-1092	16.4	50
196	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> , <b>1996</b> , 35, 12723-32	3.2	49
195	Cell-free protein synthesis for analysis by NMR spectroscopy. <i>Methods in Molecular Biology</i> , <b>2008</b> , 426, 257-68	1.4	49

194	High-yield cell-free protein synthesis for site-specific incorporation of unnatural amino acids at two sites. <i>Biochemical and Biophysical Research Communications</i> , <b>2012</b> , 418, 652-6	3.4	48
193	Thiol-ene reaction: a versatile tool in site-specific labelling of proteins with chemically inert tags for paramagnetic NMR. <i>Chemical Communications</i> , <b>2012</b> , 48, 2704-6	5.8	47
192	W-band orientation selective DEER measurements on a Gd <sup>3+</sup> /nitroxide mixed-labeled protein dimer with a dual mode cavity. <i>Journal of Magnetic Resonance</i> , <b>2013</b> , 227, 66-71	3	47
191	Gadolinium(III) spin labels for high-sensitivity distance measurements in transmembrane helices. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11831-4	16.4	47
190	3-Mercapto-2,6-pyridinedicarboxylic acid: a small lanthanide-binding tag for protein studies by NMR spectroscopy. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 3827-32	4.8	47
189	NMR structure of <i>Citrobacter freundii</i> AmpD, comparison with bacteriophage T7 lysozyme and homology with PGRP domains. <i>Journal of Molecular Biology</i> , <b>2003</b> , 327, 833-42	6.5	47
188	Warum Pentose- und nicht Hexose-Nucleinsäuren??. Teil VI. Homo-DNS- <sup>1</sup> H-, <sup>13</sup> C-, <sup>31</sup> P- und <sup>15</sup> N-NMR-spektroskopische Untersuchung von ddGlc(A-A-A-A-A-T-T-T-T) in wässriger Lösung. <i>Helvetica Chimica Acta</i> , <b>1993</b> , 76, 2701-2756	2	47
187	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> , <b>2007</b> , 35, 2813-24	20.1	46
186	Water molecules in DNA recognition I: hydration lifetimes of trp operator DNA in solution measured by NMR spectroscopy. <i>Journal of Molecular Biology</i> , <b>1998</b> , 282, 847-58	6.5	46
185	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> , <b>1994</b> , 235, 1003-20	6.5	46
184	Improved Spectral Resolution in <sup>1</sup> H NMR Spectroscopy by Homonuclear Semiselective Shaped Pulse Decoupling during Acquisition. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 8847-8848	16.4	46
183	Polypeptide hydration in mixed solvents at low temperatures. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 7093-7095	16.4	46
182	Sensitive NMR Approach for Determining the Binding Mode of Tightly Binding Ligand Molecules to Protein Targets. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 4539-46	16.4	45
181	Engineering of a bis-chelator motif into a protein $\alpha$ -helix for rigid lanthanide binding and paramagnetic NMR spectroscopy. <i>Chemical Communications</i> , <b>2011</b> , 47, 7368-70	5.8	43
180	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> , <b>2015</b> , 6, 5016-21	6.4	41
179	Discovery of Nonstandard Macrocyclic Peptides as Noncompetitive Inhibitors of the Zika Virus NS2B-NS3 Protease. <i>ACS Medicinal Chemistry Letters</i> , <b>2019</b> , 10, 168-174	4.3	41
178	Stabilization of native protein fold by intein-mediated covalent cyclization. <i>Journal of Molecular Biology</i> , <b>2005</b> , 346, 1095-108	6.5	40
177	Modulation of the distance dependence of paramagnetic relaxation enhancements by CSA x DSA cross-correlation. <i>Journal of Magnetic Resonance</i> , <b>2004</b> , 171, 233-43	3	40



176	NMR experiments for the sign determination of homonuclear scalar and residual dipolar couplings. <i>Journal of Biomolecular NMR</i> , <b>2000</b> , 16, 343-6	3	40
175	Solution conformations of a linked construct of the Zika virus NS2B-NS3 protease. <i>Antiviral Research</i> , <b>2017</b> , 142, 141-147	10.8	39
174	NMR structure of oxidized glutaredoxin 3 from Escherichia coli. <i>Journal of Molecular Biology</i> , <b>2000</b> , 303, 423-32	6.5	39
173	The dengue virus NS2B-NS3 protease retains the closed conformation in the complex with BPTI. <i>FEBS Letters</i> , <b>2014</b> , 588, 2206-11	3.8	37
172	A Probehead with Switchable Quality Factor. Suppression of Radiation Damping. <i>Journal of Magnetic Resonance Series B</i> , <b>1995</b> , 106, 199-201		37
171	NMR studies of ligand binding. <i>Current Opinion in Structural Biology</i> , <b>2018</b> , 48, 16-22	8.1	36
170	Selective excitation of intense solvent signals in the presence of radiation damping. <i>Journal of Biomolecular NMR</i> , <b>1995</b> , 5, 420-6	3	36
169	Solvent suppression using a spin lock in 2D and 3D NMR spectroscopy with H <sub>2</sub> O solutions. <i>Journal of Magnetic Resonance</i> , <b>1989</b> , 85, 608-613		35
168	Selective Distance Measurements Using Triple Spin Labeling with Gd, Mn, and a Nitroxide. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5277-5282	6.4	34
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