

Hartmut Oschkinat

List of Publications by Year in descending order

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238
papers

14,593
citations

20817

60
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24258

110
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260
all docs

260
docs citations

260
times ranked

11219
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of a protein determined by solid-state magic-angle-spinning NMR spectroscopy. <i>Nature</i> , 2002, 420, 99-102.	27.8	826
2	Structure of the WW domain of a kinase-associated protein complexed with a proline-rich peptide. <i>Nature</i> , 1996, 382, 646-649.	27.8	426
3	Automated NOESY interpretation with ambiguous distance restraints: the refined NMR solution structure of the pleckstrin homology domain from β -spectrin 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1997, 269, 408-422.	4.2	414
4	Perspectives on NMR in drug discovery: a technique comes of age. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 738-745.	46.4	373
5	Peptide conformations. Part 31. The conformation of cyclosporin a in the crystal and in solution. <i>Helvetica Chimica Acta</i> , 1985, 68, 682-704.	1.6	343
6	AhR sensing of bacterial pigments regulates antibacterial defence. <i>Nature</i> , 2014, 512, 387-392.	27.8	309
7	A software tool for the prediction of Xaa-Pro peptide bond conformations in proteins based on ^{13}C chemical shift statistics. <i>Journal of Biomolecular NMR</i> , 2002, 24, 149-154.	2.8	308
8	Backbone and Side-Chain ^{13}C and ^{15}N Signal Assignments of the β -Spectrin SH3 Domain by Magic Angle Spinning Solid-State NMR at 17.6 Tesla. <i>ChemBioChem</i> , 2001, 2, 272-281.	2.6	302
9	Solid-state NMR and SAXS studies provide a structural basis for the activation of β -crystallin oligomers. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1037-1042.	8.2	263
10	Three-dimensional NMR spectroscopy of a protein in solution. <i>Nature</i> , 1988, 332, 374-376.	27.8	258
11	Structure of the pleckstrin homology domain from β -spectrin. <i>Nature</i> , 1994, 369, 675-677.	27.8	256
12	Rapid Proton-Detected NMR Assignment for Proteins with Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , 2014, 136, 12489-12497.	13.7	254
13	Recognition of Proline-Rich Motifs by Protein-Protein-Interaction Domains. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2852-2869.	13.8	236
14	Specific interactions between the syntrophin PDZ domain and voltage-gated sodium channels. <i>Nature Structural Biology</i> , 1998, 5, 19-24.	9.7	217
15	Structural analysis of WW domains and design of a WW prototype. <i>Nature Structural Biology</i> , 2000, 7, 375-379.	9.7	208
16	The interaction of thrombin with fibrinogen. A structural basis for its specificity. <i>FEBS Journal</i> , 1992, 206, 187-195.	0.2	203
17	N-terminal domain of β -crystallin provides a conformational switch for multimerization and structural heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6409-6414.	7.1	185
18	Proton-Detected Solid-State NMR Spectroscopy of Fibrillar and Membrane Proteins. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4508-4512.	13.8	179

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19	General structural motifs of amyloid protofilaments. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16248-16253.	7.1	176
20	Peptide conformations. Part 30. Assignment of the ^1H -, ^{13}C -, and ^{15}N -NMR spectra of cyclosporin A in CDCl_3 and C_6D_6 by a combination of homo- and heteronuclear two-dimensional techniques. Helvetica Chimica Acta, 1985, 68, 661-681.	1.6	164
21	Sample Optimization and Identification of Signal Patterns of Amino Acid Side Chains in 2D RFDR Spectra of the α -Spectrin SH3 Domain. Journal of Magnetic Resonance, 2000, 143, 411-416.	2.1	162
22	Dynamic Nuclear Polarization of Deuterated Proteins. Angewandte Chemie - International Edition, 2010, 49, 7803-7806.	13.8	154
23	Fast passage dynamic nuclear polarization on rotating solids. Journal of Magnetic Resonance, 2012, 224, 13-21.	2.1	140
24	Quantification of PDZ Domain Specificity, Prediction of Ligand Affinity and Rational Design of Super-binding Peptides. Journal of Molecular Biology, 2004, 343, 703-718.	4.2	138
25	A software framework for analysing solid-state MAS NMR data. Journal of Biomolecular NMR, 2011, 51, 437-447.	2.8	138
26	EVH1 domains: structure, function and interactions. FEBS Letters, 2002, 513, 45-52.	2.8	132
27	^1H Detection in MAS Solid-State NMR Spectroscopy of Biomacromolecules Employing Pulsed Field Gradients for Residual Solvent Suppression. Journal of the American Chemical Society, 2003, 125, 7788-7789.	13.7	132
28	Determination of Solid-State NMR Structures of Proteins by Means of Three-Dimensional ^{15}N - ^{13}C Dipolar Correlation Spectroscopy and Chemical Shift Analysis. Biochemistry, 2003, 42, 11476-11483.	2.5	132
29	Characterization of Membrane Proteins in Isolated Native Cellular Membranes by Dynamic Nuclear Polarization Solid-State NMR Spectroscopy without Purification and Reconstitution. Angewandte Chemie - International Edition, 2012, 51, 432-435.	13.8	124
30	Enhanced Resolution and Coherence Lifetimes in the Solid-State NMR Spectroscopy of Perdeuterated Proteins under Ultrafast Magic-Angle Spinning. Journal of Physical Chemistry Letters, 2011, 2, 2205-2211.	4.6	123
31	SNARE motif-mediated sorting of synaptobrevin by the endocytic adaptors clathrin assembly lymphoid myeloid leukemia (CALM) and AP180 at synapses. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13540-13545.	7.1	123
32	Delay of phagosome maturation by a mycobacterial lipid is reversed by nitric oxide. Cellular Microbiology, 2008, 10, 1530-1545.	2.1	122
33	Optimum levels of exchangeable protons in perdeuterated proteins for proton detection in MAS solid-state NMR spectroscopy. Journal of Biomolecular NMR, 2010, 46, 67-73.	2.8	120
34	WW domain sequence activity relationships identified using ligand recognition propensities of 42 WW domains. Protein Science, 2003, 12, 491-500.	7.6	119
35	An Approach to the Structure Determination of Larger Proteins Using Triple Resonance NMR Experiments in Conjunction with Random Fractional Deuteration. Journal of the American Chemical Society, 1996, 118, 407-415.	13.7	114
36	Assigning large proteins in the solid state: a MAS NMR resonance assignment strategy using selectively and extensively ^{13}C -labelled proteins. Journal of Biomolecular NMR, 2009, 44, 245-260.	2.8	110

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37	Neurotoxin II Bound to Acetylcholine Receptors in Native Membranes Studied by Dynamic Nuclear Polarization NMR. <i>Journal of the American Chemical Society</i> , 2011, 133, 19266-19269.	13.7	108
38	Cryogenic temperature effects and resolution upon slow cooling of protein preparations in solid state NMR. <i>Journal of Biomolecular NMR</i> , 2011, 51, 283-292.	2.8	108
39	Solution structures of the YAP65 WW domain and the variant L30 K in complex with the peptides GTPPPYTVG, N-(n-octyl)-GPPPY and PLPPY and the application of peptide libraries reveal a minimal binding epitope. <i>Journal of Molecular Biology</i> , 2001, 314, 1147-1156.	4.2	106
40	Î±B-Crystallin: A Hybrid Solid-State/Solution-State NMR Investigation Reveals Structural Aspects of the Heterogeneous Oligomer. <i>Journal of Molecular Biology</i> , 2009, 385, 1481-1497.	4.2	106
41	Theoretical aspects of Magic Angle Spinning - Dynamic Nuclear Polarization. <i>Journal of Magnetic Resonance</i> , 2015, 258, 102-120.	2.1	101
42	Structural changes of TasA in biofilm formation of <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3237-3242.	7.1	97
43	Host monitoring of quorum sensing during <i>Pseudomonas aeruginosa</i> infection. <i>Science</i> , 2019, 366, .	12.6	95
44	Structure of outer membrane protein G in lipid bilayers. <i>Nature Communications</i> , 2017, 8, 2073.	12.8	91
45	Large Protein Complexes with Extreme Rotational Correlation Times Investigated in Solution by Magic-Angle-Spinning NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 15968-15969.	13.7	86
46	Regulation of endosomal membrane traffic by a Gadkin/AP-1/kinesin KIF5 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15344-15349.	7.1	85
47	The Structures of Native Phosphorylated Chicken Cystatin and of a Recombinant Unphosphorylated Variant in Solution. <i>Journal of Molecular Biology</i> , 1993, 234, 1048-1059.	4.2	84
48	MUSIC in Triple-Resonance Experiments: Amino Acid Type-Selective ¹ H- ¹⁵ N Correlations. <i>Journal of Magnetic Resonance</i> , 1999, 141, 34-43.	2.1	82
49	Conformational Variability of Chicken Cystatin. <i>Journal of Molecular Biology</i> , 1993, 234, 1060-1069.	4.2	81
50	The ScPex13p SH3 Domain Exposes Two Distinct Binding Sites for Pex5p and Pex14p. <i>Journal of Molecular Biology</i> , 2003, 326, 1427-1435.	4.2	80
51	Solid-State Magic-Angle Spinning NMR of Outer-Membrane Protein G from <i>Escherichia coli</i> . <i>ChemBioChem</i> , 2005, 6, 1679-1684.	2.6	79
52	Sulindac-Derived Ras Pathway Inhibitors Target the Ras-Raf Interaction and Downstream Effectors in the Ras Pathway. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 454-458.	13.8	78
53	Detection of dynamic water molecules in a microcrystalline sample of the SH3 domain of Î±-spectrin by MAS solid-state NMR. <i>Journal of Biomolecular NMR</i> , 2005, 31, 295-310.	2.8	78
54	The effect of biradical concentration on the performance of DNP-MAS-NMR. <i>Journal of Magnetic Resonance</i> , 2012, 216, 209-212.	2.1	78

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55	Characterization of ^1H - ^1H Distances in a Uniformly ^2H , ^{15}N -Labeled SH3 Domain by MAS Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 1488-1489.	13.7	77
56	Solution structure of the receptor tyrosine kinase EphB2 SAM domain and identification of two distinct homotypic interaction sites. <i>Protein Science</i> , 1999, 8, 1954-1961.	7.6	73
57	NMR structure of the Wnt modulator protein Sclerostin. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 160-165.	2.1	72
58	Small-Molecule Scaffolds for CYP51 Inhibitors Identified by High-Throughput Screening and Defined by X-Ray Crystallography. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 3915-3923.	3.2	70
59	Two-dimensional correlation of directly and remotely connected transitions by z-filtered COSY. <i>Journal of Magnetic Resonance</i> , 1986, 69, 559-566.	0.5	67
60	MUSIC, Selective Pulses, and Tuned Delays: Amino Acid Type-Selective ^1H - ^{15}N Correlations, II. <i>Journal of Magnetic Resonance</i> , 2001, 148, 61-72.	2.1	64
61	DNP NMR of biomolecular assemblies. <i>Journal of Structural Biology</i> , 2019, 206, 90-98.	2.8	64
62	Antigen 85C Inhibition Restricts Mycobacterium tuberculosis Growth through Disruption of Cord Factor Biosynthesis. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1735-1743.	3.2	62
63	A Well-Defined Pd Hybrid Material for the <i>z</i> -Selective Semihydrogenation of Alkynes Characterized at the Molecular Level by DNP SENS. <i>Chemistry - A European Journal</i> , 2013, 19, 12234-12238.	3.3	61
64	Improved Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy through Controlled Incorporation of Deuterated Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1222-1225.	13.8	58
65	Receptor binding properties of four α -helix bundle growth factors deduced from electrostatic analysis. <i>Protein Science</i> , 1994, 3, 920-935.	7.6	57
66	Measurement of Multiple γ Torsion Angles in Uniformly ^{13}C , ^{15}N -Labeled β -Spectrin SH3 Domain Using 3D ^{15}N - ^{13}C - ^{13}C - ^{15}N MAS Dipolar-Chemical Shift Correlation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 6827-6833.	13.7	57
67	MAS NMR structure refinement of uniformly ^{13}C enriched chlorophyll a/water aggregates with 2D dipolar correlation spectroscopy. <i>Chemical Physics Letters</i> , 1995, 237, 502-508.	2.6	56
68	An approach to global fold determination using limited NMR data from larger proteins selectively protonated at specific residue types. <i>Journal of Biomolecular NMR</i> , 1996, 8, 360-368.	2.8	56
69	Structural biology applications of solid state MAS DNP NMR. <i>Journal of Magnetic Resonance</i> , 2016, 269, 213-224.	2.1	55
70	RIP2 filament formation is required for NOD2 dependent NF- κ B signalling. <i>Nature Communications</i> , 2018, 9, 4043.	12.8	55
71	An integrated approach to structural genomics. <i>Progress in Biophysics and Molecular Biology</i> , 2000, 73, 347-362.	2.9	54
72	Out-and-back ^{13}C - ^{13}C scalar transfers in protein resonance assignment by proton-detected solid-state NMR under ultra-fast MAS. <i>Journal of Biomolecular NMR</i> , 2013, 56, 379-386.	2.8	54

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73	Light-Induced Dark Adaptation of Channelrhodopsin Involves Photoconversion between the all-trans and 13-cis Retinal Isomers. <i>Biochemistry</i> , 2015, 54, 5389-5400.	2.5	54
74	Synthesis of an Array Comprising 837 Variants of the hYAP WW Protein Domain. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 897-900.	13.8	53
75	Preferential and Specific Binding of Human β -Crystallin to a Cataract-Related Variant of β -Crystallin. <i>Structure</i> , 2013, 21, 2221-2227.	3.3	53
76	High-throughput three-dimensional protein structure determination. <i>Current Opinion in Biotechnology</i> , 2001, 12, 348-354.	6.6	52
77	Dynamic nuclear polarization of spherical nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20706.	2.8	52
78	Combining SPOT Synthesis and Native Peptide Ligation to Create Large Arrays of WW Protein Domains. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1136-1140.	13.8	51
79	Quantitative and Qualitative Analysis of Surface Modified Cellulose Utilizing TGA-MS. <i>Materials</i> , 2016, 9, 415.	2.9	51
80	Title is missing!. <i>Journal of Biomolecular NMR</i> , 1997, 10, 95-106.	2.8	50
81	The solution structure of the N-terminal domain of E3L shows a tyrosine conformation that may explain its reduced affinity to Z-DNA in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2712-2717.	7.1	50
82	bcTol: a highly water-soluble biradical for efficient dynamic nuclear polarization of biomolecules. <i>Chemical Communications</i> , 2016, 52, 7020-7023.	4.1	49
83	Dynamic Nuclear Polarization Enhanced MAS NMR Spectroscopy for Structural Analysis of HIV-1 Protein Assemblies. <i>Journal of Physical Chemistry B</i> , 2016, 120, 329-339.	2.6	49
84	The structures of the active center in dark-adapted bacteriorhodopsin by solution-state NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9765-9770.	7.1	48
85	[2,3- ^{13}C]-labeling of Aromatic Residues Getting a Head Start in the Magic-Angle-Spinning NMR Assignment of Membrane Proteins. <i>Journal of the American Chemical Society</i> , 2008, 130, 408-409.	13.7	48
86	Protein Structure Determination with Three- and Four-Dimensional NMR Spectroscopy. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 277-293.	4.4	47
87	Rational design of a GCN4-derived mimetic of interleukin-4. <i>Nature Structural Biology</i> , 1999, 6, 652-656.	9.7	46
88	MUSIC and Aromatic Residues: Amino Acid Type-Selective ^1H - ^{15}N Correlations, III. <i>Journal of Magnetic Resonance</i> , 2001, 153, 186-192.	2.1	46
89	Studying the Conformation of a Silaffin-Derived Pentalysine Peptide Embedded in Bioinspired Silica using Solution and Dynamic Nuclear Polarization Magic-Angle Spinning NMR. <i>Journal of the American Chemical Society</i> , 2016, 138, 5561-5567.	13.7	46
90	Assignment of amide proton signals by combined evaluation of HN, NN and HNCA MAS-NMR correlation spectra. <i>Journal of Biomolecular NMR</i> , 2003, 25, 217-223.	2.8	45

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91	Dynamic Nuclear Polarization Enhanced NMR in the Solid-State. Topics in Current Chemistry, 2013, 338, 181-228.	4.0	45
92	Addressing Protein-Protein Interactions with Small Molecules: A Pro-Pro Dipeptide Mimic with a PPII Helix Conformation as a Module for the Synthesis of PRD-Binding Ligands. Angewandte Chemie - International Edition, 2010, 49, 7111-7115.	13.8	44
93	Discovery of Low-Molecular-Weight Ligands for the AF6 PDZ Domain. Angewandte Chemie - International Edition, 2006, 45, 3790-3795.	13.8	41
94	Large-scale purification of ribosome nascent chain complexes for biochemical and structural studies. FEBS Letters, 2009, 583, 2407-2413.	2.8	41
95	Computer-assisted assignment of multidimensional NMR spectra of proteins: Application to 3D NOESY-HMQC and TOCSY-HMQC spectra. Journal of Biomolecular NMR, 1993, 3, 245.	2.8	40
96	Characterization of Pheophytin Ground States in Rhodospirillum rubrum Photosynthetic Reaction Centers from Multispin Pheophytin Enrichment and 2-D ¹³ C MAS NMR Dipolar Correlation Spectroscopy. Biochemistry, 1997, 36, 7513-7519.	2.5	40
97	Solution Structure and Backbone Dynamics of the Trypanosoma cruzi Cysteine Protease Inhibitor Chagasins. Journal of Molecular Biology, 2006, 357, 1511-1521.	4.2	40
98	Solid-State NMR of Matrix Metalloproteinase 12: An Approach Complementary to Solution NMR. ChemBioChem, 2007, 8, 486-489.	2.6	40
99	Azides Derived from Colchicine and their Use in Library Synthesis: a Practical Entry to New Bioactive Derivatives of an Old Natural Drug. ChemMedChem, 2010, 5, 661-665.	3.2	40
100	Intermolecular Protein-RNA Interactions Revealed by 2D ³¹ P- ¹⁵ N Magic Angle Spinning Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 3842-3846.	13.7	40
101	Optimal ² H rf Pulses and ² H- ¹³ C Cross-Polarization Methods for Solid-State ² H MAS NMR of Perdeuterated Proteins. Journal of Physical Chemistry Letters, 2011, 2, 1289-1294.	4.6	39
102	A modular toolkit to inhibit proline-rich motif-mediated protein-protein interactions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5011-5016.	7.1	39
103	Assignment of the Nonexchanging Protons of the β -Spectrin SH3 Domain by Two- and Three-Dimensional ¹ H- ¹³ C Solid-State Magic-Angle Spinning NMR and Comparison of Solution and Solid-State Proton Chemical Shifts. ChemBioChem, 2001, 2, 906-914.	2.6	38
104	Solid-state magic-angle spinning NMR of membrane proteins and protein-ligand interactions. European Journal of Cell Biology, 2012, 91, 340-348.	3.6	38
105	Aspects of Receptor Binding and Signalling of Interleukin-4 Investigated by Site-directed Mutagenesis and NMR Spectroscopy. Journal of Molecular Biology, 1994, 237, 423-436.	4.2	37
106	Heteronuclear relaxation study of the PH domain of β -spectrin: restriction of loop motions upon binding inositol trisphosphate 1 Edited by P. E. Wright. Journal of Molecular Biology, 1998, 280, 879-896.	4.2	37
107	Comparative Structural and Energetic Analysis of WW Domain-Protein Interactions. Journal of Molecular Biology, 2004, 344, 865-881.	4.2	37
108	A MAS NMR Study of the Bacterial ABC Transporter ArtMP. ChemBioChem, 2010, 11, 547-555.	2.6	37

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109	Efficiency of Water-Soluble Nitroxide Biradicals for Dynamic Nuclear Polarization in Rotating Solids at 9.4 T: bcTol and cyolyl-TOTAPOL as New Polarizing Agents. <i>Chemistry - A European Journal</i> , 2018, 24, 13485-13494.	3.3	37
110	Structures of proteins in solution derived from homonuclear three-dimensional NOE-NOE nuclear magnetic resonance spectroscopy. High-resolution structure of squash trypsin inhibitor. <i>Journal of the American Chemical Society</i> , 1991, 113, 3196-3198.	13.7	36
111	Crystalline Aluminum Hydroxy Fluorides: Structural Insights Obtained by High Field Solid State NMR and Trend Analyses. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15708-15720.	3.1	36
112	2D ¹³ C MAS NMR Correlation Spectroscopy with Mixing by True 1H Spin Diffusion Reveals Long-Range Intermolecular Distance Restraints in Ultra High Magnetic Field. <i>Journal of Magnetic Resonance</i> , 2002, 157, 286-291.	2.1	34
113	Discovery, Structure-Activity Relationship Studies, and Crystal Structure of Nonpeptide Inhibitors Bound to the Shank3 PDZ Domain. <i>ChemMedChem</i> , 2011, 6, 1411-1422.	3.2	34
114	Sensitivity and resolution of proton detected spectra of a deuterated protein at 40 and 60 kHz magic-angle-spinning. <i>Journal of Biomolecular NMR</i> , 2015, 61, 161-171.	2.8	34
115	Pigmentation Chemistry and Radical-Based Collagen Degradation in Alkaptonuria and Osteoarthritic Cartilage. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11937-11942.	13.8	34
116	Application of amino acid type-specific 1H- and 14N-labeling in a 2H-, 15N-labeled background to a 47 kDa homodimer: potential for NMR structure determination of large proteins. <i>Journal of Biomolecular NMR</i> , 1999, 14, 79-83.	2.8	33
117	Structural analysis of a signal peptide inside the ribosome tunnel by DNP MAS NMR. <i>Science Advances</i> , 2016, 2, e1600379.	10.3	33
118	NMR Investigations of the Role of the Sugar Moiety in Glycosylated Recombinant Human Granulocyte-Colony-Stimulating Factor. <i>FEBS Journal</i> , 1997, 247, 386-395.	0.2	32
119	A comparison of NCO and NCA transfer methods for biological solid-state NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2012, 214, 81-90.	2.1	32
120	Quantitative study of the effects of chemical shift tolerances and rates of SA cooling on structure calculation from automatically assigned NOE data. <i>Journal of Magnetic Resonance</i> , 2005, 175, 92-102.	2.1	31
121	Three-dimensional deuterium-carbon correlation experiments for high-resolution solid-state MAS NMR spectroscopy of large proteins. <i>Journal of Biomolecular NMR</i> , 2011, 51, 477-485.	2.8	31
122	High-Temperature Dynamic Nuclear Polarization Enhanced Magic-Angle-Spinning NMR. <i>Applied Magnetic Resonance</i> , 2012, 43, 81-90.	1.2	31
123	Multifunctional Benzoxazines Feature Low Polymerization Temperature and Diverse Polymer Structures. <i>Polymers</i> , 2016, 8, 278.	4.5	31
124	Insight into small molecule binding to the neonatal Fc receptor by X-ray crystallography and 100 kHz magic-angle-spinning NMR. <i>PLoS Biology</i> , 2018, 16, e2006192.	5.6	31
125	Dynamic Nuclear Polarization Magic-Angle Spinning Nuclear Magnetic Resonance Combined with Molecular Dynamics Simulations Permits Detection of Order and Disorder in Viral Assemblies. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5048-5058.	2.6	31
126	Fine structure in two-dimensional NMR correlation spectroscopy. <i>Journal of Magnetic Resonance</i> , 1984, 60, 164-169.	0.5	30

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127	Temperature dependence of cross-effect dynamic nuclear polarization in rotating solids: advantages of elevated temperatures. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30696-30704.	2.8	30
128	A 6 bp Z-DNA hairpin binds two Z β domains from the human RNA editing enzyme ADAR1. <i>FEBS Letters</i> , 1999, 458, 27-31.	2.8	29
129	The Oxidized Subunit B8 from Human Complex I Adopts a Thioredoxin Fold. <i>Structure</i> , 2004, 12, 1645-1654.	3.3	29
130	Towards structure determination of neurotoxin II bound to nicotinic acetylcholine receptor: a solid-state NMR approach. <i>FEBS Letters</i> , 2004, 564, 319-324.	2.8	29
131	SOLARIA: A Protocol for Automated Cross-Peak Assignment and Structure Calculation for Solid-State Magic-Angle Spinning NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6151-6154.	13.8	29
132	z-Filtered double-quantum NMR spectra and automated analysis by pattern recognition. <i>Journal of Magnetic Resonance</i> , 1987, 73, 493-511.	0.5	28
133	Purification and characterization of a chicken egg white cystatin variant expressed in an <i>Escherichia coli</i> pIN-III-ompA system. <i>FEBS Journal</i> , 1991, 200, 131-138.	0.2	28
134	Geometrical representation of coherence transfer selection by pulsed field gradients in high-resolution nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1995, 102, 3089-3098.	3.0	28
135	Biosynthesis of Riboflavin in Archaea Studies on the Mechanism of 3,4-Dihydroxy-2-butanone-4-phosphate Synthase of <i>Methanococcus jannaschii</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 41410-41416.	3.4	28
136	Amino acid type-selective backbone ¹ H- ¹⁵ N-correlations for Arg and Lys. <i>Journal of Biomolecular NMR</i> , 2001, 20, 379-384.	2.8	27
137	Relaxation, Equilibrium Oligomerization, and Molecular Symmetry of the VASP (336~380) EVH2 Tetramer. <i>Biochemistry</i> , 2002, 41, 11143-11151.	2.5	27
138	¹³ C-Labeled Tyrosine Residues as Local IR Probes for Monitoring Conformational Changes in Peptides and Proteins. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4631-4635.	13.8	27
139	Interaction of a PDZ Protein Domain with a Synthetic Library of All Human Protein C Termini. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2000-2004.	13.8	26
140	Triple Resonance Cross-Polarization for More Sensitive ¹³ C MAS NMR Spectroscopy of Deuterated Proteins. <i>ChemPhysChem</i> , 2011, 12, 2092-2096.	2.1	26
141	Determination of relaxation pathways in coupled spin systems by two-dimensional NMR exchange spectroscopy with small flip angles. <i>Journal of the American Chemical Society</i> , 1987, 109, 4110-4111.	13.7	25
142	Loop 3 of Short Neurotoxin II is an Additional Interaction Site with Membrane-bound Nicotinic Acetylcholine Receptor as Detected by Solid-state NMR Spectroscopy. <i>Journal of Molecular Biology</i> , 2009, 390, 662-671.	4.2	25
143	Surface Binding of TOTAPOL Assists Structural Investigations of Amyloid Fibrils by Dynamic Nuclear Polarization NMR Spectroscopy. <i>ChemBioChem</i> , 2016, 17, 1308-1311.	2.6	25
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