

Ad Bax

List of Publications by Year in descending order

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190
papers

49,745
citations

6613

79
h-index

2953

189
g-index

212
all docs

212
docs citations

212
times ranked

27641
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in NMR Spectroscopy of Weakly Aligned Biomolecular Systems. <i>Chemical Reviews</i> , 2022, 122, 9307-9330.	47.7	27
2	Quantitative detection of hydrogen peroxide in rain, air, exhaled breath, and biological fluids by NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	27
3	Simultaneous Quantification of H ₂ O ₂ and Organic Hydroperoxides by ¹ H NMR Spectroscopy. <i>Analytical Chemistry</i> , 2022, 94, 5729-5733.	6.5	6
4	Real-time Exchange of the Lipid-bound Intermediate and Post-fusion States of the HIV-1 gp41 Ectodomain. <i>Journal of Molecular Biology</i> , 2022, 434, 167683.	4.2	2
5	Hybrid measurement of respiratory aerosol reveals a dominant coarse fraction resulting from speech that remains airborne for minutes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	17
6	Concentration-Dependent Structural Transition of the HIV-1 gp41 MPER Peptide into α -Helical Trimers. <i>Angewandte Chemie</i> , 2021, 133, 168-172.	2.0	0
7	SARS-CoV-2 transmission via speech-generated respiratory droplets. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 318.	9.1	13
8	Concentration-Dependent Structural Transition of the HIV-1 gp41 MPER Peptide into α -Helical Trimers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 166-170.	13.8	5
9	Hydrating the respiratory tract: An alternative explanation why masks lower severity of COVID-19. <i>Biophysical Journal</i> , 2021, 120, 994-1000.	0.5	45
10	A lowly populated, transient β -sheet structure in monomeric A β 1-42 identified by multinuclear NMR of chemical denaturation. <i>Biophysical Chemistry</i> , 2021, 270, 106531.	2.8	21
11	Four-dimensional NOE-NOE spectroscopy of SARS-CoV-2 Main Protease to facilitate resonance assignment and structural analysis. <i>Magnetic Resonance</i> , 2021, 2, 129-138.	1.9	3
12	Large-Scale Recombinant Production of the SARS-CoV-2 Proteome for High-Throughput and Structural Biology Applications. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 653148.	3.5	29
13	Breathing, speaking, coughing or sneezing: What drives transmission of SARS-CoV-2?. <i>Journal of Internal Medicine</i> , 2021, 290, 1010-1027.	6.0	97
14	Inhaled Water and Salt Suppress Respiratory Droplet Generation and COVID-19 Incidence and Death on US Coastlines. <i>Molecular Frontiers Journal</i> , 2021, 05, 17-29.	1.1	12
15	Self-infection with speech aerosol may contribute to COVID-19 severity. <i>Journal of Internal Medicine</i> , 2021, 290, 1275-1277.	6.0	6
16	Transient lipid-bound states of spike protein heptad repeats provide insights into SARS-CoV-2 membrane fusion. <i>Science Advances</i> , 2021, 7, eabk2226.	10.3	28
17	NMR characterization of H ₂ O ₂ hydrogen exchange. <i>Journal of Magnetic Resonance</i> , 2021, 333, 107092.	2.1	9
18	Concordance of X-ray and AlphaFold2 Models of SARS-CoV-2 Main Protease with Residual Dipolar Couplings Measured in Solution. <i>Journal of the American Chemical Society</i> , 2021, 143, 19306-19310.	13.7	40

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19	NUScon: a community-driven platform for quantitative evaluation of nonuniform sampling in NMR. <i>Magnetic Resonance</i> , 2021, 2, 843-861.	1.9	7
20	The airborne lifetime of small speech droplets and their potential importance in SARS-CoV-2 transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11875-11877.	7.1	852
21	Conditional Disorder in Small Heat-shock Proteins. <i>Journal of Molecular Biology</i> , 2020, 432, 3033-3049.	4.2	21
22	Protein structural changes characterized by high-pressure, pulsed field gradient diffusion NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2020, 312, 106701.	2.1	8
23	Modulating the Stiffness of the Myosin VI Single α -Helical Domain. <i>Biophysical Journal</i> , 2020, 118, 1119-1128.	0.5	2
24	Visualizing Speech-Generated Oral Fluid Droplets with Laser Light Scattering. <i>New England Journal of Medicine</i> , 2020, 382, 2061-2063.	27.0	355
25	Importance of time-ordered non-uniform sampling of multi-dimensional NMR spectra of A β 1-42 peptide under aggregating conditions. <i>Journal of Biomolecular NMR</i> , 2019, 73, 429-441.	2.8	15
26	Observation of β -Amyloid Peptide Oligomerization by Pressure-Jump NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 13762-13766.	13.7	36
27	Protein NMR: Boundless opportunities. <i>Journal of Magnetic Resonance</i> , 2019, 306, 187-191.	2.1	33
28	Observation and Kinetic Characterization of Transient Schiff Base Intermediates by CEST NMR Spectroscopy. <i>Angewandte Chemie</i> , 2019, 131, 15453-15456.	2.0	2
29	Observation and Kinetic Characterization of Transient Schiff Base Intermediates by CEST NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15309-15312.	13.8	18
30	Remarkable Rigidity of the Single α -Helical Domain of Myosin-VI As Revealed by NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 9004-9017.	13.7	42
31	Local unfolding of the HSP27 monomer regulates chaperone activity. <i>Nature Communications</i> , 2019, 10, 1068.	12.8	93
32	Study of protein folding under native conditions by rapidly switching the hydrostatic pressure inside an NMR sample cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4169-E4178.	7.1	69
33	Isoindole Linkages Provide a Pathway for DOPAL-Mediated Cross-Linking of α -Synuclein. <i>Biochemistry</i> , 2018, 57, 1462-1474.	2.5	21
34	Tilted, Uninterrupted, Monomeric HIV-1 gp41 Transmembrane Helix from Residual Dipolar Couplings. <i>Journal of the American Chemical Society</i> , 2018, 140, 34-37.	13.7	39
35	Propensity for <i>cis</i> -Proline Formation in Unfolded Proteins. <i>ChemBioChem</i> , 2018, 19, 37-42.	2.6	51
36	Prediction of nearest neighbor effects on backbone torsion angles and NMR scalar coupling constants in disordered proteins. <i>Protein Science</i> , 2018, 27, 146-158.	7.6	24

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37	Interrupted Pressure-Jump NMR Experiments Reveal Resonances of On-Pathway Protein Folding Intermediate. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11792-11799.	2.6	10
38	Accurate Measurement of Residual Dipolar Couplings in Large RNAs by Variable Flip Angle NMR. <i>Journal of the American Chemical Society</i> , 2018, 140, 6978-6983.	13.7	16
39	The Role of Molecular Flexibility in Antigen Presentation and T Cell Receptor-Mediated Signaling. <i>Frontiers in Immunology</i> , 2018, 9, 1657.	4.8	51
40	Monitoring ¹⁵ N Chemical Shifts During Protein Folding by Pressure-Jump NMR. <i>Journal of the American Chemical Society</i> , 2018, 140, 8096-8099.	13.7	20
41	A natural product inhibits the initiation of α -synuclein aggregation and suppresses its toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1009-E1017.	7.1	231
42	Superoxide is the critical driver of DOPAL autoxidation, lysyl adduct formation, and crosslinking of α -synuclein. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 281-286.	2.1	19
43	An allosteric site in the T-cell receptor C α 2 domain plays a critical signalling role. <i>Nature Communications</i> , 2017, 8, 15260.	12.8	64
44	Monitoring Hydrogen Exchange During Protein Folding by Fast Pressure Jump NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 11036-11039.	13.7	29
45	Sparse multidimensional iterative lineshape-enhanced (SMILE) reconstruction of both non-uniformly sampled and conventional NMR data. <i>Journal of Biomolecular NMR</i> , 2017, 68, 101-118.	2.8	238
46	Toxic Dopamine Metabolite DOPAL Forms an Unexpected Dicatechol Pyrrole Adduct with Lysines of α -Synuclein. <i>Angewandte Chemie</i> , 2016, 128, 7500-7504.	2.0	9
47	ARTSY-J: Convenient and precise measurement of ³ J _{HNH} couplings in medium-size proteins from TROSY-HSQC spectra. <i>Journal of Magnetic Resonance</i> , 2016, 268, 73-81.	2.1	8
48	Global Dynamics and Exchange Kinetics of a Protein on the Surface of Nanoparticles Revealed by Relaxation-Based Solution NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 5789-5792.	13.7	59
49	Nuclear Magnetic Resonance Observation of α -Synuclein Membrane Interaction by Monitoring the Acetylation Reactivity of Its Lysine Side Chains. <i>Biochemistry</i> , 2016, 55, 4949-4959.	2.5	17
50	Toxic Dopamine Metabolite DOPAL Forms an Unexpected Dicatechol Pyrrole Adduct with Lysines of α -Synuclein. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7374-7378.	13.8	47
51	Disorder in the court. <i>Nature</i> , 2016, 530, 38-39.	27.8	12
52	Accurate measurement of ³ J _{HNH} couplings in small or disordered proteins from WATERGATE-optimized TROSY spectra. <i>Journal of Biomolecular NMR</i> , 2016, 64, 1-7.	2.8	11
53	Observation of α -Helical Hydrogen-Bond Cooperativity in an Intact Protein. <i>Journal of the American Chemical Society</i> , 2016, 138, 1824-1827.	13.7	24
54	Monomeric α ¹⁴⁰ and α ¹⁴² Peptides in Solution Adopt Very Similar Ramachandran Map Distributions That Closely Resemble Random Coil. <i>Biochemistry</i> , 2016, 55, 762-775.	2.5	168

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55	Quantitative evaluation of positive γ angle propensity in flexible regions of proteins from three-bond J couplings. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5759-5770.	2.8	4
56	Insights into the Conformation of the Membrane Proximal Regions Critical to the Trimerization of the HIV-1 gp41 Ectodomain Bound to Dodecyl Phosphocholine Micelles. <i>PLoS ONE</i> , 2016, 11, e0160597.	2.5	13
57	Pressure-induced structural transition of mature HIV-1 protease from a combined NMR/MD simulation approach. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 2117-2123.	2.6	21
58	Homology modeling of larger proteins guided by chemical shifts. <i>Nature Methods</i> , 2015, 12, 747-750.	19.0	51
59	Quantitative Residue-Specific Protein Backbone Torsion Angle Dynamics from Concerted Measurement of $^3J_{CH}$ Couplings. <i>Journal of the American Chemical Society</i> , 2015, 137, 1432-1435.	13.7	28
60	MERA: a webserver for evaluating backbone torsion angle distributions in dynamic and disordered proteins from NMR data. <i>Journal of Biomolecular NMR</i> , 2015, 63, 85-95.	2.8	40
61	Side Chain Conformational Distributions of a Small Protein Derived from Model-Free Analysis of a Large Set of Residual Dipolar Couplings. <i>Journal of the American Chemical Society</i> , 2015, 137, 14798-14811.	13.7	25
62	A Novel MHC-I Surface Targeted for Binding by the MCMV m06 Immuno-evasin Revealed by Solution NMR. <i>Journal of Biological Chemistry</i> , 2015, 290, 28857-28868.	3.4	12
63	High Accuracy of Karplus Equations for Relating Three-Bond J Couplings to Protein Backbone Torsion Angles. <i>ChemPhysChem</i> , 2015, 16, 572-578.	2.1	30
64	Conformation of Inhibitor-Free HIV-1 Protease Derived from NMR Spectroscopy in a Weakly Oriented Solution. <i>ChemBioChem</i> , 2015, 16, 214-218.	2.6	25
65	Homonuclear decoupling for enhancing resolution and sensitivity in NOE and RDC measurements of peptides and proteins. <i>Journal of Magnetic Resonance</i> , 2014, 241, 97-102.	2.1	105
66	Dissociation of the trimeric gp41 ectodomain at the lipid-water interface suggests an active role in HIV-1 Env-mediated membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3425-3430.	7.1	41
67	A maximum entropy approach to the study of residue-specific backbone angle distributions in λ -synuclein, an intrinsically disordered protein. <i>Protein Science</i> , 2014, 23, 1275-1290.	7.6	73
68	Structural Basis of hAT Transposon End Recognition by Hermes, an Octameric DNA Transposase from <i>Musca domestica</i> . <i>Cell</i> , 2014, 158, 353-367.	28.9	63
69	The Structure of Mouse Cytomegalovirus m04 Protein Obtained from Sparse NMR Data Reveals a Conserved Fold of the m02-m06 Viral Immune Modulator Family. <i>Structure</i> , 2014, 22, 1263-1273.	3.3	23
70	Improved Cross Validation of a Static Ubiquitin Structure Derived from High Precision Residual Dipolar Couplings Measured in a Drug-Based Liquid Crystalline Phase. <i>Journal of the American Chemical Society</i> , 2014, 136, 3752-3755.	13.7	69
71	Protein backbone and sidechain torsion angles predicted from NMR chemical shifts using artificial neural networks. <i>Journal of Biomolecular NMR</i> , 2013, 56, 227-241.	2.8	939
72	Modulating alignment of membrane proteins in liquid-crystalline and oriented gel media by changing the size and charge of phospholipid bicelles. <i>Journal of Biomolecular NMR</i> , 2013, 55, 369-377.	2.8	13

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73	Impact of Hydrostatic Pressure on an Intrinsically Disordered Protein: A High-Pressure NMR Study of α -Synuclein. <i>ChemBioChem</i> , 2013, 14, 1754-1761.	2.6	41
74	Site-Specific Interaction between α -Synuclein and Membranes Probed by NMR-Observed Methionine Oxidation Rates. <i>Journal of the American Chemical Society</i> , 2013, 135, 2943-2946.	13.7	71
75	Measurement of ^{15}N relaxation rates in perdeuterated proteins by TROSY-based methods. <i>Journal of Biomolecular NMR</i> , 2012, 53, 209-221.	2.8	172
76	Deuterium isotope shifts for backbone ^1H , ^{15}N and ^{13}C nuclei in intrinsically disordered protein α -synuclein. <i>Journal of Biomolecular NMR</i> , 2012, 54, 181-191.	2.8	37
77	Impact of N-Terminal Acetylation of α -Synuclein on Its Random Coil and Lipid Binding Properties. <i>Biochemistry</i> , 2012, 51, 5004-5013.	2.5	186
78	pH-triggered, activated-state conformations of the influenza hemagglutinin fusion peptide revealed by NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19994-19999.	7.1	71
79	Whole-Body Rocking Motion of a Fusion Peptide in Lipid Bilayers from Size-Dispersed ^{15}N NMR Relaxation. <i>Journal of the American Chemical Society</i> , 2011, 133, 14184-14187.	13.7	29
80	Triple resonance three-dimensional protein NMR: Before it became a black box. <i>Journal of Magnetic Resonance</i> , 2011, 213, 442-445.	2.1	17
81	Measurement of ^1H - ^{15}N and ^1H - ^{13}C residual dipolar couplings in nucleic acids from TROSY intensities. <i>Journal of Biomolecular NMR</i> , 2011, 51, 89-103.	2.8	22
82	Measuring rapid hydrogen exchange in the homodimeric 36 kDa HIV-1 integrase catalytic core domain. <i>Protein Science</i> , 2011, 20, 500-512.	7.6	34
83	Structural Discrimination in Small Molecules by Accurate Measurement of Long-Range Proton-Carbon NMR Residual Dipolar Couplings. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7576-7580.	13.8	65
84	Major groove width variations in RNA structures determined by NMR and impact of ^{13}C residual chemical shift anisotropy and ^1H - ^{13}C residual dipolar coupling on refinement. <i>Journal of Biomolecular NMR</i> , 2010, 47, 205-219.	2.8	77
85	SPARTA+: a modest improvement in empirical NMR chemical shift prediction by means of an artificial neural network. <i>Journal of Biomolecular NMR</i> , 2010, 48, 13-22.	2.8	468
86	Facile measurement of ^1H - ^{15}N residual dipolar couplings in larger perdeuterated proteins. <i>Journal of Biomolecular NMR</i> , 2010, 48, 65-70.	2.8	92
87	The complete influenza hemagglutinin fusion domain adopts a tight helical hairpin arrangement at the lipid:water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11341-11346.	7.1	142
88	Improved accuracy of ^{15}N - ^1H scalar and residual dipolar couplings from gradient-enhanced IPAP-HSQC experiments on protonated proteins. <i>Journal of Biomolecular NMR</i> , 2009, 43, 161-170.	2.8	73
89	Protein backbone motions viewed by intraresidue and sequential ^1H - ^1H residual dipolar couplings. <i>Journal of Biomolecular NMR</i> , 2008, 41, 17-28.	2.8	27
90	Liquid Crystalline Phase of G-Tetrad DNA for NMR Study of Detergent-Solubilized Proteins. <i>Journal of the American Chemical Society</i> , 2008, 130, 7536-7537.	13.7	59

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91	Simultaneous NMR Study of Protein Structure and Dynamics Using Conservative Mutagenesis. Journal of Physical Chemistry B, 2008, 112, 6045-6056.	2.6	87
92	Limits on Variations in Protein Backbone Dynamics from Precise Measurements of Scalar Couplings. Journal of the American Chemical Society, 2007, 129, 9377-9385.	13.7	127
93	Mixed-time parallel evolution in multiple quantum NMR experiments: sensitivity and resolution enhancement in heteronuclear NMR. Journal of Biomolecular NMR, 2007, 37, 195-204.	2.8	22
94	Magnetic field induced residual dipolar couplings of imino groups in nucleic acids from measurements at a single magnetic field. Journal of Biomolecular NMR, 2007, 39, 91-96.	2.8	18
95	Weak alignment NMR: a hawk-eyed view of biomolecular structure. Current Opinion in Structural Biology, 2005, 15, 563-570.	5.7	246
96	Measurement of eight scalar and dipolar couplings for methine-methylene pairs in proteins and nucleic acids. Journal of Biomolecular NMR, 2005, 31, 201-216.	2.8	32
97	Characterization of Phospholipid Mixed Micelles by Translational Diffusion. Journal of Biomolecular NMR, 2004, 29, 299-308.	2.8	127
98	Quantitative J correlation methods for the accurate measurement of ^{13}C - ^{13}C dipolar couplings in proteins. Journal of Biomolecular NMR, 2004, 30, 181-194.	2.8	27
99	An Empirical Backbone Hydrogen-Bonding Potential in Proteins and Its Applications to NMR Structure Refinement and Validation. Journal of the American Chemical Society, 2004, 126, 7281-7292.	13.7	115
100	Prediction of Charge-Induced Molecular Alignment of Biomolecules Dissolved in Dilute Liquid-Crystalline Phases. Biophysical Journal, 2004, 86, 3444-3460.	0.5	111
101	Weak alignment offers new NMR opportunities to study protein structure and dynamics. Protein Science, 2003, 12, 1-16.	7.6	396
102	Evaluation of Backbone Proton Positions and Dynamics in a Small Protein by Liquid Crystal NMR Spectroscopy. Journal of the American Chemical Society, 2003, 125, 9179-9191.	13.7	278
103	^1H - ^1H Dipolar Couplings Provide a Unique Probe of RNA Backbone Structure. Journal of the American Chemical Society, 2003, 125, 15740-15741.	13.7	21
104	Evaluation of uncertainty in alignment tensors obtained from dipolar couplings. Journal of Biomolecular NMR, 2002, 23, 127-137.	2.8	128
105	Morphology of Three Lyotropic Liquid Crystalline Biological NMR Media Studied by Translational Diffusion Anisotropy. Journal of the American Chemical Society, 2001, 123, 12343-12352.	13.7	139
106	Dipolar Couplings in Macromolecular Structure Determination. Methods in Enzymology, 2001, 339, 127-174.	1.0	388
107	Single-Step Determination of Protein Substructures Using Dipolar Couplings: A Aid to Structural Genomics. Journal of the American Chemical Society, 2001, 123, 9490-9491.	13.7	68
108	Protein Side-Chain Rotamers from Dipolar Couplings in a Liquid Crystalline Phase. Journal of the American Chemical Society, 2001, 123, 3844-3845.	13.7	41

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109	Characterization of molecular alignment in aqueous suspensions of Pf1 bacteriophage. , 2001, 20, 365-377.		109
110	Multiplet component separation for measurement of methyl ¹³ C- ¹ H dipolar couplings in weakly aligned proteins. , 2001, 20, 77-82.		44
111	A simple apparatus for generating stretched polyacrylamide gels, yielding uniform alignment of proteins and detergent micelles. Journal of Biomolecular NMR, 2001, 21, 377-382.	2.8	223
112	Solution structure of Ca(2+)-calmodulin reveals flexible hand-like properties of its domains. Nature Structural Biology, 2001, 8, 990-997.	9.7	305
113	Evaluation of Cross-Correlation Effects and Measurement of One-Bond Couplings in Proteins with Short Transverse Relaxation Times. Journal of Magnetic Resonance, 2000, 143, 184-196.	2.1	142
114	Measurement of one-bond ¹⁵ N- ¹³ C' dipolar couplings in medium sized proteins. Journal of Biomolecular NMR, 2000, 18, 101-105.	2.8	56
115	Measurement of dipolar couplings in a transducin peptide fragment weakly bound to oriented photo-activated rhodopsin. Journal of Biomolecular NMR, 2000, 16, 121-125.	2.8	52
116	Solution structure of DinI provides insight into its mode of RecA inactivation. Protein Science, 2000, 9, 2161-2169.	7.6	72
117	Study of conformational rearrangement and refinement of structural homology models by the use of heteronuclear dipolar couplings. Journal of Biomolecular NMR, 2000, 18, 217-227.	2.8	92
118	Prediction of Sterically Induced Alignment in a Dilute Liquid Crystalline Phase: A Aid to Protein Structure Determination by NMR. Journal of the American Chemical Society, 2000, 122, 3791-3792.	13.7	680
119	Protein Structure Determination Using Molecular Fragment Replacement and NMR Dipolar Couplings. Journal of the American Chemical Society, 2000, 122, 2142-2143.	13.7	250
120	Measurement of ³ hJNC' connectivities across hydrogen bonds in a 30 kDa protein. Journal of Biomolecular NMR, 1999, 14, 181-184.	2.8	93
121	Protein backbone angle restraints from searching a database for chemical shift and sequence homology. Journal of Biomolecular NMR, 1999, 13, 289-302.	2.8	2,825
122	Bicelle-based liquid crystals for NMR-measurement of dipolar couplings at acidic and basic pH values. , 1999, 13, 187-191.		167
123	How Tetrahedral Are Methyl Groups in Proteins? A Liquid Crystal NMR Study. Journal of the American Chemical Society, 1999, 121, 4690-4695.	13.7	60
124	NMR Measurement of Dipolar Couplings in Proteins Aligned by Transient Binding to Purple Membrane Fragments. Journal of the American Chemical Society, 1999, 121, 1385-1386.	13.7	121
125	Recommendations for the presentation of NMR structures of proteins and nucleic acids. IUPAC-IUBMB-IUPAB Inter-Union Task Group on the Standardization of Data Bases of Protein and Nucleic Acid Structures Determined by NMR Spectroscopy. Journal of Biomolecular NMR, 1998, 12, 1-23.	2.8	347
126	Characterization of magnetically oriented phospholipid micelles for measurement of dipolar couplings in macromolecules. , 1998, 12, 361-372.		254

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127	Solution structure of cyanovirin-N, a potent HIV-inactivating protein. <i>Nature Structural Biology</i> , 1998, 5, 571-578.	9.7	249
128	Recommendations for the presentation of NMR structures of proteins and nucleic acids. IUPAC-IUBMB-IUPAB inter-union task group on the standardization of data bases of protein and nucleic acid structures determined by NMR spectroscopy. <i>FEBS Journal</i> , 1998, 256, 1-15.	0.2	137
129	Measurement of and Dipolar Couplings from Simplified Two-Dimensional NMR Spectra. <i>Journal of Magnetic Resonance</i> , 1998, 131, 373-378.	2.1	931
130	A Robust Method for Determining the Magnitude of the Fully Asymmetric Alignment Tensor of Oriented Macromolecules in the Absence of Structural Information. <i>Journal of Magnetic Resonance</i> , 1998, 133, 216-221.	2.1	368
131	Measurement of three-bond, $^{13}\text{C}'\text{-}^{13}\text{C}$ beta J couplings in human ubiquitin by a triple resonance, E. COSY-type NMR technique. <i>Journal of Biomolecular NMR</i> , 1998, 11, 199-203.	2.8	12
132	Determination of Relative $\text{N}^{\alpha}\text{-HN}$, $\text{N}^{\alpha}\text{-C}^{\alpha}$, $\text{C}^{\alpha}\text{-}\alpha\text{-C}^{\alpha}$, and $\text{C}^{\alpha}\text{-H}^{\beta}$ Effective Bond Lengths in a Protein by NMR in a Dilute Liquid Crystalline Phase. <i>Journal of the American Chemical Society</i> , 1998, 120, 12334-12341.	13.7	244
133	Modulation of the Alignment Tensor of Macromolecules Dissolved in a Dilute Liquid Crystalline Medium. <i>Journal of the American Chemical Society</i> , 1998, 120, 9106-9107.	13.7	151
134	Simultaneous Measurement of $^1\text{H}\text{-}^{15}\text{N}$, $^1\text{H}\text{-}^{13}\text{C}$, and $^{15}\text{N}\text{-}^{13}\text{C}$ Dipolar Couplings in a Perdeuterated 30 kDa Protein Dissolved in a Dilute Liquid Crystalline Phase. <i>Journal of the American Chemical Society</i> , 1998, 120, 7385-7386.	13.7	70
135	Validation of Protein Structure from Anisotropic Carbonyl Chemical Shifts in a Dilute Liquid Crystalline Phase. <i>Journal of the American Chemical Society</i> , 1998, 120, 6836-6837.	13.7	880
136	Two-Dimensional NMR Methods for Determining χ^1 Angles of Aromatic Residues in Proteins from Three-Bond $\text{J}_{\text{C}^{\alpha}\text{-C}^{\beta}}$ and $\text{J}_{\text{N}^{\alpha}\text{-C}^{\beta}}$ Couplings. <i>Journal of the American Chemical Society</i> , 1997, 119, 1803-1804.	13.7	102
137	An Empirical Correlation between Amide Deuterium Isotope Effects on ^{13}C Chemical Shifts and Protein Backbone Conformation. <i>Journal of the American Chemical Society</i> , 1997, 119, 8070-8075.	13.7	54
138	Are proteins even floppier than we thought?. <i>Nature Structural Biology</i> , 1997, 4, 254-256.	9.7	43
139	Defining long range order in NMR structure determination from the dependence of heteronuclear relaxation times on rotational diffusion anisotropy. <i>Nature Structural Biology</i> , 1997, 4, 443-449.	9.7	174
140	Use of dipolar $^1\text{H}\text{-}^{15}\text{N}$ and $^1\text{H}\text{-}^{13}\text{C}$ couplings in the structure determination of magnetically oriented macromolecules in solution. <i>Nature Structural Biology</i> , 1997, 4, 732-738.	9.7	456
141	Direct Measurement of Distances and Angles in Biomolecules by NMR in a Dilute Liquid Crystalline Medium. <i>Science</i> , 1997, 278, 1111-1114.	12.6	1,705
142	High-resolution heteronuclear NMR of human ubiquitin in an aqueous liquid crystalline medium. <i>Journal of Biomolecular NMR</i> , 1997, 10, 289-292.	2.8	176
143	A three-dimensional NMR experiment with improved sensitivity for carbonyl-carbonyl J correlation in proteins. <i>Journal of Biomolecular NMR</i> , 1997, 9, 207-211.	2.8	30
144	Chi 1 angle information from a simple two-dimensional NMR experiment that identifies trans $^3\text{J}_{\text{NC}}$ gamma couplings in isotopically enriched proteins. <i>Journal of Biomolecular NMR</i> , 1997, 9, 323-328.	2.8	60

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145	Refined solution structure and backbone dynamics of HIV-1 Nef. <i>Protein Science</i> , 1997, 6, 1248-1263.	7.6	146
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