Ad Bax

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7089750/publications.pdf

Version: 2024-02-01

190 papers	49,745 citations	7672 79 h-index	3417 189 g-index
212 all docs	212 docs citations	212 times ranked	30810 citing authors

#	Article	IF	Citations
1	Advances in NMR Spectroscopy of Weakly Aligned Biomolecular Systems. Chemical Reviews, 2022, 122, 9307-9330.	23.0	27
2	Quantitative detection of hydrogen peroxide in rain, air, exhaled breath, and biological fluids by NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	27
3	Simultaneous Quantification of H₂O₂ and Organic Hydroperoxides by ¹H NMR Spectroscopy. Analytical Chemistry, 2022, 94, 5729-5733.	3.2	6
4	Real-time Exchange of the Lipid-bound Intermediate and Post-fusion States of the HIV-1 gp41 Ectodomain. Journal of Molecular Biology, 2022, 434, 167683.	2.0	2
5	Hybrid measurement of respiratory aerosol reveals a dominant coarse fraction resulting from speech that remains airborne for minutes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	17
6	Concentrationâ€Dependent Structural Transition of the HIVâ€1 gp41 MPER Peptide into Îąâ€Helical Trimers. Angewandte Chemie, 2021, 133, 168-172.	1.6	0
7	SARS-CoV-2 transmission via speech-generated respiratory droplets. Lancet Infectious Diseases, The, 2021, 21, 318.	4.6	13
8	Concentrationâ€Dependent Structural Transition of the HIVâ€1 gp41 MPER Peptide into Îąâ€Helical Trimers. Angewandte Chemie - International Edition, 2021, 60, 166-170.	7.2	5
9	Hydrating the respiratory tract: An alternative explanation why masks lower severity of COVID-19. Biophysical Journal, 2021, 120, 994-1000.	0.2	45
10	A lowly populated, transient Îą-sheet structure in monomeric AÎ²1-42 identified by multinuclear NMR of chemical denaturation. Biophysical Chemistry, 2021, 270, 106531.	1.5	21
11	Four-dimensional NOE-NOE spectroscopy of SARS-CoV-2 Main Protease to facilitate resonance assignment and structural analysis. Magnetic Resonance, 2021, 2, 129-138.	0.8	3
12	Large-Scale Recombinant Production of the SARS-CoV-2 Proteome for High-Throughput and Structural Biology Applications. Frontiers in Molecular Biosciences, 2021, 8, 653148.	1.6	29
13	Breathing, speaking, coughing or sneezing: What drives transmission of SARSâ€CoVâ€2?. Journal of Internal Medicine, 2021, 290, 1010-1027.	2.7	97
14	Inhaled Water and Salt Suppress Respiratory Droplet Generation and COVID-19 Incidence and Death on US Coastlines. Molecular Frontiers Journal, 2021, 05, 17-29.	0.9	12
15	Selfâ€infection with speech aerosol may contribute to COVIDâ€19 severity. Journal of Internal Medicine, 2021, 290, 1275-1277.	2.7	6
16	Transient lipid-bound states of spike protein heptad repeats provide insights into SARS-CoV-2 membrane fusion. Science Advances, 2021, 7, eabk2226.	4.7	28
17	NMR characterization of H2O2 hydrogen exchange. Journal of Magnetic Resonance, 2021, 333, 107092.	1.2	9
18	Concordance of X-ray and AlphaFold2 Models of SARS-CoV-2 Main Protease with Residual Dipolar Couplings Measured in Solution. Journal of the American Chemical Society, 2021, 143, 19306-19310.	6.6	40

#	Article	IF	Citations
19	NUScon: a community-driven platform for quantitative evaluation of nonuniform sampling in NMR. Magnetic Resonance, 2021, 2, 843-861.	0.8	7
20	The airborne lifetime of small speech droplets and their potential importance in SARS-CoV-2 transmission. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11875-11877.	3.3	852
21	Conditional Disorder in Small Heat-shock Proteins. Journal of Molecular Biology, 2020, 432, 3033-3049.	2.0	21
22	Protein structural changes characterized by high-pressure, pulsed field gradient diffusion NMR spectroscopy. Journal of Magnetic Resonance, 2020, 312, 106701.	1.2	8
23	Modulating the Stiffness of the Myosin VI Single Î±-Helical Domain. Biophysical Journal, 2020, 118, 1119-1128.	0.2	2
24	Visualizing Speech-Generated Oral Fluid Droplets with Laser Light Scattering. New England Journal of Medicine, 2020, 382, 2061-2063.	13.9	355
25	Importance of time-ordered non-uniform sampling of multi-dimensional NMR spectra of AÎ²1â€“42 peptide under aggregating conditions. Journal of Biomolecular NMR, 2019, 73, 429-441.	1.6	15
26	Observation of Î²-Amyloid Peptide Oligomerization by Pressure-Jump NMR Spectroscopy. Journal of the American Chemical Society, 2019, 141, 13762-13766.	6.6	36
27	Protein NMR: Boundless opportunities. Journal of Magnetic Resonance, 2019, 306, 187-191.	1.2	33
28	Observation and Kinetic Characterization of Transient Schiff Base Intermediates by CEST NMR Spectroscopy. Angewandte Chemie, 2019, 131, 15453-15456.	1.6	2
29	Observation and Kinetic Characterization of Transient Schiff Base Intermediates by CEST NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 15309-15312.	7.2	18
30	Remarkable Rigidity of the Single Î±-Helical Domain of Myosin-VI As Revealed by NMR Spectroscopy. Journal of the American Chemical Society, 2019, 141, 9004-9017.	6.6	42
31	Local unfolding of the HSP27 monomer regulates chaperone activity. Nature Communications, 2019, 10, 1068.	5.8	93
32	Study of protein folding under native conditions by rapidly switching the hydrostatic pressure inside an NMR sample cell. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4169-E4178.	3.3	69
33	Isoindole Linkages Provide a Pathway for DOPAL-Mediated Cross-Linking of Î±-Synuclein. Biochemistry, 2018, 57, 1462-1474.	1.2	21
34	Tilted, Uninterrupted, Monomeric HIV-1 gp41 Transmembrane Helix from Residual Dipolar Couplings. Journal of the American Chemical Society, 2018, 140, 34-37.	6.6	39
35	Propensity for cisâ€Proline Formation in Unfolded Proteins. ChemBioChem, 2018, 19, 37-42.	1.3	51
36	Prediction of nearest neighbor effects on backbone torsion angles and NMR scalar coupling constants in disordered proteins. Protein Science, 2018, 27, 146-158.	3.1	24

#	Article	IF	Citations
37	Interrupted Pressure-Jump NMR Experiments Reveal Resonances of On-Pathway Protein Folding Intermediate. Journal of Physical Chemistry B, 2018, 122, 11792-11799.	1.2	10
38	Accurate Measurement of Residual Dipolar Couplings in Large RNAs by Variable Flip Angle NMR. Journal of the American Chemical Society, 2018, 140, 6978-6983.	6.6	16
39	The Role of Molecular Flexibility in Antigen Presentation and T Cell Receptor-Mediated Signaling. Frontiers in Immunology, 2018, 9, 1657.	2.2	51
40	Monitoring ¹⁵N Chemical Shifts During Protein Folding by Pressure-Jump NMR. Journal of the American Chemical Society, 2018, 140, 8096-8099.	6.6	20
41	A natural product inhibits the initiation of Î±-synuclein aggregation and suppresses its toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1009-E1017.	3.3	231
42	Superoxide is the critical driver of DOPAL autoxidation, lysyl adduct formation, and crosslinking of Î±-synuclein. Biochemical and Biophysical Research Communications, 2017, 487, 281-286.	1.0	19
43	An allosteric site in the T-cell receptor CÎ² domain plays a critical signalling role. Nature Communications, 2017, 8, 15260.	5.8	64
44	Monitoring Hydrogen Exchange During Protein Folding by Fast Pressure Jump NMR Spectroscopy. Journal of the American Chemical Society, 2017, 139, 11036-11039.	6.6	29
45	Sparse multidimensional iterative lineshape-enhanced (SMILE) reconstruction of both non-uniformly sampled and conventional NMR data. Journal of Biomolecular NMR, 2017, 68, 101-118.	1.6	238
46	Toxic Dopamine Metabolite DOPAL Forms an Unexpected Dicatechol Pyrrole Adduct with Lysines of Î±â€Synuclein. Angewandte Chemie, 2016, 128, 7500-7504.	1.6	9
47	ARTSY-J: Convenient and precise measurement of 3JHNHÎ± couplings in medium-size proteins from TROSY-HSQC spectra. Journal of Magnetic Resonance, 2016, 268, 73-81.	1.2	8
48	Global Dynamics and Exchange Kinetics of a Protein on the Surface of Nanoparticles Revealed by Relaxation-Based Solution NMR Spectroscopy. Journal of the American Chemical Society, 2016, 138, 5789-5792.	6.6	59
49	Nuclear Magnetic Resonance Observation of Î±-Synuclein Membrane Interaction by Monitoring the Acetylation Reactivity of Its Lysine Side Chains. Biochemistry, 2016, 55, 4949-4959.	1.2	17
50	Toxic Dopamine Metabolite DOPAL Forms an Unexpected Dicatechol Pyrrole Adduct with Lysines of Î±â€Synuclein. Angewandte Chemie - International Edition, 2016, 55, 7374-7378.	7.2	47
51	Disorder in the court. Nature, 2016, 530, 38-39.	13.7	12
52	Accurate measurement of 3JHNHÎ± couplings in small or disordered proteins from WATERGATE-optimized TROSY spectra. Journal of Biomolecular NMR, 2016, 64, 1-7.	1.6	11
53	Observation of Î±-Helical Hydrogen-Bond Cooperativity in an Intact Protein. Journal of the American Chemical Society, 2016, 138, 1824-1827.	6.6	24
54	Monomeric AÎ²^{1â€“40} and AÎ²^{1â€“42} Peptides in Solution Adopt Very Similar Ramachandran Map Distributions That Closely Resemble Random Coil. Biochemistry, 2016, 55, 762-775.	1.2	168

#	Article	IF	Citations
55	Quantitative evaluation of positive Ï• angle propensity in flexible regions of proteins from three-bond J couplings. Physical Chemistry Chemical Physics, 2016, 18, 5759-5770.	1.3	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. PLoS ONE, 2016, 11, e0160597.	1.1	13
57	Pressureâ€induced structural transition of mature <scp>HIV</scp>â€1 protease from a combined <scp>NMR/MD</scp> simulation approach. Proteins: Structure, Function and Bioinformatics, 2015, 83, 2117-2123.	1.5	21
58	Homology modeling of larger proteins guided by chemical shifts. Nature Methods, 2015, 12, 747-750.	9.0	51
59	Quantitative Residue-Specific Protein Backbone Torsion Angle Dynamics from Concerted Measurement of ³J Couplings. Journal of the American Chemical Society, 2015, 137, 1432-1435.	6.6	28
60	MERA: a webserver for evaluating backbone torsion angle distributions in dynamic and disordered proteins from NMR data. Journal of Biomolecular NMR, 2015, 63, 85-95.	1.6	40
61	Side Chain Conformational Distributions of a Small Protein Derived from Model-Free Analysis of a Large Set of Residual Dipolar Couplings. Journal of the American Chemical Society, 2015, 137, 14798-14811.	6.6	25
62	A Novel MHC-I Surface Targeted for Binding by the MCMV m06 Immunoevasin Revealed by Solution NMR. Journal of Biological Chemistry, 2015, 290, 28857-28868.	1.6	12
63	High Accuracy of Karplus Equations for Relating Threeâ€Bond J Couplings to Protein Backbone Torsion Angles. ChemPhysChem, 2015, 16, 572-578.	1.0	30
64	Conformation of Inhibitorâ€Free HIVâ€1 Protease Derived from NMR Spectroscopy in a Weakly Oriented Solution. ChemBioChem, 2015, 16, 214-218.	1.3	25
65	Homonuclear decoupling for enhancing resolution and sensitivity in NOE and RDC measurements of peptides and proteins. Journal of Magnetic Resonance, 2014, 241, 97-102.	1.2	105
66	Dissociation of the trimeric gp41 ectodomain at the lipidâ€“water interface suggests an active role in HIV-1 Env-mediated membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3425-3430.	3.3	41
67	A maximum entropy approach to the study of residueâ€specific backbone angle distributions in Î±â€synuclein, an intrinsically disordered protein. Protein Science, 2014, 23, 1275-1290.	3.1	73
68	Structural Basis of hAT Transposon End Recognition by Hermes, an Octameric DNA Transposase from Musca domestica. Cell, 2014, 158, 353-367.	13.5	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. Structure, 2014, 22, 1263-1273.	1.6	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. Journal of the American Chemical Society, 2014, 136, 3752-3755.	6.6	69
71	Protein backbone and sidechain torsion angles predicted from NMR chemical shifts using artificial neural networks. Journal of Biomolecular NMR, 2013, 56, 227-241.	1.6	939
72	Modulating alignment of membrane proteins in liquid-crystalline and oriented gel media by changing the size and charge of phospholipid bicelles. Journal of Biomolecular NMR, 2013, 55, 369-377.	1.6	13

#	Article	IF	Citations
73	Impact of Hydrostatic Pressure on an Intrinsically Disordered Protein: A Highâ€Pressure NMR Study of Î±â€Synuclein. ChemBioChem, 2013, 14, 1754-1761.	1.3	41
74	Site-Specific Interaction between Î±-Synuclein and Membranes Probed by NMR-Observed Methionine Oxidation Rates. Journal of the American Chemical Society, 2013, 135, 2943-2946.	6.6	71
75	Measurement of 15N relaxation rates in perdeuterated proteins by TROSY-based methods. Journal of Biomolecular NMR, 2012, 53, 209-221.	1.6	172
76	Deuterium isotope shifts for backbone 1H, 15N and 13C nuclei in intrinsically disordered protein Î±-synuclein. Journal of Biomolecular NMR, 2012, 54, 181-191.	1.6	37
77	Impact of N-Terminal Acetylation of Î±-Synuclein on Its Random Coil and Lipid Binding Properties. Biochemistry, 2012, 51, 5004-5013.	1.2	186
78	pH-triggered, activated-state conformations of the influenza hemagglutinin fusion peptide revealed by NMR. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19994-19999.	3.3	71
79	Whole-Body Rocking Motion of a Fusion Peptide in Lipid Bilayers from Size-Dispersed ¹⁵N NMR Relaxation. Journal of the American Chemical Society, 2011, 133, 14184-14187.	6.6	29
80	Triple resonance three-dimensional protein NMR: Before it became a black box. Journal of Magnetic Resonance, 2011, 213, 442-445.	1.2	17
81	Measurement of 1Hâ€“15N and 1Hâ€“13C residual dipolar couplings in nucleic acids from TROSY intensities. Journal of Biomolecular NMR, 2011, 51, 89-103.	1.6	22
82	Measuring rapid hydrogen exchange in the homodimeric 36 kDa HIVâ€1 integrase catalytic core domain. Protein Science, 2011, 20, 500-512.	3.1	34
83	Structural Discrimination in Small Molecules by Accurate Measurement of Longâ€Range Protonâ€“Carbon NMR Residual Dipolar Couplings. Angewandte Chemie - International Edition, 2011, 50, 7576-7580.	7.2	65
84	Major groove width variations in RNA structures determined by NMR and impact of 13C residual chemical shift anisotropy and 1Hâ€“13C residual dipolar coupling on refinement. Journal of Biomolecular NMR, 2010, 47, 205-219.	1.6	77
85	SPARTA+: a modest improvement in empirical NMR chemical shift prediction by means of an artificial neural network. Journal of Biomolecular NMR, 2010, 48, 13-22.	1.6	468
86	Facile measurement of 1Hâ€“15N residual dipolar couplings in larger perdeuterated proteins. Journal of Biomolecular NMR, 2010, 48, 65-70.	1.6	92
87	The complete influenza hemagglutinin fusion domain adopts a tight helical hairpin arrangement at the lipid:water interface. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11341-11346.	3.3	142
88	Improved accuracy of 15Nâ€“1H scalar and residual dipolar couplings from gradient-enhanced IPAP-HSQC experiments on protonated proteins. Journal of Biomolecular NMR, 2009, 43, 161-170.	1.6	73
89	Protein backbone motions viewed by intraresidue and sequential HNâ€“HÎ± residual dipolar couplings. Journal of Biomolecular NMR, 2008, 41, 17-28.	1.6	27
90	Liquid Crystalline Phase of G-Tetrad DNA for NMR Study of Detergent-Solubilized Proteins. Journal of the American Chemical Society, 2008, 130, 7536-7537.	6.6	59

#	Article	IF	Citations
91	Simultaneous NMR Study of Protein Structure and Dynamics Using Conservative Mutagenesis. Journal of Physical Chemistry B, 2008, 112, 6045-6056.	1.2	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.	6.6	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.	1.6	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.	1.6	18
95	Weak alignment NMR: a hawk-eyed view of biomolecular structure. Current Opinion in Structural Biology, 2005, 15, 563-570.	2.6	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.	1.6	32
97	Characterization of Phospholipid Mixed Micelles by Translational Diffusion. Journal of Biomolecular NMR, 2004, 29, 299-308.	1.6	127
98	Quantitative J correlation methods for the accurate measurement of13CÂ-13CÎ±dipolar couplings in proteins. Journal of Biomolecular NMR, 2004, 30, 181-194.	1.6	27
99	An Empirical Backboneâ^'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.	6.6	115
100	Prediction of Charge-Induced Molecular Alignment of Biomolecules Dissolved in Dilute Liquid-Crystalline Phases. Biophysical Journal, 2004, 86, 3444-3460.	0.2	111
101	Weak alignment offers new NMR opportunities to study protein structure and dynamics. Protein Science, 2003, 12, 1-16.	3.1	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.	6.6	278
103	1Hâ^'1H Dipolar Couplings Provide a Unique Probe of RNA Backbone Structure. Journal of the American Chemical Society, 2003, 125, 15740-15741.	6.6	21
104	Evaluation of uncertainty in alignment tensors obtained from dipolar couplings. Journal of Biomolecular NMR, 2002, 23, 127-137.	1.6	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.	6.6	139
106	Dipolar Couplings in Macromolecular Structure Determination. Methods in Enzymology, 2001, 339, 127-174.	0.4	388
107	Single-Step Determination of Protein Substructures Using Dipolar Couplings:Â Aid to Structural Genomics. Journal of the American Chemical Society, 2001, 123, 9490-9491.	6.6	68
108	Protein Side-Chain Rotamers from Dipolar Couplings in a Liquid Crystalline Phase. Journal of the American Chemical Society, 2001, 123, 3844-3845.	6.6	41

#	Article	IF	Citations
109	Characterization of molecular alignment in aqueous suspensions of Pf1 bacteriophage. , 2001, 20, 365-377.		109
110	Multiplet component separation for measurement of methyl 13C-1H 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.	1.6	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.	1.2	142
114	Measurement of one-bond 15N-13C' dipolar couplings in medium sized proteins. Journal of Biomolecular NMR, 2000, 18, 101-105.	1.6	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.	1.6	52
116	Solution structure of DinI provides insight into its mode of RecA inactivation. Protein Science, 2000, 9, 2161-2169.	3.1	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.	1.6	92
118	Prediction of Sterically Induced Alignment in a Dilute Liquid Crystalline Phase:Â Aid to Protein Structure Determination by NMR. Journal of the American Chemical Society, 2000, 122, 3791-3792.	6.6	680
119	Protein Structure Determination Using Molecular Fragment Replacement and NMR Dipolar Couplings. Journal of the American Chemical Society, 2000, 122, 2142-2143.	6.6	250
120	Measurement of 3hJNC' connectivities across hydrogen bonds in a 30 kDa protein. Journal of Biomolecular NMR, 1999, 14, 181-184.	1.6	93
121	Protein backbone angle restraints from searching a database for chemical shift and sequence homology. Journal of Biomolecular NMR, 1999, 13, 289-302.	1.6	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.	6.6	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.	6.6	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.	1.6	347
126	Characterization of magnetically oriented phospholipid micelles for measurement of dipolar couplings in macromolecules. , 1998, 12, 361-372.		254

#	Article	IF	Citations
127	Solution structure of cyanovirin-N, a potent HIV-inactivating protein. Nature Structural Biology, 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. FEBS Journal, 1998, 256, 1-15.	0.2	137
129	Measurement ofJand Dipolar Couplings from Simplified Two-Dimensional NMR Spectra. Journal of Magnetic Resonance, 1998, 131, 373-378.	1.2	931
130	A Robust Method for Determining the Magnitude of the Fully Asymmetric Alignment Tensor of Oriented Macromolecules in the Absence of Structural Information. Journal of Magnetic Resonance, 1998, 133, 216-221.	1.2	368
131	Measurement of three-bond, 13C'-13C beta J couplings in human ubiquitin by a triple resonance, E. COSY-type NMR technique. Journal of Biomolecular NMR, 1998, 11, 199-203.	1.6	12
132	Determination of Relative Nâ^'HN, Nâ^'Câ€˜, Cα±â^'Câ€˜, and Cα±â^'Hα± Effective Bond Lengths in a Protein by NMR in a Dilute Liquid Crystalline Phase. Journal of the American Chemical Society, 1998, 120, 12334-12341.	6.6	244
133	Modulation of the Alignment Tensor of Macromolecules Dissolved in a Dilute Liquid Crystalline Medium. Journal of the American Chemical Society, 1998, 120, 9106-9107.	6.6	151
134	Simultaneous Measurement of1Hâ^'15N,1Hâ^'13Câ€˜, and15Nâ^'13Câ€˜ Dipolar Couplings in a Perdeuterated 30 kDa Protein Dissolved in a Dilute Liquid Crystalline Phase. Journal of the American Chemical Society, 1998, 120, 7385-7386.	6.6	70
135	Validation of Protein Structure from Anisotropic Carbonyl Chemical Shifts in a Dilute Liquid Crystalline Phase. Journal of the American Chemical Society, 1998, 120, 6836-6837.	6.6	880
136	Two-Dimensional NMR Methods for Determining Ï‡1 Angles of Aromatic Residues in Proteins from Three-Bond JCâ€˜Cγ and JNCγ Couplings. Journal of the American Chemical Society, 1997, 119, 1803-1804.	6.6	102
137	An Empirical Correlation between Amide Deuterium Isotope Effects on 13Cα Chemical Shifts and Protein Backbone Conformation. Journal of the American Chemical Society, 1997, 119, 8070-8075.	6.6	54
138	Are proteins even floppier than we thought?. Nature Structural Biology, 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. Nature Structural Biology, 1997, 4, 443-449.	9.7	174
140	Use of dipolar 1Hâ€“15N and 1Hâ€“13C couplings in the structure determination of magnetically oriented macromolecules in solution. Nature Structural Biology, 1997, 4, 732-738.	9.7	456
141	Direct Measurement of Distances and Angles in Biomolecules by NMR in a Dilute Liquid Crystalline Medium. Science, 1997, 278, 1111-1114.	6.0	1,705
142	High-resolution heteronuclear NMR of human ubiquitin in an aqueous liquid crystalline medium. Journal of Biomolecular NMR, 1997, 10, 289-292.	1.6	176
143	A three-dimensional NMR experiment with improved sensitivity for carbonyl-carbonyl J correlation in proteins. Journal of Biomolecular NMR, 1997, 9, 207-211.	1.6	30
144	Chi 1 angle information from a simple two-dimensional NMR experiment that identifies trans 3JNC gamma couplings in isotopically enriched proteins. Journal of Biomolecular NMR, 1997, 9, 323-328.	1.6	60

#	Article	IF	Citations
145	Refined solution structure and backbone dynamics of HIVâ€1 Nef. Protein Science, 1997, 6, 1248-1263.	3.1	146
146	Measurement of Dipolar Contributions to1JCHSplittings from Magnetic-Field Dependence ofJModulation in Two-Dimensional NMR Spectra. Journal of Magnetic Resonance, 1997, 124, 512-515.	1.2	143
147	Magnetic Field Dependence of Nitrogenâ^'ProtonJSplittings in15N-Enriched Human Ubiquitin Resulting from Relaxation Interference and Residual Dipolar Coupling. Journal of the American Chemical Society, 1996, 118, 6264-6272.	6.6	318
148	Measurement of Three-Bond13Câ^'13CJCouplings between Carbonyl and Carbonyl/Carboxyl Carbons in Isotopically Enriched Proteins. Journal of the American Chemical Society, 1996, 118, 8170-8171.	6.6	66
149	Determination of the Backbone Dihedral Angles Ï† in Human Ubiquitin from Reparametrized Empirical Karplus Equations. Journal of the American Chemical Society, 1996, 118, 2483-2494.	6.6	231
150	Anisotropic rotational diffusion of perdeuterated HIV protease from 15N NMR relaxation measurements at two magnetic fields. Journal of Biomolecular NMR, 1996, 8, 273-284.	1.6	236
151	The solution structure of HIV-1 Nef reveals an unexpected fold and permits delineation of the binding surface for the SH3 domain of Hck tyrosine protein kinase. Nature Structural and Molecular Biology, 1996, 3, 340-345.	3.6	337
152	NMRPipe: A multidimensional spectral processing system based on UNIX pipes. Journal of Biomolecular NMR, 1995, 6, 277-93.	1.6	14,090
153	Flexibility and function in HIV-1 protease. Nature Structural and Molecular Biology, 1995, 2, 274-280.	3.6	231
154	Solution structure of calcium-free calmodulin. Nature Structural and Molecular Biology, 1995, 2, 768-776.	3.6	677
155	NMR identification of calcineurin B residues affected by binding of a calcineurin A peptide. FEBS Letters, 1995, 375, 108-112.	1.3	12
156	Rotational diffusion anisotropy of human ubiquitin from 15N NMR relaxation. Journal of the American Chemical Society, 1995, 117, 12562-12566.	6.6	678
157	Rotational Dynamics of Calciumâ€Free Calmodulin Studied by ¹⁵Nâ€NMR Relaxation Measurements. FEBS Journal, 1995, 230, 1014-1024.	0.2	8
158	[2] Measurement of homo- and heteronuclear J couplings from quantitative J correlation. Methods in Enzymology, 1994, 239, 79-105.	0.4	373
159	Measurement of HN-H? J couplings in calcium-free calmodulin using new 2D and 3D water-flip-back methods. Journal of Biomolecular NMR, 1994, 4, 871-878.	1.6	349
160	Solution structure of the DNA-binding domain of Drosophila heat shock transcription factor. Nature Structural and Molecular Biology, 1994, 1, 605-614.	3.6	115
161	Discrete Fourier Transformation of NMR Signals. The Relationship between Sampling Delay Time and Spectral Baseline. Journal of Magnetic Resonance Series A, 1993, 105, 219-222.	1.6	30
162	Measurement of amide proton exchange rates and NOEs with water in 13C/15N-enriched calcineurin B. Journal of Biomolecular NMR, 1993, 3, 627-38.	1.6	140

#	Article	IF	Citations
163	The use of 1JC?H? coupling constants as a probe for protein backbone conformation. Journal of Biomolecular NMR, 1993, 3, 67-80.	1.6	65
164	Isotope-edited multidimensional NMR of calcineurin B in the presence of the non-deuterated detergent CHAPS. Journal of Biomolecular NMR, 1993, 3, 121-6.	1.6	90
165	Quantitative J correlation: a new approach for measuring homonuclear three-bond J(HNH.alpha.) coupling constants in 15N-enriched proteins. Journal of the American Chemical Society, 1993, 115, 7772-7777.	6.6	1,074
166	Methodological advances in protein NMR. Accounts of Chemical Research, 1993, 26, 131-138.	7.6	838
167	Backbone dynamics of calmodulin studied by nitrogen-15 relaxation using inverse detected two-dimensional NMR spectroscopy: the central helix is flexible. Biochemistry, 1992, 31, 5269-5278.	1.2	969
168	Correlating backbone amide and side chain resonances in larger proteins by multiple relayed triple resonance NMR. Journal of the American Chemical Society, 1992, 114, 6291-6293.	6.6	963
169	Measurement of long-range 13C-13C J couplings in a 20-kDa protein-peptide complex. Journal of the American Chemical Society, 1992, 114, 6923-6925.	6.6	117
170	Quantitative measurement of small through-hydrogen-bond and â€˜through-spaceâ€™1H-113Cd and1H-199Hg J couplings in metal-substituted rubredoxin fromPyrococcus furiosus. Journal of Biomolecular NMR, 1992, 2, 527-533.	1.6	98
171	Optimized recording of heteronuclear multidimensional NMR spectra using pulsed field gradients. Journal of Magnetic Resonance, 1992, 99, 638-643.	0.5	88
172	Four-dimensional carbon-13/carbon-13-edited nuclear Overhauser enhancement spectroscopy of a protein in solution: application to interleukin 1.beta.. Biochemistry, 1991, 30, 12-18.	1.2	182
173	Multidimensional Triple Resonance NMR Spectroscopy of Isotopically Uniformly Enriched Proteins: A Powerful New Strategy for Structure Determination. Novartis Foundation Symposium, 1991, 161, 108-135.	1.2	22
174	Comparison of different modes of two-dimensional reverse-correlation NMR for the study of proteins. Journal of Magnetic Resonance, 1990, 86, 304-318.	0.5	191
175	Two-Dimensional NMR Study of Bleomycin and Its Zinc(II) Complex: Reassignment of13C Resonances. Journal of Biomolecular Structure and Dynamics, 1990, 8, 375-398.	2.0	12
176	Four-dimensional heteronuclear triple-resonance NMR spectroscopy of interleukin-1 beta in solution. Science, 1990, 249, 411-414.	6.0	322
177	A novel approach for sequential assignment of proton, carbon-13, and nitrogen-15 spectra of larger proteins: heteronuclear triple-resonance three-dimensional NMR spectroscopy. Application to calmodulin. Biochemistry, 1990, 29, 4659-4667.	1.2	926
178	Deviations from the simple two-parameter model-free approach to the interpretation of nitrogen-15 nuclear magnetic relaxation of proteins. Journal of the American Chemical Society, 1990, 112, 4989-4991.	6.6	1,021
179	An efficient NMR approach for obtaining sequence-specific resonance assignments of larger proteins based on multiple isotopic labeling. FEBS Letters, 1990, 266, 155-158.	1.3	29
180	Rapid recording of 2D NMR spectra without phase cycling. Application to the study of hydrogen exchange in proteins. Journal of Magnetic Resonance, 1989, 85, 393-399.	0.5	450

#	Article	IF	Citations
181	Backbone dynamics of proteins as studied by nitrogen-15 inverse detected heteronuclear NMR spectroscopy: application to staphylococcal nuclease. Biochemistry, 1989, 28, 8972-8979.	1.2	1,856
182	Two-Dimensional NMR and Protein Structure. Annual Review of Biochemistry, 1989, 58, 223-256.	5.0	194
183	A powerful method of sequential proton resonance assignment in proteins using relayed15N-1H multiple quantum coherence spectroscopy. FEBS Letters, 1989, 243, 93-98.	1.3	173
184	Long-range15N-1H correlation as an aid to sequential proton resonance assignment of proteins Application to the DNA-binding proteinnerfrom phage Mu. FEBS Letters, 1988, 238, 17-21.	1.3	46
185	A two-dimensional NMR study of the antimicrobial peptide magainin 2. FEBS Letters, 1988, 227, 21-26.	1.3	203
186	Homonuclear Magnetization Transfer Experiments Using Isotropic and Nonisotropic Mixing Schemes. Israel Journal of Chemistry, 1988, 28, 309-317.	1.0	16
187	Absorption mode two-dimensional NOE spectroscopy of exchangeable protons in oligonucleotides. FEBS Letters, 1987, 216, 249-252.	1.3	67
188	Conformation of double-stranded polydeoxynucleotides in solution by proton two-dimensional nuclear overhauser enhancement spectroscopy. Biopolymers, 1985, 24, 747-765.	1.2	40
189	Assignment of complex proton NMR spectra via two-dimensional homonuclear Hartmann-Hahn spectroscopy. Journal of the American Chemical Society, 1985, 107, 2820-2821.	6.6	926
190	New NHR Techniques for Structure Determination and Resonance Assignments of Complex Carbohydrates. Journal of Carbohydrate Chemistry, 1984, 3, 593-611.	0.4	70