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	NMRPipe: A multidimensional spectral processing system based on UNIX pipes. Journal of Biomolecular NMR, 1995, 6, 277-93.	2.8	14,090
2	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
3	Backbone dynamics of proteins as studied by nitrogen-15 inverse detected heteronuclear NMR spectroscopy: application to staphylococcal nuclease. Biochemistry, 1989, 28, 8972-8979.	2.5	1,856
4	Direct Measurement of Distances and Angles in Biomolecules by NMR in a Dilute Liquid Crystalline Medium. Science, 1997, 278, 1111-1114.	12.6	1,705
5	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.	13.7	1,074
6	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.	13.7	1,021
7	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.	2.5	969
8	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.	13.7	963
9	Protein backbone and sidechain torsion angles predicted from NMR chemical shifts using artificial neural networks. Journal of Biomolecular NMR, 2013, 56, 227-241.	2.8	939
10	Measurement ofJand Dipolar Couplings from Simplified Two-Dimensional NMR Spectra. Journal of Magnetic Resonance, 1998, 131, 373-378.	2.1	931
11	Assignment of complex proton NMR spectra via two-dimensional homonuclear Hartmann-Hahn spectroscopy. Journal of the American Chemical Society, 1985, 107, 2820-2821.	13.7	926
12	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.	2.5	926
13	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.	13.7	880
14	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.	7.1	852
15	Methodological advances in protein NMR. Accounts of Chemical Research, 1993, 26, 131-138.	15.6	838
16	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.	13.7	680
17	Rotational diffusion anisotropy of human ubiquitin from 15N NMR relaxation. Journal of the American Chemical Society, 1995, 117, 12562-12566.	13.7	678
18	Solution structure of calcium-free calmodulin. Nature Structural and Molecular Biology, 1995, 2, 768-776.	8.2	677

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19	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.	2.8	468
20	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
21	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
22	Weak alignment offers new NMR opportunities to study protein structure and dynamics. Protein Science, 2003, 12, 1-16.	7.6	396
23	Dipolar Couplings in Macromolecular Structure Determination. Methods in Enzymology, 2001, 339, 127-174.	1.0	388
24	[2] Measurement of homo- and heteronuclear J couplings from quantitative J correlation. Methods in Enzymology, 1994, 239, 79-105.	1.0	373
25	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.	2.1	368
26	Visualizing Speech-Generated Oral Fluid Droplets with Laser Light Scattering. New England Journal of Medicine, 2020, 382, 2061-2063.	27.0	355
27	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.	2.8	349
28	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
29	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.	8.2	337
30	Four-dimensional heteronuclear triple-resonance NMR spectroscopy of interleukin-1 beta in solution. Science, 1990, 249, 411-414.	12.6	322
31	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.	13.7	318
32	Solution structure of Ca(2+)-calmodulin reveals flexible hand-like properties of its domains. Nature Structural Biology, 2001, 8, 990-997.	9.7	305
33	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
34	Characterization of magnetically oriented phospholipid micelles for measurement of dipolar couplings in macromolecules. , 1998, 12, 361-372.		254
35	Protein Structure Determination Using Molecular Fragment Replacement and NMR Dipolar Couplings. Journal of the American Chemical Society, 2000, 122, 2142-2143.	13.7	250
36	Solution structure of cyanovirin-N, a potent HIV-inactivating protein. Nature Structural Biology, 1998, 5, 571-578.	9.7	249

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37	Weak alignment NMR: a hawk-eyed view of biomolecular structure. Current Opinion in Structural Biology, 2005, 15, 563-570.	5.7	246
38	Determination of Relative Nâ^'HN, Nâ^'Câ€˜, CÎ±â^'Câ€˜, and CÎ±â^'HÎ± Effective Bond Lengths in a Protein by NMR in a Dilute Liquid Crystalline Phase. Journal of the American Chemical Society, 1998, 120, 12334-12341.	13.7	244
39	Sparse multidimensional iterative lineshape-enhanced (SMILE) reconstruction of both non-uniformly sampled and conventional NMR data. Journal of Biomolecular NMR, 2017, 68, 101-118.	2.8	238
40	Anisotropic rotational diffusion of perdeuterated HIV protease from 15N NMR relaxation measurements at two magnetic fields. Journal of Biomolecular NMR, 1996, 8, 273-284.	2.8	236
41	Flexibility and function in HIV-1 protease. Nature Structural and Molecular Biology, 1995, 2, 274-280.	8.2	231
42	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.	13.7	231
43	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.	7.1	231
44	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
45	A two-dimensional NMR study of the antimicrobial peptide magainin 2. FEBS Letters, 1988, 227, 21-26.	2.8	203
46	Two-Dimensional NMR and Protein Structure. Annual Review of Biochemistry, 1989, 58, 223-256.	11.1	194
47	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
48	Impact of N-Terminal Acetylation of Î±-Synuclein on Its Random Coil and Lipid Binding Properties. Biochemistry, 2012, 51, 5004-5013.	2.5	186
49	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.	2.5	182
50	High-resolution heteronuclear NMR of human ubiquitin in an aqueous liquid crystalline medium. Journal of Biomolecular NMR, 1997, 10, 289-292.	2.8	176
51	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
52	A powerful method of sequential proton resonance assignment in proteins using relayed15N-1H multiple quantum coherence spectroscopy. FEBS Letters, 1989, 243, 93-98.	2.8	173
53	Measurement of 15N relaxation rates in perdeuterated proteins by TROSY-based methods. Journal of Biomolecular NMR, 2012, 53, 209-221.	2.8	172
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.	2.5	168

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55	Bicelle-based liquid crystals for NMR-measurement of dipolar couplings at acidic and basic pH values. , 1999, 13, 187-191.		167
56	Modulation of the Alignment Tensor of Macromolecules Dissolved in a Dilute Liquid Crystalline Medium. Journal of the American Chemical Society, 1998, 120, 9106-9107.	13.7	151
57	Refined solution structure and backbone dynamics of HIVâ€1 Nef. Protein Science, 1997, 6, 1248-1263.	7.6	146
58	Measurement of Dipolar Contributions to1JCHSplittings from Magnetic-Field Dependence ofJModulation in Two-Dimensional NMR Spectra. Journal of Magnetic Resonance, 1997, 124, 512-515.	2.1	143
59	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
60	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.	7.1	142
61	Measurement of amide proton exchange rates and NOEs with water in 13C/15N-enriched calcineurin B. Journal of Biomolecular NMR, 1993, 3, 627-38.	2.8	140
62	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
63	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
64	Evaluation of uncertainty in alignment tensors obtained from dipolar couplings. Journal of Biomolecular NMR, 2002, 23, 127-137.	2.8	128
65	Characterization of Phospholipid Mixed Micelles by Translational Diffusion. Journal of Biomolecular NMR, 2004, 29, 299-308.	2.8	127
66	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
67	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
68	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.	13.7	117
69	Solution structure of the DNA-binding domain of Drosophila heat shock transcription factor. Nature Structural and Molecular Biology, 1994, 1, 605-614.	8.2	115
70	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.	13.7	115
71	Prediction of Charge-Induced Molecular Alignment of Biomolecules Dissolved in Dilute Liquid-Crystalline Phases. Biophysical Journal, 2004, 86, 3444-3460.	0.5	111
72	Characterization of molecular alignment in aqueous suspensions of Pf1 bacteriophage. , 2001, 20, 365-377.		109

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73	Homonuclear decoupling for enhancing resolution and sensitivity in NOE and RDC measurements of peptides and proteins. Journal of Magnetic Resonance, 2014, 241, 97-102.	2.1	105
74	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.	13.7	102
75	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.	2.8	98
76	Breathing, speaking, coughing or sneezing: What drives transmission of SARSâ€CoVâ€2?. Journal of Internal Medicine, 2021, 290, 1010-1027.	6.0	97
77	Measurement of 3hJNC' connectivities across hydrogen bonds in a 30 kDa protein. Journal of Biomolecular NMR, 1999, 14, 181-184.	2.8	93
78	Local unfolding of the HSP27 monomer regulates chaperone activity. Nature Communications, 2019, 10, 1068.	12.8	93
79	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
80	Facile measurement of 1Hâ€“15N residual dipolar couplings in larger perdeuterated proteins. Journal of Biomolecular NMR, 2010, 48, 65-70.	2.8	92
81	Isotope-edited multidimensional NMR of calcineurin B in the presence of the non-deuterated detergent CHAPS. Journal of Biomolecular NMR, 1993, 3, 121-6.	2.8	90
82	Optimized recording of heteronuclear multidimensional NMR spectra using pulsed field gradients. Journal of Magnetic Resonance, 1992, 99, 638-643.	0.5	88
83	Simultaneous NMR Study of Protein Structure and Dynamics Using Conservative Mutagenesis. Journal of Physical Chemistry B, 2008, 112, 6045-6056.	2.6	87
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.	2.8	77
85	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.	2.8	73
86	A maximum entropy approach to the study of residueâ€specific backbone angle distributions in αâ€synuclein, an intrinsically disordered protein. Protein Science, 2014, 23, 1275-1290.	7.6	73
87	Solution structure of DinI provides insight into its mode of RecA inactivation. Protein Science, 2000, 9, 2161-2169.	7.6	72
88	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.	7.1	71
89	Site-Specific Interaction between α-Synuclein and Membranes Probed by NMR-Observed Methionine Oxidation Rates. Journal of the American Chemical Society, 2013, 135, 2943-2946.	13.7	71
90	New NHR Techniques for Structure Determination and Resonance Assignments of Complex Carbohydrates. Journal of Carbohydrate Chemistry, 1984, 3, 593-611.	1.1	70

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91	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.	13.7	70
92	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.	13.7	69
93	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.	7.1	69
94	Single-Step Determination of Protein Substructures Using Dipolar Couplings:Â Aid to Structural Genomics. Journal of the American Chemical Society, 2001, 123, 9490-9491.	13.7	68
95	Absorption mode two-dimensional NOE spectroscopy of exchangeable protons in oligonucleotides. FEBS Letters, 1987, 216, 249-252.	2.8	67
96	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.	13.7	66
97	The use of 1JC?H? coupling constants as a probe for protein backbone conformation. Journal of Biomolecular NMR, 1993, 3, 67-80.	2.8	65
98	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.	13.8	65
99	An allosteric site in the T-cell receptor CÎ² domain plays a critical signalling role. Nature Communications, 2017, 8, 15260.	12.8	64
100	Structural Basis of hAT Transposon End Recognition by Hermes, an Octameric DNA Transposase from Musca domestica. Cell, 2014, 158, 353-367.	28.9	63
101	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.	2.8	60
102	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
103	Liquid Crystalline Phase of G-Tetrad DNA for NMR Study of Detergent-Solubilized Proteins. Journal of the American Chemical Society, 2008, 130, 7536-7537.	13.7	59
104	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.	13.7	59
105	Measurement of one-bond 15N-13C' dipolar couplings in medium sized proteins. Journal of Biomolecular NMR, 2000, 18, 101-105.	2.8	56
106	An Empirical Correlation between Amide Deuterium Isotope Effects on 13CÎ± Chemical Shifts and Protein Backbone Conformation. Journal of the American Chemical Society, 1997, 119, 8070-8075.	13.7	54
107	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
108	Homology modeling of larger proteins guided by chemical shifts. Nature Methods, 2015, 12, 747-750.	19.0	51

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109	Propensity for cisâ€Proline Formation in Unfolded Proteins. ChemBioChem, 2018, 19, 37-42.	2.6	51
110	The Role of Molecular Flexibility in Antigen Presentation and T Cell Receptor-Mediated Signaling. Frontiers in Immunology, 2018, 9, 1657.	4.8	51
111	Toxic Dopamine Metabolite DOPAL Forms an Unexpected Dicatechol Pyrrole Adduct with Lysines of Î±â€Synuclein. Angewandte Chemie - International Edition, 2016, 55, 7374-7378.	13.8	47
112	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.	2.8	46
113	Hydrating the respiratory tract: An alternative explanation why masks lower severity of COVID-19. Biophysical Journal, 2021, 120, 994-1000.	0.5	45
114	Multiplet component separation for measurement of methyl 13C-1H dipolar couplings in weakly aligned proteins. , 2001, 20, 77-82.		44
115	Are proteins even floppier than we thought?. Nature Structural Biology, 1997, 4, 254-256.	9.7	43
116	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.	13.7	42
117	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
118	Impact of Hydrostatic Pressure on an Intrinsically Disordered Protein: A Highâ€Pressure NMR Study of Î±â€Synuclein. ChemBioChem, 2013, 14, 1754-1761.	2.6	41
119	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.	7.1	41
120	Conformation of double-stranded polydeoxynucleotides in solution by proton two-dimensional nuclear overhauser enhancement spectroscopy. Biopolymers, 1985, 24, 747-765.	2.4	40
121	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.	2.8	40
122	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.	13.7	40
123	Tilted, Uninterrupted, Monomeric HIV-1 gp41 Transmembrane Helix from Residual Dipolar Couplings. Journal of the American Chemical Society, 2018, 140, 34-37.	13.7	39
124	Deuterium isotope shifts for backbone 1H, 15N and 13C nuclei in intrinsically disordered protein Î±-synuclein. Journal of Biomolecular NMR, 2012, 54, 181-191.	2.8	37
125	Observation of Î²-Amyloid Peptide Oligomerization by Pressure-Jump NMR Spectroscopy. Journal of the American Chemical Society, 2019, 141, 13762-13766.	13.7	36
126	Measuring rapid hydrogen exchange in the homodimeric 36 kDa HIVâ€1 integrase catalytic core domain. Protein Science, 2011, 20, 500-512.	7.6	34

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127	Protein NMR: Boundless opportunities. Journal of Magnetic Resonance, 2019, 306, 187-191.	2.1	33
128	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
129	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
130	A three-dimensional NMR experiment with improved sensitivity for carbonyl-carbonyl J correlation in proteins. Journal of Biomolecular NMR, 1997, 9, 207-211.	2.8	30
131	High Accuracy of Karplus Equations for Relating Threeâ€Bond J Couplings to Protein Backbone Torsion Angles. ChemPhysChem, 2015, 16, 572-578.	2.1	30
132	An efficient NMR approach for obtaining sequence-specific resonance assignments of larger proteins based on multiple isotopic labeling. FEBS Letters, 1990, 266, 155-158.	2.8	29
133	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.	13.7	29
134	Monitoring Hydrogen Exchange During Protein Folding by Fast Pressure Jump NMR Spectroscopy. Journal of the American Chemical Society, 2017, 139, 11036-11039.	13.7	29
135	Large-Scale Recombinant Production of the SARS-CoV-2 Proteome for High-Throughput and Structural Biology Applications. Frontiers in Molecular Biosciences, 2021, 8, 653148.	3.5	29
136	Quantitative Residue-Specific Protein Backbone Torsion Angle Dynamics from Concerted Measurement of ³J Couplings. Journal of the American Chemical Society, 2015, 137, 1432-1435.	13.7	28
137	Transient lipid-bound states of spike protein heptad repeats provide insights into SARS-CoV-2 membrane fusion. Science Advances, 2021, 7, eabk2226.	10.3	28
138	Quantitative J correlation methods for the accurate measurement of13CÂ-13CÎ±dipolar couplings in proteins. Journal of Biomolecular NMR, 2004, 30, 181-194.	2.8	27
139	Protein backbone motions viewed by intraresidue and sequential HNâ€“HÎ± residual dipolar couplings. Journal of Biomolecular NMR, 2008, 41, 17-28.	2.8	27
140	Advances in NMR Spectroscopy of Weakly Aligned Biomolecular Systems. Chemical Reviews, 2022, 122, 9307-9330.	47.7	27
141	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, .	7.1	27
142	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.	13.7	25
143	Conformation of Inhibitorâ€Free HIVâ€1 Protease Derived from NMR Spectroscopy in a Weakly Oriented Solution. ChemBioChem, 2015, 16, 214-218.	2.6	25
144	Observation of Î±-Helical Hydrogen-Bond Cooperativity in an Intact Protein. Journal of the American Chemical Society, 2016, 138, 1824-1827.	13.7	24

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145	Prediction of nearest neighbor effects on backbone torsion angles and NMR scalar coupling constants in disordered proteins. Protein Science, 2018, 27, 146-158.	7.6	24
146	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.	3.3	23
147	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
148	Measurement of 1Hâ€“15N and 1Hâ€“13C residual dipolar couplings in nucleic acids from TROSY intensities. Journal of Biomolecular NMR, 2011, 51, 89-103.	2.8	22
149	Multidimensional Triple Resonance NMR Spectroscopy of Isotopically Uniformly Enriched Proteins: A Powerful New Strategy for Structure Determination. Novartis Foundation Symposium, 1991, 161, 108-135.	1.1	22
150	1Hâ'1H Dipolar Couplings Provide a Unique Probe of RNA Backbone Structure. Journal of the American Chemical Society, 2003, 125, 15740-15741.	13.7	21
151	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.	2.6	21
152	Isoindole Linkages Provide a Pathway for DOPAL-Mediated Cross-Linking of Î±-Synuclein. Biochemistry, 2018, 57, 1462-1474.	2.5	21
153	Conditional Disorder in Small Heat-shock Proteins. Journal of Molecular Biology, 2020, 432, 3033-3049.	4.2	21
154	A lowly populated, transient Î²-sheet structure in monomeric AÎ²1-42 identified by multinuclear NMR of chemical denaturation. Biophysical Chemistry, 2021, 270, 106531.	2.8	21
155	Monitoring ¹⁵N Chemical Shifts During Protein Folding by Pressure-Jump NMR. Journal of the American Chemical Society, 2018, 140, 8096-8099.	13.7	20
156	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.	2.1	19
157	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
158	Observation and Kinetic Characterization of Transient Schiff Base Intermediates by CEST NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 15309-15312.	13.8	18
159	Triple resonance three-dimensional protein NMR: Before it became a black box. Journal of Magnetic Resonance, 2011, 213, 442-445.	2.1	17
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