Jerome Boisbouvier

List of Publications by Year in descending order

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54 papers	2,413 citations	201674 27 h-index	206112 48 g-index
60 all docs	60 docs citations	60 times ranked	2331 citing authors

#	Article	IF	Citations
1	Direct detection of CH/Ï€ interactions in proteins. Nature Chemistry, 2010, 2, 466-471.	13.6	247
2	Stereospecific Isotopic Labeling of Methyl Groups for NMR Spectroscopic Studies of Highâ€Molecularâ€Weight Proteins. Angewandte Chemie - International Edition, 2010, 49, 1958-1962.	13.8	193
3	Methyl-specific isotopic labeling: a molecular tool box for solution NMR studies of large proteins. Current Opinion in Structural Biology, 2015, 32, 113-122.	5.7	157
4	An efficient protocol for the complete incorporation of methyl-protonated alanine in perdeuterated protein. Journal of Biomolecular NMR, 2009, 43, 111-119.	2.8	140
5	Improved Sensitivity and Resolution in1Hâ”13C NMR Experiments of RNA. Journal of the American Chemical Society, 1998, 120, 11845-11851.	13.7	101
6	Fast Two-Dimensional NMR Spectroscopy of High Molecular Weight Protein Assemblies. Journal of the American Chemical Society, 2009, 131, 3448-3449.	13.7	99
7	Longitudinal-Relaxation-Enhanced NMR Experiments for the Study of Nucleic Acids in Solution. Journal of the American Chemical Society, 2009, 131, 8571-8577.	13.7	90
8	Probing Transient Conformational States of Proteins by Solidâ€State R_{1Ï} Relaxationâ€Dispersion NMR Spectroscopy. Angewandte Chemie - International Edition, 2014, 53, 4312-4317.	13.8	81
9	Integrated NMR and cryo-EM atomic-resolution structure determination of a half-megadalton enzyme complex. Nature Communications, 2019, 10, 2697.	12.8	80
10	Relaxation-Optimized NMR Spectroscopy of Methylene Groups in Proteins and Nucleic Acids. Journal of the American Chemical Society, 2004, 126, 10560-10570.	13.7	71
11	A systematic mutagenesis-driven strategy for site-resolved NMR studies of supramolecular assemblies. Journal of Biomolecular NMR, 2011, 50, 229-236.	2.8	70
12	A structural homologue of colipase in black mamba venom revealed by NMR floating disulphide bridge analysis. Journal of Molecular Biology, 1998, 283, 205-219.	4.2	68
13	Long-Range Structural Information in NMR Studies of Paramagnetic Molecules from Electron Spinâ”Nuclear Spin Cross-Correlated Relaxation. Journal of the American Chemical Society, 1999, 121, 7700-7701.	13.7	67
14	Specific labeling and assignment strategies of valine methyl groups for NMR studies of high molecular weight proteins. Journal of Biomolecular NMR, 2013, 57, 251-262.	2.8	55
15	Solidâ€State NMR Measurements of Asymmetric Dipolar Couplings Provide Insight into Protein Sideâ€Chain Motion. Angewandte Chemie - International Edition, 2011, 50, 11005-11009.	13.8	53
16	Rotational diffusion tensor of nucleic acids from 13C NMR relaxation. Journal of Biomolecular NMR, 2003, 27, 133-142.	2.8	49
17	Liquid-crystal NMR structure of HIV TAR RNA bound to its SELEX RNA aptamer reveals the origins of the high stability of the complex. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9210-9215.	7.1	44
18	Structural investigation of a chaperonin in action reveals how nucleotide binding regulates the functional cycle. Science Advances, 2018, 4, eaau4196.	10.3	44

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19	NMR Determination of Sugar Puckers in Nucleic Acids from CSAâ^'Dipolar Cross-Correlated Relaxation. Journal of the American Chemical Society, 2000, 122, 6779-6780.	13.7	43
20	High-Accuracy Distance Measurement between Remote Methyls in Specifically Protonated Proteins. Journal of the American Chemical Society, 2007, 129, 472-473.	13.7	43
21	Solidâ€State NMR Hâ€“Nâ€“(C)â€“H and Hâ€“Nâ€“Câ€“C 3D/4D Correlation Experiments for Resonance Assignment of Large Proteins. ChemPhysChem, 2017, 18, 2697-2703.	2.1	43
22	Aromatic Ring Dynamics, Thermal Activation, and Transient Conformations of a 468 kDa Enzyme by Specific ¹Hâ€“¹³C Labeling and Fast Magic-Angle Spinning NMR. Journal of the American Chemical Society, 2019, 141, 11183-11195.	13.7	43
23	An optimized isotopic labelling strategy of isoleucine-Î³₂methyl groups for solution NMR studies of high molecular weight proteins. Chemical Communications, 2012, 48, 1434-1436.	4.1	37
24	Scrambling free combinatorial labeling of alanine-Î², isoleucine-Î´1, leucine-proS and valine-proS methyl groups for the detection of long range NOEs. Journal of Biomolecular NMR, 2015, 61, 73-82.	2.8	37
25	Direct observation of dipolar couplings between distant protons in weakly aligned nucleic acids. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11333-11338.	7.1	34
26	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
27	Sensitive proton-detected solid-state NMR spectroscopy of large proteins with selective CH₃labelling: application to the 50S ribosome subunit. Chemical Communications, 2016, 52, 9558-9561.	4.1	30
28	Resolution-optimized NMR measurement of 1DCH, 1DCC and 2DCH residual dipolar couplings in nucleic acid bases. Journal of Biomolecular NMR, 2004, 30, 287-301.	2.8	28
29	Unraveling self-assembly pathways of the 468-kDa proteolytic machine TET2. Science Advances, 2017, 3, e1601601.	10.3	28
30	Experimental and Theoretical Determination of Nucleic Acid Magnetic Susceptibility:Â Importance for the Study of Dynamics by Field-Induced Residual Dipolar Couplings. Journal of the American Chemical Society, 2004, 126, 10820-10821.	13.7	25
31	CH3-specific NMR assignment of alanine, isoleucine, leucine and valine methyl groups in high molecular weight proteins using a single sample. Journal of Biomolecular NMR, 2015, 63, 389-402.	2.8	25
32	Accurate measurement of 15N?13C residual dipolar couplings in nucleic acids. Journal of Biomolecular NMR, 2005, 31, 231-241.	2.8	23
33	Base-type-selective high-resolution 13C edited NOESY for sequential assignment of large RNAs. Journal of Biomolecular NMR, 2001, 19, 141-151.	2.8	21
34	NMR structure of the A730 loop of the Neurospora VS ribozyme: insights into the formation of the active site. Nucleic Acids Research, 2011, 39, 4427-4437.	14.5	20
35	Rapid measurement of residual dipolar couplings for fast fold elucidation of proteins. Journal of Biomolecular NMR, 2011, 51, 369-378.	2.8	18
36	A simple biosynthetic method for stereospecific resonance assignment of prochiral methyl groups in proteins. Journal of Biomolecular NMR, 2011, 49, 61-67.	2.8	17

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37	Observation of CHâ‹…â‹…â‹…Ï€ Interactions between Methyl and Carbonyl Groups in Proteins. Angewandte Chemie - International Edition, 2017, 56, 7564-7567.	13.8	17
38	Advanced isotopic labeling for the NMR investigation of challenging proteins and nucleic acids. Journal of Biomolecular NMR, 2018, 71, 115-117.	2.8	15
39	In Vitro Production of Perdeuterated Proteins in H2O for Biomolecular NMR Studies. Methods in Molecular Biology, 2021, 2199, 127-149.	0.9	14
40	Simultaneous determination of disulphide bridge topology and three-dimensional structure using ambiguous intersulphur distance restraints: possibilities and limitations. Journal of Biomolecular NMR, 2000, 16, 197-208.	2.8	12
41	Long-Range Magnetization Transfer between Uncoupled Nuclei by Dipoleâ^'Dipole Cross-Correlated Relaxation:Â A Precise Probe of Î²-Sheet Geometry in Proteins. Journal of the American Chemical Society, 2002, 124, 11038-11045.	13.7	10
42	A Cost-Effective Protocol for the Parallel Production of Libraries of 13CH3-Specifically Labeled Mutants for NMR Studies of High Molecular Weight Proteins. Methods in Molecular Biology, 2014, 1091, 229-244.	0.9	10
43	Asymmetric Synthesis of Methyl Specifically Labelled L â€Threonine and Application to the NMR Studies of High Molecular Weight Proteins. ChemistrySelect, 2020, 5, 5092-5098.	1.5	8
44	Parallel screening and optimization of protein constructs for structural studies. Protein Science, 2009, 18, 434-439.	7.6	7
45	Spectral editing of intra- and inter-chain methylâ€“methyl NOEs in protein complexes. Journal of Biomolecular NMR, 2020, 74, 83-94.	2.8	7
46	Optimized precursor to simplify assignment transfer between backbone resonances and stereospecifically labelled valine and leucine methyl groups: application to human Hsp90 N-terminal domain. Journal of Biomolecular NMR, 2021, 75, 221-232.	2.8	7
47	Sensitivity-optimized experiment for the measurement of residual dipolar couplings between amide protons. Journal of Biomolecular NMR, 2007, 38, 47-55.	2.8	6
48	Observation of CHâ‹…â‹…â‹…Ï€ Interactions between Methyl and Carbonyl Groups in Proteins. Angewandte Chemie, 2017, 129, 7672-7675.	2.0	5
49	Backbone and methyl resonances assignment of the 87 kDa prefoldin from Pyrococcus horikoshii. Biomolecular NMR Assignments, 2021, 15, 351-360.	0.8	5
50	Chapter 1. Isotope-Labelling of Methyl Groups for NMR Studies of Large Proteins. RSC Biomolecular Sciences, 0, , 1-24.	0.4	5
51	Structural basis for the inhibition of IAPP fibril formation by the co-chaperonin prefoldin. Nature Communications, 2022, 13, 2363.	12.8	5
52	Resolution-Enhanced Base-Type-Edited HCN Experiment for RNA. Journal of Biomolecular NMR, 2005, 32, 263-271.	2.8	4
53	Inside Cover: Stereospecific Isotopic Labeling of Methyl Groups for NMR Spectroscopic Studies of High-Molecular-Weight Proteins (Angew. Chem. Int. Ed. 11/2010). Angewandte Chemie - International Edition, 2010, 49, 1896-1896.	13.8	1
54	NMR assignment of human HSP90 N-terminal domain bound to a long residence time resorcinol ligand. Biomolecular NMR Assignments, 0, , .	0.8	0