

# Dominique P Frueh

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,911  
citations

279798

23  
h-index

254184

43  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2328  
citing authors

#	ARTICLE	IF	CITATIONS
1	A nuclear receptor-like pathway regulating multidrug resistance in fungi. <i>Nature</i> , 2008, 452, 604-609.	27.8	294
2	Accelerated acquisition of high resolution triple-resonance spectra using non-uniform sampling and maximum entropy reconstruction. <i>Journal of Magnetic Resonance</i> , 2004, 170, 15-21.	2.1	217
3	In situ observation of protein phosphorylation by high-resolution NMR spectroscopy. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 321-329.	8.2	153
4	Dynamic thiolation of thioesterase structure of a non-ribosomal peptide synthetase. <i>Nature</i> , 2008, 454, 903-906.	27.8	151
5	Structural basis for the selectivity of the external thioesterase of the surfactin synthetase. <i>Nature</i> , 2008, 454, 907-911.	27.8	112
6	FM reconstruction of non-uniformly sampled protein NMR data at higher dimensions and optimization by distillation. <i>Journal of Biomolecular NMR</i> , 2009, 45, 283-294.	2.8	69
7	NMR methods for structural studies of large monomeric and multimeric proteins. <i>Current Opinion in Structural Biology</i> , 2013, 23, 734-739.	5.7	66
8	Non-uniformly Sampled Double-TROSY hNcaNH Experiments for NMR Sequential Assignments of Large Proteins. <i>Journal of the American Chemical Society</i> , 2006, 128, 5757-5763.	13.7	63
9	Fast Assignment of <sup>15</sup> N-HSQC Peaks using High-Resolution 3D HNcocaNH Experiments with Non-Uniform Sampling. <i>Journal of Biomolecular NMR</i> , 2005, 33, 43-50.	2.8	59
10	Practical aspects of NMR signal assignment in larger and challenging proteins. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2014, 78, 47-75.	7.5	54
11	Internal motions in proteins and interference effects in nuclear magnetic resonance. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2002, 41, 305-324.	7.5	52
12	NMR Methods for Studying Protein-Protein Interactions Involved in Translation Initiation. <i>Methods in Enzymology</i> , 2007, 430, 283-331.	1.0	48
13	Effects of Redox Potential and Ca <sup>2+</sup> on the Inositol 1,4,5-Trisphosphate Receptor L3-1 Loop Region. <i>Journal of Biological Chemistry</i> , 2008, 283, 25567-25575.	3.4	39
14	Solution Structure of a Nonribosomal Peptide Synthetase Carrier Protein Loaded with Its Substrate Reveals Transient, Well-Defined Contacts. <i>Journal of the American Chemical Society</i> , 2015, 137, 12100-12109.	13.7	37
15	Determination of all NOEs in <sup>1</sup> H- <sup>13</sup> C-Me-ILV-U- <sup>2</sup> H- <sup>15</sup> N Proteins with Two Time-Shared Experiments. <i>Journal of Biomolecular NMR</i> , 2006, 34, 31-40.	2.8	36
16	Sensitivity enhancement in NMR of macromolecules by application of optimal control theory. <i>Journal of Biomolecular NMR</i> , 2005, 32, 23-30.	2.8	35
17	Mapping of the Auto-inhibitory Interactions of Protein Kinase R by Nuclear Magnetic Resonance. <i>Journal of Molecular Biology</i> , 2006, 364, 352-363.	4.2	35
18	Nitrogen-detected CAN and CON experiments as alternative experiments for main chain NMR resonance assignments. <i>Journal of Biomolecular NMR</i> , 2010, 47, 271-282.	2.8	34

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19	Unambiguous Assignment of NMR Protein Backbone Signals with a Time-shared Triple-resonance Experiment. <i>Journal of Biomolecular NMR</i> , 2005, 33, 187-196.	2.8	31
20	Hidden in Plain Sight: Subtle Effects of the 8-Oxoguanine Lesion on the Structure, Dynamics, and Thermodynamics of a 15-Base Pair Oligodeoxynucleotide Duplex. <i>Biochemistry</i> , 2011, 50, 8463-8477.	2.5	31
21	Neutralizing Positive Charges at the Surface of a Protein Lowers Its Rate of Amide Hydrogen Exchange without Altering Its Structure or Increasing Its Thermostability. <i>Journal of the American Chemical Society</i> , 2010, 132, 17411-17425.	13.7	29
22	Triple Quantum Decoherence under Multiple Refocusing: Slow Correlated Chemical Shift Modulations of $^{13}\text{C}$ and $^1\text{N}$ Nuclei in Proteins. <i>Journal of Biomolecular NMR</i> , 2004, 28, 263-272.	2.8	27
23	High-Resolution 3D CANCA NMR Experiments for Complete Mainchain Assignments Using $^{13}\text{C}$ Direct Detection. <i>Journal of the American Chemical Society</i> , 2010, 132, 2945-2951.	13.7	25
24	A Double TROSY hNCAnH Experiment for Efficient Assignment of Large and Challenging Proteins. <i>Journal of the American Chemical Society</i> , 2009, 131, 12880-12881.	13.7	23
25	CACA-TOCSY with alternate $^{13}\text{C}$ / $^{12}\text{C}$ labeling: a $^{13}\text{C}$ direct detection experiment for mainchain resonance assignment, dihedral angle information, and amino acid type identification. <i>Journal of Biomolecular NMR</i> , 2010, 47, 55-63.	2.8	23
26	Assignment of methyl NMR resonances of a 52 kDa protein with residue-specific 4D correlation maps. <i>Journal of Biomolecular NMR</i> , 2015, 62, 281-290.	2.8	16
27	Global dynamic conformational changes in the suppressor domain of IP <sub>3</sub> receptor by stepwise binding of the two lobes of calmodulin. <i>FASEB Journal</i> , 2011, 25, 840-850.	0.5	15
28	Facilitated Assignment of Large Protein NMR Signals with Covariance Sequential Spectra Using Spectral Derivatives. <i>Journal of the American Chemical Society</i> , 2014, 136, 13106-13109.	13.7	15
29	Time-shared HSQC-NOESY for accurate distance constraints measured at high-field in $^{15}\text{N}$ - $^{13}\text{C}$ -ILV methyl labeled proteins. <i>Journal of Biomolecular NMR</i> , 2009, 45, 311-318.	2.8	14
30	A Nuclear Magnetic Resonance Method for Probing Molecular Influences of Substrate Loading in Nonribosomal Peptide Synthetase Carrier Proteins. <i>Biochemistry</i> , 2015, 54, 1154-1156.	2.5	14
31	A 3D time-shared NOESY experiment designed to provide optimal resolution for accurate assignment of NMR distance restraints in large proteins. <i>Journal of Biomolecular NMR</i> , 2014, 60, 265-274.	2.8	13
32	Molecular impact of covalent modifications on nonribosomal peptide synthetase carrier protein communication. <i>Journal of Biological Chemistry</i> , 2017, 292, 10002-10013.	3.4	12
33	Effortless assignment with 4D covariance sequential correlation maps. <i>Journal of Magnetic Resonance</i> , 2015, 260, 83-88.	2.1	10
34	Covariance NMR Processing and Analysis for Protein Assignment. <i>Methods in Molecular Biology</i> , 2018, 1688, 353-373.	0.9	10
35	Evidence of Slow Motions by Cross-Correlated Chemical Shift Modulation in Deuterated and Protonated Proteins. <i>Journal of Biomolecular NMR</i> , 2004, 28, 173-177.	2.8	8
36	Fourier synthesis techniques for NMR spectroscopy in inhomogeneous fields. <i>Journal of Chemical Physics</i> , 2008, 128, 214503.	3.0	8

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37	Molecular Cross-Talk between Nonribosomal Peptide Synthetase Carrier Proteins and Unstructured Linker Regions. <i>ChemBioChem</i> , 2017, 18, 629-632.	2.6	8
38	SARA: a software environment for the analysis of relaxation data acquired with accordion spectroscopy. <i>Journal of Biomolecular NMR</i> , 2014, 58, 83-99.	2.8	5
39	Global protein dynamics as communication sensors in peptide synthetase domains. <i>Science Advances</i> , 2022, 8, .	10.3	5
40	Conserved allosteric ensembles in disordered proteins using TROSY/anti-TROSY R2-filtered spectroscopy. <i>Biophysical Journal</i> , 2021, 120, 2498-2510.	0.5	4
41	Using delayed decoupling to attenuate residual signals in editing filters. <i>Magnetic Resonance</i> , 2021, 2, 475-487.	1.9	4
42	Covariance nuclear magnetic resonance methods for obtaining protein assignments and novel correlations. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2017, 46A, .	0.5	3
43	Minimizing Pervasive Artifacts in 4D Covariance Maps for Protein Side Chain NMR Assignments. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8313-8323.	2.5	2
44	Multiple Substrate and Domain Binding in Non-Ribosomal Peptide Synthetases. <i>Biophysical Journal</i> , 2013, 104, 180a.	0.5	0
45	Transient Domain Interactions in Non-Ribosomal Peptide Synthetases. <i>FASEB Journal</i> , 2011, 25, .	0.5	0
46	Structural Dynamics Couple Substrate Recognition with Allosteric Domain Communication in Nonribosomal Peptide Synthetases. <i>FASEB Journal</i> , 2019, 33, 468.4.	0.5	0
47	NMR as a readout to monitor and restore the integrity of complex chemoenzymatic reactions. <i>Journal of Magnetic Resonance</i> , 2022, 342, 107265.	2.1	0