

Daniel Nietlispach

List of Publications by Year in descending order

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83
papers

4,196
citations

109321

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63
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89
all docs

89
docs citations

89
times ranked

4979
citing authors

#	ARTICLE	IF	CITATIONS
1	NUScon: a community-driven platform for quantitative evaluation of nonuniform sampling in NMR. <i>Magnetic Resonance</i> , 2021, 2, 843-861.	1.9	7
2	Structure and Dynamics of GPCRs in Lipid Membranes: Physical Principles and Experimental Approaches. <i>Molecules</i> , 2020, 25, 4729.	3.8	38
3	Conformational plasticity of ligand-bound and ternary GPCR complexes studied by ^{19}F NMR of the ^{121}I -adrenergic receptor. <i>Nature Communications</i> , 2020, 11, 669.	12.8	67
4	Characterisation of denatured states of sensory rhodopsin II by solution-state NMR. <i>Journal of Molecular Biology</i> , 2019, 431, 2790-2809.	4.2	2
5	Time-domain signal modelling in multidimensional NMR experiments for estimation of relaxation parameters. <i>Journal of Biomolecular NMR</i> , 2019, 73, 93-104.	2.8	2
6	The role of NMR spectroscopy in mapping the conformational landscape of GPCRs. <i>Current Opinion in Structural Biology</i> , 2019, 57, 145-156.	5.7	43
7	Structural and Functional Consequences of the Weak Binding of Chlorin e6 to Bovine Rhodopsin. <i>Photochemistry and Photobiology</i> , 2019, 95, 787-802.	2.5	4
8	Characterization of Denatured States and Reversible Unfolding of Sensory Rhodopsin II. <i>Journal of Molecular Biology</i> , 2018, 430, 4068-4086.	4.2	4
9	A generalized approach for NMR studies of lipid-protein interactions based on sparse fluorination of acyl chains. <i>Chemical Communications</i> , 2018, 54, 7306-7309.	4.1	1
10	Improving resolution in multidimensional NMR using random quadrature detection with compressed sensing reconstruction. <i>Journal of Biomolecular NMR</i> , 2017, 68, 67-77.	2.8	13
11	An Adaptable Phospholipid Membrane Mimetic System for Solution NMR Studies of Membrane Proteins. <i>Journal of the American Chemical Society</i> , 2017, 139, 14829-14832.	13.7	34
12	Insight into partial agonism by observing multiple equilibria for ligand-bound and Gs-mimetic nanobody-bound ^{121}I -adrenergic receptor. <i>Nature Communications</i> , 2017, 8, 1795.	12.8	92
13	Compressed sensing: Reconstruction of non-uniformly sampled multidimensional NMR data. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2017, 46A, .	0.5	20
14	Application of random coherence order selection in gradient-enhanced multidimensional NMR. <i>Journal of Physics: Conference Series</i> , 2016, 699, 012004.	0.4	0
15	NMR backbone resonance assignment and solution secondary structure determination of human NSD1 and NSD2. <i>Biomolecular NMR Assignments</i> , 2016, 10, 315-320.	0.8	7
16	^1H , ^{13}C and ^{15}N resonance assignments of the Cdc42-binding domain of TOCA1. <i>Biomolecular NMR Assignments</i> , 2016, 10, 407-411.	0.8	1
17	^1H , ^{15}N and ^{13}C backbone assignments of GDP-bound human H-Ras mutant G12V. <i>Biomolecular NMR Assignments</i> , 2016, 10, 121-123.	0.8	3
18	Sticky swinging arm dynamics: studies of an acyl carrier protein domain from the mycolactone polyketide synthase. <i>Biochemical Journal</i> , 2016, 473, 1097-1110.	3.7	19

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19	Investigation of the Interaction between Cdc42 and Its Effector TOCA1. <i>Journal of Biological Chemistry</i> , 2016, 291, 13875-13890.	3.4	27
20	Integral membrane protein structure determination using pseudocontact shifts. <i>Journal of Biomolecular NMR</i> , 2015, 61, 197-207.	2.8	30
21	Detergent-free mass spectrometry of membrane protein complexes. <i>Nature Methods</i> , 2013, 10, 1206-1208.	19.0	152
22	The Structure of the RLIP76 RhoGAP-Ral Binding Domain Dyad: Fixed Position of the Domains Leads to Dual Engagement of Small G Proteins at the Membrane. <i>Structure</i> , 2013, 21, 2131-2142.	3.3	10
23	Solution NMR Studies of Integral Polytopic $\hat{\pm}$ -Helical Membrane Proteins: The Structure Determination of the Seven-Helix Transmembrane Receptor Sensory Rhodopsin II, pSRII. <i>Methods in Molecular Biology</i> , 2012, 914, 25-45.	0.9	6
24	Compressed sensing reconstruction of undersampled 3D NOESY spectra: application to large membrane proteins. <i>Journal of Biomolecular NMR</i> , 2012, 54, 15-32.	2.8	51
25	^1H , ^{13}C and ^{15}N resonance assignments of the GTPase-activating (GAP) and Ral binding domains (GBD) of RLIP76 (RalBP1). <i>Biomolecular NMR Assignments</i> , 2012, 6, 119-122.	0.8	3
26	In support of the BMRB. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 854-860.	8.2	6
27	Solution NMR studies of polytopic $\hat{\pm}$ -helical membrane proteins. <i>Current Opinion in Structural Biology</i> , 2011, 21, 497-508.	5.7	43
28	Fast Multidimensional NMR Spectroscopy Using Compressed Sensing. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6548-6551.	13.8	241
29	The RalB-RLIP76 Complex Reveals a Novel Mode of Ral-Effector Interaction. <i>Structure</i> , 2010, 18, 985-995.	3.3	40
30	Structure determination of the seven-helix transmembrane receptor sensory rhodopsin II by solution NMR spectroscopy. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 768-774.	8.2	198
31	NMR protein structure determination in living <i>E. coli</i> cells using nonlinear sampling. <i>Nature Protocols</i> , 2010, 5, 1051-1060.	12.0	42
32	NMR Analysis of the Structure, Dynamics, and Unique Oligomerization Properties of the Chemokine CCL27. <i>Journal of Biological Chemistry</i> , 2010, 285, 14424-14437.	3.4	46
33	The Sodium Channel $\hat{\pm}^{23}$ -Subunit Induces Multiphasic Gating in NaV1.3 and Affects Fast Inactivation via Distinct Intracellular Regions. <i>Journal of Biological Chemistry</i> , 2010, 285, 33404-33412.	3.4	34
34	Investigations into Protein Crystallization in the Presence of a Strong Magnetic Field. <i>Crystal Growth and Design</i> , 2010, 10, 691-699.	3.0	21
35	Local Cooperativity in an Amyloidogenic State of Human Lysozyme Observed at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2010, 132, 15580-15588.	13.7	55
36	The Structure of Binder of Arl2 (BART) Reveals a Novel G Protein Binding Domain. <i>Journal of Biological Chemistry</i> , 2009, 284, 992-999.	3.4	9

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37	1H, 13C and 15N resonance assignments for Binder of Arl2, BART. <i>Biomolecular NMR Assignments</i> , 2009, 3, 33-36.	0.8	1
38	Solution Structure and Dynamics of the Small GTPase RalB in Its Active Conformation: Significance for Effector Protein Binding. <i>Biochemistry</i> , 2009, 48, 2192-2206.	2.5	41
39	1H, 13C and 15N resonance assignments for the active conformation of the small G protein RalB in complex with its effector RLIP76. <i>Biomolecular NMR Assignments</i> , 2008, 2, 179-182.	0.8	3
40	Resonance assignments for the RLIP76 Ral binding domain in its free form and in complex with the small G protein RalB. <i>Biomolecular NMR Assignments</i> , 2008, 2, 191-194.	0.8	3
41	Solution-State NMR Spectroscopy of a Seven-Helix Transmembrane Protein Receptor: Backbone Assignment, Secondary Structure, and Dynamics. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7297-7300.	13.8	62
42	Inside Cover: Solution-State NMR Spectroscopy of a Seven-Helix Transmembrane Protein Receptor: Backbone Assignment, Secondary Structure, and Dynamics (<i>Angew. Chem. Int. Ed.</i> 38/2008). <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7142-7142.	13.8	0
43	Innentitelbild: Solution-State NMR Spectroscopy of a Seven-Helix Transmembrane Protein Receptor: Backbone Assignment, Secondary Structure, and Dynamics (<i>Angew. Chem.</i> 38/2008). <i>Angewandte Chemie</i> , 2008, 120, 7252-7252.	2.0	0
44	Multienzyme docking in hybrid megasynthetases. <i>Nature Chemical Biology</i> , 2008, 4, 75-81.	8.0	80
45	The Rac1 Polybasic Region Is Required for Interaction with Its Effector PRK1. <i>Journal of Biological Chemistry</i> , 2008, 283, 1492-1500.	3.4	46
46	Structure of a Glycosylphosphatidylinositol-anchored Domain from a Trypanosome Variant Surface Glycoprotein. <i>Journal of Biological Chemistry</i> , 2008, 283, 3584-3593.	3.4	29
47	3P-051 Applications of nonlinear sampling scheme to four dimensional triple resonance NMR spectroscopy(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008, 48, S135.	0.1	0
48	1P060 Applications of nonlinear sampling scheme for four dimensional triple resonance NMR spectroscopy(Proteins-methodology,Poster Presentations). <i>Seibutsu Butsuri</i> , 2007, 47, S38.	0.1	0
49	1H, 13C, and 15N resonance assignments for the small G protein RalB in its active conformation. <i>Biomolecular NMR Assignments</i> , 2007, 1, 147-149.	0.8	7
50	NMR assignment of human chemerin, a novel chemoattractant. <i>Biomolecular NMR Assignments</i> , 2007, 1, 171-173.	0.8	18
51	Rapid Synthesis of a Register-specific Heterotrimeric Type I Collagen Helix Encompassing the Integrin $\alpha 2 \beta 1$ Binding Site. <i>Journal of Molecular Biology</i> , 2006, 359, 289-298.	4.2	22
52	The Vinculin Binding Sites of Talin and β -Actinin Are Sufficient to Activate Vinculin. <i>Journal of Biological Chemistry</i> , 2006, 281, 7228-7236.	3.4	118
53	Suppression of anti-TROSY lines in a sensitivity enhanced gradient selection TROSY scheme. <i>Journal of Biomolecular NMR</i> , 2005, 31, 161-166.	2.8	69
54	Backbone 1H, 13C, and 15 E. coli nickel binding protein NikA. <i>Journal of Biomolecular NMR</i> , 2005, 32, 177-177.	2.8	3

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55	Structure of the C-terminal Domain from <i>Trypanosoma brucei</i> Variant Surface Glycoprotein MITat1.2. <i>Journal of Biological Chemistry</i> , 2005, 280, 7228-7235.	3.4	42
56	Structure of the Chromo Barrel Domain from the MOF Acetyltransferase. <i>Journal of Biological Chemistry</i> , 2005, 280, 32326-32331.	3.4	49
57	Solution Structure and Backbone Dynamics of the KH-QUA2 Region of the <i>Xenopus</i> STAR/GSG Quaking Protein. <i>Journal of Molecular Biology</i> , 2005, 348, 265-279.	4.2	29
58	Structural Analysis of the SH3 Domain of \hat{I}^2 -PIX and Its Interaction with \hat{I}^{\pm} -p21 Activated Kinase (PAK) $\hat{a}\epsilon, \hat{a}\epsilon_j$. <i>Biochemistry</i> , 2005, 44, 10977-10983.	2.5	32
59	Structure of the Sterile \hat{I}^{\pm} Motif (SAM) Domain of the <i>Saccharomyces cerevisiae</i> Mitogen-activated Protein Kinase Pathway-modulating Protein STE50 and Analysis of Its Interaction with the STE11 SAM. <i>Journal of Biological Chemistry</i> , 2004, 279, 2192-2201.	3.4	42
60	Structural basis of HP1/PXVXL motif peptide interactions and HP1 localisation to heterochromatin. <i>EMBO Journal</i> , 2004, 23, 489-499.	7.8	247
61	Letter to the Editor: Backbone $^1H, ^{13}C$, and ^{15}N Assignments of a 42 kDa RecR Homodimer. <i>Journal of Biomolecular NMR</i> , 2004, 28, 199-200.	2.8	4
62	A Selective Intra-HN(CA)CO Experiment for the Backbone Assignment of Deuterated Proteins. <i>Journal of Biomolecular NMR</i> , 2004, 28, 131-136.	2.8	12
63	Ultra-high resolution 3D NMR spectra from limited-size data sets. <i>Journal of Magnetic Resonance</i> , 2004, 169, 215-224.	2.1	21
64	Structure Determination of Protein Complexes by NMR. , 2004, 278, 255-288.		11
65	A novel method for the biosynthesis of deuterated proteins with selective protonation at the aromatic rings of Phe, Tyr and Trp. <i>Journal of Biomolecular NMR</i> , 2003, 27, 81-86.	2.8	32
66	$^1H, ^{13}C$ and ^{15}N resonance assignments and secondary structure of the human protein tyrosine phosphatase, PRL-2. <i>Journal of Biomolecular NMR</i> , 2003, 27, 397-398.	2.8	16
67	The Structure of Docking Domains in Modular Polyketide Synthases. <i>Chemistry and Biology</i> , 2003, 10, 723-731.	6.0	185
68	Structure of the GTPase-binding Domain of Sec5 and Elucidation of its Ral Binding Site. <i>Journal of Biological Chemistry</i> , 2003, 278, 17053-17059.	3.4	31
69	Molecular Dissection of the Interaction between the Small G Proteins Rac1 and RhoA and Protein Kinase C-related Kinase 1 (PRK1). <i>Journal of Biological Chemistry</i> , 2003, 278, 50578-50587.	3.4	49
70	Mechanistic Aspects of the Covalent Flavoprotein Dimethylglycine Oxidase of <i>Arthrobacter globiformis</i> Studied by Stopped-Flow Spectrophotometry. <i>Biochemistry</i> , 2002, 41, 4733-4743.	2.5	16
71	A Novel Approach for the Sequential Backbone Assignment of Larger Proteins: \hat{A} Selective Intra-HNCA and DQ-HNCA. <i>Journal of the American Chemical Society</i> , 2002, 124, 11199-11207.	13.7	45
72	Structure of the HP1 chromodomain bound to histone H3 methylated at lysine 9. <i>Nature</i> , 2002, 416, 103-107.	27.8	594

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73	Ca ²⁺ -independent binding of an EF-hand domain to a novel motif in the alpha-actinin-titin complex. <i>Nature Structural Biology</i> , 2001, 8, 853-857.	9.7	76
74	Structure of Cdc42 bound to the GTPase binding domain of PAK. <i>Nature Structural Biology</i> , 2000, 7, 384-388.	9.7	168
75	Structure of the small G protein Cdc42 bound to the GTPase-binding domain of ACK. <i>Nature</i> , 1999, 399, 384-388.	27.8	172
76	An Approach to the Structure Determination of Larger Proteins Using Triple Resonance NMR Experiments in Conjunction with Random Fractional Deuteration. <i>Journal of the American Chemical Society</i> , 1996, 118, 407-415.	13.7	114
77	An approach to global fold determination using limited NMR data from larger proteins selectively protonated at specific residue types. <i>Journal of Biomolecular NMR</i> , 1996, 8, 360-368.	2.8	56
78	A Comparative Study of the Reactivity of Mn(no) ₂ L ₂ H and Mn(CO) ₃ L ₂ H Complexes (L = Phosphorus Donor). <i>Chemische Berichte</i> , 1994, 127, 2403-2415.	0.2	33
79	Insertion Reactions of [ReH(CO) ₅ -n(PMe ₃) _n] Complexes (n = 2-4) with aldehydes, CO ₂ , and activated acetylenes. <i>Helvetica Chimica Acta</i> , 1994, 77, 2197-2208.	1.6	29
80	Deuterium quadrupole coupling constants and ionic bond character in transition metal hydride complexes from ² H NMR T ₁ relaxation data in solution. <i>Journal of the American Chemical Society</i> , 1993, 115, 9191-9195.	13.7	49
81	Structure and solution behavior of a series of classical and nonclassical rhenium hydride complexes. <i>Inorganic Chemistry</i> , 1993, 32, 3628-3636.	4.0	57
82	Synthesis and NMR T ₁ relaxation study of rhenium and manganese hydride complexes. <i>Inorganic Chemistry</i> , 1993, 32, 3270-3276.	4.0	54
83	Chapter 10. Compressed Sensing \hat{a} , "1-Norm Minimisation in Multidimensional NMR Spectroscopy. <i>New Developments in NMR</i> , 0, , 267-303.	0.1	1