## Daniel Nietlispach

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9271461/publications.pdf

Version: 2024-02-01

109321 114465 4,196 83 35 citations h-index papers

g-index 89 89 89 4979 docs citations times ranked citing authors all docs

63

#	Article	IF	CITATIONS
1	Structure of the HP1 chromodomain bound to histone H3 methylated at lysine 9. Nature, 2002, 416, 103-107.	27.8	594
2	Structural basis of HP1/PXVXL motif peptide interactions and HP1 localisation to heterochromatin. EMBO Journal, 2004, 23, 489-499.	7.8	247
3	Fast Multidimensional NMR Spectroscopy Using Compressed Sensing. Angewandte Chemie - International Edition, 2011, 50, 6548-6551.	13.8	241
4	Structure determination of the seven-helix transmembrane receptor sensory rhodopsin II by solution NMR spectroscopy. Nature Structural and Molecular Biology, 2010, 17, 768-774.	8.2	198
5	The Structure of Docking Domains in Modular Polyketide Synthases. Chemistry and Biology, 2003, 10, 723-731.	6.0	185
6	Structure of the small G protein Cdc42 bound to the GTPase-binding domain of ACK. Nature, 1999, 399, 384-388.	27.8	172
7	Structure of Cdc42 bound to the GTPase binding domain of PAK. Nature Structural Biology, 2000, 7, 384-388.	9.7	168
8	Detergent-free mass spectrometry of membrane protein complexes. Nature Methods, 2013, 10, 1206-1208.	19.0	152
9	The Vinculin Binding Sites of Talin and $\hat{l}_{\pm}$ -Actinin Are Sufficient to Activate Vinculin. Journal of Biological Chemistry, 2006, 281, 7228-7236.	3.4	118
10	An Approach to the Structure Determination of Larger Proteins Using Triple Resonance NMR Experiments in Conjunction with Random Fractional Deuteration. Journal of the American Chemical Society, 1996, 118, 407-415.	13.7	114
11	Insight into partial agonism by observing multiple equilibria for ligand-bound and Gs-mimetic nanobody-bound $\hat{l}^21$ -adrenergic receptor. Nature Communications, 2017, 8, 1795.	12.8	92
12	Multienzyme docking in hybrid megasynthetases. Nature Chemical Biology, 2008, 4, 75-81.	8.0	80
13	Ca2+-independent binding of an EF-hand domain to a novel motif in the alpha-actinin-titin complex. Nature Structural Biology, 2001, 8, 853-857.	9.7	76
14	Suppression of anti-TROSY lines in a sensitivity enhanced gradient selection TROSY scheme. Journal of Biomolecular NMR, 2005, 31, 161-166.	2.8	69
15	Conformational plasticity of ligand-bound and ternary GPCR complexes studied by 19F NMR of the $\hat{l}^21$ -adrenergic receptor. Nature Communications, 2020, 11, 669.	12.8	67
16	Solutionâ€State NMR Spectroscopy of a Sevenâ€Helix Transmembrane Protein Receptor: Backbone Assignment, Secondary Structure, and Dynamics. Angewandte Chemie - International Edition, 2008, 47, 7297-7300.	13.8	62
17	Structure and solution behavior of a series of classical and nonclassical rhenium hydride complexes. Inorganic Chemistry, 1993, 32, 3628-3636.	4.0	57
18	An approach to global fold determination using limited NMR data from larger proteins selectively protonated at specific residue types. Journal of Biomolecular NMR, 1996, 8, 360-368.	2.8	56

#	Article	IF	CITATION
19	Local Cooperativity in an Amyloidogenic State of Human Lysozyme Observed at Atomic Resolution. Journal of the American Chemical Society, 2010, 132, 15580-15588.	13.7	55
20	Synthesis and NMR T1 relaxation study of rhenium and manganese hydride complexes. Inorganic Chemistry, 1993, 32, 3270-3276.	4.0	54
21	Compressed sensing reconstruction of undersampled 3D NOESY spectra: application to large membrane proteins. Journal of Biomolecular NMR, 2012, 54, 15-32.	2.8	51
22	Deuterium quadrupole coupling constants and ionic bond character in transition metal hydride complexes from 2H NMR T1 relaxation data in solution. Journal of the American Chemical Society, 1993, 115, 9191-9195.	13.7	49
23	Molecular Dissection of the Interaction between the Small G Proteins Rac1 and RhoA and Protein Kinase C-related Kinase 1 (PRK1). Journal of Biological Chemistry, 2003, 278, 50578-50587.	3.4	49
24	Structure of the Chromo Barrel Domain from the MOF Acetyltransferase. Journal of Biological Chemistry, 2005, 280, 32326-32331.	3.4	49
25	The Rac1 Polybasic Region Is Required for Interaction with Its Effector PRK1. Journal of Biological Chemistry, 2008, 283, 1492-1500.	3.4	46
26	NMR Analysis of the Structure, Dynamics, and Unique Oligomerization Properties of the Chemokine CCL27. Journal of Biological Chemistry, 2010, 285, 14424-14437.	3.4	46
27	A Novel Approach for the Sequential Backbone Assignment of Larger Proteins:Â Selective Intra-HNCA and DQ-HNCA. Journal of the American Chemical Society, 2002, 124, 11199-11207.	13.7	45
28	Solution NMR studies of polytopic $\hat{l}_{\pm}$ -helical membrane proteins. Current Opinion in Structural Biology, 2011, 21, 497-508.	5.7	43
29	The role of NMR spectroscopy in mapping the conformational landscape of GPCRs. Current Opinion in Structural Biology, 2019, 57, 145-156.	5.7	43
30	Structure of the Sterile $\hat{l}\pm$ Motif (SAM) Domain of the Saccharomyces cerevisiae Mitogen-activated Protein Kinase Pathway-modulating Protein STE50 and Analysis of Its Interaction with the STE11 SAM. Journal of Biological Chemistry, 2004, 279, 2192-2201.	3.4	42
31	Structure of the C-terminal Domain from Trypanosoma brucei Variant Surface Glycoprotein MITat1.2. Journal of Biological Chemistry, 2005, 280, 7228-7235.	3.4	42
32	NMR protein structure determination in living E. coli cells using nonlinear sampling. Nature Protocols, 2010, 5, 1051-1060.	12.0	42
33	Solution Structure and Dynamics of the Small GTPase RalB in Its Active Conformation: Significance for Effector Protein Binding. Biochemistry, 2009, 48, 2192-2206.	2.5	41
34	The RalB-RLIP76 Complex Reveals a Novel Mode of Ral-Effector Interaction. Structure, 2010, 18, 985-995.	3.3	40
35	Structure and Dynamics of GPCRs in Lipid Membranes: Physical Principles and Experimental Approaches. Molecules, 2020, 25, 4729.	3.8	38
36	The Sodium Channel $\hat{I}^2$ 3-Subunit Induces Multiphasic Gating in NaV1.3 and Affects Fast Inactivation via Distinct Intracellular Regions. Journal of Biological Chemistry, 2010, 285, 33404-33412.	3.4	34

#	Article	IF	CITATIONS
37	An Adaptable Phospholipid Membrane Mimetic System for Solution NMR Studies of Membrane Proteins. Journal of the American Chemical Society, 2017, 139, 14829-14832.	13.7	34
38	A Comparative Study of the Reactivity of Mn(no) <sub>2</sub> L <sub>2</sub> H and Mn(CO) <sub>3</sub> L <sub>2</sub> H Complexes (L = Phosphorus Donor). Chemische Berichte, 1994, 127, 2403-2415.	0.2	33
39	A novel method for the biosynthesis of deuterated proteins with selective protonation at the aromatic rings of Phe, Tyr and Trp. Journal of Biomolecular NMR, 2003, 27, 81-86.	2.8	32
40	Structural Analysis of the SH3 Domain of β-PIX and Its Interaction with α-p21 Activated Kinase (PAK)â€,‡. Biochemistry, 2005, 44, 10977-10983.	2.5	32
41	Structure of the GTPase-binding Domain of Sec5 and Elucidation of its Ral Binding Site. Journal of Biological Chemistry, 2003, 278, 17053-17059.	3.4	31
42	Integral membrane protein structure determination using pseudocontact shifts. Journal of Biomolecular NMR, 2015, 61, 197-207.	2.8	30
43	Insertion Reactions of [ReH(CO)5-n(PMe3)n] Complexes (n = 2-4) with aldehydes, CO2, and activated acetylenes. Helvetica Chimica Acta, 1994, 77, 2197-2208.	1.6	29
44	Solution Structure and Backbone Dynamics of the KH-QUA2 Region of the Xenopus STAR/GSG Quaking Protein. Journal of Molecular Biology, 2005, 348, 265-279.	4.2	29
45	Structure of a Glycosylphosphatidylinositol-anchored Domain from a Trypanosome Variant Surface Glycoprotein. Journal of Biological Chemistry, 2008, 283, 3584-3593.	3.4	29
46	Investigation of the Interaction between Cdc42 and Its Effector TOCA1. Journal of Biological Chemistry, 2016, 291, 13875-13890.	3.4	27
47	Rapid Synthesis of a Register-specific Heterotrimeric Type I Collagen Helix Encompassing the Integrin $\hat{1}\pm2\hat{1}^21$ Binding Site. Journal of Molecular Biology, 2006, 359, 289-298.	4.2	22
48	Ultra-high resolution 3D NMR spectra from limited-size data sets. Journal of Magnetic Resonance, 2004, 169, 215-224.	2.1	21
49	Investigations into Protein Crystallization in the Presence of a Strong Magnetic Field. Crystal Growth and Design, 2010, 10, 691-699.	3.0	21
50	Compressed sensing: Reconstruction of nonâ€uniformly sampled multidimensional NMR data. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2017, 46A, .	0.5	20
51	Sticky swinging arm dynamics: studies of an acyl carrier protein domain from the mycolactone polyketide synthase. Biochemical Journal, 2016, 473, 1097-1110.	3.7	19
52	NMR assignment of human chemerin, a novel chemoattractant. Biomolecular NMR Assignments, 2007, $1$ , $171-173$ .	0.8	18
53	Mechanistic Aspects of the Covalent Flavoprotein Dimethylglycine Oxidase of Arthrobacter globiformis Studied by Stopped-Flow Spectrophotometry. Biochemistry, 2002, 41, 4733-4743.	2.5	16
54	1H, 13C and 15N resonance assignments and secondary structure of the human protein tyrosine phosphatase, PRL-2. Journal of Biomolecular NMR, 2003, 27, 397-398.	2.8	16

#	Article	IF	CITATIONS
55	Improving resolution in multidimensional NMR using random quadrature detection with compressed sensing reconstruction. Journal of Biomolecular NMR, 2017, 68, 67-77.	2.8	13
56	A Selective Intra-HN(CA)CO Experiment for the Backbone Assignment of Deuterated Proteins. Journal of Biomolecular NMR, 2004, 28, 131-136.	2.8	12
57	Structure Determination of Protein Complexes by NMR. , 2004, 278, 255-288.		11
58	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. Structure, 2013, 21, 2131-2142.	3.3	10
59	The Structure of Binder of Arl2 (BART) Reveals a Novel G Protein Binding Domain. Journal of Biological Chemistry, 2009, 284, 992-999.	3.4	9
60	1H, 13C, and 15N resonance assignments for the small G protein RalB in its active conformation. Biomolecular NMR Assignments, 2007, 1, 147-149.	0.8	7
61	NMR backbone resonance assignment and solution secondary structure determination of human NSD1 and NSD2. Biomolecular NMR Assignments, 2016, 10, 315-320.	0.8	7
62	NUScon: a community-driven platform for quantitative evaluation of nonuniform sampling in NMR. Magnetic Resonance, 2021, 2, 843-861.	1.9	7
63	Solution NMR Studies of Integral Polytopic α-Helical Membrane Proteins: The Structure Determination of the Seven-Helix Transmembrane Receptor Sensory Rhodopsin II, pSRII. Methods in Molecular Biology, 2012, 914, 25-45.	0.9	6
64	In support of the BMRB. Nature Structural and Molecular Biology, 2012, 19, 854-860.	8.2	6
65	Letter to the Editor: Backbone1H,13C, and15N Assignments of a 42ÂkDa RecR Homodimer. Journal of Biomolecular NMR, 2004, 28, 199-200.	2.8	4
66	Characterization of Denatured States and Reversible Unfolding of Sensory Rhodopsin II. Journal of Molecular Biology, 2018, 430, 4068-4086.	4.2	4
67	Structural and Functional Consequences of the Weak Binding of Chlorin e6 to Bovine Rhodopsin. Photochemistry and Photobiology, 2019, 95, 787-802.	2.5	4
68	Backbone 1H, 13C, and 15 E. coli nickel binding protein NikA. Journal of Biomolecular NMR, 2005, 32, 177-177.	2.8	3
69	1H, 13C and 15N resonance assignments for the active conformation of the small G protein RalB in complex with its effector RLIP76. Biomolecular NMR Assignments, 2008, 2, 179-182.	0.8	3
70	Resonance assignments for the RLIP76 Ral binding domain in its free form and in complex with the small G protein RalB. Biomolecular NMR Assignments, 2008, 2, 191-194.	0.8	3
71	1H, 13C and 15N resonance assignments of the GTPase-activating (GAP) and Ral binding domains (GBD) of RLIP76 (RalBP1). Biomolecular NMR Assignments, 2012, 6, 119-122.	0.8	3
72	1H, 15N and 13C backbone assignments of GDP-bound human H-Ras mutant G12V. Biomolecular NMR Assignments, 2016, 10, 121-123.	0.8	3

#	Article	IF	CITATIONS
73	Characterisation of denatured states of sensory rhodopsin II by solution-state NMR. Journal of Molecular Biology, 2019, 431, 2790-2809.	4.2	2
74	Time-domain signal modelling in multidimensional NMR experiments for estimation of relaxation parameters. Journal of Biomolecular NMR, 2019, 73, 93-104.	2.8	2
75	1H, 13C and 15N resonance assignments for Binder of Arl2, BART. Biomolecular NMR Assignments, 2009, 3, 33-36.	0.8	1
76	1H, 13C and 15N resonance assignments of the Cdc42-binding domain of TOCA1. Biomolecular NMR Assignments, 2016, 10, 407-411.	0.8	1
77	A generalized approach for NMR studies of lipid–protein interactions based on sparse fluorination of acyl chains. Chemical Communications, 2018, 54, 7306-7309.	4.1	1
78	Chapter 10. Compressed Sensing â, "1-Norm Minimisation in Multidimensional NMR Spectroscopy. New Developments in NMR, 0, , 267-303.	0.1	1
79	1P060 Applications of nonlinear sampling scheme for four dimensional triple resonance NMR spectroscopy(Proteins-methodology,Poster Presentations). Seibutsu Butsuri, 2007, 47, S38.	0.1	0
80	Inside Cover: Solution-State NMR Spectroscopy of a Seven-Helix Transmembrane Protein Receptor: Backbone Assignment, Secondary Structure, and Dynamics (Angew. Chem. Int. Ed. 38/2008). Angewandte Chemie - International Edition, 2008, 47, 7142-7142.	13.8	0
81	Innentitelbild: Solution-State NMR Spectroscopy of a Seven-Helix Transmembrane Protein Receptor: Backbone Assignment, Secondary Structure, and Dynamics (Angew. Chem. 38/2008). Angewandte Chemie, 2008, 120, 7252-7252.	2.0	0
82	3P-051 Applications of nonlinear sampling scheme to four dimensional triple resonance NMR spectroscopy(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S135.	0.1	0
83	Application of random coherence order selection in gradient-enhanced multidimensional NMR. Journal of Physics: Conference Series, 2016, 699, 012004.	0.4	0