

Robert Konrat

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

1,566

citations

21

h-index

37

g-index

91

ext. papers

1,846

ext. citations

5

avg, IF

4.93

L-index

#	Paper	IF	Citations
82	BEST-TROSY experiments for time-efficient sequential resonance assignment of large disordered proteins. <i>Journal of Biomolecular NMR</i> , 2013 , 55, 311-21	3	141
81	NMR contributions to structural dynamics studies of intrinsically disordered proteins. <i>Journal of Magnetic Resonance</i> , 2014 , 241, 74-85	3	122
80	A Multidimensional NMR Experiment for Measurement of the Protein Dihedral Angle ϕ Based on Cross-Correlated Relaxation between ^1H - ^{13}C Dipolar and ^{13}C (Carbonyl) Chemical Shift Anisotropy Mechanisms. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11938-11940	16.4	91
79	An (H)C(CO)NH-TOCSY pulse scheme for sequential assignment of protonated methyl groups in otherwise deuterated (^{15}N , ^{13}C)-labeled proteins. <i>Journal of Biomolecular NMR</i> , 1996 , 8, 351-6	3	85
78	Structure, function, and dynamics of the dimerization and DNA-binding domain of oncogenic transcription factor v-Myc. <i>Journal of Molecular Biology</i> , 2001 , 307, 1395-410	6.5	83
77	Differential multiple-quantum relaxation arising from cross-correlated time-modulation of isotropic chemical shifts. <i>Journal of Biomolecular NMR</i> , 2000 , 18, 33-42	3	71
76	Cooperative unfolding of compact conformations of the intrinsically disordered protein osteopontin. <i>Biochemistry</i> , 2013 , 52, 5167-75	3.2	61
75	The metastasis-associated extracellular matrix protein osteopontin forms transient structure in ligand interaction sites. <i>Biochemistry</i> , 2011 , 50, 6113-24	3.2	56
74	A 4D TROSY-based pulse scheme for correlating ^1H Ni, ^{15}N i, ^{13}C alpha, ^{13}C T-1 chemical shifts in high molecular weight, ^{15}N , ^{13}C , ^2H labeled proteins. <i>Journal of Biomolecular NMR</i> , 1999 , 15, 309-13	3	44
73	Compensatory adaptations of structural dynamics in an intrinsically disordered protein complex. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3840-3	16.4	43
72	The protein meta-structure: a novel concept for chemical and molecular biology. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 3625-39	10.3	41
71	Excited States of Nucleic Acids Probed by Proton Relaxation Dispersion NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12008-12	16.4	39
70	Investigation of Intrinsically Disordered Proteins through Exchange with Hyperpolarized Water. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 389-392	16.4	36
69	The Ambivalent Role of Proline Residues in an Intrinsically Disordered Protein: From Disorder Promoters to Compaction Facilitators. <i>Journal of Molecular Biology</i> , 2020 , 432, 3093-3111	6.5	35
68	Pulse schemes for the measurement of $^3\text{J}_{\text{CT}}\gamma$ and $^3\text{J}_{\text{NC}}\gamma$ scalar couplings in ^{15}N , ^{13}C uniformly labeled proteins. <i>Journal of Biomolecular NMR</i> , 1997 , 9, 409-22	3	32
67	Automated NMR determination of protein backbone dihedral angles from cross-correlated spin relaxation. <i>Journal of Biomolecular NMR</i> , 2002 , 22, 349-63	3	30
66	Structure and intramodular dynamics of the amino-terminal LIM domain from quail cysteine- and glycine-rich protein CRP2. <i>Biochemistry</i> , 1998 , 37, 7127-34	3.2	29

65	β-Ketoacids as precursors for phenylalanine and tyrosine labelling in cell-based protein overexpression. <i>Journal of Biomolecular NMR</i> , 2013 , 57, 327-31	3	27
64	Biochemical and Structural Characterization of the Interaction between the Siderocalin NGAL/LCN2 (Neutrophil Gelatinase-associated Lipocalin/Lipocalin 2) and the N-terminal Domain of Its Endocytic Receptor SLC22A17. <i>Journal of Biological Chemistry</i> , 2016 , 291, 2917-30	5.4	25
63	Structure and dynamics of the B12-binding subunit of glutamate mutase from <i>Clostridium cochlearium</i> . <i>FEBS Journal</i> , 1999 , 263, 178-88		23
62	Direct NMR Probing of Hydration Shells of Protein Ligand Interfaces and Its Application to Drug Design. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 8708-8715	8.3	22
61	Measurement of the protein backbone dihedral angle phi based on quantification of remote CSA/DD interference in inter-residue ¹³ C(i - 1)- ¹³ C(alpha(i)) multiple-quantum coherences. <i>Journal of Biomolecular NMR</i> , 2000 , 17, 265-8	3	21
60	Simultaneous measurement of intra- and intermolecular NOEs in differentially labeled protein-ligand complexes. <i>Journal of Biomolecular NMR</i> , 2001 , 21, 107-16	3	19
59	Relative Orientation of Peptide Planes in Proteins Is Reflected in Carbonyl-Carbonyl Chemical Shift Anisotropy Cross-Correlated Spin Relaxation. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7059-7071	16.4	19
58	Modulation of Correlated Segment Fluctuations in IDPs upon Complex Formation as an Allosteric Regulatory Mechanism. <i>Journal of Molecular Biology</i> , 2018 , 430, 2439-2452	6.5	18
57	Peptide Plane Torsion Angles in Proteins through Intraresidue ¹ H- ¹⁵ N- ¹³ C Dipole-Dipole Relaxation Interference: Facile Discrimination between Type-I and Type-II β-Turns. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12033-12034	16.4	17
56	The Structure of Methylcob(III)alamin in Aqueous Solution: A Water Molecule as Structuring Element of the Nucleotide Loop. <i>Helvetica Chimica Acta</i> , 1999 , 82, 1596-1609	2	17
55	NMR Characterization of Long-Range Contacts in Intrinsically Disordered Proteins from Paramagnetic Relaxation Enhancement in C Direct-Detection Experiments. <i>ChemBioChem</i> , 2019 , 20, 3353-339	3.8	17
54	Selective targeting of 3 repeat Tau with brain penetrating single chain antibodies for the treatment of neurodegenerative disorders. <i>Acta Neuropathologica</i> , 2018 , 136, 69-87	14.3	16
53	NMR Spectroscopic Studies of the Conformational Ensembles of Intrinsically Disordered Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 870, 149-85	3.6	15
52	Mapping the ligand binding site at protein side-chains in protein-ligand complexes through NOE difference spectroscopy. <i>Journal of Biomolecular NMR</i> , 2001 , 20, 195-202	3	15
51	NMR probing and visualization of correlated structural fluctuations in intrinsically disordered proteins. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10651-10656	3.6	14
50	The meandering of disordered proteins in conformational space. <i>Structure</i> , 2010 , 18, 416-9	5.2	13
49	NMR Techniques to Study Hydrogen Bonding in Aqueous Solution. <i>Monatshefte für Chemie</i> , 1999 , 130, 961-982	1.4	12
48	Calcium-dependent binding of Myc to calmodulin. <i>Oncotarget</i> , 2017 , 8, 3327-3343	3.3	12

47	PI by NMR: Probing CH-Interactions in Protein-Ligand Complexes by NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14861-14868	16.4	11
46	A histone-mimicking interdomain linker in a multidomain protein modulates multivalent histone binding. <i>Journal of Biological Chemistry</i> , 2017 , 292, 17643-17657	5.4	11
45	Meta-structure correlation in protein space unveils different selection rules for folded and intrinsically disordered proteins. <i>Molecular BioSystems</i> , 2012 , 8, 411-6		11
44	Heteronuclear relaxation in time-dependent spin systems: (15)N-T1 (rho) dispersion during adiabatic fast passage. <i>Journal of Biomolecular NMR</i> , 1999 , 13, 213-21	3	11
43	Osteopontin regulates biomimetic calcium phosphate crystallization from disordered mineral layers covering apatite crystallites. <i>Scientific Reports</i> , 2020 , 10, 15722	4.9	11
42	Kompensatorische Anpassungen der strukturellen Dynamik eines intrinsisch unstrukturierten Protein-Komplexes. <i>Angewandte Chemie</i> , 2014 , 126, 3919-3922	3.6	10
41	Backbone assignment of osteopontin, a cytokine and cell attachment protein implicated in tumorigenesis. <i>Biomolecular NMR Assignments</i> , 2008 , 2, 29-31	0.7	9
40	NMR Characterization of Surface Receptor Protein Interactions in Live Cells Using Methylcellulose Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3886-3890	16.4	8
39	F NMR Spectroscopy Tagging and Paramagnetic Relaxation Enhancement-Based Conformation Analysis of Intrinsically Disordered Protein Complexes. <i>ChemBioChem</i> , 2020 , 21, 696-701	3.8	8
38	Excited States of Nucleic Acids Probed by Proton Relaxation Dispersion NMR Spectroscopy. <i>Angewandte Chemie</i> , 2016 , 128, 12187-12191	3.6	7
37	Five and four dimensional experiments for robust backbone resonance assignment of large intrinsically disordered proteins: application to Tau3x protein. <i>Journal of Biomolecular NMR</i> , 2016 , 65, 193-203	3	7
36	¹ H, ¹⁵ N, ¹³ C resonance assignment of human GAP-43. <i>Biomolecular NMR Assignments</i> , 2016 , 10, 171-4	0.7	7
35	Anthranilic acid, the new player in the ensemble of aromatic residue labeling precursor compounds. <i>Journal of Biomolecular NMR</i> , 2017 , 69, 13-22	3	7
34	Late metabolic precursors for selective aromatic residue labeling. <i>Journal of Biomolecular NMR</i> , 2018 , 71, 129-140	3	7
33	Highly Selective Stable Isotope Labeling of Histidine Residues by Using a Novel Precursor in E. coli-Based Overexpression Systems. <i>ChemBioChem</i> , 2017 , 18, 1487-1491	3.8	6
32	H, C, N resonance assignment of human YAP 50-171 fragment. <i>Biomolecular NMR Assignments</i> , 2018 , 12, 179-182	0.7	6
31	Backbone assignment of the dimerization and DNA-binding domain of the oncogenic transcription factor v-Myc in complex with its authentic binding partner Max. <i>Journal of Biomolecular NMR</i> , 2004 , 30, 361-2	3	6
30	(¹ H, ¹⁵ N, ¹³ C) resonance assignment of human osteopontin. <i>Biomolecular NMR Assignments</i> , 2015 , 9, 289-92	0.7	5

29	Untersuchung von intrinsisch unstrukturierten Proteinen mithilfe des Austausches mit hyperpolarisiertem Wasser. <i>Angewandte Chemie</i> , 2017 , 129, 397-401	3.6	5
28	PI by NMR: Probing CH π Interactions in Protein-Ligand Complexes by NMR Spectroscopy. <i>Angewandte Chemie</i> , 2020 , 132, 14971-14978	3.6	5
27	IDPs: Less Disordered and More Ordered than Expected. <i>Biophysical Journal</i> , 2015 , 109, 1309-11	2.9	4
26	Sequence-specific resonance assignments of Q83, a lipocalin highly expressed in v-myc-transformed avian fibroblasts. <i>Journal of Biomolecular NMR</i> , 2000 , 17, 177-8	3	4
25	A novel high-dimensional NMR experiment for resolving protein backbone dihedral angle ambiguities. <i>Journal of Biomolecular NMR</i> , 2020 , 74, 257-265	3	3
24	New NMR Structural and Dynamical Probes of Organometallic B12 Derivatives 2007 , 349-368		3
23	The Anti-histamine Azelastine, Identified by Computational Drug Repurposing, Inhibits SARS-CoV-2 Infection in Reconstituted Human Nasal Tissue In Vitro		3
22	NMR Characterization of Surface Receptor Protein Interactions in Live Cells Using Methylcellulose Hydrogels. <i>Angewandte Chemie</i> , 2020 , 132, 3914-3918	3.6	3
21	Molecular basis of F-actin regulation and sarcomere assembly via myotilin. <i>PLoS Biology</i> , 2021 , 19, e3001448	4.8	3
20	N-Lauroylation during the Expression of Recombinant N-Myristoylated Proteins: Implications and Solutions. <i>ChemBioChem</i> , 2016 , 17, 82-9	3.8	3
19	Using Cross-Correlated Spin Relaxation to Characterize Backbone Dihedral Angle Distributions of Flexible Protein Segments. <i>ChemPhysChem</i> , 2021 , 22, 18-28	3.2	3
18	Binding of the protein ICLn to Integrin contributes to the activation of ICL current. <i>Scientific Reports</i> , 2019 , 9, 12195	4.9	2
17	Sensitivity-enhanced three-dimensional and carbon-detected two-dimensional NMR of proteins using hyperpolarized water. <i>Journal of Biomolecular NMR</i> , 2020 , 74, 161-171	3	2
16	Strategies for purifying variants of human rhinovirus 14 2C protein. <i>Protein Expression and Purification</i> , 2014 , 95, 28-37	2	2
15	Hyperphosphorylation of Human Osteopontin and Its Impact on Structural Dynamics and Molecular Recognition. <i>Biochemistry</i> , 2021 , 60, 1347-1355	3.2	2
14	Binding Mode Characterization of Osteopontin on Hydroxyapatite by Solution NMR Spectroscopy. <i>ChemBioChem</i> , 2021 , 22, 2300-2305	3.8	2
13	Membrane Interactions of Synuclein Revealed by Multiscale Molecular Dynamics Simulations, Markov State Models, and NMR. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 2929-2941	3.4	1
12	Cosolute modulation of protein oligomerization reactions in the homeostatic timescale. <i>Biophysical Journal</i> , 2021 , 120, 2067-2077	2.9	1

11	Order from disorder in the sarcomere: FATZ forms a fuzzy but tight complex and phase-separated condensates with β -actinin. <i>Science Advances</i> , 2021 , 7,	14.3	1
10	On-Cell NMR Contributions to Membrane Receptor Binding Characterization. <i>ChemPlusChem</i> , 2021 , 86, 938-945	2.8	1
9	Temperature as an Extra Dimension in Multidimensional Protein NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2021 , 27, 1753-1767	4.8	1
8	F multiple-quantum coherence NMR spectroscopy for probing protein-ligand interactions.. <i>RSC Advances</i> , 2018 , 8, 40687-40692	3.7	1
7	Detecting anisotropic segmental dynamics in disordered proteins by cross-correlated spin relaxation. <i>Magnetic Resonance</i> , 2021 , 2, 557-569	2.9	1
6	Titelbild: PI by NMR: Probing CH-Interactions in Protein-Ligand Complexes by NMR Spectroscopy (Angew. Chem. 35/2020). <i>Angewandte Chemie</i> , 2020 , 132, 14805-14805	3.6	0
5	A Step toward NRF2-DNA Interaction Inhibitors by Fragment-Based NMR Methods. <i>ChemMedChem</i> , 2021 , 16, 3576-3587	3.7	0
4	Long-range structural preformation in yes-associated protein precedes encounter complex formation with TEAD.. <i>IScience</i> , 2022 , 25, 104099	6.1	0
3	Probing Local Backbone Geometries in Intrinsically Disordered Proteins by Cross-Correlated NMR Relaxation. <i>Angewandte Chemie</i> , 2013 , 125, 4702-4704	3.6	
2	Relaxation-Induced Polarization Transfer and the Determination of Methyl Group ^{13}C Chemical Shielding Anisotropy. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 5253-5258	2.8	
1	H, N, C resonance assignment of the human CD44 cytoplasmic tail (669-742). <i>Biomolecular NMR Assignments</i> , 2019 , 13, 109-113	0.7	