

# Harald J Schwalbe

## List of Publications by Year in descending order

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473  
papers

18,862  
citations

13068

68  
h-index

22764

112  
g-index

551  
all docs

551  
docs citations

551  
times ranked

17067  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Range Interactions Within a Nonnative Protein. <i>Science</i> , 2002, 295, 1719-1722.	6.0	600
2	NMR Spectroscopy of RNA. <i>ChemBioChem</i> , 2003, 4, 936-962.	1.3	428
3	Analysis of Main Chain Torsion Angles in Proteins: Prediction of NMR Coupling Constants for Native and Random Coil Conformations. <i>Journal of Molecular Biology</i> , 1996, 255, 494-506.	2.0	379
4	Perspectives on NMR in drug discovery: a technique comes of age. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 738-745.	21.5	373
5	Mechanistic insight from the crystal structure of mitochondrial complex I. <i>Science</i> , 2015, 347, 44-49.	6.0	366
6	Structure and Dynamics of the Homologous Series of Alanine Peptides: A Joint Molecular Dynamics/NMR Study. <i>Journal of the American Chemical Society</i> , 2007, 129, 1179-1189.	6.6	304
7	Synonymous Codons Direct Cotranslational Folding toward Different Protein Conformations. <i>Molecular Cell</i> , 2016, 61, 341-351.	4.5	297
8	The concept of a random coil: Residual structure in peptides and denatured proteins. <i>Folding &amp; Design</i> , 1996, 1, R95-R106.	4.5	296
9	Structural and Dynamical Properties of a Denatured Protein. Heteronuclear 3D NMR Experiments and Theoretical Simulations of Lysozyme in 8 M Urea. <i>Biochemistry</i> , 1997, 36, 8977-8991.	1.2	296
10	Discovery of protein phosphatase inhibitor classes by biology-oriented synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10606-10611.	3.3	288
11	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9162-9185.	7.2	258
12	Adenosine-to-inosine RNA editing controls cathepsin S expression in atherosclerosis by enabling HuR-mediated post-transcriptional regulation. <i>Nature Medicine</i> , 2016, 22, 1140-1150.	15.2	222
13	NMR Solution Structure of a Complex of Calmodulin with a Binding Peptide of the Ca <sup>2+</sup> -Pump. <i>Biochemistry</i> , 1999, 38, 12320-12332.	1.2	202
14	Protein Alignment by a Coexpressed Lanthanide-Binding Tag for the Measurement of Residual Dipolar Couplings. <i>Journal of the American Chemical Society</i> , 2003, 125, 13338-13339.	6.6	193
15	Three-state mechanism couples ligand and temperature sensing in riboswitches. <i>Nature</i> , 2013, 499, 355-359.	13.7	181
16	High-resolution NMR structure of an RNA model system: the 14-mer cUUCGg tetraloop hairpin RNA. <i>Nucleic Acids Research</i> , 2010, 38, 683-694.	6.5	176
17	WeNMR: Structural Biology on the Grid. <i>Journal of Grid Computing</i> , 2012, 10, 743-767.	2.5	170
18	Solution NMR Structure of Proteorhodopsin. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11942-11946.	7.2	162

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19	Toward a Description of the Conformations of Denatured States of Proteins. Comparison of a Random Coil Model with NMR Measurements. <i>The Journal of Physical Chemistry</i> , 1996, 100, 2661-2666.	2.9	160
20	A refined solution structure of hen lysozyme determined using residual dipolar coupling data. <i>Protein Science</i> , 2001, 10, 677-688.	3.1	159
21	Structures of RNA Switches: Insight into Molecular Recognition and Tertiary Structure. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1212-1219.	7.2	159
22	Molecular Mechanism of Inhibition of the Human Protein Complex Hsp90 $\alpha$ -Cdc37, a Kinome Chaperone $\alpha$ -Cochaperone, by Triterpene Celastrol. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5853-5855.	7.2	153
23	Characterization of Conformational Preferences in a Partly Folded Protein by Heteronuclear NMR Spectroscopy: Assignment and Secondary Structure Analysis of Hen Egg-White Lysozyme in Trifluoroethanol. <i>Biochemistry</i> , 1995, 34, 13219-13232.	1.2	151
24	An intermolecular base triple as the basis of ligand specificity and affinity in the guanine- and adenine-sensing riboswitch RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1372-1377.	3.3	144
25	NMR Characterization of Kinase p38 Dynamics in Free and Ligand-Bound Forms. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 993-997.	7.2	143
26	Interplay of 'induced fit' and preorganization in the ligand induced folding of the aptamer domain of the guanine binding riboswitch. <i>Nucleic Acids Research</i> , 2006, 35, 572-583.	6.5	142
27	Double-Lanthanide-Binding Tags: $\alpha$ Design, Photophysical Properties, and NMR Applications. <i>Journal of the American Chemical Society</i> , 2007, 129, 7106-7113.	6.6	142
28	Retroviral Vectors Pseudotyped with Severe Acute Respiratory Syndrome Coronavirus S Protein. <i>Journal of Virology</i> , 2004, 78, 9007-9015.	1.5	139
29	Inhibition of Tumor Angiogenesis and Growth by a Small-Molecule Multi-FGF Receptor Blocker with Allosteric Properties. <i>Cancer Cell</i> , 2013, 23, 477-488.	7.7	138
30	Engineering Encodable Lanthanide-Binding Tags into Loop Regions of Proteins. <i>Journal of the American Chemical Society</i> , 2011, 133, 808-819.	6.6	132
31	Metal-ion binding and metal-ion induced folding of the adenine-sensing riboswitch aptamer domain. <i>Nucleic Acids Research</i> , 2007, 35, 5262-5273.	6.5	130
32	Time-resolved NMR methods resolving ligand-induced RNA folding at atomic resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15699-15704.	3.3	126
33	Molecular Mechanism of SSR128129E, an Extracellularly Acting, Small-Molecule, Allosteric Inhibitor of FGF Receptor Signaling. <i>Cancer Cell</i> , 2013, 23, 489-501.	7.7	125
34	Secondary structure determination of conserved SARS-CoV-2 RNA elements by NMR spectroscopy. <i>Nucleic Acids Research</i> , 2020, 48, 12415-12435.	6.5	125
35	Intrinsic Propensities of Amino Acid Residues in GxG Peptides Inferred from Amide $\alpha$ Band Profiles and NMR Scalar Coupling Constants. <i>Journal of the American Chemical Society</i> , 2010, 132, 540-551.	6.6	124
36	The Structure of the Cytochrome P450cam $\alpha$ -Putidaredoxin Complex Determined by Paramagnetic NMR Spectroscopy and Crystallography. <i>Journal of Molecular Biology</i> , 2013, 425, 4353-4365.	2.0	116

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37	NMR Analysis of a Tau Phosphorylation Pattern. <i>Journal of the American Chemical Society</i> , 2006, 128, 3575-3583.	6.6	107
38	Direct observation of the temperature-induced melting process of the Salmonella fourU RNA thermometer at base-pair resolution. <i>Nucleic Acids Research</i> , 2010, 38, 3834-3847.	6.5	105
39	Time-resolved NMR studies of RNA folding. <i>Biopolymers</i> , 2007, 86, 360-383.	1.2	104
40	Metabolic Plasticity of Acute Myeloid Leukemia. <i>Cells</i> , 2019, 8, 805.	1.8	103
41	Spectroscopic, Molecular Modeling, and NMR-Spectroscopic Investigation of the Binding Mode of the Natural Alkaloids Berberine and Sanguinarine to Human Telomeric G-Quadruplex DNA. <i>ACS Chemical Biology</i> , 2012, 7, 1109-1119.	1.6	102
42	Three-Dimensional Triple-Resonance <sup>1</sup> H, <sup>13</sup> C, <sup>31</sup> P Experiment: Sequential Through-Bond Correlation of Ribose Protons and Intervening Phosphorus along the RNA Oligonucleotide Backbone. <i>Journal of the American Chemical Society</i> , 1994, 116, 6472-6473.	6.6	99
43	Kinetics of Photoinduced RNA Refolding by Real-Time NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2600-2603.	7.2	98
44	Discovery of a New Class of Inhibitors of <i>Mycobacterium tuberculosis</i> Protein Tyrosine Phosphatase...B by Biology-Oriented Synthesis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5973-5977.	7.2	98
45	Main-chain Dynamics of a Partially Folded Protein: <sup>15</sup> N NMR Relaxation Measurements of Hen Egg White Lysozyme Denatured in Trifluoroethanol. <i>Journal of Molecular Biology</i> , 1996, 257, 669-683.	2.0	96
46	Evaluation of Parameters Critical for Observing Nucleic Acids Inside Living <i>Xenopus laevis</i> Oocytes by In-Cell NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 15761-15768.	6.6	96
47	Determination of a complete set of coupling constants in <sup>13</sup> C-labeled oligonucleotides. <i>Journal of Biomolecular NMR</i> , 1994, 4, 631-644.	1.6	93
48	Enlightening the photoactive site of channelrhodopsin-2 by DNP-enhanced solid-state NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9896-9901.	3.3	93
49	Involvement of Long-Lived Intermediate States in the Complex Folding Pathway of the Human Telomeric G-Quadruplex. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8444-8448.	7.2	90
50	Tandem Phosphorylation of Serines 221 and 318 by Protein Kinase C $\gamma$ Coordinates mRNA Binding and Nucleocytoplasmic Shuttling of HuR. <i>Molecular and Cellular Biology</i> , 2010, 30, 1397-1410.	1.1	88
51	Translation on demand by a simple RNA-based thermosensor. <i>Nucleic Acids Research</i> , 2011, 39, 2855-2868.	6.5	88
52	Time-Resolved NMR Spectroscopic Studies of DNA Motif Folding Reveal Kinetic Partitioning. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 250-253.	7.2	87
53	Small-Molecule Binding Sites on Proteins Established by Paramagnetic NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 5859-5868.	6.6	87
54	The Structure of the Neuropeptide Bradykinin Bound to the Human G-Protein Coupled Receptor Bradykinin B2 as Determined by Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1668-1671.	7.2	86

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55	Solution $^{19}\text{F}$ nuclear Overhauser effects in structural studies of the cytoplasmic domain of mammalian rhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 4888-4892.	3.3	85
56	Monitoring the Kinetics of Ion-Dependent Protein Folding by Time-Resolved NMR Spectroscopy at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2000, 122, 6169-6174.	6.6	82
57	Determination of RNA Sugar Pucker Mode from Cross-Correlated Relaxation in Solution NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 1999, 121, 1956-1957.	6.6	80
58	Brunsvicamides $\alpha$ - $^{13}\text{C}$ : $\alpha$ -Sponge-Related Cyanobacterial Peptides with Mycobacterium tuberculosis Protein Tyrosine Phosphatase Inhibitory Activity. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 4871-4878.	2.9	78
59	Double-Lanthanide-Binding Tags for Macromolecular Crystallographic Structure Determination. <i>Journal of the American Chemical Society</i> , 2007, 129, 7114-7120.	6.6	78
60	Cell penetrating thiazole peptides inhibit c-MYC expression via site-specific targeting of c-MYC G-quadruplex. <i>Nucleic Acids Research</i> , 2018, 46, 5355-5365.	6.5	78
61	Mapping the Landscape of RNA Dynamics with NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2011, 44, 1292-1301.	7.6	77
62	Gd(III) and Mn(II) complexes for dynamic nuclear polarization: small molecular chelate polarizing agents and applications with site-directed spin labeling of proteins. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27205-27218.	1.3	76
63	Blind Testing of Routine, Fully Automated Determination of Protein Structures from NMR Data. <i>Structure</i> , 2012, 20, 227-236.	1.6	75
64	Angular dependence of $^1\text{J}(\text{Ni}, \text{C}_{\alpha})$ and $^2\text{J}(\text{Ni}, \text{C}_{\alpha(i-1)})$ coupling constants measured in J-modulated HSQCs. <i>Journal of Biomolecular NMR</i> , 2002, 23, 47-55.	1.6	74
65	The molecular basis of subtype selectivity of human kinin G-protein-coupled receptors. <i>Nature Chemical Biology</i> , 2018, 14, 284-290.	3.9	74
66	Structure determination of noncanonical RNA motifs guided by $^1\text{H}$ NMR chemical shifts. <i>Nature Methods</i> , 2014, 11, 413-416.	9.0	72
67	Chemical shifts in denatured proteins: resonance assignments for denatured ubiquitin and comparisons with other denatured proteins. <i>Journal of Biomolecular NMR</i> , 2001, 19, 153-165.	1.6	71
68	Molecular tuning of farnesoid X receptor partial agonism. <i>Nature Communications</i> , 2019, 10, 2915.	5.8	71
69	Side-chain conformations in an unfolded protein: $^1\text{H}$ distributions in denatured hen lysozyme determined by heteronuclear $^{13}\text{C}$ , $^{15}\text{N}$ NMR spectroscopy. Edited by A. R. Fersht. <i>Journal of Molecular Biology</i> , 1999, 288, 705-723.	2.0	70
70	J-Coupling Restraints in RNA Structure Determination. <i>Accounts of Chemical Research</i> , 1999, 32, 614-623.	7.6	68
71	Evidence for transmembrane proton transfer in a dihaem-containing membrane protein complex. <i>EMBO Journal</i> , 2006, 25, 4963-4970.	3.5	67
72	The Nature of Hydrogen Bonds in Cytidine-H <sup>+</sup> -Cytidine DNA Base Pairs. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4067-4070.	7.2	65

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73	Isotope labeling of mammalian GPCRs in HEK293 cells and characterization of the C-terminus of bovine rhodopsin by high resolution liquid NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2008, 40, 49-53.	1.6	63
74	Solution NMR spectroscopy of [ $^{15}\text{N}$ ]lysine-labeled rhodopsin: The single peak observed in both conventional and TROSY-type HSQC spectra is ascribed to Lys-339 in the carboxyl-terminal peptide sequence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3452-3457.	3.3	62
75	Determination of $^1\text{H}$ , $^1\text{H}$ and $^1\text{H}$ , $^{13}\text{C}$ coupling constants in $^{13}\text{C}$ , $^{15}\text{N}$ -labeled proteins. <i>Journal of Biomolecular NMR</i> , 1994, 4, 231-40.	1.6	61
76	Differential dynamics in the G protein-coupled receptor rhodopsin revealed by solution NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3409-3413.	3.3	61
77	Residue Specific Ribose and Nucleobase Dynamics of the cUUCGg RNA Tetraloop Motif by M $\text{NMR}$ $^{13}\text{C}$ Relaxation. <i>Journal of Biomolecular NMR</i> , 2005, 32, 295-308.	1.6	61
78	Conformational Dynamics of Bistable RNAs Studied by Time-Resolved NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2007, 129, 16222-16229.	6.6	61
79	Modulation of the stability of the Salmonella fourU-type RNA thermometer. <i>Nucleic Acids Research</i> , 2011, 39, 8258-8270.	6.5	61
80	Sequential correlation of anomeric ribose protons and intervening phosphorus in RNA oligonucleotides by a $^1\text{H}$ , $^{13}\text{C}$ , $^{31}\text{P}$ triple resonance experiment: HCP-CCH-TOCSY. <i>Journal of Biomolecular NMR</i> , 1995, 5, 87-92.	1.6	60
81	New principle for the determination of coupling constants that largely suppresses differential relaxation effects. <i>Journal of the American Chemical Society</i> , 1995, 117, 10389-10390.	6.6	60
82	Discovery of Mycobacterium Tuberculosis Protein Tyrosine Phosphatase A (MptpA) Inhibitors Based on Natural Products and a Fragment-Based Approach. <i>ChemBioChem</i> , 2005, 6, 1749-1753.	1.3	60
83	The Human Cdc37-Hsp90 Complex Studied by Heteronuclear NMR Spectroscopy. <i>Journal of Biological Chemistry</i> , 2009, 284, 3885-3896.	1.6	60
84	Multiple conformational states of riboswitches fine-tune gene regulation. <i>Current Opinion in Structural Biology</i> , 2015, 30, 112-124.	2.6	60
85	Targeting RNA structure in SMN2 reverses spinal muscular atrophy molecular phenotypes. <i>Nature Communications</i> , 2018, 9, 2032.	5.8	60
86	Chemical synthesis of $^{13}\text{C}$ -labelled monomers for the solid-phase and template controlled enzymatic synthesis of DNA and RNA oligomers. <i>Tetrahedron Letters</i> , 1994, 35, 6649-6651.	0.7	59
87	Cross-Correlated Relaxation for Measurement of Angles between Tensorial Interactions. <i>Methods in Enzymology</i> , 2002, 338, 35-81.	0.4	59
88	Enantioselective Total Synthesis of Cylindramide. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 820-822.	7.2	59
89	Identification of Inhibitors for Mycobacterial Protein Tyrosine Phosphatase B (MptpB) by Biology-Oriented Synthesis (BIOS). <i>Chemistry - an Asian Journal</i> , 2007, 2, 1109-1126.	1.7	59
90	NMR Backbone Assignment of a Protein Kinase Catalytic Domain by a Combination of Several Approaches: Application to the Catalytic Subunit of cAMP-Dependent Protein Kinase. <i>ChemBioChem</i> , 2004, 5, 1508-1516.	1.3	58

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91	Glutamic Acid-rich Proteins of Rod Photoreceptors Are Natively Unfolded*. <i>Journal of Biological Chemistry</i> , 2006, 281, 1449-1460.	1.6	57
92	NMR and MD studies of the temperature-dependent dynamics of RNA YNMG-tetraloops. <i>Nucleic Acids Research</i> , 2008, 36, 1928-1940.	6.5	56
93	New NMR experiments for RNA nucleobase resonance assignment and chemical shift analysis of an RNA UUCG tetraloop. <i>Journal of Biomolecular NMR</i> , 2004, 28, 69-79.	1.6	55
94	Modulation of Compactness and Long-Range Interactions of Unfolded Lysozyme by Single Point Mutations. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5780-5785.	7.2	55
95	Tracing the tail of ubiquinone in mitochondrial complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1776-1784.	0.5	55
96	A Nucleus-Imaging Probe That Selectively Stabilizes a Minor Conformation of c-MYC G-quadruplex and Down-regulates c-MYC Transcription in Human Cancer Cells. <i>Scientific Reports</i> , 2015, 5, 13183.	1.6	55
97	Water-Soluble Py-BIPS Spiropyrans as Photoswitches for Biological Applications. <i>Organic Letters</i> , 2015, 17, 1517-1520.	2.4	55
98	Exploring the Druggability of Conserved RNA Regulatory Elements in the SARS-CoV-2 Genome. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19191-19200.	7.2	55
99	Motional properties of unfolded ubiquitin: a model for a random coil protein. <i>Journal of Biomolecular NMR</i> , 2006, 35, 175-186.	1.6	54
100	L11 domain rearrangement upon binding to RNA and thiostrepton studied by NMR spectroscopy. <i>Nucleic Acids Research</i> , 2007, 35, 441-454.	6.5	53
101	Optimized Plk1 PBD Inhibitors Based on Poloxin Induce Mitotic Arrest and Apoptosis in Tumor Cells. <i>ACS Chemical Biology</i> , 2015, 10, 2570-2579.	1.6	53
102	Optimization of Transversal Relaxation of Nitroxides for Pulsed Electron-Electron Double Resonance Spectroscopy in Phospholipid Membranes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13507-13516.	1.2	52
103	Tuning the pH Response of a Motif DNA Oligonucleotides. <i>ChemBioChem</i> , 2015, 16, 1647-1656.	1.3	52
104	Solution NMR Structure of a Ligand/Hybrid G-Quadruplex Complex Reveals Rearrangements that Affect Ligand Binding. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7102-7106.	7.2	52
105	Design of Photocaged Puromycin for Nascent Polypeptide Release and Spatiotemporal Monitoring of Translation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3717-3721.	7.2	51
106	Conformation of Valine Side Chains in Ribonuclease T1 Determined by NMR Studies of Homonuclear and Heteronuclear 3J Coupling Constants. <i>Biochemistry</i> , 1994, 33, 5481-5492.	1.2	50
107	Total Synthesis and NMR Investigations of Cylindramide. <i>Chemistry - A European Journal</i> , 2006, 12, 2488-2503.	1.7	50
108	Design, Synthesis, and Biological Testing of Novel Naphthoquinones as Substrate-Based Inhibitors of the Quinol/Fumarate Reductase from <i>Wolinella succinogenes</i> . <i>Journal of Medicinal Chemistry</i> , 2013, 56, 9530-9541.	2.9	50

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109	Photoresponsive Formation of an Intermolecular Minimal Gâ€Quadruplex Motif. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2738-2742.	7.2	50
110	Experimental Evidence for Proton Motive Force-Dependent Catalysis by the Diheme-Containing Succinate:Menaquinone Oxidoreductase from the Gram-Positive Bacterium <i>Bacillus licheniformis</i> . <i>Biochemistry</i> , 2006, 45, 15049-15055.	1.2	49
111	Amino Acids with Hydrogenâ€Bonding Side Chains have an Intrinsic Tendency to Sample Various Turn Conformations in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2011, 17, 6789-6797.	1.7	49
112	Rapid NMR screening of RNA secondary structure and binding. <i>Journal of Biomolecular NMR</i> , 2015, 63, 67-76.	1.6	49
113	Heteronuclear Cross-Relaxation under Solid-State Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2016, 138, 16572-16575.	6.6	49
114	Editorial: New 1.2 GHz NMR Spectrometersâ€” New Horizons?. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10252-10253.	7.2	49
115	Flooded soybean metabolomic analysis reveals important primary and secondary metabolites involved in the hypoxia stress response and tolerance. <i>Environmental and Experimental Botany</i> , 2018, 153, 176-187.	2.0	49
116	Measurement of H,H-Coupling Constants Associated with .nu.1, .nu. 2, and .nu.3 in Uniformly <sup>13</sup> C-Labeled RNA by HCC-TOCSY-CCH-E.COSY. <i>Journal of the American Chemical Society</i> , 1995, 117, 7251-7252.	6.6	48
117	Pausing guides RNA folding to populate transiently stable RNA structures for riboswitch-based transcription regulation. <i>ELife</i> , 2017, 6, .	2.8	48
118	Experimental support for the "E pathway hypothesis" of coupled transmembrane e- and H+ transfer in dihemic quinol:fumarate reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18860-18865.	3.3	47
119	Determination of Î³ and Stereospecific Assignment of H5â€ Protons by Measurement of 2J and 3J Coupling Constants in Uniformly <sup>13</sup> C Labeled RNA. <i>Journal of the American Chemical Society</i> , 1996, 118, 4388-4395.	6.6	46
120	Life times of metastable states guide regulatory signaling in transcriptional riboswitches. <i>Nature Communications</i> , 2018, 9, 944.	5.8	46
121	How Much NMR Data Is Required To Determine a Protein-Ligand Complex Structure?. <i>ChemBioChem</i> , 2005, 6, 1891-1898.	1.3	45
122	A Caged Uridine for the Selective Preparation of an RNA Fold and Determination of its Refolding Kinetics by Real-Time NMR. <i>ChemBioChem</i> , 2006, 7, 417-420.	1.3	45
123	Dissecting the influence of Mg 2+ on 3D architecture and ligand-binding of the guanine-sensing riboswitch aptamer domain. <i>Nucleic Acids Research</i> , 2010, 38, 4143-4153.	6.5	44
124	Encoded loop-lanthanide-binding tags for long-range distance measurements in proteins by NMR and EPR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2015, 63, 275-282.	1.6	44
125	Stereospecific assignment of leucine methyl groups with carbon-13 in natural abundance or with random <sup>13</sup> C labeling. <i>Journal of the American Chemical Society</i> , 1992, 114, 1126-1127.	6.6	43
126	Structural Comparison of Oligoribonucleotides and Their 2â€-Deoxy-2â€-fluoro Analogs by heteronuclear NMR spectroscopy. <i>Helvetica Chimica Acta</i> , 1997, 80, 1952-1971.	1.0	43



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127	Mutations in gp120 Contribute to the Resistance of Human Immunodeficiency Virus Type 1 to Membrane-Anchored C-Peptide maC46. <i>Journal of Virology</i> , 2009, 83, 4844-4853.	1.5	43
128	NMR Structural Profiling of Transcriptional Intermediates Reveals Riboswitch Regulation by Metastable RNA Conformations. <i>Journal of the American Chemical Society</i> , 2017, 139, 2647-2656.	6.6	43
129	Optimizing the Kinetics and Thermodynamics of DNA Motif Folding. <i>ChemBioChem</i> , 2013, 14, 1226-1230.	1.3	42
130	Synthesis of Fluorescent Binaphthyl Amines That Bind c-MYC G-Quadruplex DNA and Repress c-MYC Expression. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 7275-7281.	2.9	42
131	Chemical Proteomics and Structural Biology Define EPHA2 Inhibition by Clinical Kinase Drugs. <i>ACS Chemical Biology</i> , 2016, 11, 3400-3411.	1.6	42
132	Biomolecular NMR: a chaperone to drug discovery. <i>Current Opinion in Chemical Biology</i> , 2006, 10, 219-225.	2.8	41
133	The State of the Art of Chemical Biology. <i>ChemBioChem</i> , 2009, 10, 16-29.	1.3	41
134	Small molecule regulated dynamic structural changes of human G-quadruplexes. <i>Chemical Science</i> , 2016, 7, 3279-3285.	3.7	41
135	Chemo-Enzymatic Synthesis of Position-Specifically Modified RNA for Biophysical Studies including Light Control and NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12017-12021.	7.2	40
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137	Structure Induction of the T-Cell Receptor $\zeta$ -Chain upon Lipid Binding Investigated by NMR Spectroscopy. <i>ChemBioChem</i> , 2007, 8, 820-827.	1.3	39
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