

# Volker Dotsch

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/344662/volker-dotsch-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

232  
papers

13,824  
citations

60  
h-index

111  
g-index

271  
ext. papers

15,491  
ext. citations

8.6  
avg, IF

6.14  
L-index

#	Paper	IF	Citations
232	p63, a p53 homolog at 3q27-29, encodes multiple products with transactivating, death-inducing, and dominant-negative activities. <i>Molecular Cell</i> , <b>1998</b> , 2, 305-16	17.6	1765
231	Phosphorylation of the autophagy receptor optineurin restricts Salmonella growth. <i>Science</i> , <b>2011</b> , 333, 228-33	33.3	937
230	Nix is a selective autophagy receptor for mitochondrial clearance. <i>EMBO Reports</i> , <b>2010</b> , 11, 45-51	6.5	870
229	Interactions between autophagy receptors and ubiquitin-like proteins form the molecular basis for selective autophagy. <i>Molecular Cell</i> , <b>2014</b> , 53, 167-78	17.6	668
228	Intramolecular masking of nuclear import signal on NF-AT4 by casein kinase I and MEKK1. <i>Cell</i> , <b>1998</b> , 93, 851-61	56.2	274
227	Processing of multi-dimensional NMR data with the new software PROSA. <i>Journal of Biomolecular NMR</i> , <b>1992</b> , 2, 619-629	3	267
226	Loss of p63 and its microRNA-205 target results in enhanced cell migration and metastasis in prostate cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 15312-7	11.5	219
225	High level cell-free expression and specific labeling of integral membrane proteins. <i>FEBS Journal</i> , <b>2004</b> , 271, 568-80		203
224	Preparative scale expression of membrane proteins in Escherichia coli-based continuous exchange cell-free systems. <i>Nature Protocols</i> , <b>2007</b> , 2, 2945-57	18.8	200
223	Evaluation of detergents for the soluble expression of alpha-helical and beta-barrel-type integral membrane proteins by a preparative scale individual cell-free expression system. <i>FEBS Journal</i> , <b>2005</b> , 272, 6024-38	5.7	166
222	A C-terminal inhibitory domain controls the activity of p63 by an intramolecular mechanism. <i>Molecular and Cellular Biology</i> , <b>2002</b> , 22, 8601-11	4.8	165
221	High-resolution macromolecular NMR spectroscopy inside living cells. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 2446-7	16.4	161
220	Solution NMR structure of proteorhodopsin. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 11942-6	16.4	150
219	Low-conductivity buffers for high-sensitivity NMR measurements. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12013-9	16.4	150
218	Long-range distance measurements on nucleic acids in cells by pulsed EPR spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 5070-4	16.4	148
217	In-cell NMR spectroscopy. <i>Biochemistry</i> , <b>2001</b> , 40, 14317-23	3.2	138
216	Conformational switches modulate protein interactions in peptide antibiotic synthetases. <i>Science</i> , <b>2006</b> , 312, 273-6	33.3	135

215	Phosphorylation of the mitochondrial autophagy receptor Nix enhances its interaction with LC3 proteins. <i>Scientific Reports</i> , <b>2017</b> , 7, 1131	4.9	127
214	The parallel G-quadruplex structure of vertebrate telomeric repeat sequences is not the preferred folding topology under physiological conditions. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 5768-75	20.1	127
213	E3-independent monoubiquitination of ubiquitin-binding proteins. <i>Molecular Cell</i> , <b>2007</b> , 26, 891-8	17.6	119
212	Evaluation of parameters critical to observing proteins inside living <i>Escherichia coli</i> by in-cell NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 8895-901	16.4	119
211	HUWE1 E3 ligase promotes PINK1/PARKIN-independent mitophagy by regulating AMBRA1 activation via IKK. <i>Nature Communications</i> , <b>2018</b> , 9, 3755	17.4	115
210	Cell-free expression as an emerging technique for the large scale production of integral membrane protein. <i>FEBS Journal</i> , <b>2006</b> , 273, 4141-53	5.7	108
209	Investigating macromolecules inside cultured and injected cells by in-cell NMR spectroscopy. <i>Nature Protocols</i> , <b>2006</b> , 1, 2701-9	18.8	107
208	Structural basis for the selectivity of the external thioesterase of the surfactin synthetase. <i>Nature</i> , <b>2008</b> , 454, 907-11	50.4	103
207	Cell-free production of G protein-coupled receptors for functional and structural studies. <i>Journal of Structural Biology</i> , <b>2007</b> , 158, 482-93	3.4	99
206	Solution structure of the core NFATC1/DNA complex. <i>Cell</i> , <b>1998</b> , 92, 687-96	56.2	96
205	Structural and functional analysis of the GABARAP interaction motif (GIM). <i>EMBO Reports</i> , <b>2017</b> , 18, 1387-1396	5.3	95
204	DNA damage in oocytes induces a switch of the quality control factor TAp63 from dimer to tetramer. <i>Cell</i> , <b>2011</b> , 144, 566-76	56.2	93
203	Unusual Rel-like architecture in the DNA-binding domain of the transcription factor NFATc. <i>Nature</i> , <b>1997</b> , 385, 172-6	50.4	89
202	Structural basis for tail-anchored membrane protein biogenesis by the Get3-receptor complex. <i>Science</i> , <b>2011</b> , 333, 758-62	33.3	88
201	Involvement of the ubiquitin-like domain of TBK1/IKK-i kinases in regulation of IFN-inducible genes. <i>EMBO Journal</i> , <b>2007</b> , 26, 3451-62	13	88
200	New Carbon-Detected Protein NMR Experiments Using CryoProbes. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 3554-3555	16.4	88
199	Definition of the switch surface in the solution structure of Cdc42Hs. <i>Biochemistry</i> , <b>1997</b> , 36, 8755-66	3.2	87
198	High-resolution insight into G-overhang architecture. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 2816-24	16.4	84

197	Production of membrane proteins using cell-free expression systems. <i>Proteomics</i> , <b>2008</b> , 8, 3933-46	4.8	84
196	In-cell NMR spectroscopy. <i>Methods in Enzymology</i> , <b>2005</b> , 394, 17-41	1.7	84
195	Gain-of-function mutation in ADULT syndrome reveals the presence of a second transactivation domain in p63. <i>Human Molecular Genetics</i> , <b>2002</b> , 11, 799-804	5.6	83
194	TECPR2 Cooperates with LC3C to Regulate COPII-Dependent ER Export. <i>Molecular Cell</i> , <b>2015</b> , 60, 89-104	17.6	82
193	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> , <b>2009</b> , 131, 15761-8	16.4	82
192	Advances in cell-free protein synthesis for the functional and structural analysis of membrane proteins. <i>New Biotechnology</i> , <b>2011</b> , 28, 262-71	6.4	79
191	Structural evolution of C-terminal domains in the p53 family. <i>EMBO Journal</i> , <b>2007</b> , 26, 3463-73	13	75
190	Cell-free expression and stable isotope labelling strategies for membrane proteins. <i>Journal of Biomolecular NMR</i> , <b>2010</b> , 46, 33-43	3	74
189	Methyl groups as probes for proteins and complexes in in-cell NMR experiments. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7119-25	16.4	74
188	The GYF domain is a novel structural fold that is involved in lymphoid signaling through proline-rich sequences. <i>Nature Structural Biology</i> , <b>1999</b> , 6, 656-60		73
187	Cell-free expression and assembly of ATP synthase. <i>Journal of Molecular Biology</i> , <b>2011</b> , 413, 593-603	6.5	72
186	In-cell NMR and EPR spectroscopy of biomacromolecules. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 10300-14	16.4	71
185	Structural basis for phosphorylation-triggered autophagic clearance of Salmonella. <i>Biochemical Journal</i> , <b>2013</b> , 454, 459-66	3.8	71
184	A method for integrative structure determination of protein-protein complexes. <i>Bioinformatics</i> , <b>2012</b> , 28, 3282-9	7.2	69
183	Characterization of the interaction of GABARAPL-1 with the LIR motif of NBR1. <i>Journal of Molecular Biology</i> , <b>2011</b> , 410, 477-87	6.5	68
182	Structural investigation of the C-terminal catalytic fragment of presenilin 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 9644-9	11.5	68
181	An activation switch in the ligand binding pocket of the C5a receptor. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 3394-400	5.4	68
180	Oocyte DNA damage quality control requires consecutive interplay of CHK2 and CK1 to activate p63. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 261-269	17.6	66

179	Efficient strategy for the rapid backbone assignment of membrane proteins. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 13504-5	16.4	66
178	Caspase-2 is an initiator caspase responsible for pore-forming toxin-mediated apoptosis. <i>EMBO Journal</i> , <b>2012</b> , 31, 2615-28	13	63
177	Cell free expression and functional reconstitution of eukaryotic drug transporters. <i>Biochemistry</i> , <b>2008</b> , 47, 4552-64	3.2	63
176	A methylation-dependent electrostatic switch controls DNA repair and transcriptional activation by <i>E. coli</i> ada. <i>Molecular Cell</i> , <b>2005</b> , 20, 117-29	17.6	63
175	Membrane protein expression in cell-free systems. <i>Methods in Molecular Biology</i> , <b>2010</b> , 601, 165-86	1.4	62
174	The role of protein-solvent interactions in protein unfolding. <i>Current Opinion in Biotechnology</i> , <b>1996</b> , 7, 428-32	11.4	62
173	Membrane protein production in Escherichia coli cell-free lysates. <i>FEBS Letters</i> , <b>2015</b> , 589, 1713-22	3.8	61
172	Modified lipid and protein dynamics in nanodiscs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 1222-9	3.8	60
171	Characterization of co-translationally formed nanodisc complexes with small multidrug transporters, proteorhodopsin and with the <i>E. coli</i> MraY translocase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 3098-106	3.8	60
170	Molecular crowding drives active Pin1 into nonspecific complexes with endogenous proteins prior to substrate recognition. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13796-803	16.4	60
169	CUL3-KBTBD6/KBTBD7 ubiquitin ligase cooperates with GABARAP proteins to spatially restrict TIAM1-RAC1 signaling. <i>Molecular Cell</i> , <b>2015</b> , 57, 995-1010	17.6	58
168	Segmental isotopic labeling of a central domain in a multidomain protein by protein trans-splicing using only one robust DnaE intein. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6128-31	16.4	56
167	Actin binding to the central domain of WASP/Scar proteins plays a critical role in the activation of the Arp2/3 complex. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 10589-97	5.4	56
166	Analyzing native membrane protein assembly in nanodiscs by combined non-covalent mass spectrometry and synthetic biology. <i>ELife</i> , <b>2017</b> , 6,	8.9	55
165	The large extracellular loop of organic cation transporter 1 influences substrate affinity and is pivotal for oligomerization. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 37874-86	5.4	55
164	Quantitative identification of the protonation state of histidines in vitro and in vivo. <i>Biochemistry</i> , <b>2003</b> , 42, 9227-34	3.2	55
163	Carbon-detected NMR experiments to investigate structure and dynamics of biological macromolecules. <i>ChemBioChem</i> , <b>2001</b> , 2, 247-51	3.8	54
162	Endoplasmic reticulum targeting and insertion of tail-anchored membrane proteins by the GET pathway. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2013</b> , 5, a013334	10.2	52

161	Preparative scale cell-free production and quality optimization of MraY homologues in different expression modes. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 38844-53	5.4	52
160	A systematic approach to increase the efficiency of membrane protein production in cell-free expression systems. <i>Protein Expression and Purification</i> , <b>2012</b> , 82, 308-16	2	51
159	Preparative scale cell-free expression systems: new tools for the large scale preparation of integral membrane proteins for functional and structural studies. <i>Methods</i> , <b>2007</b> , 41, 355-69	4.6	51
158	Elimination of <sup>13</sup> C $\alpha$ splitting in protein NMR spectra by deconvolution with maximum entropy reconstruction. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 2382-3	16.4	51
157	Functional properties of cell-free expressed human endothelin A and endothelin B receptors in artificial membrane environments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 2182-92	3.8	49
156	Non-oncogenic roles of TAp73: from multiciliogenesis to metabolism. <i>Cell Death and Differentiation</i> , <b>2018</b> , 25, 144-153	12.7	48
155	Donated chemical probes for open science. <i>ELife</i> , <b>2018</b> , 7,	8.9	48
154	The molecular pharmacology and in vivo activity of 2-(4-chloro-6-(2,3-dimethylphenylamino)pyrimidin-2-ylthio)octanoic acid (YS121), a dual inhibitor of microsomal prostaglandin E2 synthase-1 and 5-lipoxygenase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2010</b> , 332, 840-8	4.7	47
153	Differential altered stability and transcriptional activity of Np63 mutants in distinct ectodermal dysplasias. <i>Journal of Cell Science</i> , <b>2011</b> , 124, 2200-7	5.3	46
152	Lipid Requirements for the Enzymatic Activity of MraY Translocases and in Vitro Reconstitution of the Lipid II Synthesis Pathway. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 2535-46	5.4	45
151	In-cell solid-state NMR as a tool to study proteins in large complexes. <i>ChemBioChem</i> , <b>2012</b> , 13, 534-7	3.8	44
150	Single-molecule force spectroscopy from nanodiscs: an assay to quantify folding, stability, and interactions of native membrane proteins. <i>ACS Nano</i> , <b>2012</b> , 6, 961-71	16.7	44
149	Co-translational formation and pharmacological characterization of beta1-adrenergic receptor/nanodisc complexes with different lipid environments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 1306-16	3.8	43
148	Regulation of Phosphoribosyl-Linked Serine Ubiquitination by Deubiquitinases DupA and DupB. <i>Molecular Cell</i> , <b>2020</b> , 77, 164-179.e6	17.6	43
147	Modulation of G-protein coupled receptor sample quality by modified cell-free expression protocols: a case study of the human endothelin A receptor. <i>Journal of Structural Biology</i> , <b>2010</b> , 172, 94-106	3.4	41
146	In-cell NMR spectroscopy. <i>ChemBioChem</i> , <b>2005</b> , 6, 1601-6	3.8	41
145	Optimization of amino acid type-specific <sup>13</sup> C and <sup>15</sup> N labeling for the backbone assignment of membrane proteins by solution- and solid-state NMR with the UPLABEL algorithm. <i>Journal of Biomolecular NMR</i> , <b>2011</b> , 49, 75-84	3	40
144	Preparative scale production of functional mouse aquaporin 4 using different cell-free expression modes. <i>PLoS ONE</i> , <b>2010</b> , 5, e12972	3.7	39

143	Strategies for the cell-free expression of membrane proteins. <i>Methods in Molecular Biology</i> , <b>2010</b> , 607, 187-212	1.4	39
142	Amino-acid-type-selective triple-resonance experiments. <i>Journal of Magnetic Resonance Series B</i> , <b>1996</b> , 110, 107-11		39
141	Co-translational association of cell-free expressed membrane proteins with supplied lipid bilayers. <i>Molecular Membrane Biology</i> , <b>2013</b> , 30, 75-89	3.4	37
140	Long-Range Distance Measurements on Nucleic Acids in Cells by Pulsed EPR Spectroscopy. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 5176-5180	3.6	37
139	The guanylate kinase domain of the MAGUK PSD-95 binds dynamically to a conserved motif in MAP1a. <i>Nature Structural and Molecular Biology</i> , <b>2007</b> , 14, 155-63	17.6	37
138	In-cell NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>2007</b> , 51, 91-101	10.4	37
137	Fluorescence-based ATG8 sensors monitor localization and function of LC3/GABARAP proteins. <i>EMBO Journal</i> , <b>2017</b> , 36, 549-564	13	36
136	Transmembrane segment enhanced labeling as a tool for the backbone assignment of alpha-helical membrane proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 8262-7	11.5	35
135	The E. coli S30 lysate proteome: A prototype for cell-free protein production. <i>New Biotechnology</i> , <b>2018</b> , 40, 245-260	6.4	34
134	Combination of cell-free expression and NMR spectroscopy as a new approach for structural investigation of membrane proteins. <i>Magnetic Resonance in Chemistry</i> , <b>2006</b> , 44 Spec No, S17-23	2.1	34
133	Requirements on paramagnetic relaxation enhancement data for membrane protein structure determination by NMR. <i>Structure</i> , <b>2012</b> , 20, 1019-27	5.2	33
132	Systems for the cell-free synthesis of proteins. <i>Methods in Molecular Biology</i> , <b>2012</b> , 800, 201-25	1.4	33
131	Selective autophagy maintains centrosome integrity and accurate mitosis by turnover of centriolar satellites. <i>Nature Communications</i> , <b>2019</b> , 10, 4176	17.4	32
130	New approaches to structure determination by NMR spectroscopy. <i>Current Opinion in Structural Biology</i> , <b>1998</b> , 8, 619-23	8.1	31
129	Quality control in oocytes by p63 is based on a spring-loaded activation mechanism on the molecular and cellular level. <i>ELife</i> , <b>2016</b> , 5,	8.9	31
128	Crystal structure of a PCP/Sfp complex reveals the structural basis for carrier protein posttranslational modification. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 552-562		30
127	Cell-free expression profiling of E. coli inner membrane proteins. <i>Proteomics</i> , <b>2010</b> , 10, 1762-79	4.8	30
126	Optimization of <sup>13</sup> C direct detection NMR methods. <i>Journal of Biomolecular NMR</i> , <b>2004</b> , 30, 175-9	3	30

125	Structural Evolution and Dynamics of the p53 Proteins. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2017</b> , 7,	5.4	29
124	Intrinsic aggregation propensity of the p63 and p73 TI domains correlates with p53R175H interaction and suggests further significance of aggregation events in the p53 family. <i>Cell Death and Differentiation</i> , <b>2016</b> , 23, 1952-1960	12.7	29
123	Characterization of molecular interactions between ACP and halogenase domains in the Curacin A polyketide synthase. <i>ACS Chemical Biology</i> , <b>2012</b> , 7, 378-86	4.9	29
122	A universal expression tag for structural and functional studies of proteins. <i>ChemBioChem</i> , <b>2012</b> , 13, 959-63	3.8	29
121	Screening for lipid requirements of membrane proteins by combining cell-free expression with nanodiscs. <i>Methods in Enzymology</i> , <b>2015</b> , 556, 351-69	1.7	28
120	Combining in Vitro Folding with Cell Free Protein Synthesis for Membrane Protein Expression. <i>Biochemistry</i> , <b>2016</b> , 55, 4212-9	3.2	28
119	Editing for amino-acid type in CBCACONH experiments based on the <sup>13</sup> C beta- <sup>13</sup> C gamma coupling. <i>Journal of Magnetic Resonance Series B</i> , <b>1996</b> , 111, 310-3		27
118	Cell-free expression and in meso crystallisation of an integral membrane kinase for structure determination. <i>Cellular and Molecular Life Sciences</i> , <b>2014</b> , 71, 4895-4910	10.3	26
117	Functional expression of the PorAH channel from <i>Corynebacterium glutamicum</i> in cell-free expression systems: implications for the role of the naturally occurring mycolic acid modification. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 32525-32	5.4	26
116	A disulfide bridge network within the soluble periplasmic domain determines structure and function of the outer membrane protein RCSF. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 18775-83	5.4	26
115	Fast mapping of protein-protein interfaces by NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 14250-1	16.4	26
114	Structural basis for the functional switch of the <i>E. coli</i> Ada protein. <i>Biochemistry</i> , <b>2001</b> , 40, 4261-71	3.2	26
113	The CUE Domain of Cue1 Aligns Growing Ubiquitin Chains with Ubc7 for Rapid Elongation. <i>Molecular Cell</i> , <b>2016</b> , 62, 918-928	17.6	25
112	Hydrophobic supplements in cell-free systems: Designing artificial environments for membrane proteins. <i>Engineering in Life Sciences</i> , <b>2014</b> , 14, 365-379	3.4	25
111	Combinatorial triple-selective labeling as a tool to assist membrane protein backbone resonance assignment. <i>Journal of Biomolecular NMR</i> , <b>2012</b> , 52, 197-210	3	25
110	A new structural domain in the <i>Escherichia coli</i> RcsC hybrid sensor kinase connects histidine kinase and phosphoreceiver domains. <i>Journal of Molecular Biology</i> , <b>2006</b> , 364, 68-79	6.5	25
109	Cell-free production of integral membrane proteins on a preparative scale. <i>Methods in Molecular Biology</i> , <b>2007</b> , 375, 57-78	1.4	24
108	Efficient identification of amino acid types for fast protein backbone assignments. <i>Journal of Biomolecular NMR</i> , <b>2001</b> , 21, 269-73	3	24



107	Artificial environments for the co-translational stabilization of cell-free expressed proteins. <i>PLoS ONE</i> , <b>2013</b> , 8, e56637	3.7	24
106	Solution structure of the Escherichia coli YojN histidine-phosphotransferase domain and its interaction with cognate phosphoryl receiver domains. <i>Journal of Molecular Biology</i> , <b>2004</b> , 343, 1035-48	6.5	23
105	Investigation of quadruplex structure under physiological conditions using in-cell NMR. <i>Topics in Current Chemistry</i> , <b>2013</b> , 330, 47-65		22
104	NmerA of Tn501 mercuric ion reductase: structural modulation of the pKa values of the metal binding cysteine thiols. <i>Biochemistry</i> , <b>2010</b> , 49, 8988-98	3.2	22
103	Improved pulse sequences for sequence specific assignment of aromatic proton resonances in proteins. <i>Journal of Biomolecular NMR</i> , <b>2007</b> , 37, 205-24	3	22
102	Selective identification of threonine, valine, and isoleucine sequential connectivities with a TVI-CBCACONH experiment. <i>Journal of Magnetic Resonance Series B</i> , <b>1996</b> , 110, 304-8		22
101	Mechanism of TAp73 inhibition by Bp63 and structural basis of p63/p73 hetero-tetramerization. <i>Cell Death and Differentiation</i> , <b>2016</b> , 23, 1930-1940	12.7	22
100	LILBID and nESI: Different Native Mass Spectrometry Techniques as Tools in Structural Biology. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 181-191	3.5	21
99	From Nanodiscs to Isotropic Bicelles: A Procedure for Solution Nuclear Magnetic Resonance Studies of Detergent-Sensitive Integral Membrane Proteins. <i>Structure</i> , <b>2016</b> , 24, 1830-1841	5.2	21
98	Control mechanisms in germ cells mediated by p53 family proteins. <i>Journal of Cell Science</i> , <b>2017</b> ,	5.3	21
97	Structural and functional dissection of the DH and PH domains of oncogenic Bcr-Abl tyrosine kinase. <i>Nature Communications</i> , <b>2017</b> , 8, 2101	17.4	21
96	Ubiquitin linkages make a difference. <i>Nature Structural and Molecular Biology</i> , <b>2009</b> , 16, 1209-10	17.6	21
95	Induced structure of a helical switch as a mechanism to regulate enzymatic activity. <i>Nature Structural and Molecular Biology</i> , <b>2005</b> , 12, 1019-20	17.6	21
94	Apoptosis inhibitor 5 is an endogenous inhibitor of caspase-2. <i>EMBO Reports</i> , <b>2017</b> , 18, 733-744	6.5	20
93	Cell cycle arrest in mitosis promotes interferon-induced necroptosis. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 2046-2060	12.7	20
92	A general model for preferential hetero-oligomerization of LIN-2/7 domains: mechanism underlying directed assembly of supramolecular signaling complexes. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 38528-36	5.4	20
91	Protein aggregation of the p63 transcription factor underlies severe skin fragility in AEC syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E906-E915	11.5	19
90	Rat Organic Cation Transporter 1 Contains Three Binding Sites for Substrate 1-Methyl-4-phenylpyridinium per Monomer. <i>Molecular Pharmacology</i> , <b>2019</b> , 95, 169-182	4.3	19

89	FAM96A is a novel pro-apoptotic tumor suppressor in gastrointestinal stromal tumors. <i>International Journal of Cancer</i> , <b>2015</b> , 137, 1318-29	7.5	18
88	NMR studies reveal the role of biomembranes in modulating ligand binding and release by intracellular bile acid binding proteins. <i>Journal of Molecular Biology</i> , <b>2009</b> , 394, 852-63	6.5	18
87	Biosynthesis of membrane dependent proteins in insect cell lysates: identification of limiting parameters for folding and processing. <i>Biological Chemistry</i> , <b>2015</b> , 396, 1097-107	4.5	17
86	Site-specific inhibition of the small ubiquitin-like modifier (SUMO)-conjugating enzyme Ubc9 selectively impairs SUMO chain formation. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 15340-15351	5.4	17
85	From Gene to Function: Cell-Free Electrophysiological and Optical Analysis of Ion Pumps in Nanodiscs. <i>Biophysical Journal</i> , <b>2017</b> , 113, 1331-1341	2.9	16
84	Probing metallo- $\beta$ -lactamases with molecular fragments identified by consensus docking. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2015</b> , 25, 5243-6	2.9	16
83	Intrazelluläre NMR- und EPR-Spektroskopie von biologischen Makromolekülen. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 10466-10480	3.6	16
82	An atypical LIR motif within UBA5 (ubiquitin like modifier activating enzyme 5) interacts with GABARAP proteins and mediates membrane localization of UBA5. <i>Autophagy</i> , <b>2020</b> , 16, 256-270	10.2	16
81	Protein labeling strategies for liquid-state NMR spectroscopy using cell-free synthesis. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>2018</b> , 105, 1-22	10.4	16
80	Solution NMR Structure of Proteorhodopsin. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 12148-12152	3.6	15
79	Systematic optimization of cell-free synthesized human endothelin B receptor folding. <i>Methods</i> , <b>2018</b> , 147, 73-83	4.6	14
78	High-level cell-free production of membrane proteins with nanodiscs. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1118, 109-30	1.4	14
77	An extended combinatorial $^{15}\text{N}$ , $^{13}\text{C}$ and $^{13}\text{C}$ labeling approach to protein backbone resonance assignment. <i>Journal of Biomolecular NMR</i> , <b>2015</b> , 62, 263-79	3	14
76	Structural insights into Rcs phosphotransfer: the newly identified RcsD-ABL domain enhances interaction with the response regulator RcsB. <i>Structure</i> , <b>2011</b> , 19, 577-87	5.2	14
75	Insights into Cotranslational Membrane Protein Insertion by Combined LILBID-Mass Spectrometry and NMR Spectroscopy. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 12314-12318	7.8	13
74	Structure and Biophysical Characterization of the S-Adenosylmethionine-dependent O-Methyltransferase PaMTH1, a Putative Enzyme Accumulating during Senescence of <i>Podospira anserina</i> . <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 16415-30	5.4	13
73	Peak picking NMR spectral data using non-negative matrix factorization. <i>BMC Bioinformatics</i> , <b>2014</b> , 15, 46	3.6	13
72	One functional switch mediates reversible and irreversible inactivation of a herpesvirus protease. <i>Biochemistry</i> , <b>2006</b> , 45, 3572-9	3.2	13

71	Chain Assembly and Disassembly Processes Differently Affect the Conformational Space of Ubiquitin Chains. <i>Structure</i> , <b>2018</b> , 26, 249-258.e4	5.2	11
70	Time-shared experiments for efficient assignment of triple-selectively labeled proteins. <i>Journal of Magnetic Resonance</i> , <b>2014</b> , 248, 81-95	3	11
69	Labeling of membrane proteins by cell-free expression. <i>Methods in Enzymology</i> , <b>2015</b> , 565, 367-88	1.7	11
68	Triple-resonance methods for complete resonance assignment of aromatic protons and directly bound heteronuclei in histidine and tryptophan residues. <i>Journal of Biomolecular NMR</i> , <b>2005</b> , 32, 309-28 <sup>3</sup>		11
67	Cell-free expression of G-protein-coupled receptors. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1261, 171-95	1.4	11
66	In-Cell NMR Spectroscopy of Functional Riboswitch Aptamers in Eukaryotic Cells. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 865-872	16.4	11
65	Stabilisation and characterisation of the isolated regulatory domain of human 5-lipoxygenase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2014</b> , 1842, 1538-47	5	10
64	The synaptic vesicle protein SV31 assembles into a dimer and transports Zn. <i>Journal of Neurochemistry</i> , <b>2017</b> , 140, 280-293	6	10
63	Cell-free expression of G-protein coupled receptors: new pipelines for challenging targets. <i>Biological Chemistry</i> , <b>2014</b> , 395, 1425-34	4.5	10
62	Characterization of the ground state dynamics of proteorhodopsin by NMR and optical spectroscopies. <i>Journal of Biomolecular NMR</i> , <b>2012</b> , 54, 401-13	3	10
61	Phenotypic analysis of Arg227 mutations of TP63 with emphasis on dental phenotype and micturition difficulties in EEC syndrome. <i>American Journal of Medical Genetics, Part A</i> , <b>2011</b> , 155A, 228-32 <sup>2.5</sup>		10
60	The better tag remains unseen. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14932-3	16.4	10
59	Reprint of "Cell-free production of G protein-coupled receptors for functional and structural studies" [J. Struct. Biol. 158 (2007) 482-493]. <i>Journal of Structural Biology</i> , <b>2007</b> , 159, 194-205	3.4	10
58	Co-translational stabilization of insoluble proteins in cell-free expression systems. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1258, 125-43	1.4	10
57	DNA Damaged Induced Cell Death in Oocytes. <i>Molecules</i> , <b>2020</b> , 25,	4.8	10
56	Ubiquitination in the ERAD Process. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	10
55	Regulation of the Activity in the p53 Family Depends on the Organization of the Transactivation Domain. <i>Structure</i> , <b>2018</b> , 26, 1091-1100.e4	5.2	10
54	Assembling a Correctly Folded and Functional Heptahelical Membrane Protein by Protein Trans-splicing. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 27712-22	5.4	9

53	Mutation in SAM domain of TP63 is associated with nonsyndromic cleft lip and palate and cleft palate. <i>American Journal of Medical Genetics, Part A</i> , <b>2011</b> , 155A, 1432-6	2.5	9
52	Tracing the protectors path from the germ line to the genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 15318-25	11.5	9
51	p63 uses a switch-like mechanism to set the threshold for induction of apoptosis. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 1078-1086	11.7	9
50	Design, Synthesis, and Evaluation of WD-Repeat-Containing Protein 5 (WDR5) Degraders. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 10682-10710	8.3	9
49	The p63 C-terminus is essential for murine oocyte integrity. <i>Nature Communications</i> , <b>2021</b> , 12, 383	17.4	9
48	Acceleration of protein backbone NMR assignment by combinatorial labeling: Application to a small molecule binding study. <i>Biopolymers</i> , <b>2017</b> , 107, e23013	2.2	8
47	Deletions and loss-of-function variants in TP63 associated with orofacial clefting. <i>European Journal of Human Genetics</i> , <b>2019</b> , 27, 1101-1112	5.3	7
46	Precursor-Based Selective Methyl Labeling of Cell-Free Synthesized Proteins. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2170-2178	4.9	7
45	SPLICEFINDER - a fast and easy screening method for active protein trans-splicing positions. <i>PLoS ONE</i> , <b>2013</b> , 8, e72925	3.7	7
44	Disease-linked TDP-43 hyperphosphorylation suppresses TDP-43 condensation and aggregation.. <i>EMBO Journal</i> , <b>2022</b> , e108443	13	7
43	Discovery of Protein-Protein Interaction Inhibitors by Integrating Protein Engineering and Chemical Screening Platforms. <i>Cell Chemical Biology</i> , <b>2020</b> , 27, 1441-1451.e7	8.2	7
42	The UBA domain of conjugating enzyme Ubc1/Ube2K facilitates assembly of K48/K63-branched ubiquitin chains. <i>EMBO Journal</i> , <b>2021</b> , 40, e106094	13	7
41	Oxygen-dependent asparagine hydroxylation of the ubiquitin-associated (UBA) domain in Cezanne regulates ubiquitin binding. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 2160-2174	5.4	6
40	Conformational stabilization of the membrane embedded targeting domain of the lysosomal peptide transporter TAPL for solution NMR. <i>Journal of Biomolecular NMR</i> , <b>2013</b> , 57, 141-54	3	6
39	Structural and functional insights into the interaction and targeting hub TMD0 of the polypeptide transporter TAPL. <i>Scientific Reports</i> , <b>2018</b> , 8, 15662	4.9	6
38	Lipid Conversion by Cell-Free Synthesized Phospholipid Methyltransferase Opi3 in Defined Nanodisc Membranes Supports an in Trans Mechanism. <i>Biochemistry</i> , <b>2018</b> , 57, 5780-5784	3.2	6
37	Structural investigations of the p53/p73 homologs from the tunicate species <i>Ciona intestinalis</i> reveal the sequence requirements for the formation of a tetramerization domain. <i>Protein Science</i> , <b>2016</b> , 25, 410-22	6.3	5
36	Cell-free expression of human glucosamine 6-phosphate N-acetyltransferase (HsGNA1) for inhibitor screening. <i>Protein Expression and Purification</i> , <b>2012</b> , 86, 120-6	2	5

35	TA*p63 and GTAp63 achieve tighter transcriptional regulation in quality control by converting an inhibitory element into an additional transactivation domain. <i>Cell Death and Disease</i> , <b>2019</b> , 10, 686	9.8	4
34	Structural investigation of glycan recognition by the ERAD quality control lectin Yos9. <i>Journal of Biomolecular NMR</i> , <b>2018</b> , 72, 1-10	3	4
33	A cost-effective amino-acid-type selective isotope labeling of proteins expressed in <i>Leishmania tarentolae</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2009</b> , 26, 755-61	3.6	4
32	Investigation of proteins in living bacteria with in-cell NMR experiments. <i>Topics in Current Chemistry</i> , <b>2008</b> , 273, 203-14		4
31	Characterization of a natural variant of human NDP52 and its functional consequences on mitophagy. <i>Cell Death and Differentiation</i> , <b>2021</b> , 28, 2499-2516	12.7	4
30	Demonstrating Ligandability of the LC3A and LC3B Adapter Interface. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 3720-3746	8.3	4
29	Synthetic Biology-Based Solution NMR Studies on Membrane Proteins in Lipid Environments. <i>Methods in Enzymology</i> , <b>2019</b> , 614, 143-185	1.7	4
28	Towards complete polypeptide backbone NH assignment via combinatorial labeling. <i>Journal of Magnetic Resonance</i> , <b>2019</b> , 302, 50-63	3	3
27	Rapid identification of protein-protein interfaces for the construction of a complex model based on multiple unassigned signals by using time-sharing NMR measurements. <i>Journal of Structural Biology</i> , <b>2011</b> , 174, 434-42	3.4	3
26	How to create a specific recognition for an unspecific interaction. <i>Structure</i> , <b>2011</b> , 19, 601-2	5.2	3
25	Improved accuracy in measuring one-bond and two-bond (15)N, (13)C J coupling constants in proteins by double-inphase/antiphase (DIPAP) spectroscopy. <i>Journal of Biomolecular NMR</i> , <b>2011</b> , 50, 167-90	3	3
24	Protein-DNA interactions. <i>Methods in Enzymology</i> , <b>2001</b> , 339, 343-57	1.7	3
23	How to switch a master switch. <i>ELife</i> , <b>2013</b> , 2, e01159	8.9	3
22	Membrane Protein Quality Control in Cell-Free Expression Systems: Tools, Strategies and Case Studies <b>2014</b> , 45-70		3
21	Isoform-Specific Roles of Mutant p63 in Human Diseases. <i>Cancers</i> , <b>2021</b> , 13,	6.6	3
20	Molecular Determinants for Ligand Selectivity of the Cell-Free Synthesized Human Endothelin B Receptor. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 5105-5119	6.5	3
19	CHK2 sets the stage for CK1 in oocyte quality control. <i>Cell Death and Differentiation</i> , <b>2018</b> , 25, 1007-1009	2.7	2
18	Structural Investigation of Cell-Free Expressed Membrane Proteins <b>2012</b> , 496-508		2

17	Fast automated NMR spectroscopy of short-lived biological samples. <i>ChemBioChem</i> , <b>2012</b> , 13, 964-7	3.8	2
16	Modulation of the Rcs-mediated signal transfer by conformational flexibility. <i>Biochemical Society Transactions</i> , <b>2008</b> , 36, 1427-32	5.1	2
15	NMR assignment of <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N resonances of the truncated Escherichia coli RcsC (700-949), including the phosphoreceiver domain. <i>Journal of Biomolecular NMR</i> , <b>2007</b> , 38, 165	3	2
14	Assignment of ( <sup>1</sup> H), ( <sup>13</sup> C) and ( <sup>15</sup> N) resonances of the Escherichia coli YojN histidine-phosphotransferase (HPT) domain. <i>Journal of Biomolecular NMR</i> , <b>2004</b> , 30, 103-4	3	2
13	Characterization of protein-solvent interactions with NMR-spectroscopy: The role of urea in the unfolding of proteins. <i>Pharmaceutica Acta Helveticae</i> , <b>1996</b> , 71, 87-96		2
12	Membrane insertion mechanism and molecular assembly of the bacteriophage lysis toxin $\lambda$ 174-E. <i>FEBS Journal</i> , <b>2021</b> , 288, 3300-3316	5.7	2
11	A TP63 Mutation Causes Prominent Alopecia with Mild Ectodermal Dysplasia. <i>Journal of Investigative Dermatology</i> , <b>2020</b> , 140, 1103-1106.e4	4.3	1
10	Mechanisms of quality control differ in male and female germ cells. <i>Cell Death and Differentiation</i> , <b>2021</b> , 28, 2300-2302	12.7	1
9	Enhanced pro-apoptosis gene signature following the activation of TP63 in oocytes upon $\gamma$ irradiation.. <i>Cell Death and Disease</i> , <b>2022</b> , 13, 204	9.8	1
8	In-Cell NMR Spectroscopy of Functional Riboswitch Aptamers in Eukaryotic Cells. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 878-885	3.6	0
7	Screening Methods for Cell-Free Synthesized GPCR/Nanoparticle Samples. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2268, 97-117	1.4	0
6	Cell-Free Expression of GPCRs into Nanomembranes for Functional and Structural Studies. <i>Methods in Molecular Biology</i> , <b>2022</b> , 405-424	1.4	0
5	On track to tenure-track. <i>EMBO Reports</i> , <b>2009</b> , 10, 936-7	6.5	
4	Cell-Free Expression of Integral Membrane Proteins for Structural Studies141-164		
3	NMR assignment of the L27 heterodimer from LIN-2 and LIN-7 scaffold proteins. <i>Journal of Biomolecular NMR</i> , <b>2006</b> , 36 Suppl 1, 15	3	
2	Applications of Cell-Free Synthesized Membrane Protein Precipitates.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2406, 245-266	1.4	
1	NMR Strategies for Protein Assignments. <i>Methods and Principles in Medicinal Chemistry</i> , <b>2002</b> , 79-94	0.4	