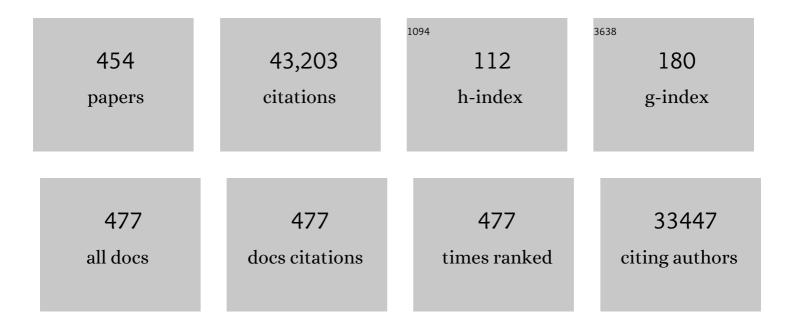
Carol V Robinson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Instability, unfolding and aggregation of human lysozyme variants underlying amyloid fibrillogenesis. Nature, 1997, 385, 787-793.	13.7	1,061
2	lon mobility–mass spectrometry analysis of large protein complexes. Nature Protocols, 2008, 3, 1139-1152.	5.5	973
3	Amyloid-β protein oligomerization and the importance of tetramers and dodecamers in the aetiology of Alzheimer's disease. Nature Chemistry, 2009, 1, 326-331.	6.6	835
4	Collision Cross Sections of Proteins and Their Complexes: A Calibration Framework and Database for Gas-Phase Structural Biology. Analytical Chemistry, 2010, 82, 9557-9565.	3.2	694
5	Membrane proteins bind lipids selectively to modulate their structure and function. Nature, 2014, 510, 172-175.	13.7	665
6	Bayesian Deconvolution of Mass and Ion Mobility Spectra: From Binary Interactions to Polydisperse Ensembles. Analytical Chemistry, 2015, 87, 4370-4376.	3.2	663
7	Targeting C-reactive protein for the treatment of cardiovascular disease. Nature, 2006, 440, 1217-1221.	13.7	621
8	Determining the stoichiometry and interactions of macromolecular assemblies from mass spectrometry. Nature Protocols, 2007, 2, 715-726.	5.5	597
9	Detection of transient protein folding populations by mass spectrometry. Science, 1993, 262, 896-900.	6.0	590
10	Evidence for Macromolecular Protein Rings in the Absence of Bulk Water. Science, 2005, 310, 1658-1661.	6.0	551
11	The molecular sociology of the cell. Nature, 2007, 450, 973-982.	13.7	497
12	A Tandem Mass Spectrometer for Improved Transmission and Analysis of Large Macromolecular Assemblies. Analytical Chemistry, 2002, 74, 1402-1407.	3.2	481
13	Formation of insulin amyloid fibrils followed by FTIR simultaneously with CD and electron microscopy. Protein Science, 2000, 9, 1960-1967.	3.1	453
14	The structure of the dynactin complex and its interaction with dynein. Science, 2015, 347, 1441-1446.	6.0	389
15	Assembly reflects evolution of protein complexes. Nature, 2008, 453, 1262-1265.	13.7	383
16	Protein Complexes in the Gas Phase:  Technology for Structural Genomics and Proteomics. Chemical Reviews, 2007, 107, 3544-3567.	23.0	376
17	Mass spectrometry of intact membrane protein complexes. Nature Protocols, 2013, 8, 639-651.	5.5	354
18	The role of interfacial lipids in stabilizing membrane protein oligomers. Nature, 2017, 541, 421-424.	13.7	344

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19	Molecular recycling within amyloid fibrils. Nature, 2005, 436, 554-558.	13.7	342
20	Structural Characterization of Drug-like Compounds by Ion Mobility Mass Spectrometry: Comparison of Theoretical and Experimentally Derived Nitrogen Collision Cross Sections. Analytical Chemistry, 2012, 84, 1026-1033.	3.2	340
21	The Role of Mass Spectrometry in Structure Elucidation of Dynamic Protein Complexes. Annual Review of Biochemistry, 2007, 76, 167-193.	5.0	337
22	Micelles Protect Membrane Complexes from Solution to Vacuum. Science, 2008, 321, 243-246.	6.0	333
23	An Oligomeric Signaling Platform Formed by the Toll-like Receptor Signal Transducers MyD88 and IRAK-4. Journal of Biological Chemistry, 2009, 284, 25404-25411.	1.6	323
24	Class I HDACs Share a Common Mechanism of Regulation by Inositol Phosphates. Molecular Cell, 2013, 51, 57-67.	4.5	314
25	Probing the Nature of Noncovalent Interactions by Mass Spectrometry. A Study of Proteinâ^'CoA Ligand Binding and Assembly. Journal of the American Chemical Society, 1996, 118, 8646-8653.	6.6	304
26	Structures of SAS-6 Suggest Its Organization in Centrioles. Science, 2011, 331, 1196-1199.	6.0	284
27	Ion Mobility Mass Spectrometry of Peptide Ions: Effects of Drift Gas and Calibration Strategies. Analytical Chemistry, 2012, 84, 7124-7130.	3.2	281
28	Structure of a designed protein cage that self-assembles into a highly porous cube. Nature Chemistry, 2014, 6, 1065-1071.	6.6	267
29	Crystal structures of truncated alphaA and alphaB crystallins reveal structural mechanisms of polydispersity important for eye lens function. Protein Science, 2010, 19, 1031-1043.	3.1	264
30	Programmable polyproteams built using twin peptide superglues. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1202-1207.	3.3	262
31	Characterization of the Oligomeric States of Insulin in Self-Assembly and Amyloid Fibril Formation by Mass Spectrometry. Biophysical Journal, 2000, 79, 1053-1065.	0.2	258
32	PAXX, a paralog of XRCC4 and XLF, interacts with Ku to promote DNA double-strand break repair. Science, 2015, 347, 185-188.	6.0	252
33	Mass Spectrometry of Intact V-Type ATPases Reveals Bound Lipids and the Effects of Nucleotide Binding. Science, 2011, 334, 380-385.	6.0	251
34	The Fas–FADD death domain complex structure reveals the basis of DISC assembly and disease mutations. Nature Structural and Molecular Biology, 2010, 17, 1324-1329.	3.6	236
35	PtdIns(4,5)P2 stabilizes active states of GPCRs and enhances selectivity of G-protein coupling. Nature, 2018, 559, 423-427.	13.7	236
36	Polydispersity of a mammalian chaperone: Mass spectrometry reveals the population of oligomers in ÂB-crystallin. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10611-10616.	3.3	235

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37	Mass spectrometry reveals modularity and a complete subunit interaction map of the eukaryotic translation factor elF3. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18139-18144.	3.3	233
38	Quaternary dynamics and plasticity underlie small heat shock protein chaperone function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2007-2012.	3.3	231
39	Collision Cross Sections for Structural Proteomics. Structure, 2015, 23, 791-799.	1.6	231
40	Biomimetic spinning of artificial spider silk from a chimeric minispidroin. Nature Chemical Biology, 2017, 13, 262-264.	3.9	231
41	A camelid antibody fragment inhibits the formation of amyloid fibrils by human lysozyme. Nature, 2003, 424, 783-788.	13.7	227
42	Charge-State Dependent Compaction and Dissociation of Protein Complexes: Insights from Ion Mobility and Molecular Dynamics. Journal of the American Chemical Society, 2012, 134, 3429-3438.	6.6	223
43	Conformation of GroEL-bound \hat{i} ±-lactalbumin probed by mass spectrometry. Nature, 1994, 372, 646-651.	13.7	221
44	Aspects of native proteins are retained in vacuum. Current Opinion in Chemical Biology, 2006, 10, 402-408.	2.8	217
45	Protein Complexes Are under Evolutionary Selection to Assemble via Ordered Pathways. Cell, 2013, 153, 461-470.	13.5	215
46	Ion Mobility–Mass Spectrometry Reveals Longâ€Lived, Unfolded Intermediates in the Dissociation of Protein Complexes. Angewandte Chemie - International Edition, 2007, 46, 8001-8004.	7.2	213
47	Detection and selective dissociation of intact ribosomes in a mass spectrometer. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 5185-5190.	3.3	209
48	Local cooperativity in the unfolding of an amyloidogenic variant of human lysozyme. Nature Structural Biology, 2002, 9, 308-315.	9.7	208
49	Tandem Mass Spectrometry Reveals the Quaternary Organization of Macromolecular Assemblies. Chemistry and Biology, 2006, 13, 597-605.	6.2	206
50	High-resolution mass spectrometry of small molecules bound to membrane proteins. Nature Methods, 2016, 13, 333-336.	9.0	205
51	Electrospray Time-of-Flight Mass Spectrometry of the Intact MS2 Virus Capsid. Journal of the American Chemical Society, 2000, 122, 3550-3551.	6.6	199
52	Mass spectrometry of macromolecular assemblies: preservation and dissociation. Current Opinion in Structural Biology, 2006, 16, 245-251.	2.6	199
53	Interaction of the Molecular Chaperone αB-Crystallin with α-Synuclein: Effects on Amyloid Fibril Formation and Chaperone Activity. Journal of Molecular Biology, 2004, 340, 1167-1183.	2.0	198
54	Principles of assembly reveal a periodic table of protein complexes. Science, 2015, 350, aaa2245.	6.0	198

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55	Structural basis for nutrient acquisition by dominant members of the human gut microbiota. Nature, 2017, 541, 407-411.	13.7	188
56	Protein Complexes of the Escherichia coli Cell Envelope*. Journal of Biological Chemistry, 2005, 280, 34409-34419.	1.6	183
57	Structure of the CRISPR Interference Complex CSM Reveals Key Similarities with Cascade. Molecular Cell, 2013, 52, 124-134.	4.5	181
58	The structured core domain of αB-crystallin can prevent amyloid fibrillation and associated toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1562-70.	3.3	181
59	Subunit Exchange of Multimeric Protein Complexes. Journal of Biological Chemistry, 2002, 277, 38921-38929.	1.6	180
60	The Co-chaperone p23 Arrests the Hsp90 ATPase Cycle to Trap Client Proteins. Journal of Molecular Biology, 2006, 356, 746-758.	2.0	179
61	Structural Organization of the 19S Proteasome Lid: Insights from MS of Intact Complexes. PLoS Biology, 2006, 4, e267.	2.6	176
62	Investigation of protein folding by mass spectrometry. FASEB Journal, 1996, 10, 93-101.	0.2	175
63	Recognition of a signal peptide by the signal recognition particle. Nature, 2010, 465, 507-510.	13.7	172
64	Mass Spectrometry of Protein Complexes: From Origins to Applications. Annual Review of Physical Chemistry, 2015, 66, 453-474.	4.8	169
65	Subunit architecture of multimeric complexes isolated directly from cells. EMBO Reports, 2006, 7, 605-610.	2.0	168
66	Protein subunit interactions and structural integrity of amyloidogenic transthyretins: evidence from electrospray mass spectrometry. Journal of Molecular Biology, 1998, 281, 553-564.	2.0	167
67	Mass Measurements of Increased Accuracy Resolve Heterogeneous Populations of Intact Ribosomes. Journal of the American Chemical Society, 2006, 128, 11433-11442.	6.6	166
68	Mechanistic Studies of the Folding of Human Lysozyme and the Origin of Amyloidogenic Behavior in Its Disease-Related Variants. Biochemistry, 1999, 38, 6419-6427.	1.2	165
69	Mass spectrometry of membrane transporters reveals subunit stoichiometry and interactions. Nature Methods, 2009, 6, 585-587.	9.0	164
70	Structure of the TatC core of the twin-arginine protein transport system. Nature, 2012, 492, 210-214.	13.7	164
71	Coupling Microdroplet Microreactors with Mass Spectrometry: Reading the Contents of Single Droplets Online. Angewandte Chemie - International Edition, 2009, 48, 3665-3668.	7.2	162
72	Detection of the Intact GroEL Chaperonin Assembly by Mass Spectrometry. Journal of the American Chemical Society, 1999, 121, 4718-4719.	6.6	161

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73	Thermal Dissociation of Multimeric Protein Complexes by Using Nanoelectrospray Mass Spectrometry. Analytical Chemistry, 2003, 75, 2208-2214.	3.2	161
74	The role of lipids in mechanosensation. Nature Structural and Molecular Biology, 2015, 22, 991-998.	3.6	160
75	The structural basis for CD36 binding by the malaria parasite. Nature Communications, 2016, 7, 12837.	5.8	160
76	Mimicking phosphorylation of αB-crystallin affects its chaperone activity. Biochemical Journal, 2007, 401, 129-141.	1.7	159
77	Mass spectrometry reveals synergistic effects of nucleotides, lipids, and drugs binding to a multidrug resistance efflux pump. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9704-9709.	3.3	156
78	Protein assemblies ejected directly from native membranes yield complexes for mass spectrometry. Science, 2018, 362, 829-834.	6.0	155
79	Studies of the RNA Degradosome-organizing Domain of the Escherichia coli Ribonuclease RNase E. Journal of Molecular Biology, 2004, 340, 965-979.	2.0	153
80	Structural Insights into the Activity of Enhancer-Binding Proteins. Science, 2005, 307, 1972-1975.	6.0	153
81	Structure of the core of the type III secretion system export apparatus. Nature Structural and Molecular Biology, 2018, 25, 583-590.	3.6	153
82	Structure of V-ATPase from the mammalian brain. Science, 2020, 367, 1240-1246.	6.0	153
83	Detergent-free mass spectrometry of membrane protein complexes. Nature Methods, 2013, 10, 1206-1208.	9.0	152
84	Structural basis for the subunit assembly of the anaphase-promoting complex. Nature, 2011, 470, 227-232.	13.7	150
85	Do Charge State Signatures Guarantee Protein Conformations?. Journal of the American Society for Mass Spectrometry, 2012, 23, 1161-1168.	1.2	149
86	A mass spectrometry–based hybrid method for structural modeling of protein complexes. Nature Methods, 2014, 11, 403-406.	9.0	149
87	Alternate Dissociation Pathways Identified in Charge-Reduced Protein Complex Ions. Analytical Chemistry, 2010, 82, 5363-5372.	3.2	145
88	Phosphorylation of αB-Crystallin Alters Chaperone Function through Loss of Dimeric Substructure. Journal of Biological Chemistry, 2004, 279, 28675-28680.	1.6	144
89	Twenty Years of Gas Phase Structural Biology. Structure, 2013, 21, 1541-1550.	1.6	143
90	Gas-Phase Unfolding and Disassembly Reveals Stability Differences in Ligand-Bound Multiprotein Complexes. Chemistry and Biology, 2009, 16, 382-390.	6.2	141

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91	Advances in the Mass Spectrometry of Membrane Proteins: From Individual Proteins to Intact Complexes. Annual Review of Biochemistry, 2011, 80, 247-271.	5.0	141
92	Atomic model for the membrane-embedded VO motor of a eukaryotic V-ATPase. Nature, 2016, 539, 118-122.	13.7	141
93	<i>Mass</i> ign: An Assignment Strategy for Maximizing Information from the Mass Spectra of Heterogeneous Protein Assemblies. Analytical Chemistry, 2012, 84, 2939-2948.	3.2	140
94	Protein complexes gain momentum. Current Opinion in Structural Biology, 2002, 12, 729-734.	2.6	138
95	Travelingâ€wave ion mobility mass spectrometry of protein complexes: accurate calibrated collision crossâ€sections of human insulin oligomers. Rapid Communications in Mass Spectrometry, 2012, 26, 1181-1193.	0.7	138
96	Structural insights into the lipid and ligand regulation of serotonin receptors. Nature, 2021, 592, 469-473.	13.7	138
97	Quantifying the stabilizing effects of protein–ligand interactions in the gas phase. Nature Communications, 2015, 6, 8551.	5.8	136
98	Defining the mechanism of polymerization in the serpinopathies. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17146-17151.	3.3	135
99	Oxygenase-catalyzed ribosome hydroxylation occurs in prokaryotes and humans. Nature Chemical Biology, 2012, 8, 960-962.	3.9	135
100	Heptameric (L12)6/L10 rather than canonical pentameric complexes are found by tandem MS of intact ribosomes from thermophilic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8192-8197.	3.3	134
101	The role of lipids in defining membrane protein interactions: insights from mass spectrometry. Trends in Cell Biology, 2013, 23, 1-8.	3.6	134
102	Structural evolution of p53, p63, and p73: Implication for heterotetramer formation. Proceedings of the United States of America, 2009, 106, 17705-17710.	3.3	133
103	Symmetrical Modularity of the COP9 Signalosome Complex Suggests its Multifunctionality. Structure, 2009, 17, 31-40.	1.6	133
104	Crystal structure of the open conformation of the mammalian chaperonin CCT in complex with tubulin. Nature Structural and Molecular Biology, 2011, 18, 14-19.	3.6	128
105	Steroid-based facial amphiphiles for stabilization and crystallization of membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1203-11.	3.3	127
106	Architecture of eukaryotic mRNA $3\hat{a}\in^2$ -end processing machinery. Science, 2017, 358, 1056-1059.	6.0	124
107	Subunit Architecture of Intact Protein Complexes from Mass Spectrometry and Homology Modeling. Accounts of Chemical Research, 2008, 41, 617-627.	7.6	123
108	αB-Crystallin Polydispersity Is a Consequence of Unbiased Quaternary Dynamics. Journal of Molecular Biology, 2011, 413, 297-309.	2.0	122

7

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109	Comparative cross-linking and mass spectrometry of an intact F-type ATPase suggest a role for phosphorylation. Nature Communications, 2013, 4, 1985.	5.8	122
110	Optimal Synthetic Glycosylation of a Therapeutic Antibody. Angewandte Chemie - International Edition, 2016, 55, 2361-2367.	7.2	122
111	Membrane Protein–Lipid Interactions Probed Using Mass Spectrometry. Annual Review of Biochemistry, 2019, 88, 85-111.	5.0	121
112	Integrating Ion Mobility Mass Spectrometry with Molecular Modelling to Determine the Architecture of Multiprotein Complexes. PLoS ONE, 2010, 5, e12080.	1.1	119
113	Correlating Solution Binding and ESI-MS Stabilities by Incorporating Solvation Effects in a Confined Cucurbit[8]uril System. Journal of Physical Chemistry B, 2010, 114, 8606-8615.	1.2	118
114	The Role of the Detergent Micelle in Preserving the Structure of Membrane Proteins in the Gas Phase. Angewandte Chemie - International Edition, 2015, 54, 4577-4581.	7.2	117
115	An electron transfer path connects subunits of a mycobacterial respiratory supercomplex. Science, 2018, 362, .	6.0	117
116	Structural Characterization of the Human Eukaryotic Initiation Factor 3 Protein Complex by Mass Spectrometry. Molecular and Cellular Proteomics, 2007, 6, 1135-1146.	2.5	116
117	Tandem Differential Mobility Analysis-Mass Spectrometry Reveals Partial Gas-Phase Collapse of the GroEL Complex. Journal of Physical Chemistry B, 2011, 115, 3614-3621.	1.2	116
118	A subset of annular lipids is linked to the flippase activity of an ABC transporter. Nature Chemistry, 2015, 7, 255-262.	6.6	112
119	The antibiotic darobactin mimics a β-strand to inhibit outer membrane insertase. Nature, 2021, 593, 125-129.	13.7	112
120	Combining native and â€~omics' mass spectrometry to identify endogenous ligands bound to membrane proteins. Nature Methods, 2020, 17, 505-508.	9.0	111
121	Structural Modeling of Heteromeric Protein Complexes from Disassembly Pathways and Ion Mobility-Mass Spectrometry. Structure, 2012, 20, 1596-1609.	1.6	110
122	Subunit Exchange of Polydisperse Proteins. Journal of Biological Chemistry, 2005, 280, 14485-14491.	1.6	109
123	Experimental characterization of disordered and ordered aggregates populated during the process of amyloid fibril formation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7828-7833.	3.3	109
124	Intrinsically Disordered Protein Threads Through the Bacterial Outer-Membrane Porin OmpF. Science, 2013, 340, 1570-1574.	6.0	109
125	A novel mechanoâ€enzymatic cleavage mechanism underlies transthyretin amyloidogenesis. EMBO Molecular Medicine, 2015, 7, 1337-1349.	3.3	109
126	Structure of native lens connexin 46/50 intercellular channels by cryo-EM. Nature, 2018, 564, 372-377.	13.7	107

8

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127	Human Antibodies that Slow Erythrocyte Invasion Potentiate Malaria-Neutralizing Antibodies. Cell, 2019, 178, 216-228.e21.	13.5	107
128	Screening Transthyretin Amyloid Fibril Inhibitors. Structure, 2002, 10, 851-863.	1.6	106
129	Observation of the noncovalent assembly and disassembly pathways of the chaperone complex MtGimC by mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 14151-14155.	3.3	102
130	Characterising electrosprayed biomolecules using tandem-MS—the noncovalent GroEL chaperonin assembly. International Journal of Mass Spectrometry, 2004, 236, 25-32.	0.7	102
131	Efficient protein production inspired by how spiders make silk. Nature Communications, 2017, 8, 15504.	5.8	102
132	Reduced Global Cooperativity is a Common Feature Underlying the Amyloidogenicity of Pathogenic Lysozyme Mutations. Journal of Molecular Biology, 2005, 346, 773-788.	2.0	100
133	Small Heat Shock Protein Activity Is Regulated by Variable Oligomeric Substructure. Journal of Biological Chemistry, 2008, 283, 28513-28517.	1.6	99
134	Subunit Architecture of Multiprotein Assemblies Determined Using Restraints from Gas-Phase Measurements. Structure, 2009, 17, 1235-1243.	1.6	99
135	Mass spectrometry guided structural biology. Current Opinion in Structural Biology, 2016, 40, 136-144.	2.6	98
136	Kinetic Consequences of the Removal of a Disulfide Bridge on the Folding of Hen Lysozyme. Biochemistry, 1994, 33, 13038-13048.	1.2	97
137	Probing the Lipid Annular Belt by Gasâ€Phase Dissociation of Membrane Proteins in Nanodiscs. Angewandte Chemie - International Edition, 2016, 55, 550-554.	7.2	95
138	N-glycan microheterogeneity regulates interactions of plasma proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8763-8768.	3.3	94
139	MmpL3 is a lipid transporter that binds trehalose monomycolate and phosphatidylethanolamine. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11241-11246.	3.3	94
140	Aβ40 and Aβ42 Amyloid Fibrils Exhibit Distinct Molecular Recycling Properties. Journal of the American Chemical Society, 2011, 133, 6505-6508.	6.6	93
141	A comparative cross-linking strategy to probe conformational changes in protein complexes. Nature Protocols, 2014, 9, 2224-2236.	5.5	93
142	Hsp70 Forms Antiparallel Dimers Stabilized by Post-translational Modifications to Position Clients for Transfer to Hsp90. Cell Reports, 2015, 11, 759-769.	2.9	93
143	Allosteric Inhibition of the SARS oVâ€2 Main Protease: Insights from Mass Spectrometry Based Assays**. Angewandte Chemie - International Edition, 2020, 59, 23544-23548.	7.2	92
144	Dodecameric Structure of the Small Heat Shock Protein Acr1 from Mycobacterium tuberculosis. Journal of Biological Chemistry, 2005, 280, 33419-33425.	1.6	91

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145	Proteolytic cleavage of Ser52Pro variant transthyretin triggers its amyloid fibrillogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1539-1544.	3.3	91
146	Hydrogen exchange properties of proteins in native and denatured states monitored by mass spectrometry and NMR. Protein Science, 1997, 6, 1316-1324.	3.1	90
147	Disassembly of intact multiprotein complexes in the gas phase. Current Opinion in Structural Biology, 1999, 9, 135-141.	2.6	89
148	MacB ABC Transporter Is a Dimer Whose ATPase Activity and Macrolide-binding Capacity Are Regulated by the Membrane Fusion Protein MacA. Journal of Biological Chemistry, 2009, 284, 1145-1154.	1.6	88
149	Structures of a Complete Human V-ATPase Reveal Mechanisms of Its Assembly. Molecular Cell, 2020, 80, 501-511.e3.	4.5	88
150	Heteronuclear NMR investigations of dynamic regions of intact Escherichia coli ribosomes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10949-10954.	3.3	87
151	Tandem Mass Spectrometry of Intact GroELâ^'Substrate Complexes Reveals Substrate-Specific Conformational Changes in thetransRing. Journal of the American Chemical Society, 2006, 128, 4694-4702.	6.6	87
152	Intrinsically Disordered p53 and Its Complexes Populate Compact Conformations in the Gas Phase. Angewandte Chemie - International Edition, 2013, 52, 361-365.	7.2	85
153	Ion mobility–mass spectrometry of a rotary ATPase reveals ATP-induced reduction in conformational flexibility. Nature Chemistry, 2014, 6, 208-215.	6.6	85
154	Identifying key membrane protein lipid interactions using mass spectrometry. Nature Protocols, 2018, 13, 1106-1120.	5.5	85
155	Cryo-EM structures provide insight into how E. coli F1Fo ATP synthase accommodates symmetry mismatch. Nature Communications, 2020, 11, 2615.	5.8	85
156	The Extracellular Chaperone Clusterin Potently Inhibits Human Lysozyme Amyloid Formation by Interacting with Prefibrillar Species. Journal of Molecular Biology, 2007, 369, 157-167.	2.0	84
157	Super-complexes of adhesion GPCRs and neural guidance receptors. Nature Communications, 2016, 7, 11184.	5.8	84
158	The Role of Salt Bridges, Charge Density, and Subunit Flexibility in Determining Disassembly Routes of Protein Complexes. Structure, 2013, 21, 1325-1337.	1.6	82
159	Polypyrimidine Tract Binding Protein Stabilizes the Encephalomyocarditis Virus IRES Structure via Binding Multiple Sites in a Unique Orientation. Molecular Cell, 2009, 34, 556-568.	4.5	81
160	Interaction of the p53 DNA-Binding Domain with Its N-Terminal Extension Modulates the Stability of the p53 Tetramer. Journal of Molecular Biology, 2011, 409, 358-368.	2.0	81
161	Acetylation of lysine 120 of p53 endows DNA-binding specificity at effective physiological salt concentration. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8251-8256.	3.3	81
162	Structure of the Fanconi anaemia monoubiquitin ligase complex. Nature, 2019, 575, 234-237.	13.7	80

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163	State-dependent Lipid Interactions with the A2a Receptor Revealed by MD Simulations Using InÂVivo-Mimetic Membranes. Structure, 2019, 27, 392-403.e3.	1.6	80
164	In Situ Structure of an Intact Lipopolysaccharide-Bound Bacterial Surface Layer. Cell, 2020, 180, 348-358.e15.	13.5	79
165	Architecture and dynamics of an A-kinase anchoring protein 79 (AKAP79) signaling complex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6426-6431.	3.3	78
166	Structural basis for hijacking siderophore receptors by antimicrobial lasso peptides. Nature Chemical Biology, 2014, 10, 340-342.	3.9	78
167	Ion Mobility Mass Spectrometry of Two Tetrameric Membrane Protein Complexes Reveals Compact Structures and Differences in Stability and Packing. Journal of the American Chemical Society, 2010, 132, 15468-15470.	6.6	77
168	Cytoplasmic TAF2–TAF8–TAF10 complex provides evidence for nuclear holo–TFIID assembly from preformed submodules. Nature Communications, 2015, 6, 6011.	5.8	77
169	Probing Molecular Interactions in Intact Antibody: Antigen Complexes, an Electrospray Time-of-Flight Mass Spectrometry Approach. Biophysical Journal, 2001, 81, 3503-3509.	0.2	74
170	Structural comparison of the vacuolar and Golgi V-ATPases from <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7272-7277.	3.3	73
171	Real-Time Monitoring of Protein Complexes Reveals their Quaternary Organization and Dynamics. Chemistry and Biology, 2008, 15, 246-253.	6.2	72
172	The Effect of Detergent, Temperature, and Lipid on the Oligomeric State of MscL Constructs: Insights from Mass Spectrometry. Chemistry and Biology, 2015, 22, 593-603.	6.2	72
173	Modular detergents tailor the purification and structural analysis of membrane proteins including G-protein coupled receptors. Nature Communications, 2020, 11, 564.	5.8	72
174	Polypyrimidine tract-binding protein stimulates the poliovirus IRES by modulating eIF4G binding. EMBO Journal, 2010, 29, 3710-3722.	3.5	71
175	elF2B is a decameric guanine nucleotide exchange factor with a γ2ε2 tetrameric core. Nature Communications, 2014, 5, 3902.	5.8	71
176	Crystal structure of an invertebrate cytolysin pore reveals unique properties and mechanism of assembly. Nature Communications, 2016, 7, 11598.	5.8	71
177	Structural Basis of Tail-Anchored Membrane Protein Biogenesis by the GET Insertase Complex. Molecular Cell, 2020, 80, 72-86.e7.	4.5	71
178	A â€~Build and Retrieve' methodology to simultaneously solve cryo-EM structures of membrane proteins. Nature Methods, 2021, 18, 69-75.	9.0	71
179	Significant hydrogen exchange protection in GroELâ€bound DHFR is maintained during iterative rounds of substrate cycling. Protein Science, 1996, 5, 2506-2513.	3.1	70
180	The flight of macromolecular complexes in a mass spectrometer. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 379-391.	1.6	70

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15

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