

Sheena E Radford

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285
papers

19,889
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74
h-index

131
g-index

302
ext. papers

21,852
ext. citations

8.7
avg, IF

6.93
L-index

#	Paper	IF	Citations
285	Instability, unfolding and aggregation of human lysozyme variants underlying amyloid fibrillogenesis. <i>Nature</i> , 1997 , 385, 787-93	50.4	980
284	Nucleation of protein fibrillation by nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 8691-6	11.5	722
283	The folding of hen lysozyme involves partially structured intermediates and multiple pathways. <i>Nature</i> , 1992 , 358, 302-7	50.4	702
282	pH as a trigger of peptide beta-sheet self-assembly and reversible switching between nematic and isotropic phases. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9619-28	16.4	393
281	Systematic analysis of nucleation-dependent polymerization reveals new insights into the mechanism of amyloid self-assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8926-31	11.5	363
280	A new era for understanding amyloid structures and disease. <i>Nature Reviews Molecular Cell Biology</i> , 2018 , 19, 755-773	48.7	357
279	Understanding how proteins fold: the lysozyme story so far. <i>Trends in Biochemical Sciences</i> , 1994 , 19, 31-7	10.3	325
278	Pulling geometry defines the mechanical resistance of a beta-sheet protein. <i>Nature Structural and Molecular Biology</i> , 2003 , 10, 731-7	17.6	315
277	Folding versus aggregation: polypeptide conformations on competing pathways. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 469, 100-17	4.1	305
276	Partially unfolded states of beta(2)-microglobulin and amyloid formation in vitro. <i>Biochemistry</i> , 2000 , 39, 8735-46	3.2	305
275	Competing pathways determine fibril morphology in the self-assembly of beta2-microglobulin into amyloid. <i>Journal of Molecular Biology</i> , 2005 , 351, 850-64	6.5	299
274	Deciphering drift time measurements from travelling wave ion mobility spectrometry-mass spectrometry studies. <i>European Journal of Mass Spectrometry</i> , 2009 , 15, 113-30	1.1	293
273	Fibril fragmentation enhances amyloid cytotoxicity. <i>Journal of Biological Chemistry</i> , 2009 , 284, 34272-82	5.4	290
272	Amyloid formation under physiological conditions proceeds via a native-like folding intermediate. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 195-201	17.6	281
271	A partially folded state of hen egg white lysozyme in trifluoroethanol: structural characterization and implications for protein folding. <i>Biochemistry</i> , 1993 , 32, 669-78	3.2	264
270	A diversity of assembly mechanisms of a generic amyloid fold. <i>Molecular Cell</i> , 2011 , 43, 8-18	17.6	244
269	Demonstration by NMR of folding domains in lysozyme. <i>Nature</i> , 1991 , 349, 633-6	50.4	241

268	Rapid folding with and without populated intermediates in the homologous four-helix proteins Im7 and Im9. <i>Journal of Molecular Biology</i> , 1999 , 286, 1597-608	6.5	230
267	The Yin and Yang of protein folding. <i>FEBS Journal</i> , 2005 , 272, 5962-70	5.7	226
266	Hierarchical assembly of beta2-microglobulin amyloid in vitro revealed by atomic force microscopy. <i>Journal of Molecular Biology</i> , 2003 , 330, 785-97	6.5	206
265	Screening and classifying small-molecule inhibitors of amyloid formation using ion mobility spectrometry-mass spectrometry. <i>Nature Chemistry</i> , 2015 , 7, 73-81	17.6	203
264	Conformation of GroEL-bound alpha-lactalbumin probed by mass spectrometry. <i>Nature</i> , 1994 , 372, 646-51.4	5.4	202
263	An expanding arsenal of experimental methods yields an explosion of insights into protein folding mechanisms. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 582-8	17.6	197
262	Protein folding: defining a "standard" set of experimental conditions and a preliminary kinetic data set of two-state proteins. <i>Protein Science</i> , 2005 , 14, 602-16	6.3	181
261	Beta(2)-microglobulin and its deamidated variant, N17D form amyloid fibrils with a range of morphologies in vitro. <i>Journal of Molecular Biology</i> , 2001 , 313, 559-71	6.5	180
260	Intermediates: ubiquitous species on folding energy landscapes?. <i>Current Opinion in Structural Biology</i> , 2007 , 17, 30-7	8.1	179
259	Investigation of protein folding by mass spectrometry. <i>FASEB Journal</i> , 1996 , 10, 93-101	0.9	169
258	Structural properties of an amyloid precursor of beta(2)-microglobulin. <i>Nature Structural Biology</i> , 2002 , 9, 326-31		167
257	Crystal structure of monomeric human beta-2-microglobulin reveals clues to its amyloidogenic properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 9771-6	11.5	166
256	Structural insights into the polymorphism of amyloid-like fibrils formed by region 20-29 of amylin revealed by solid-state NMR and X-ray fiber diffraction. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14990-5001	16.4	159
255	Engineering of peptide β -sheet nanotapes. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1135-1145		153
254	Structural and mechanistic basis of immunity toward endonuclease colicins. <i>Nature Structural Biology</i> , 1999 , 6, 243-52		148
253	Tertiary interactions in the folding pathway of hen lysozyme: kinetic studies using fluorescent probes. <i>Biochemistry</i> , 1994 , 33, 5212-20	3.2	143
252	Conformational conversion during amyloid formation at atomic resolution. <i>Molecular Cell</i> , 2011 , 41, 161-72.6	7.6	142
251	Direct three-dimensional visualization of membrane disruption by amyloid fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20455-60	11.5	140

250	Donor-strand exchange in chaperone-assisted pilus assembly proceeds through a concerted beta strand displacement mechanism. <i>Molecular Cell</i> , 2006 , 22, 831-842	17.6	140
249	Amyloid-forming peptides from beta2-microglobulin-Insights into the mechanism of fibril formation in vitro. <i>Journal of Molecular Biology</i> , 2003 , 325, 249-57	6.5	140
248	Mechanically unfolding the small, topologically simple protein L. <i>Biophysical Journal</i> , 2005 , 89, 506-19	2.9	139
247	Ion mobility spectrometry-mass spectrometry defines the oligomeric intermediates in amylin amyloid formation and the mode of action of inhibitors. <i>Journal of the American Chemical Society</i> , 2014 , 136, 660-70	16.4	137
246	Im7 folding mechanism: misfolding on a path to the native state. <i>Nature Structural Biology</i> , 2002 , 9, 209-16		132
245	Elongated oligomers in beta2-microglobulin amyloid assembly revealed by ion mobility spectrometry-mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6794-8	11.5	131
244	Direct observation of oligomeric species formed in the early stages of amyloid fibril formation using electrospray ionisation mass spectrometry. <i>Journal of Molecular Biology</i> , 2006 , 364, 9-19	6.5	130
243	A systematic investigation into the effect of protein destabilisation on beta 2-microglobulin amyloid formation. <i>Journal of Molecular Biology</i> , 2003 , 330, 943-54	6.5	128
242	Ultrarapid mixing experiments reveal that Im7 folds via an on-pathway intermediate. <i>Nature Structural Biology</i> , 2001 , 8, 68-72		128
241	N-terminal acetylation of Bsynuclein induces increased transient helical propensity and decreased aggregation rates in the intrinsically disordered monomer. <i>Protein Science</i> , 2012 , 21, 911-7	6.3	123
240	Optimizing protein stability in vivo. <i>Molecular Cell</i> , 2009 , 36, 861-71	17.6	123
239	Structural analysis of the rate-limiting transition states in the folding of Im7 and Im9: similarities and differences in the folding of homologous proteins. <i>Journal of Molecular Biology</i> , 2003 , 326, 293-305	6.5	121
238	The refolding of human lysozyme: a comparison with the structurally homologous hen lysozyme. <i>Biochemistry</i> , 1994 , 33, 5867-76	3.2	119
237	Tuning the elastic modulus of hydrated collagen fibrils. <i>Biophysical Journal</i> , 2009 , 97, 2985-92	2.9	118
236	The effect of core destabilization on the mechanical resistance of I27. <i>Biophysical Journal</i> , 2002 , 83, 458-73		118
235	Lateral opening in the intact E-barrel assembly machinery captured by cryo-EM. <i>Nature Communications</i> , 2016 , 7, 12865	17.4	117
234	The transition state for folding of an outer membrane protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4099-104	11.5	115
233	Monitoring copopulated conformational states during protein folding events using electrospray ionization-ion mobility spectrometry-mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 2180-90	3.5	114

232	Conformational properties of four peptides spanning the sequence of hen lysozyme. <i>Journal of Molecular Biology</i> , 1995 , 252, 483-91	6.5	112
231	A systematic study of the effect of physiological factors on beta2-microglobulin amyloid formation at neutral pH. <i>Biochemistry</i> , 2006 , 45, 2311-21	3.2	111
230	Force mode atomic force microscopy as a tool for protein folding studies. <i>Analytica Chimica Acta</i> , 2003 , 479, 87-105	6.6	106
229	Pseudospecific docking surfaces on electron transfer proteins as illustrated by pseudoazurin, cytochrome c550 and cytochrome cd1 nitrite reductase. <i>Nature Structural and Molecular Biology</i> , 1995 , 2, 975-82	17.6	100
228	Mechanical resistance of proteins explained using simple molecular models. <i>Biophysical Journal</i> , 2006 , 90, 287-97	2.9	96
227	Effects of hydration on the mechanical response of individual collagen fibrils. <i>Applied Physics Letters</i> , 2008 , 92, 233902	3.4	91
226	Fibril growth kinetics reveal a region of beta2-microglobulin important for nucleation and elongation of aggregation. <i>Journal of Molecular Biology</i> , 2008 , 378, 251-63	6.5	90
225	Probing the structure of folding intermediates. <i>Current Opinion in Structural Biology</i> , 1994 , 4, 100-106	8.1	90
224	Determination of an ensemble of structures representing the intermediate state of the bacterial immunity protein Im7. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 99-104	11.5	89
223	Fast and slow tracks in lysozyme folding: insight into the role of domains in the folding process. <i>Journal of Molecular Biology</i> , 1997 , 267, 1068-74	6.5	88
222	Dynamics in the unfolded state of beta2-microglobulin studied by NMR. <i>Journal of Molecular Biology</i> , 2005 , 346, 279-94	6.5	88
221	Hydrogen exchange properties of proteins in native and denatured states monitored by mass spectrometry and NMR. <i>Protein Science</i> , 1997 , 6, 1316-24	6.3	87
220	Amyloid Fibres: Inert End-Stage Aggregates or Key Players in Disease?. <i>Trends in Biochemical Sciences</i> , 2015 , 40, 719-727	10.3	86
219	Ligand binding to distinct states diverts aggregation of an amyloid-forming protein. <i>Nature Chemical Biology</i> , 2011 , 7, 730-9	11.7	85
218	The structure of a β 2-microglobulin fibril suggests a molecular basis for its amyloid polymorphism. <i>Nature Communications</i> , 2018 , 9, 4517	17.4	85
217	Understanding the complex mechanisms of β 2-microglobulin amyloid assembly. <i>FEBS Journal</i> , 2011 , 278, 3868-83	5.7	84
216	Quantifying heterogeneity and conformational dynamics from single molecule FRET of diffusing molecules: recurrence analysis of single particles (RASP). <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1857-71	3.6	83
215	pH-induced molecular shedding drives the formation of amyloid fibril-derived oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5691-6	11.5	81

214	Fibril fragmentation in amyloid assembly and cytotoxicity: when size matters. <i>Prion</i> , 2010 , 4, 20-5	2.3	81
213	Energy landscapes of functional proteins are inherently risky. <i>Nature Chemical Biology</i> , 2014 , 10, 884-91	11.7	74
212	Magic angle spinning NMR analysis of beta2-microglobulin amyloid fibrils in two distinct morphologies. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10414-23	16.4	73
211	A generic mechanism of beta2-microglobulin amyloid assembly at neutral pH involving a specific proline switch. <i>Journal of Molecular Biology</i> , 2009 , 386, 1312-26	6.5	73
210	Amyloid structures: much more than just a cross- β fold. <i>Current Opinion in Structural Biology</i> , 2020 , 60, 7-16	8.1	72
209	Globular tetramers of beta(2)-microglobulin assemble into elaborate amyloid fibrils. <i>Journal of Molecular Biology</i> , 2009 , 389, 48-57	6.5	69
208	Role of the single disulphide bond of beta(2)-microglobulin in amyloidosis in vitro. <i>Protein Science</i> , 2001 , 10, 1775-84	6.3	69
207	Role of the N and C-terminal strands of beta 2-microglobulin in amyloid formation at neutral pH. <i>Journal of Molecular Biology</i> , 2003 , 330, 935-41	6.5	68
206	Mechanically unfolding proteins: the effect of unfolding history and the supramolecular scaffold. <i>Protein Science</i> , 2002 , 11, 2759-65	6.3	67
205	Semisynthesis of a glycosylated Im7 analogue for protein folding studies. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12882-9	16.4	67
204	Thermal unfolding of an intermediate is associated with non-Arrhenius kinetics in the folding of hen lysozyme. <i>Journal of Molecular Biology</i> , 2000 , 297, 193-210	6.5	67
203	Mechanisms of amyloid formation revealed by solution NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2015 , 88-89, 86-104	10.4	66
202	Intermolecular alignment in β -microglobulin amyloid fibrils. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17077-9	16.4	66
201	Significant hydrogen exchange protection in GroEL-bound DHFR is maintained during iterative rounds of substrate cycling. <i>Protein Science</i> , 1996 , 5, 2506-13	6.3	66
200	Engineering the surface properties of a human monoclonal antibody prevents self-association and rapid clearance in vivo. <i>Scientific Reports</i> , 2016 , 6, 38644	4.9	66
199	Two-way communication between SecY and SecA suggests a Brownian ratchet mechanism for protein translocation. <i>ELife</i> , 2016 , 5,	8.9	64
198	Co-populated conformational ensembles of beta2-microglobulin uncovered quantitatively by electrospray ionization mass spectrometry. <i>Journal of Biological Chemistry</i> , 2004 , 279, 27069-77	5.4	63
197	Skp is a multivalent chaperone of outer-membrane proteins. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 786-793	17.6	62

196	Competition between intramolecular and intermolecular interactions in an amyloid-forming protein. <i>Journal of Molecular Biology</i> , 2009 , 389, 776-86	6.5	62
195	Switching two-state to three-state kinetics in the helical protein Im9 via the optimisation of stabilising non-native interactions by design. <i>Journal of Molecular Biology</i> , 2004 , 342, 261-73	6.5	61
194	Acidic conditions stabilise intermediates populated during the folding of Im7 and Im9. <i>Journal of Molecular Biology</i> , 2001 , 312, 849-63	6.5	60
193	Small molecule probes of protein aggregation. <i>Current Opinion in Chemical Biology</i> , 2017 , 39, 90-99	9.7	59
192	Thermodynamic description of polymorphism in Q- and N-rich peptide aggregates revealed by atomistic simulation. <i>Biophysical Journal</i> , 2009 , 97, 1-11	2.9	59
191	Perturbing the folding energy landscape of the bacterial immunity protein Im7 by site-specific N-linked glycosylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 22528-33	11.5	58
190	An in vivo platform for identifying inhibitors of protein aggregation. <i>Nature Chemical Biology</i> , 2016 , 12, 94-101	11.7	56
189	The mechanism of folding of Im7 reveals competition between functional and kinetic evolutionary constraints. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 318-24	17.6	56
188	Kinetic studies of beta-sheet protein folding. <i>Current Opinion in Structural Biology</i> , 1998 , 8, 86-92	8.1	56
187	Mass spectrometry-enabled structural biology of membrane proteins. <i>Methods</i> , 2018 , 147, 187-205	4.6	55
186	Substrate protein folds while it is bound to the ATP-independent chaperone Spy. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 53-58	17.6	55
185	Amyloid plaques beyond Aβ survey of the diverse modulators of amyloid aggregation. <i>Biophysical Reviews</i> , 2017 , 9, 405-419	3.7	55
184	Amphipathic polymers enable the study of functional membrane proteins in the gas phase. <i>Analytical Chemistry</i> , 2012 , 84, 9841-7	7.8	55
183	Investigating the structural properties of amyloid-like fibrils formed in vitro from beta2-microglobulin using limited proteolysis and electrospray ionisation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1628-36	2.2	55
182	Stacked sets of parallel, in-register beta-strands of beta2-microglobulin in amyloid fibrils revealed by site-directed spin labeling and chemical labeling. <i>Journal of Biological Chemistry</i> , 2010 , 285, 17137-47	5.4	54
181	GroEL accelerates the refolding of hen lysozyme without changing its folding mechanism. <i>Nature Structural Biology</i> , 1999 , 6, 683-90		54
180	Amyloid under the atomic force microscope. <i>Protein and Peptide Letters</i> , 2006 , 13, 261-70	1.9	53
179	The oligomeric state and arrangement of the active bacterial translocon. <i>Journal of Biological Chemistry</i> , 2011 , 286, 4659-69	5.4	52

178	The N-terminal helix is a post-assembly clamp in the bacterial outer membrane protein PagP. <i>Journal of Molecular Biology</i> , 2007 , 373, 529-40	6.5	52
177	Far-UV circular dichroism reveals a conformational switch in a peptide fragment from the beta-sheet of hen lysozyme. <i>Biochemistry</i> , 1994 , 33, 7345-53	3.2	51
176	Glimpses of the molecular mechanisms of beta2-microglobulin fibril formation in vitro: aggregation on a complex energy landscape. <i>FEBS Letters</i> , 2009 , 583, 2623-9	3.8	50
175	Separation of beta2-microglobulin conformers by high-field asymmetric waveform ion mobility spectrometry (FAIMS) coupled to electrospray ionisation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 2229-34	2.2	50
174	The origin of the alpha-domain intermediate in the folding of hen lysozyme. <i>Journal of Molecular Biology</i> , 1998 , 277, 997-1005	6.5	50
173	Mass spectrometric methods to analyze the structural organization of macromolecular complexes. <i>Methods</i> , 2015 , 89, 13-21	4.6	49
172	Effects of Periplasmic Chaperones and Membrane Thickness on BamA-Catalyzed Outer-Membrane Protein Folding. <i>Journal of Molecular Biology</i> , 2017 , 429, 3776-3792	6.5	49
171	Amyloid fibril length distribution quantified by atomic force microscopy single-particle image analysis. <i>Protein Engineering, Design and Selection</i> , 2009 , 22, 489-96	1.9	49
170	Identification of a mechanical rheostat in the hydrophobic core of protein L. <i>Journal of Molecular Biology</i> , 2009 , 393, 237-48	6.5	48
169	A common beta-sheet architecture underlies in vitro and in vivo beta2-microglobulin amyloid fibrils. <i>Journal of Biological Chemistry</i> , 2008 , 283, 17279-86	5.4	48
168	Inducing protein aggregation by extensional flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4673-4678	11.5	47
167	A short motif in the N-terminal region of Eynuclein is critical for both aggregation and function. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 249-259	17.6	47
166	Visualization of transient protein-protein interactions that promote or inhibit amyloid assembly. <i>Molecular Cell</i> , 2014 , 55, 214-26	17.6	47
165	NMR analysis of the conformational properties of the trapped on-pathway folding intermediate of the bacterial immunity protein Im7. <i>Journal of Molecular Biology</i> , 2007 , 366, 1001-15	6.5	47
164	Towards an understanding of the structural molecular mechanism of beta(2)-microglobulin amyloid formation in vitro. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005 , 1753, 51-63	4	47
163	An imaging and systems modeling approach to fibril breakage enables prediction of amyloid behavior. <i>Biophysical Journal</i> , 2013 , 105, 2811-9	2.9	45
162	Viscoelastic study of the mechanical unfolding of a protein by AFM. <i>Biophysical Journal</i> , 2006 , 91, L16-8	2.9	45
161	Site-directed mutagenesis and 1H NMR spectroscopy of an interdomain segment in the pyruvate dehydrogenase multienzyme complex of Escherichia coli. <i>Biochemistry</i> , 1988 , 27, 289-96	3.2	45

160	Outer membrane protein folding from an energy landscape perspective. <i>BMC Biology</i> , 2017 , 15, 123	7.3	43
159	Dissecting the effects of periplasmic chaperones on the in vitro folding of the outer membrane protein PagP. <i>Journal of Molecular Biology</i> , 2013 , 425, 3178-91	6.5	42
158	Urea-induced unfolding of the immunity protein Im9 monitored by spFRET. <i>Biophysical Journal</i> , 2006 , 91, L42-4	2.9	42
157	Cooperative Elements in Protein Folding Monitored by Electrospray Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1995 , 117, 7548-7549	16.4	42
156	Visualizing and trapping transient oligomers in amyloid assembly pathways. <i>Biophysical Chemistry</i> , 2021 , 268, 106505	3.5	42
155	ESI-IMS-MS: A method for rapid analysis of protein aggregation and its inhibition by small molecules. <i>Methods</i> , 2016 , 95, 62-9	4.6	41
154	Mutational analysis of the ability of resveratrol to inhibit amyloid formation by islet amyloid polypeptide: critical evaluation of the importance of aromatic-inhibitor and histidine-inhibitor interactions. <i>Biochemistry</i> , 2015 , 54, 666-76	3.2	41
153	Trapping the on-pathway folding intermediate of Im7 at equilibrium. <i>Journal of Molecular Biology</i> , 2004 , 341, 215-26	6.5	41
152	Thermodynamic phase diagram of amyloid- β (16-22) peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2091-2096	11.5	40
151	Amphipols outperform dodecylmaltoside micelles in stabilizing membrane protein structure in the gas phase. <i>Analytical Chemistry</i> , 2015 , 87, 1118-26	7.8	40
150	The Greek key protein apo-pseudoazurin folds through an obligate on-pathway intermediate. <i>Journal of Molecular Biology</i> , 1999 , 286, 1621-32	6.5	39
149	Atomic Details of the Interactions of Glycosaminoglycans with Amyloid- β Fibrils. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8328-31	16.4	38
148	Mechanistic studies of the biogenesis and folding of outer membrane proteins in vitro and in vivo: what have we learned to date?. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 564, 265-80	4.1	38
147	Structural and mechanistic consequences of polypeptide binding by GroEL. <i>Folding & Design</i> , 1997 , 2, R93-104		38
146	Characterisation of the conformational properties of urea-unfolded Im7: implications for the early stages of protein folding. <i>Journal of Molecular Biology</i> , 2006 , 364, 824-35	6.5	38
145	Comparison of the transition state ensembles for folding of Im7 and Im9 determined using all-atom molecular dynamics simulations with phi value restraints. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 54, 513-25	4.2	38
144	Proteostasis of Islet Amyloid Polypeptide: A Molecular Perspective of Risk Factors and Protective Strategies for Type II Diabetes. <i>Chemical Reviews</i> , 2021 , 121, 1845-1893	68.1	38
143	Dynamic action of the Sec machinery during initiation, protein translocation and termination. <i>ELife</i> , 2018 , 7,	8.9	37

142	Secondary structure in the core of amyloid fibrils formed from human I β and its truncated variant N6. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6313-25	16.4	37
141	Effect of sequence variation on the mechanical response of amyloid fibrils probed by steered molecular dynamics simulation. <i>Biophysical Journal</i> , 2012 , 102, 587-96	2.9	37
140	Assessing the causes and consequences of co-polymerization in amyloid formation. <i>Prion</i> , 2013 , 7, 359-68.3	6.3	37
139	Production and characterization of RNA aptamers specific for amyloid fibril epitopes. <i>Journal of Biological Chemistry</i> , 2007 , 282, 34500-9	5.4	37
138	Viscoelastic measurements of single molecules on a millisecond time scale by magnetically driven oscillation of an atomic force microscope cantilever. <i>Langmuir</i> , 2005 , 21, 4765-72	4	37
137	Role of the lipid bilayer in outer membrane protein folding in Gram-negative bacteria. <i>Journal of Biological Chemistry</i> , 2020 , 295, 10340-10367	5.4	36
136	Synthesis, characterization and applications of a perdeuterated amphipol. <i>Journal of Membrane Biology</i> , 2014 , 247, 909-24	2.3	36
135	Rapid Mapping of Protein Interactions Using Tag-Transfer Photocrosslinkers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16688-16692	16.4	36
134	Investigating the Structural Compaction of Biomolecules Upon Transition to the Gas-Phase Using ESI-TWIMS-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1855-1862	3.5	35
133	Molecular insights into the surface-catalyzed secondary nucleation of amyloid- β by the peptide fragment A β . <i>Science Advances</i> , 2019 , 5, eaav8216	14.3	34
132	Insights into the consequences of co-polymerisation in the early stages of IAPP and A β peptide assembly from mass spectrometry. <i>Analyst, The</i> , 2015 , 140, 6990-9	5	34
131	HDX-ESI-MS reveals enhanced conformational dynamics of the amyloidogenic protein beta(2)-microglobulin upon release from the MHC-1. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 278-86	3.5	33
130	Expanding the repertoire of amyloid polymorphs by co-polymerization of related protein precursors. <i>Journal of Biological Chemistry</i> , 2013 , 288, 7327-37	5.4	32
129	Donor-strand exchange in chaperone-assisted pilus assembly revealed in atomic detail by molecular dynamics. <i>Journal of Molecular Biology</i> , 2008 , 375, 908-19	6.5	32
128	A near-native state on the slow refolding pathway of hen lysozyme. <i>Protein Science</i> , 1999 , 8, 35-44	6.3	32
127	Ultraviolet resonance Raman studies reveal the environment of tryptophan and tyrosine residues in the native and partially folded states of the E colicin-binding immunity protein Im7. <i>Biochemistry</i> , 2005 , 44, 3306-15	3.2	32
126	Equilibrium hydrogen exchange reveals extensive hydrogen bonded secondary structure in the on-pathway intermediate of Im7. <i>Journal of Molecular Biology</i> , 2004 , 337, 183-93	6.5	32
125	Understanding co-polymerization in amyloid formation by direct observation of mixed oligomers. <i>Chemical Science</i> , 2017 , 8, 5030-5040	9.4	31

124	Macromolecular Crowding Enhances the Detection of DNA and Proteins by a Solid-State Nanopore. <i>Nano Letters</i> , 2020 , 20, 5553-5561	11.5	31
123	The effect of protein complexation on the mechanical stability of Im9. <i>Biophysical Journal</i> , 2007 , 92, L79-84		31
122	Accurate Use of Single Molecule Fluorescence Correlation Spectroscopy to Determine Molecular Diffusion Times. <i>Single Molecules</i> , 2001 , 2, 177-181		30
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