

# Louise C Serpell

## List of Publications by Year in Descending Order

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

159  
papers

15,787  
citations

62  
h-index

125  
g-index

175  
ext. papers

17,511  
ext. citations

7.2  
avg, IF

6.54  
L-index

#	Paper	IF	Citations
159	Structural identification of individual helical amyloid filaments by integration of cryo-electron microscopy-derived maps in comparative morphometric atomic force microscopy image analysis.. <i>Journal of Molecular Biology</i> , <b>2022</b> , 434, 167466	6.5	3
158	Salpyran: A Cu(II) Selective Chelator with Therapeutic Potential. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 15310-15320	3.2	1
157	The Disease Associated Tau35 Fragment has an Increased Propensity to Aggregate Compared to Full-Length Tau. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 779240	5.6	1
156	Oxidative Stress Conditions Result in Trapping of PHF-Core Tau (297-391) Intermediates. <i>Cells</i> , <b>2021</b> , 10,	7.9	3
155	An evaluation of the self-assembly enhancing properties of cell-derived hexameric amyloid- $\beta$ . <i>Scientific Reports</i> , <b>2021</b> , 11, 11570	4.9	2
154	Nucleation-dependent Aggregation Kinetics of Yeast Sup35 Fragment GNNQQNY. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 166732	6.5	1
153	HCN channelopathy couples disease-associated tau to synaptic dysfunction.. <i>Alzheimers and Dementia</i> , <b>2021</b> , 17 Suppl 2, e058346	1.2	1
152	Self-assembly and cellular effect of tau35, a disease-associated tau fragment.. <i>Alzheimers and Dementia</i> , <b>2021</b> , 17 Suppl 3, e052072	1.2	1
151	Metal- and UV- Catalyzed Oxidation Results in Trapped Amyloid- $\beta$ Intermediates Revealing that Self-Assembly Is Required for A $\beta$ -Induced Cytotoxicity. <i>iScience</i> , <b>2020</b> , 23, 101537	6.1	3
150	Half a century of amyloids: past, present and future. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 5473-5509	58.5	142
149	Misfolded amyloid- $\beta$ 42 impairs the endosomal-lysosomal pathway. <i>Cellular and Molecular Life Sciences</i> , <b>2020</b> , 77, 5031-5043	10.3	14
148	Transition of Nano-Architectures Through Self-Assembly of Lipidated $\beta$ Tripeptide Foldamers. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 217	5	7
147	Three-dimensional reconstruction of individual helical nano-filament structures from atomic force microscopy topographs. <i>Biomolecular Concepts</i> , <b>2020</b> , 11, 102-115	3.7	10
146	Tau (297-391) forms filaments that structurally mimic the core of paired helical filaments in Alzheimer's disease brain. <i>FEBS Letters</i> , <b>2020</b> , 594, 944-950	3.8	22
145	Paired Helical Filament-Forming Region of Tau (297-391) Influences Endogenous Tau Protein and Accumulates in Acidic Compartments in Human Neuronal Cells. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 4891-4907	6.5	5
144	MIRRAGGE - Minimum Information Required for Reproducible AGGregation Experiments. <i>Frontiers in Molecular Neuroscience</i> , <b>2020</b> , 13, 582488	6.1	4
143	Tau Filament Self-Assembly and Structure: Tau as a Therapeutic Target. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 590754	4.1	3

142	Internalisation and toxicity of amyloid- $\beta$ -42 are influenced by its conformation and assembly state rather than size. <i>FEBS Letters</i> , <b>2020</b> , 594, 3490-3503	3.8	5
141	Quantification of amyloid fibril polymorphism by nano-morphometry reveals the individuality of filament assembly. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	10
140	A Biophysical Approach to the Identification of Novel ApoE Chemical Probes. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	5
139	Zinc-dysprosium functionalized amyloid fibrils. <i>Dalton Transactions</i> , <b>2019</b> , 48, 15371-15375	4.3	
138	The Molecular Basis for Apolipoprotein E4 as the Major Risk Factor for Late-Onset Alzheimer's Disease. <i>Journal of Molecular Biology</i> , <b>2019</b> , 431, 2248-2265	6.5	16
137	The elusive tau molecular structures: can we translate the recent breakthroughs into new targets for intervention?. <i>Acta Neuropathologica Communications</i> , <b>2019</b> , 7, 31	7.3	35
136	The CDR1 and Other Regions of Immunoglobulin Light Chains are Hot Spots for Amyloid Aggregation. <i>Scientific Reports</i> , <b>2019</b> , 9, 3123	4.9	13
135	Using chirality to influence supramolecular gelation. <i>Chemical Science</i> , <b>2019</b> , 10, 7801-7806	9.4	22
134	The involvement of dityrosine crosslinks in lipofuscin accumulation in Alzheimer's disease. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1294, 062107	0.3	1
133	Methods for Structural Analysis of Amyloid Fibrils in Misfolding Diseases. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1873, 109-122	1.4	12
132	The involvement of tau in nucleolar transcription and the stress response. <i>Acta Neuropathologica Communications</i> , <b>2018</b> , 6, 70	7.3	40
131	Cysteine-Independent Inhibition of Alzheimer's Disease-like Paired Helical Filament Assembly by Leuco-Methylthionium (LMT). <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 4119-4131	6.5	15
130	The Involvement of A $\beta$ 2 and Tau in Nucleolar and Protein Synthesis Machinery Dysfunction. <i>Frontiers in Cellular Neuroscience</i> , <b>2018</b> , 12, 220	6.1	17
129	Formation of functional, non-amyloidogenic fibres by recombinant Bacillus subtilis TasA. <i>Molecular Microbiology</i> , <b>2018</b> , 110, 897-913	4.1	20
128	Identifying the Coiled-Coil Triple Helix Structure of $\beta$ Peptide Nanofibers at Atomic Resolution. <i>ACS Nano</i> , <b>2018</b> , 12, 9101-9109	16.7	18
127	Controlling the network type in self-assembled dipeptide hydrogels. <i>Soft Matter</i> , <b>2017</b> , 13, 1914-1919	3.6	43
126	Amyloidogenicity and toxicity of the reverse and scrambled variants of amyloid- $\beta$ -42. <i>FEBS Letters</i> , <b>2017</b> , 591, 822-830	3.8	21
125	Cathepsin K as a novel amyloid fibril protein in humans. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , <b>2017</b> , 24, 68-69	2.7	1

124	Probing supramolecular protein assembly using covalently attached fluorescent molecular rotors. <i>Biomaterials</i> , <b>2017</b> , 139, 195-201	15.6	27
123	Structure-dependent effects of amyloid- $\beta$ on long-term memory in <i>Lymnaea stagnalis</i> . <i>FEBS Letters</i> , <b>2017</b> , 591, 1236-1246	3.8	7
122	Alzheimer's Disease-like Paired Helical Filament Assembly from Truncated Tau Protein Is Independent of Disulfide Crosslinking. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 3650-3665	6.5	40
121	The diversity and utility of amyloid fibrils formed by short amyloidogenic peptides. <i>Interface Focus</i> , <b>2017</b> , 7, 20170027	3.9	13
120	The amyloid architecture provides a scaffold for enzyme-like catalysts. <i>Nanoscale</i> , <b>2017</b> , 9, 10773-10783	7.7	54
119	Kinetically Controlled Coassembly of Multichromophoric Peptide Hydrogelators and the Impacts on Energy Transport. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8685-8692	16.4	81
118	De novo design of a biologically active amyloid. <i>Science</i> , <b>2016</b> , 354,	33.3	44
117	Characterization of Amyloid Cores in Prion Domains. <i>Scientific Reports</i> , <b>2016</b> , 6, 34274	4.9	37
116	A critical role for the self-assembly of Amyloid- $\beta$ 42 in neurodegeneration. <i>Scientific Reports</i> , <b>2016</b> , 6, 30182	4.9	36
115	Monitoring changes of paramagnetically-shifted $^{31}\text{P}$ signals in phospholipid vesicles. <i>Chemical Physics Letters</i> , <b>2016</b> , 648, 124-129	2.5	3
114	Stabilization of native amyloid $\beta$ protein oligomers by Copper and Hydrogen peroxide Induced Cross-linking of Unmodified Proteins (CHICUP). <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2016</b> , 1864, 249-259	4	28
113	Nuclear Tau and Its Potential Role in Alzheimer's Disease. <i>Biomolecules</i> , <b>2016</b> , 6, 9	5.9	70
112	Chemically and thermally stable silica nanowires with a $\beta$ sheet peptide core for bionanotechnology. <i>Journal of Nanobiotechnology</i> , <b>2016</b> , 14, 79	9.4	2
111	The involvement of dityrosine crosslinking in $\beta$ synuclein assembly and deposition in Lewy Bodies in Parkinson's disease. <i>Scientific Reports</i> , <b>2016</b> , 6, 39171	4.9	49
110	Modular Design of Self-Assembling Peptide-Based Nanotubes. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10554-62	16.4	105
109	Hydrogels formed from Fmoc amino acids. <i>CrystEngComm</i> , <b>2015</b> , 17, 8047-8057	3.3	71
108	Dementia of the eye: the role of amyloid beta in retinal degeneration. <i>Eye</i> , <b>2015</b> , 29, 1013-26	4.4	98
107	WALTZ-DB: a benchmark database of amyloidogenic hexapeptides. <i>Bioinformatics</i> , <b>2015</b> , 31, 1698-700	7.2	48

106	The architecture of amyloid-like peptide fibrils revealed by X-ray scattering, diffraction and electron microscopy. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2015</b> , 71, 882-95		42
105	Two distinct $\beta$ -sheet structures in Italian-mutant amyloid-beta fibrils: a potential link to different clinical phenotypes. <i>Cellular and Molecular Life Sciences</i> , <b>2015</b> , 72, 4899-913	10.3	20
104	Structural determinants in a library of low molecular weight gelators. <i>Soft Matter</i> , <b>2015</b> , 11, 1174-81	3.6	30
103	Computational de novo design of a self-assembling peptide with predefined structure. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 550-62	6.5	15
102	Silica Nanowires Templated by Amyloid-like Fibrils. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13327-31	16.4	15
101	Europium as an inhibitor of Amyloid- $\beta$ (1-42) induced membrane permeation. <i>FEBS Letters</i> , <b>2015</b> , 589, 3228-36	3.8	4
100	Silica Nanowires Templated by Amyloid-like Fibrils. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13525-13529	3.6	3
99	Effects of A $\beta$ exposure on long-term associative memory and its neuronal mechanisms in a defined neuronal network. <i>Scientific Reports</i> , <b>2015</b> , 5, 10614	4.9	22
98	Proteolytic cleavage of Ser52Pro variant transthyretin triggers its amyloid fibrillogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1539-44	11.5	72
97	The effect of self-sorting and co-assembly on the mechanical properties of low molecular weight hydrogels. <i>Nanoscale</i> , <b>2014</b> , 6, 13719-25	7.7	76
96	Distinct tau prion strains propagate in cells and mice and define different tauopathies. <i>Neuron</i> , <b>2014</b> , 82, 1271-88	13.9	639
95	The relationship between amyloid structure and cytotoxicity. <i>Prion</i> , <b>2014</b> , 8,	2.3	39
94	Amyloid structure. <i>Essays in Biochemistry</i> , <b>2014</b> , 56, 1-10	7.6	13
93	A central role for dityrosine crosslinking of Amyloid- $\beta$ in Alzheimer's disease. <i>Acta Neuropathologica Communications</i> , <b>2013</b> , 1, 83	7.3	123
92	Rational design of helical nanotubes from self-assembly of coiled-coil lock washers. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15565-78	16.4	90
91	The structure of cross- $\beta$ -tapes and tubes formed by an octapeptide, $\beta$ 1. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2279-83	16.4	45
90	Chemically programmed self-sorting of gelator networks. <i>Nature Communications</i> , <b>2013</b> , 4, 1480	17.4	199
89	From Molecular to Supramolecular Amyloid Structures: Contributions from Fiber Diffraction and Electron Microscopy <b>2013</b> , 63-84		1

88	Exploring the sequence-structure relationship for amyloid peptides. <i>Biochemical Journal</i> , <b>2013</b> , 450, 275-383	3.8	38
87	The Structure of Cross-Tapes and Tubes Formed by an Octapeptide, $\beta\beta$ . <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2335-2339	3.6	8
86	Visualization of co-localization in A $\beta$ 2-administered neuroblastoma cells reveals lysosome damage and autophagosome accumulation related to cell death. <i>Biochemical Journal</i> , <b>2012</b> , 441, 579-90	3.8	46
85	On crystal versus fiber formation in dipeptide hydrogelator systems. <i>Langmuir</i> , <b>2012</b> , 28, 9797-806	4	101
84	Polyglutamine aggregate structure in vitro and in vivo; new avenues for coherent anti-Stokes Raman scattering microscopy. <i>PLoS ONE</i> , <b>2012</b> , 7, e40536	3.7	9
83	X-ray fibre diffraction studies of amyloid fibrils. <i>Methods in Molecular Biology</i> , <b>2012</b> , 849, 121-35	1.4	67
82	Structural basis for increased toxicity of pathological a $\beta$ 2:a $\beta$ 0 ratios in Alzheimer disease. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 5650-60	5.4	169
81	Salt-induced hydrogelation of functionalised-dipeptides at high pH. <i>Chemical Communications</i> , <b>2011</b> , 47, 12071-3	5.8	113
80	A $\beta$ 2 oligomers, but not fibrils, simultaneously bind to and cause damage to ganglioside-containing lipid membranes. <i>Biochemical Journal</i> , <b>2011</b> , 439, 67-77	3.8	67
79	Membrane and surface interactions of Alzheimer's A $\beta$ peptide--insights into the mechanism of cytotoxicity. <i>FEBS Journal</i> , <b>2011</b> , 278, 3905-17	5.7	266
78	Hydrophobic, aromatic, and electrostatic interactions play a central role in amyloid fibril formation and stability. <i>Biochemistry</i> , <b>2011</b> , 50, 2061-71	3.2	176
77	Inflammation protein SAA2.2 spontaneously forms marginally stable amyloid fibrils at physiological temperature. <i>Biochemistry</i> , <b>2011</b> , 50, 9184-91	3.2	14
76	Iron promotes the toxicity of amyloid beta peptide by impeding its ordered aggregation. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 4248-56	5.4	148
75	Exploring the sequence determinants of amyloid structure using position-specific scoring matrices. <i>Nature Methods</i> , <b>2010</b> , 7, 237-42	21.6	469
74	Human beta-synuclein rendered fibrillogenic by designed mutations. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 38555-67	5.4	15
73	Characterizing the assembly of the Sup35 yeast prion fragment, GNNQQNY: structural changes accompany a fiber-to-crystal switch. <i>Biophysical Journal</i> , <b>2010</b> , 98, 330-8	2.9	80
72	Effect of molecular structure on the properties of naphthalene-dipeptide hydrogelators. <i>Langmuir</i> , <b>2010</b> , 26, 13466-71	4	148
71	The common architecture of cross-beta amyloid. <i>Journal of Molecular Biology</i> , <b>2010</b> , 395, 717-27	6.5	219

70	Glucagon fibril polymorphism reflects differences in protofilament backbone structure. <i>Journal of Molecular Biology</i> , <b>2010</b> , 397, 932-46	6.5	47
69	From natural to designer self-assembling biopolymers, the structural characterisation of fibrous proteins & peptides using fibre diffraction. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 3445-53	58.5	64
68	The delicate balance between gelation and crystallisation: structural and computational investigations. <i>Soft Matter</i> , <b>2010</b> , 6, 4144	3.6	108
67	The effect of Alzheimer's A $\beta$ aggregation state on the permeation of biomimetic lipid vesicles. <i>Langmuir</i> , <b>2010</b> , 26, 17260-8	4	72
66	A new species of aplanosporic Haptoglossa, <i>H. beakesii</i> , with vesiculate spore release. <i>Botany</i> , <b>2010</b> , 88, 93-101	1.3	4
65	Low molecular weight gelator-dextran composites. <i>Chemical Communications</i> , <b>2010</b> , 46, 6738-40	5.8	61
64	Fibres, crystals and polymorphism: the structural promiscuity of amyloidogenic peptides. <i>Soft Matter</i> , <b>2010</b> , 6, 2110	3.6	15
63	Self-assembly mechanism for a naphthalene-dipeptide leading to hydrogelation. <i>Langmuir</i> , <b>2010</b> , 26, 5232-42	4	190
62	Structural analysis of proteinaceous components in Byssal threads of the mussel <i>Mytilus galloprovincialis</i> . <i>Macromolecular Bioscience</i> , <b>2009</b> , 9, 162-8	5.5	36
61	Dehydration stability of amyloid fibrils studied by AFM. <i>European Biophysics Journal</i> , <b>2009</b> , 38, 1135-40	1.9	28
60	Rational design and application of responsive alpha-helical peptide hydrogels. <i>Nature Materials</i> , <b>2009</b> , 8, 596-600	27	397
59	Cross-beta spine architecture of fibrils formed by the amyloidogenic segment NFGSVQFV of medin from solid-state NMR and X-ray fiber diffraction measurements. <i>Biochemistry</i> , <b>2009</b> , 48, 3089-99	3.2	21
58	Self-assembly of phenylalanine oligopeptides: insights from experiments and simulations. <i>Biophysical Journal</i> , <b>2009</b> , 96, 5020-9	2.9	187
57	Flow linear dichroism of some prototypical proteins. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13305-14	16.4	33
56	Mechanically functional amyloid fibrils in the adhesive of a marine invertebrate as revealed by Raman spectroscopy and atomic force microscopy. <i>Archives of Histology and Cytology</i> , <b>2009</b> , 72, 199-207		14
55	Structural integrity of beta-sheet assembly. <i>Biochemical Society Transactions</i> , <b>2009</b> , 37, 671-6	5.1	39
54	Revealing molecular-level surface structure of amyloid fibrils in liquid by means of frequency modulation atomic force microscopy. <i>Nanotechnology</i> , <b>2008</b> , 19, 384010	3.4	36
53	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> , <b>2008</b> , 130, 14990-5001	16.4	159

52	Atomic models of de novo designed cc beta-Met amyloid-like fibrils. <i>Journal of Molecular Biology</i> , <b>2008</b> , 376, 898-912	6.5	31
51	Amyloid fibrils: abnormal protein assembly. <i>Prion</i> , <b>2008</b> , 2, 112-7	2.3	295
50	Structural Analysis of Fibrous Proteins <b>2008</b> , 197		
49	Structural analyses of fibrinogen amyloid fibrils. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , <b>2007</b> , 14, 199-203	3.7	33
48	Spider silk and amyloid fibrils: a structural comparison. <i>Macromolecular Bioscience</i> , <b>2007</b> , 7, 183-8	5.5	141
47	CLEARER: a new tool for the analysis of X-ray fibre diffraction patterns and diffraction simulation from atomic structural models. <i>Journal of Applied Crystallography</i> , <b>2007</b> , 40, 966-972	3.8	89
46	A simple algorithm locates beta-strands in the amyloid fibril core of alpha-synuclein, Abeta, and tau using the amino acid sequence alone. <i>Protein Science</i> , <b>2007</b> , 16, 906-18	6.3	90
45	Engineering nanoscale order into a designed protein fiber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 10853-8	11.5	210
44	Sequence Determinants for Amyloid Fibrillogenesis of Human alpha-Synuclein. <i>Journal of Molecular Biology</i> , <b>2007</b> , 374, 454-64	6.5	59
43	Expression and characterization of full-length human huntingtin, an elongated HEAT repeat protein. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 15916-22	5.4	59
42	Synuclein proteins of the pufferfish <i>Fugu rubripes</i> : sequences and functional characterization. <i>Biochemistry</i> , <b>2006</b> , 45, 2599-607	3.2	17
41	Polymerization of human angiotensinogen: insights into its structural mechanism and functional significance. <i>Biochemical Journal</i> , <b>2006</b> , 400, 169-78	3.8	5
40	Diffraction to study protein and peptide assemblies. <i>Current Opinion in Chemical Biology</i> , <b>2006</b> , 10, 417-23	3.7	40
39	Insights into the architecture of the Ure2p yeast protein assemblies from helical twisted fibrils. <i>Protein Science</i> , <b>2006</b> , 15, 2481-7	6.3	16
38	X-ray diffraction studies of amyloid structure. <i>Methods in Molecular Biology</i> , <b>2005</b> , 299, 67-80	1.4	38
37	Structures for amyloid fibrils. <i>FEBS Journal</i> , <b>2005</b> , 272, 5950-61	5.7	353
36	Structure and morphology of the Alzheimer's amyloid fibril. <i>Microscopy Research and Technique</i> , <b>2005</b> , 67, 210-7	2.8	65
35	Molecular basis for amyloid fibril formation and stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 315-20	11.5	547



34	Mutation E46K increases phospholipid binding and assembly into filaments of human alpha-synuclein. <i>FEBS Letters</i> , <b>2004</b> , 576, 363-8	3.8	210
33	Structural characterisation of islet amyloid polypeptide fibrils. <i>Journal of Molecular Biology</i> , <b>2004</b> , 335, 1279-88	6.5	122
32	Protein fiber linear dichroism for structure determination and kinetics in a low-volume, low-wavelength couette flow cell. <i>Biophysical Journal</i> , <b>2004</b> , 86, 404-10	2.9	66
31	Tau filaments from human brain and from in vitro assembly of recombinant protein show cross-beta structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 9034-8	11.5	248
30	Structure and texture of fibrous crystals formed by Alzheimer's abeta(11-25) peptide fragment. <i>Structure</i> , <b>2003</b> , 11, 915-26	5.2	108
29	Nucleation of alpha 1-antichymotrypsin polymerization. <i>Biochemistry</i> , <b>2003</b> , 42, 2355-63	3.2	31
28	A systematic investigation into the effect of protein destabilisation on beta 2-microglobulin amyloid formation. <i>Journal of Molecular Biology</i> , <b>2003</b> , 330, 943-54	6.5	128
27	Proteasomal degradation of tau protein. <i>Journal of Neurochemistry</i> , <b>2002</b> , 83, 176-85	6	265
26	Crystal structure of human 53BP1 BRCT domains bound to p53 tumour suppressor. <i>EMBO Journal</i> , <b>2002</b> , 21, 3863-72	13	142
25	Examining the structure of the mature amyloid fibril. <i>Biochemical Society Transactions</i> , <b>2002</b> , 30, 521-5	5.1	50
24	Three-dimensional structure of amyloid fibrils. <i>Biochemical Society Transactions</i> , <b>2002</b> , 30, A54-A54	5.1	
23	A cluster of familial Creutzfeldt-Jakob disease mutations recapitulate conserved residues in Doppel: a case of molecular mimicry?. <i>FEBS Letters</i> , <b>2002</b> , 532, 21-6	3.8	4
22	From genetics to pathology: tau and alpha-synuclein assemblies in neurodegenerative diseases. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2001</b> , 356, 213-27	5.8	51
21	Identification of a novel human islet amyloid polypeptide beta-sheet domain and factors influencing fibrillogenesis. <i>Journal of Molecular Biology</i> , <b>2001</b> , 308, 515-25	6.5	210
20	Fiber diffraction of synthetic alpha-synuclein filaments shows amyloid-like cross-beta conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 4897-902	11.5	647
19	Protofilaments, filaments, ribbons, and fibrils from peptidomimetic self-assembly: implications for amyloid fibril formation and materials science. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 5262-77	16.4	267
18	Direct visualisation of the beta-sheet structure of synthetic Alzheimer's amyloid. <i>Journal of Molecular Biology</i> , <b>2000</b> , 299, 225-31	6.5	165
17	The protofilament substructure of amyloid fibrils. <i>Journal of Molecular Biology</i> , <b>2000</b> , 300, 1033-9	6.5	294

16	Presenilin structure, function and role in Alzheimer disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2000</b> , 1502, 1-15	6.9	75
15	Alzheimer's amyloid fibrils: structure and assembly. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2000</b> , 1502, 16-30	6.9	723
14	Nucleated conformational conversion and the replication of conformational information by a prion determinant. <i>Science</i> , <b>2000</b> , 289, 1317-21	33.3	851
13	Molecular structure of a fibrillar Alzheimer's A beta fragment. <i>Biochemistry</i> , <b>2000</b> , 39, 13269-75	3.2	153
12	X-ray fiber diffraction of amyloid fibrils. <i>Methods in Enzymology</i> , <b>1999</b> , 309, 526-36	1.7	98
11	Common core structure of amyloid fibrils by synchrotron X-ray diffraction. <i>Journal of Molecular Biology</i> , <b>1997</b> , 273, 729-39	6.5	1402
10	The molecular basis of amyloidosis. <i>Cellular and Molecular Life Sciences</i> , <b>1997</b> , 53, 871-87	10.3	119
9	Synchrotron X-ray studies suggest that the core of the transthyretin amyloid fibril is a continuous beta-sheet helix. <i>Structure</i> , <b>1996</b> , 4, 989-98	5.2	367
8	The helix-hairpin-helix DNA-binding motif: a structural basis for non-sequence-specific recognition of DNA. <i>Nucleic Acids Research</i> , <b>1996</b> , 24, 2488-97	20.1	280
7	The edge strand hypothesis: Prediction and test of a mutational hot-spot on the transthyretin molecule associated with FAP amyloidogenesis. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , <b>1996</b> , 3, 75-85	2.7	23
6	A molecular model of the amyloid fibril. <i>Novartis Foundation Symposium</i> , <b>1996</b> , 199, 6-15; discussion 15-21, 40-6		9
5	Examination of the structure of the transthyretin amyloid fibril by image reconstruction from electron micrographs. <i>Journal of Molecular Biology</i> , <b>1995</b> , 254, 113-8	6.5	135
4	Physical Methods for Studies of Fiber Formation and Structure 197-253		5
3	Three-dimensional reconstruction of individual helical nano-filament structures from atomic force microscopy topographs		1
2	Quantification of amyloid fibril polymorphism by nano-morphometry reveals the individuality of filament assembly		2
1	Formation of functional, non-amyloidogenic fibres by recombinant <i>Bacillus subtilis</i> TasA		1