Christopher M Dobson

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.

231 36,210 76
papers citations h-index

240 41,730 ext. citations

10.3 avg, IF 189

g-index

7.87

L-index

#	Paper	IF	Citations
231	The Hsc70 disaggregation machinery removes monomer units directly from Esynuclein fibril ends. Nature Communications, 2021 , 12, 5999	17.4	2
230	The release of toxic oligomers from Esynuclein fibrils induces dysfunction in neuronal cells. <i>Nature Communications</i> , 2021 , 12, 1814	17.4	39
229	Comparative Studies in the A30P and A53T Esynuclein Strains to Investigate the Molecular Origins of Parkinson's Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 552549	5.7	5
228	Squalamine and Its Derivatives Modulate the Aggregation of Amyloid-land Esynuclein and Suppress the Toxicity of Their Oligomers. <i>Frontiers in Neuroscience</i> , 2021 , 15, 680026	5.1	11
227	Distinct responses of human peripheral blood cells to different misfolded protein oligomers. <i>Immunology</i> , 2021 , 164, 358-371	7.8	2
226	Two human metabolites rescue a C. elegans model of Alzheimer's disease via a cytosolic unfolded protein response. <i>Communications Biology</i> , 2021 , 4, 843	6.7	1
225	Systematic Activity Maturation of a Single-Domain Antibody with Non-canonical Amino Acids through Chemical Mutagenesis. <i>Cell Chemical Biology</i> , 2021 , 28, 70-77.e5	8.2	6
224	AlDligomers Dysregulate Calcium Homeostasis by Mechanosensitive Activation of AMPA and NMDA Receptors. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 766-781	5.7	7
223	Scaling analysis reveals the mechanism and rates of prion replication in vivo. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 365-372	17.6	7
222	Exogenous misfolded protein oligomers can cross the intestinal barrier and cause a disease phenotype in C. elegans. <i>Scientific Reports</i> , 2021 , 11, 14391	4.9	1
221	Cytosolic aggregation of mitochondrial proteins disrupts cellular homeostasis by stimulating the aggregation of other proteins. <i>ELife</i> , 2021 , 10,	8.9	8
220	The binding of the small heat-shock protein B -crystallin to fibrils of Esynuclein is driven by entropic forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
219	A dopamine metabolite stabilizes neurotoxic amyloid-lbligomers. <i>Communications Biology</i> , 2021 , 4, 19	6.7	6
218	Observation of an Esynuclein liquid droplet state and its maturation into Lewy body-like assemblies. <i>Journal of Molecular Cell Biology</i> , 2021 , 13, 282-294	6.3	25
217	Small-molecule sequestration of amyloid-las a drug discovery strategy for Alzheimer's disease. <i>Science Advances</i> , 2020 , 6,	14.3	28
216	Kinetic diversity of amyloid oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12087-12094	11.5	55
215	Assessing motor-related phenotypes of Caenorhabditis elegans with the wide field-of-view nematode tracking platform. <i>Nature Protocols</i> , 2020 , 15, 2071-2106	18.8	8

(2020-2020)

214	Biophysical studies of protein misfolding and aggregation in models of Alzheimer's and Parkinson's diseases. <i>Quarterly Reviews of Biophysics</i> , 2020 , 49, e22	7	7
213	Rational design of a conformation-specific antibody for the quantification of Albligomers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13509-13518	8 ^{11.5}	26
212	The Influence of Pathogenic Mutations in Esynuclein on Biophysical and Structural Characteristics of Amyloid Fibrils. <i>ACS Nano</i> , 2020 , 14, 5213-5222	16.7	24
211	A Cell- and Tissue-Specific Weakness of the Protein Homeostasis System Underlies Brain Vulnerability to Protein Aggregation. <i>IScience</i> , 2020 , 23, 100934	6.1	5
210	Half a century of amyloids: past, present and future. <i>Chemical Society Reviews</i> , 2020 , 49, 5473-5509	58.5	142
209	Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid-IDligomers. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
208	A Role of Cholesterol in Modulating the Binding of Esynuclein to Synaptic-Like Vesicles. <i>Frontiers in Neuroscience</i> , 2020 , 14, 18	5.1	10
207	ThX - a next-generation probe for the early detection of amyloid aggregates. <i>Chemical Science</i> , 2020 , 11, 4578-4583	9.4	18
206	The N-terminal Acetylation of Esynuclein Changes the Affinity for Lipid Membranes but not the Structural Properties of the Bound State. <i>Scientific Reports</i> , 2020 , 10, 204	4.9	22
205	Transthyretin Inhibits Primary and Secondary Nucleations of Amyloid-Peptide Aggregation and Reduces the Toxicity of Its Oligomers. <i>Biomacromolecules</i> , 2020 , 21, 1112-1125	6.9	28
204	Dynamics of oligomer populations formed during the aggregation of Alzheimer's AII2 peptide. <i>Nature Chemistry</i> , 2020 , 12, 445-451	17.6	103
203	Screening of small molecules using the inhibition of oligomer formation in Esynuclein aggregation as a selection parameter. <i>Communications Chemistry</i> , 2020 , 3,	6.3	4
202	Proteome-wide observation of the phenomenon of life on the edge of solubility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1015-1020	11.5	52
201	Kinetic fingerprints differentiate the mechanisms of action of anti-Alantibodies. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 1125-1133	17.6	35
200	The extent of protein hydration dictates the preference for heterogeneous or homogeneous nucleation generating either parallel or antiparallel Esheet Esynuclein aggregates. <i>Chemical Science</i> , 2020 , 11, 11902-11914	9.4	9
199	Direct measurement of lipid membrane disruption connects kinetics and toxicity of AII2 aggregation. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 886-891	17.6	12
198	Amelioration of aggregate cytotoxicity by catalytic conversion of protein oligomers into amyloid fibrils. <i>Nanoscale</i> , 2020 , 12, 18663-18672	7.7	7
197	A rationally designed bicyclic peptide remodels AII2 aggregation in vitro and reduces its toxicity in a worm model of Alzheimer's disease. <i>Scientific Reports</i> , 2020 , 10, 15280	4.9	4

196	Thermodynamic and kinetic design principles for amyloid-aggregation inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24251-24257	11.5	15
195	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. <i>Communications Biology</i> , 2020 , 3, 435	6.7	23
194	Biophysical studies of protein misfolding and aggregation in models of Alzheimer's and Parkinson's diseases - ERRATUM. <i>Quarterly Reviews of Biophysics</i> , 2020 , 53, e13	7	1
193	The Amyloid Phenomenon and Its Significance in Biology and Medicine. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020 , 12,	10.2	65
192	Probing the dynamic stalk region of the ribosome using solution NMR. <i>Scientific Reports</i> , 2019 , 9, 13528	4.9	6
191	Chemical and mechanistic analysis of photodynamic inhibition of Alzheimer's Eamyloid aggregation. <i>Chemical Communications</i> , 2019 , 55, 1152-1155	5.8	11
190	Fast Fluorescence Lifetime Imaging Reveals the Aggregation Processes of Esynuclein and Polyglutamine in Aging. <i>ACS Chemical Biology</i> , 2019 , 14, 1628-1636	4.9	17
189	Defining Esynuclein species responsible for Parkinson's disease phenotypes in mice. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10392-10406	5.4	55
188	Expression of the amyloid-peptide in a single pair of C. elegans sensory neurons modulates the associated behavioural response. <i>PLoS ONE</i> , 2019 , 14, e0217746	3.7	3
187	The Toxicity of Misfolded Protein Oligomers Is Independent of Their Secondary Structure. <i>ACS Chemical Biology</i> , 2019 , 14, 1593-1600	4.9	24
186	Secondary nucleation and elongation occur at different sites on Alzheimer's amyloid-laggregates. <i>Science Advances</i> , 2019 , 5, eaau3112	14.3	74
185	Identifying A- and P-site locations on ribosome-protected mRNA fragments using Integer Programming. <i>Scientific Reports</i> , 2019 , 9, 6256	4.9	11
184	Probing the Origin of the Toxicity of Oligomeric Aggregates of Esynuclein with Antibodies. <i>ACS Chemical Biology</i> , 2019 , 14, 1352-1362	4.9	20
183	The metastability of the proteome of spinal motor neurons underlies their selective vulnerability in ALS. <i>Neuroscience Letters</i> , 2019 , 704, 89-94	3.3	17
182	Different soluble aggregates of AB2 can give rise to cellular toxicity through different mechanisms. <i>Nature Communications</i> , 2019 , 10, 1541	17.4	71
181	Increased Secondary Nucleation Underlies Accelerated Aggregation of the Four-Residue N-Terminally Truncated AII2 Species AII-42. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 2374-2384	5.7	11
180	Differential Interactome and Innate Immune Response Activation of Two Structurally Distinct Misfolded Protein Oligomers. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 3464-3478	5.7	7
179	Enhancement of the Anti-Aggregation Activity of a Molecular Chaperone Using a Rationally Designed Post-Translational Modification. <i>ACS Central Science</i> , 2019 , 5, 1417-1424	16.8	11

(2018-2019)

Bacterial production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. <i>Science Advances</i> , 2019 , 5, eaax5108	14.3	10	
Dynamics and Control of Peptide Self-Assembly and Aggregation. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1174, 1-33	3.6	5	
Supersaturated proteins are enriched at synapses and underlie cell and tissue vulnerability in Alzheimer's disease. <i>Heliyon</i> , 2019 , 5, e02589	3.6	17	
Lipid Dynamics and Phase Transition within Esynuclein Amyloid Fibrils. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7872-7877	6.4	19	
A metastable subproteome underlies inclusion formation in muscle proteinopathies. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 197	7.3	10	
Trodusquemine enhances Alaggregation but suppresses its toxicity by displacing oligomers from cell membranes. <i>Nature Communications</i> , 2019 , 10, 225	17.4	69	
Bifunctional fluorescent probes for detection of amyloid aggregates and reactive oxygen species. <i>Royal Society Open Science</i> , 2018 , 5, 171399	3.3	9	
Chemical Kinetics for Bridging Molecular Mechanisms and Macroscopic Measurements of Amyloid Fibril Formation. <i>Annual Review of Physical Chemistry</i> , 2018 , 69, 273-298	15.7	98	
Molecular determinants of the interaction of EGCG with ordered and disordered proteins. <i>Biopolymers</i> , 2018 , 109, e23117	2.2	20	
Exploring the role of post-translational modifications in regulating Bynuclein interactions by studying the effects of phosphorylation on nanobody binding. <i>Protein Science</i> , 2018 , 27, 1262-1274	6.3	18	
Massively parallel C. elegans tracking provides multi-dimensional fingerprints for phenotypic discovery. <i>Journal of Neuroscience Methods</i> , 2018 , 306, 57-67	3	35	
The small heat shock protein Hsp27 binds Esynuclein fibrils, preventing elongation and cytotoxicity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4486-4497	5.4	64	
Optical Structural Analysis of Individual Esynuclein Oligomers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4886-4890	16.4	27	
Optical Structural Analysis of Individual Esynuclein Oligomers. <i>Angewandte Chemie</i> , 2018 , 130, 4980-49	84 .6		
Direct Observation of Oligomerization by Single Molecule Fluorescence Reveals a Multistep Aggregation Mechanism for the Yeast Prion Protein Ure2. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2493-2503	16.4	31	
Microfluidic Diffusion Platform for Characterizing the Sizes of Lipid Vesicles and the Thermodynamics of Protein-Lipid Interactions. <i>Analytical Chemistry</i> , 2018 , 90, 3284-3290	7.8	16	
Hsp70 Inhibits the Nucleation and Elongation of Tau and Sequesters Tau Aggregates with High Affinity. <i>ACS Chemical Biology</i> , 2018 , 13, 636-646	4.9	63	
Distinct thermodynamic signatures of oligomer generation in the aggregation of the amyloid-□ peptide. <i>Nature Chemistry</i> , 2018 , 10, 523-531	17.6	89	
	discovering inhibitors of protein aggregation. Science Advances, 2019, 5, eaax5108 Dynamics and Control of Peptide Self-Assembly and Aggregation. Advances in Experimental Medicine and Biology, 2019, 1174, 1-33 Supersaturated proteins are enriched at synapses and underlie cell and tissue vulnerability in Alzheimer's disease. Heliyon, 2019, 5, e02589 Lipid Dynamics and Phase Transition within Esynuclein Amyloid Fibrils. Journal of Physical Chemistry Letters, 2019, 10, 7872-7877 A metastable subproteome underlies inclusion formation in muscle proteinopathies. Acta Neuropathologica Communications, 2019, 7, 197 Trodusquemine enhances Aläggregation but suppresses its toxicity by displacing oligomers from cell membranes. Nature Communications, 2019, 10, 225 Bifunctional fluorescent probes for detection of amyloid aggregates and reactive oxygen species. Royal Society Open Science, 2018, 5, 171399 Chemical Kinetics for Bridging Molecular Mechanisms and Macroscopic Measurements of Amyloid Fibril Formation. Annual Review of Physical Chemistry, 2018, 69, 273-298 Molecular determinants of the interaction of EGCG with ordered and disordered proteins. Biopolymers, 2018, 109, e23117 Exploring the role of post-translational modifications in regulating Bynuclein interactions by studying the effects of phosphorylation on nanobody binding. Protein Science, 2018, 27, 1262-1274 Massively parallel C. elegans tracking provides multi-dimensional fingerprints for phenotypic discovery. Journal of Neuroscience Methods, 2018, 306, 57-67 The small heat shock protein Hsp27 binds Bynuclein fibrils, preventing elongation and cytotoxicity. Journal of Biological Chemistry, 2018, 293, 4486-4497 Optical Structural Analysis of Individual Esynuclein Oligomers. Angewandte Chemie - International Edition, 2018, 57, 4886-4890 Optical Structural Analysis of Individual Esynuclein Oligomers. Angewandte Chemie, 2018, 130, 4980-49 Direct Observation of Oligomerization by Single Molecule Fluorescence Reveals a Multistep Aggregation Mechanism for	Dynamics and Control of Peptide Self-Assembly and Aggregation. Advances in Experimental Medicine and Biology, 2019, 1174, 1-33 Supersaturated proteins are enriched at synapses and underlie cell and tissue vulnerability in Alzheimer's disease. Heliyon, 2019, 5, e02589 Lipid Dynamics and Phase Transition within Expruclein Amyloid Fibrils. Journal of Physical Chemistry Letters, 2019, 10, 7872-7877 A metastable subproteome underlies inclusion formation in muscle proteinopathies. Acta Neuropathologica Communications, 2019, 7, 197 Trodusquemine enhances Alaggregation but suppresses its toxicity by displacing oligomers from cell membranes. Nature Communications, 2019, 10, 225 Bifunctional fluorescent probes for detection of amyloid aggregates and reactive oxygen species. Royal Society Open Science, 2018, 5, 171399 Chemical Kinetics for Bridging Molecular Mechanisms and Macroscopic Measurements of Amyloid Fibril Formation. Annual Review of Physical Chemistry, 2018, 69, 273-298 Molecular determinants of the interaction of EGCG with ordered and disordered proteins. Biopolymers, 2018, 109, e23117 Exploring the role of post-translational modifications in regulating Expruclein interactions by studying the effects of phosphorylation on nanobody binding. Protein Science, 2018, 27, 1262-1274 Massively parallel C. elegans tracking provides multi-dimensional fingerprints for phenotypic discovery. Journal of Neuroscience Methods, 2018, 306, 57-67 The small heat shock protein Hsp27 binds Expruclein Oligomers. Angewandte Chemie - International Edition, 2018, 57, 4886-4890 Optical Structural Analysis of Individual Expruclein Oligomers. Angewandte Chemie - International Edition, 2018, 57, 4886-4890 Optical Structural Analysis of Individual Expruclein Oligomers. Angewandte Chemie - International Edition, 2018, 57, 4886-4890 Optical Structural Analysis of Individual Expruclein Oligomers. Angewandte Chemie - International Edition, 2018, 57, 4886-4890 Optical Structural Analysis of Individual Expruclein Oligomers and Versio	Dynamics and Control of Peptide Self-Assembly and Aggregation. Advances in Experimental Medicine and Biology, 2019, 1174, 1-33 Supersaturated proteins are enriched at synapses and underlie cell and tissue vulnerability in Alzheimer's disease. Heliyon, 2019, 5, e02589 Supersaturated proteins are enriched at synapses and underlie cell and tissue vulnerability in Alzheimer's disease. Heliyon, 2019, 5, e02589 Lipid Dynamics and Phase Transition within Esynuclein Amyloid Fibrils. Journal of Physical Chemistry Letters, 2019, 10, 7872-7877 A metastable subproteome underlies inclusion formation in muscle proteinopathies. Acta Neuropathologica Communications, 2019, 7, 197 Trodusquemine enhances Aläggregation but suppresses its toxicity by displacing oligomers from cell membranes. Nature Communications, 2019, 10, 225 Bifunctional fluorescent probes for detection of amyloid aggregates and reactive oxygen species. Royal Society Open Science, 2018, 5, 171399 Chemical Kinetics for Bridging Molecular Mechanisms and Macroscopic Measurements of Amyloid fibril Formation. Annual Review of Physical Chemistry, 2018, 69, 273-298 Molecular determinants of the interaction of EGCG with ordered and disordered proteins. 2.2 200 Exploring the role of post-translational modifications in regulating Bynuclein interactions by studying the effects of phosphorylation on nanobody binding. Protein Science, 2018, 27, 1262-1274 Massively parallel C. elegans tracking provides multi-dimensional fingerprints for phenotypic discovery. Journal of Neuroscience Methods, 2018, 306, 57-67 The small heat shock protein Hsp27 binds Bynuclein Oligomers. Angewandte Chemie- International 264 Aggregation Mechanism for the Yeast Prion Protein Ure2. Journal of Heamical Society, 2018, 140, 2493-2503 Optical Structural Analysis of Individual Esynuclein Oligomers. Angewandte Chemie- International 264 Hsp70 Inhibits the Nucleation and Elongation of Tau and Sequesters Tau Aggregates with High Affinity. ACS Chemical Biology, 2018, 13, 636-646 Distinct therm

160	Microfluidic approaches for probing amyloid assembly and behaviour. Lab on A Chip, 2018, 18, 999-1010	5 7.2	15
159	The contribution of biophysical and structural studies of protein self-assembly to the design of therapeutic strategies for amyloid diseases. <i>Neurobiology of Disease</i> , 2018 , 109, 178-190	7.5	51
158	Nanoscopic Characterisation of Individual Endogenous Protein Aggregates in Human Neuronal Cells. <i>ChemBioChem</i> , 2018 , 19, 2033-2038	3.8	21
157	Stabilization and Characterization of Cytotoxic AlDligomers Isolated from an Aggregation Reaction in the Presence of Zinc Ions. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 2959-2971	5.7	33
156	Structural differences between toxic and nontoxic HypF-N oligomers. <i>Chemical Communications</i> , 2018 , 54, 8637-8640	5.8	21
155	Cholesterol catalyses AB2 aggregation through a heterogeneous nucleation pathway in the presence of lipid membranes. <i>Nature Chemistry</i> , 2018 , 10, 673-683	17.6	126
154	Single-Molecule Characterization of the Interactions between Extracellular Chaperones and Toxic Esynuclein Oligomers. <i>Cell Reports</i> , 2018 , 23, 3492-3500	10.6	42
153	Automated Behavioral Analysis of Large C. elegans Populations Using a Wide Field-of-view Tracking Platform. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	6
152	Microfluidic deposition for resolving single-molecule protein architecture and heterogeneity. <i>Nature Communications</i> , 2018 , 9, 3890	17.4	19
151	SAR by kinetics for drug discovery in protein misfolding diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10245-10250	11.5	32
150	Mapping Surface Hydrophobicity of Esynuclein Oligomers at the Nanoscale. <i>Nano Letters</i> , 2018 , 18, 7494-7501	11.5	42
149	Quantifying Co-Oligomer Formation by Esynuclein. ACS Nano, 2018, 12, 10855-10866	16.7	30
148	Proteasome-targeted nanobodies alleviate pathology and functional decline in an Esynuclein-based Parkinson's disease model. <i>Npj Parkinsonps Disease</i> , 2018 , 4, 25	9.7	38
147	C-terminal truncation of Esynuclein promotes amyloid fibril amplification at physiological pH. <i>Chemical Science</i> , 2018 , 9, 5506-5516	9.4	34
146	Cooperative Assembly of Hsp70 Subdomain Clusters. <i>Biochemistry</i> , 2018 , 57, 3641-3649	3.2	8
145	Kinetic barriers to Bynuclein protofilament formation and conversion into mature fibrils. <i>Chemical Communications</i> , 2018 , 54, 7854-7857	5.8	14
144	Multistep Inhibition of Esynuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. <i>ACS Chemical Biology</i> , 2018 , 13, 2308-2319	4.9	52
143	A natural product inhibits the initiation of Esynuclein aggregation and suppresses its toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1009-E101	7 ^{11.5}	177

142	Inhibition of Esynuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between Esynuclein Species. <i>Biochemistry</i> , 2017 , 56, 1177-1180	3.2	45
141	Spinal motor neuron protein supersaturation patterns are associated with inclusion body formation in ALS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3935	5 ⁻¹ E 3594	3 ⁷²
140	Protein Misfolding, Amyloid Formation, and Human Disease: A Summary of Progress Over the Last Decade. <i>Annual Review of Biochemistry</i> , 2017 , 86, 27-68	29.1	1248
139	Amyloid-like Fibrils from an EHelical Transmembrane Protein. <i>Biochemistry</i> , 2017 , 56, 3225-3233	3.2	14
138	Modulation of electrostatic interactions to reveal a reaction network unifying the aggregation behaviour of the AB2 peptide and its variants. <i>Chemical Science</i> , 2017 , 8, 4352-4362	9.4	42
137	Direct Conversion of an Enzyme from Native-like to Amyloid-like Aggregates within Inclusion Bodies. <i>Biophysical Journal</i> , 2017 , 112, 2540-2551	2.9	9
136	Selective targeting of primary and secondary nucleation pathways in AB2 aggregation using a rational antibody scanning method. <i>Science Advances</i> , 2017 , 3, e1700488	14.3	81
135	Phage display and kinetic selection of antibodies that specifically inhibit amyloid self-replication. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6444-6449	11.5	41
134	Systematic development of small molecules to inhibit specific microscopic steps of AB2 aggregation in Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E200-E208	11.5	134
133	Nanobodies raised against monomeric ?-synuclein inhibit fibril formation and destabilize toxic oligomeric species. <i>BMC Biology</i> , 2017 , 15, 57	7.3	46
132	Gradient-free determination of isoelectric points of proteins on chip. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23060-23067	3.6	19
131	Scaling behaviour and rate-determining steps in filamentous self-assembly. <i>Chemical Science</i> , 2017 , 8, 7087-7097	9.4	43
130	Silk micrococoons for protein stabilisation and molecular encapsulation. <i>Nature Communications</i> , 2017 , 8, 15902	17.4	65
129	Structural basis of membrane disruption and cellular toxicity by Esynuclein oligomers. <i>Science</i> , 2017 , 358, 1440-1443	33.3	301
128	Inhibiting the Ca Influx Induced by Human CSF. <i>Cell Reports</i> , 2017 , 21, 3310-3316	10.6	14
127	Delivery of Native Proteins into C. elegans Using a Transduction Protocol Based on Lipid Vesicles. <i>Scientific Reports</i> , 2017 , 7, 15045	4.9	11
126	Protein homeostasis of a metastable subproteome associated with Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5703-E5711	11.5	53
125	Ultrasensitive Measurement of Ca2+ Influx into Lipid Vesicles Induced by Protein Aggregates. Angewandte Chemie, 2017 , 129, 7858-7862	3.6	6

124	Ultrasensitive Measurement of Ca Influx into Lipid Vesicles Induced by Protein Aggregates. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7750-7754	16.4	51
123	Monomeric and fibrillar Bynuclein exert opposite effects on the catalytic cycle that promotes the proliferation of AB2 aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8005-8010	11.5	27
122	Mutations associated with familial Parkinson's disease alter the initiation and amplification steps of Ebynuclein aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10328-33	11.5	159
121	Protein Aggregate-Ligand Binding Assays Based on Microfluidic Diffusional Separation. <i>ChemBioChem</i> , 2016 , 17, 1920-1924	3.8	10
120	Physical determinants of the self-replication of protein fibrils. <i>Nature Physics</i> , 2016 , 12, 874-880	16.2	73
119	Hamiltonian Dynamics of Protein Filament Formation. <i>Physical Review Letters</i> , 2016 , 116, 038101	7.4	22
118	Binding affinity of amyloid oligomers to cellular membranes is a generic indicator of cellular dysfunction in protein misfolding diseases. <i>Scientific Reports</i> , 2016 , 6, 32721	4.9	73
117	A protein homeostasis signature in healthy brains recapitulates tissue vulnerability to Alzheimer's disease. <i>Science Advances</i> , 2016 , 2, e1600947	14.3	68
116	ESynuclein suppresses both the initiation and amplification steps of Esynuclein aggregation via competitive binding to surfaces. <i>Scientific Reports</i> , 2016 , 6, 36010	4.9	45
115	Particle-Based Monte-Carlo Simulations of Steady-State Mass Transport at Intermediate Palet Numbers. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2016 , 17, 175-183	1.8	20
114	Chemical properties of lipids strongly affect the kinetics of the membrane-induced aggregation of Esynuclein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7065-70	11.5	164
113	Effect of molecular chaperones on aberrant protein oligomers in vitro: super-versus sub-stoichiometric chaperone concentrations. <i>Biological Chemistry</i> , 2016 , 397, 401-15	4.5	18
112	Single-Molecule Imaging of Individual Amyloid Protein Aggregates in Human Biofluids. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 399-406	5.7	75
111	Ca2+ is a key factor in Esynuclein-induced neurotoxicity. <i>Journal of Cell Science</i> , 2016 , 129, 1792-801	5.3	106
110	Nanoscopic insights into seeding mechanisms and toxicity of Esynuclein species in neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3815-9	11.5	57
109	Automated Ex Situ Assays of Amyloid Formation on a Microfluidic Platform. <i>Biophysical Journal</i> , 2016 , 110, 555-560	2.9	10
108	Kinetic model of the aggregation of alpha-synuclein provides insights into prion-like spreading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1206-15	11.5	130
107	An anticancer drug suppresses the primary nucleation reaction that initiates the production of the toxic AB2 aggregates linked with Alzheimer's disease. <i>Science Advances</i> , 2016 , 2, e1501244	14.3	133

(2015-2016)

106	A Fragment-Based Method of Creating Small-Molecule Libraries to Target the Aggregation of Intrinsically Disordered Proteins. <i>ACS Combinatorial Science</i> , 2016 , 18, 144-53	3.9	29
105	A structural ensemble of a ribosome-nascent chain complex during cotranslational protein folding. Nature Structural and Molecular Biology, 2016 , 23, 278-285	17.6	96
104	Molecular mechanisms of protein aggregation from global fitting of kinetic models. <i>Nature Protocols</i> , 2016 , 11, 252-72	18.8	342
103	Microfluidic Diffusion Analysis of the Sizes and Interactions of Proteins under Native Solution Conditions. <i>ACS Nano</i> , 2016 , 10, 333-41	16.7	61
102	Alpha-Synuclein Oligomers Interact with Metal Ions to Induce Oxidative Stress and Neuronal Death in Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 376-91	8.4	192
101	Synthesis of Nonequilibrium Supramolecular Peptide Polymers on a Microfluidic Platform. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9589-96	16.4	21
100	Structural basis of synaptic vesicle assembly promoted by Esynuclein. <i>Nature Communications</i> , 2016 , 7, 12563	17.4	139
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4	The Hsc70 Disaggregation Machinery Removes Monomer Units Directly from Esynuclein Fibril Ends		3
3	Small molecule sequestration of amyloid-las a drug discovery strategy for Alzheimer disease		4
2	Kinetic fingerprints differentiate anti-Altherapies		5
1	Cytosolic aggregation of mitochondrial proteins disrupts cellular homeostasis by stimulating the aggregation of other proteins		2