Tuomas P J Knowles

List of Publications by Citations

295 papers	18,020 citations	65 h-index	127 g-index
316 ext. papers	22,705 ext. citations	10.2 avg, IF	7.13 L-index

#	Paper	IF	Citations
295	The amyloid state and its association with protein misfolding diseases. *Nature Reviews Molecular Cell Biology*, **2014**, 15, 384-96	48.7	1481
294	Proliferation of amyloid-β42 aggregates occurs through a secondary nucleation mechanism. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 9758-63	11.5	867
293	An analytical solution to the kinetics of breakable filament assembly. *Science*, **2009**, 326, 1533-7	33.3	804
292	Nanomechanics of functional and pathological amyloid materials. *Nature Nanotechnology*, **2011**, 6, 469-79	28.7	590
291	Direct observation of the interconversion of normal and toxic forms of α-synuclein. *Cell*, **2012**, 149, 1048-59	56.2	588
290	On the lag phase in amyloid fibril formation. *Physical Chemistry Chemical Physics*, **2015**, 17, 7606-18	3.6	421
289	Atomic structure and hierarchical assembly of a cross-β amyloid fibril. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5468-73	11.5	401
288	Solution conditions determine the relative importance of nucleation and growth processes in α-synuclein aggregation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7671-6	11.5	395
287	Lipid vesicles trigger α-synuclein aggregation by stimulating primary nucleation. *Nature Chemical Biology*, **2015**, 11, 229-34	11.7	355
286	Molecular mechanisms of protein aggregation from global fitting of kinetic models. *Nature Protocols*, **2016**, 11, 252-72	18.8	342
285	From macroscopic measurements to microscopic mechanisms of protein aggregation. *Journal of Molecular Biology*, **2012**, 421, 160-71	6.5	331
284	Metastability of native proteins and the phenomenon of amyloid formation. *Journal of the American Chemical Society*, **2011**, 133, 14160-3	16.4	305
283	Nanostructured films from hierarchical self-assembly of amyloidogenic proteins. *Nature Nanotechnology*, **2010**, 5, 204-7	28.7	301
282	Differences in nucleation behavior underlie the contrasting aggregation kinetics of the Aβ40 and Aβ42 peptides. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 9384-9	11.5	294
281	Amyloid Fibrils as Building Blocks for Natural and Artificial Functional Materials. *Advanced Materials* , **2016**, 28, 6546-61	24	292
280	Structural characterization of toxic oligomers that are kinetically trapped during α-synuclein fibril formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1994-2003	11.5	278
279	A molecular chaperone breaks the catalytic cycle that generates toxic Aβ oligomers. *Nature Structural and Molecular Biology*, **2015**, 22, 207-213	17.6	268

278	Nucleated polymerization with secondary pathways. I. Time evolution of the principal moments. *Journal of Chemical Physics*, **2011**, 135, 065105	3.9	226
277	A natural product inhibits the initiation of □synuclein aggregation and suppresses its toxicity. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E1009-E1017	11.5	177
276	Secondary nucleation in amyloid formation. *Chemical Communications*, **2018**, 54, 8667-8684	5.8	174
275	Kinetics and thermodynamics of amyloid formation from direct measurements of fluctuations in fibril mass. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 10016-21	11.5	167
274	The role of stable □synuclein oligomers in the molecular events underlying amyloid formation. *Journal of the American Chemical Society*, **2014**, 136, 3859-68	16.4	163
273	Chemical kinetics for drug discovery to combat protein aggregation diseases. *Trends in Pharmacological Sciences*, **2014**, 35, 127-35	13.2	161
272	Mutations associated with familial Parkinson's disease alter the initiation and amplification steps of □synuclein aggregation. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 10328-33	11.5	159
271	RNA Granules Hitchhike on Lysosomes for Long-Distance Transport, Using Annexin A11 as a Molecular Tether. *Cell*, **2019**, 179, 147-164.e20	56.2	158
270	Kinetic analysis reveals the diversity of microscopic mechanisms through which molecular chaperones suppress amyloid formation. *Nature Communications*, **2016**, 7, 10948	17.4	153
269	Ostwald's rule of stages governs structural transitions and morphology of dipeptide supramolecular polymers. *Nature Communications*, **2014**, 5, 5219	17.4	150
268	Half a century of amyloids: past, present and future. *Chemical Society Reviews*, **2020**, 49, 5473-5509	58.5	142
267	Systematic development of small molecules to inhibit specific microscopic steps of A□42 aggregation in Alzheimer's disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E200-E208	11.5	134
266	An anticancer drug suppresses the primary nucleation reaction that initiates the production of the toxic A□42 aggregates linked with Alzheimer's disease. *Science Advances*, **2016**, 2, e1501244	14.3	133
265	Nucleated polymerization with secondary pathways. II. Determination of self-consistent solutions to growth processes described by non-linear master equations. *Journal of Chemical Physics*, **2011**, 135, 065106	3.9	132
264	Kinetic model of the aggregation of alpha-synuclein provides insights into prion-like spreading. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1206-15	11.5	130
263	A mechanistic model of tau amyloid aggregation based on direct observation of oligomers. *Nature Communications*, **2015**, 6, 7025	17.4	129
262	Cholesterol catalyses A□42 aggregation through a heterogeneous nucleation pathway in the presence of lipid membranes. *Nature Chemistry*, **2018**, 10, 673-683	17.6	126
261	Nucleation and Growth of Amino Acid and Peptide Supramolecular Polymers through Liquid-Liquid Phase Separation. *Angewandte Chemie - International Edition*, **2019**, 58, 18116-18123	16.4	122

260	Binding of the molecular chaperone B-crystallin to A amyloid fibrils inhibits fibril elongation. *Biophysical Journal*, **2011**, 101, 1681-9	2.9	122
259	Biomimetic peptide self-assembly for functional materials. *Nature Reviews Chemistry*, **2020**, 4, 615-634	34.6	121
258	The interaction of alphaB-crystallin with mature alpha-synuclein amyloid fibrils inhibits their elongation. *Biophysical Journal*, **2010**, 98, 843-51	2.9	120
257	Crucial role of nonspecific interactions in amyloid nucleation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17869-74	11.5	116
256	Observation of spatial propagation of amyloid assembly from single nuclei. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 14746-51	11.5	108
255	Interaction of the molecular chaperone DNAJB6 with growing amyloid-beta 42 (A42) aggregates leads to sub-stoichiometric inhibition of amyloid formation. *Journal of Biological Chemistry*, **2014**, 289, 31066-76	5.4	106
254	Dynamics of oligomer populations formed during the aggregation of Alzheimer's A42 peptide. *Nature Chemistry*, **2020**, 12, 445-451	17.6	103
253	Secondary nucleation of monomers on fibril surface dominates -synuclein aggregation and provides autocatalytic amyloid amplification. *Quarterly Reviews of Biophysics*, **2017**, 50, e6	7	102
252	Quantification of the concentration of A42 propagons during the lag phase by an amyloid chain reaction assay. *Journal of the American Chemical Society*, **2014**, 136, 219-25	16.4	102
251	Chemical Kinetics for Bridging Molecular Mechanisms and Macroscopic Measurements of Amyloid Fibril Formation. *Annual Review of Physical Chemistry*, **2018**, 69, 273-298	15.7	98
250	Targeting the intrinsically disordered structural ensemble of -synuclein by small molecules as a potential therapeutic strategy for Parkinson's disease. *PLoS ONE*, **2014**, 9, e87133	3.7	98
249	Fabrication of fibrillosomes from droplets stabilized by protein nanofibrils at all-aqueous interfaces. *Nature Communications*, **2016**, 7, 12934	17.4	95
248	The A40 and A42 peptides self-assemble into separate homomolecular fibrils in binary mixtures but cross-react during primary nucleation. *Chemical Science*, **2015**, 6, 4215-4233	9.4	91
247	Distinct thermodynamic signatures of oligomer generation in the aggregation of the amyloid- peptide. *Nature Chemistry*, **2018**, 10, 523-531	17.6	89
246	Detailed analysis of the energy barriers for amyloid fibril growth. *Angewandte Chemie - International Edition*, **2012**, 51, 5247-51	16.4	88
245	The S/T-Rich Motif in the DNAJB6 Chaperone Delays Polyglutamine Aggregation and the Onset of Disease in a Mouse Model. *Molecular Cell*, **2016**, 62, 272-283	17.6	87
244	Nucleated polymerization with secondary pathways. III. Equilibrium behavior and oligomer populations. *Journal of Chemical Physics*, **2011**, 135, 065107	3.9	82
243	Selective targeting of primary and secondary nucleation pathways in A42 aggregation using a rational antibody scanning method. *Science Advances*, **2017**, 3, e1700488	14.3	81

242	Conserved C-terminal charge exerts a profound influence on the aggregation rate of -synuclein. *Journal of Molecular Biology*, **2011**, 411, 329-33	6.5	76
241	Secondary nucleation and elongation occur at different sites on Alzheimer's amyloid- aggregates. *Science Advances*, **2019**, 5, eaau3112	14.3	74
240	Electrostatic effects in filamentous protein aggregation. *Biophysical Journal*, **2013**, 104, 1116-26	2.9	74
239	Enhancing power density of biophotovoltaics by decoupling storage and power delivery. *Nature Energy*, **2018**, 3, 75-81	62.3	73
238	Physical determinants of the self-replication of protein fibrils. *Nature Physics*, **2016**, 12, 874-880	16.2	73
237	Controlling the Physical Dimensions of Peptide Nanotubes by Supramolecular Polymer Coassembly. *ACS Nano*, **2016**, 10, 7436-42	16.7	73
236	Dynamic microfluidic control of supramolecular peptide self-assembly. *Nature Communications*, **2016**, 7, 13190	17.4	72
235	Different soluble aggregates of A 42 can give rise to cellular toxicity through different mechanisms. *Nature Communications*, **2019**, 10, 1541	17.4	71
234	Single-molecule FRET studies on alpha-synuclein oligomerization of Parkinson's disease genetically related mutants. *Scientific Reports*, **2015**, 5, 16696	4.9	69
233	Trodusquemine enhances A aggregation but suppresses its toxicity by displacing oligomers from cell membranes. *Nature Communications*, **2019**, 10, 225	17.4	69
232	Reentrant liquid condensate phase of proteins is stabilized by hydrophobic and non-ionic interactions. *Nature Communications*, **2021**, 12, 1085	17.4	68
231	Population of nonnative states of lysozyme variants drives amyloid fibril formation. *Journal of the American Chemical Society*, **2011**, 133, 7737-7743	16.4	67
230	Fast flow microfluidics and single-molecule fluorescence for the rapid characterization of -synuclein oligomers. *Analytical Chemistry*, **2015**, 87, 8818-26	7.8	65
229	Silk micrococoons for protein stabilisation and molecular encapsulation. *Nature Communications*, **2017**, 8, 15902	17.4	65
228	The Amyloid Phenomenon and Its Significance in Biology and Medicine. *Cold Spring Harbor Perspectives in Biology*, **2020**, 12,	10.2	65
227	Quantitative analysis of intrinsic and extrinsic factors in the aggregation mechanism of Alzheimer-associated A peptide. *Scientific Reports*, **2016**, 6, 18728	4.9	64
226	Microfluidic Diffusion Analysis of the Sizes and Interactions of Proteins under Native Solution Conditions. *ACS Nano*, **2016**, 10, 333-41	16.7	61
225	On the role of sidechain size and charge in the aggregation of A42 with familial mutations. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E5849-E5858	11.5	58

224	Connecting macroscopic observables and microscopic assembly events in amyloid formation using coarse grained simulations. *PLoS Computational Biology*, **2012**, 8, e1002692	5	58
223	Budding-like division of all-aqueous emulsion droplets modulated by networks of protein nanofibrils. *Nature Communications*, **2018**, 9, 2110	17.4	58
222	Atomic force microscopy for single molecule characterisation of protein aggregation. *Archives of Biochemistry and Biophysics*, **2019**, 664, 134-148	4.1	57
221	Kinetic diversity of amyloid oligomers. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12087-12094	11.5	55
220	Frequency factors in a landscape model of filamentous protein aggregation. *Physical Review Letters* , **2010**, 104, 228101	7.4	55
219	The component polypeptide chains of bovine insulin nucleate or inhibit aggregation of the parent protein in a conformation-dependent manner. *Journal of Molecular Biology*, **2006**, 360, 497-509	6.5	54
218	Determination of Polypeptide Conformation with Nanoscale Resolution in Water. *ACS Nano*, **2018**, 12, 6612-6619	16.7	52
217	Multistep Inhibition of □Synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. *ACS Chemical Biology*, **2018**, 13, 2308-2319	4.9	52
216	Ultrasensitive Measurement of Ca Influx into Lipid Vesicles Induced by Protein Aggregates. *Angewandte Chemie - International Edition*, **2017**, 56, 7750-7754	16.4	51
215	Identification and nanomechanical characterization of the fundamental single-strand protofilaments of amyloid □synuclein fibrils. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7230-7235	11.5	51
214	Kinetics of spontaneous filament nucleation via oligomers: Insights from theory and simulation. *Journal of Chemical Physics*, **2016**, 145, 211926	3.9	50
213	Origin of metastable oligomers and their effects on amyloid fibril self-assembly. *Chemical Science*, **2018**, 9, 5937-5948	9.4	48
212	Self-assembly of MPG1, a hydrophobin protein from the rice blast fungus that forms functional amyloid coatings, occurs by a surface-driven mechanism. *Scientific Reports*, **2016**, 6, 25288	4.9	48
211	Twisting transition between crystalline and fibrillar phases of aggregated peptides. *Physical Review Letters*, **2012**, 109, 158101	7.4	47
210	Nanobodies raised against monomeric ?-synuclein inhibit fibril formation and destabilize toxic oligomeric species. *BMC Biology*, **2017**, 15, 57	7.3	46
209	Inhibition of □Synuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between □Synuclein Species. *Biochemistry*, **2017**, 56, 1177-1180	3.2	45
208	□Synuclein suppresses both the initiation and amplification steps of □synuclein aggregation via competitive binding to surfaces. *Scientific Reports*, **2016**, 6, 36010	4.9	45
207	Latent analysis of unmodified biomolecules and their complexes in solution with attomole detection sensitivity. *Nature Chemistry*, **2015**, 7, 802-9	17.6	44

206	Scaling behaviour and rate-determining steps in filamentous self-assembly. *Chemical Science*, **2017**, 8, 7087-7097	9.4	43
205	Modulation of electrostatic interactions to reveal a reaction network unifying the aggregation behaviour of the A42 peptide and its variants. *Chemical Science*, **2017**, 8, 4352-4362	9.4	42
204	The physical chemistry of the amyloid phenomenon: thermodynamics and kinetics of filamentous protein aggregation. *Essays in Biochemistry*, **2014**, 56, 11-39	7.6	42
203	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
202	Nanoscale spatially resolved infrared spectra from single microdroplets. *Lab on A Chip*, **2014**, 14, 1315-9	7.2	41
201	Physical Determinants of Amyloid Assembly in Biofilm Formation. *MBio*, **2019**, 10,	7.8	40
200	Electrostatically-guided inhibition of Curli amyloid nucleation by the CsgC-like family of chaperones. *Scientific Reports*, **2016**, 6, 24656	4.9	39
199	Quantitative analysis of co-oligomer formation by amyloid-beta peptide isoforms. *Scientific Reports*, **2016**, 6, 28658	4.9	38
198	Nucleation and Growth of Amino Acid and Peptide Supramolecular Polymers through Liquid–Liquid Phase Separation. *Angewandte Chemie*, **2019**, 131, 18284-18291	3.6	37
197	Quantitative thermophoretic study of disease-related protein aggregates. *Scientific Reports*, **2016**, 6, 22829	4.9	37
196	Dynamics of protein aggregation and oligomer formation governed by secondary nucleation. *Journal of Chemical Physics*, **2015**, 143, 054901	3.9	36
195	Enzymatically Active Microgels from Self-Assembling Protein Nanofibrils for Microflow Chemistry. *ACS Nano*, **2015**, 9, 5772-81	16.7	36
194	Massively parallel C. elegans tracking provides multi-dimensional fingerprints for phenotypic discovery. *Journal of Neuroscience Methods*, **2018**, 306, 57-67	3	35
193	Soluble aggregates present in cerebrospinal fluid change in size and mechanism of toxicity during Alzheimer's disease progression. *Acta Neuropathologica Communications*, **2019**, 7, 120	7.3	35
192	Kinetic fingerprints differentiate the mechanisms of action of anti-A antibodies. *Nature Structural and Molecular Biology*, **2020**, 27, 1125-1133	17.6	35
191	Single molecule secondary structure determination of proteins through infrared absorption nanospectroscopy. *Nature Communications*, **2020**, 11, 2945	17.4	34
190	Nucleation-conversion-polymerization reactions of biological macromolecules with prenucleation clusters. *Physical Review E*, **2014**, 89, 032712	2.4	34
189	C-terminal truncation of synuclein promotes amyloid fibril amplification at physiological pH. *Chemical Science*, **2018**, 9, 5506-5516	9.4	34

188	Stabilization and Characterization of Cytotoxic A□Oligomers Isolated from an Aggregation Reaction in the Presence of Zinc Ions. *ACS Chemical Neuroscience*, **2018**, 9, 2959-2971	5.7	33
187	Role of filament annealing in the kinetics and thermodynamics of nucleated polymerization. *Journal of Chemical Physics*, **2014**, 140, 214904	3.9	33
186	Biomolecular condensates undergo a generic shear-mediated liquid-to-solid transition. *Nature Nanotechnology*, **2020**, 15, 841-847	28.7	33
185	Microfluidics for Protein Biophysics. *Journal of Molecular Biology*, **2018**, 430, 565-580	6.5	32
184	SAR by kinetics for drug discovery in protein misfolding diseases. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10245-10250	11.5	32
183	Identification of Oxidative Stress in Red Blood Cells with Nanoscale Chemical Resolution by Infrared Nanospectroscopy. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	32
182	Oligomer Diversity during the Aggregation of the Repeat Region of Tau. *ACS Chemical Neuroscience* , **2018**, 9, 3060-3071	5.7	32
181	Microfluidic devices fabricated using fast wafer-scale LED-lithography patterning. *Biomicrofluidics*, **2017**, 11, 014113	3.2	31
180	Direct Observation of Oligomerization by Single Molecule Fluorescence Reveals a Multistep Aggregation Mechanism for the Yeast Prion Protein Ure2. *Journal of the American Chemical Society*, **2018**, 140, 2493-2503	16.4	31
179	Elastic instability-mediated actuation by a supra-molecular polymer. *Nature Physics*, **2016**, 12, 926-930	16.2	31
178	Self-Assembly of Amyloid Fibrils That Display Active Enzymes. *ChemCatChem*, **2014**, 6, 1961-1968	5.2	30
177	Quantifying Co-Oligomer Formation by □Synuclein. *ACS Nano*, **2018**, 12, 10855-10866	16.7	30
176	Real-Time Intrinsic Fluorescence Visualization and Sizing of Proteins and Protein Complexes in Microfluidic Devices. *Analytical Chemistry*, **2018**, 90, 3849-3855	7.8	29
175	A Fragment-Based Method of Creating Small-Molecule Libraries to Target the Aggregation of Intrinsically Disordered Proteins. *ACS Combinatorial Science*, **2016**, 18, 144-53	3.9	29
174	Scalable integration of nano-, and microfluidics with hybrid two-photon lithography. *Microsystems and Nanoengineering*, **2019**, 5, 40	7.7	28
173	Quaternization of Vinyl/Alkynyl Pyridine Enables Ultrafast Cysteine-Selective Protein Modification and Charge Modulation. *Angewandte Chemie - International Edition*, **2019**, 58, 6640-6644	16.4	28
172	Small-molecule sequestration of amyloid-□as a drug discovery strategy for Alzheimer's disease. *Science Advances*, **2020**, 6,	14.3	28
171	Transthyretin Inhibits Primary and Secondary Nucleations of Amyloid-□Peptide Aggregation and Reduces the Toxicity of Its Oligomers. *Biomacromolecules*, **2020**, 21, 1112-1125	6.9	28

170	Autocatalytic amplification of Alzheimer-associated Aβ42 peptide aggregation in human cerebrospinal fluid. *Communications Biology*, **2019**, 2, 365	6.7	28
169	On-chip label-free protein analysis with downstream electrodes for direct removal of electrolysis products. *Lab on A Chip*, **2017**, 18, 162-170	7.2	28
168	Molecular Rotors Provide Insights into Microscopic Structural Changes During Protein Aggregation. *Journal of Physical Chemistry B*, **2015**, 119, 10170-9	3.4	27
167	Monomeric and fibrillar α-synuclein exert opposite effects on the catalytic cycle that promotes the proliferation of Aβ42 aggregates. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 8005-8010	11.5	27
166	Rational design of a conformation-specific antibody for the quantification of Aβ oligomers. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 13509-13518	11.5	26
165	Biophotonics of Native Silk Fibrils. *Macromolecular Bioscience*, **2018**, 18, e1700295	5.5	26
164	Relationship between prion propensity and the rates of individual molecular steps of fibril assembly. *Journal of Biological Chemistry*, **2011**, 286, 12101-7	5.4	25
163	Hierarchical Biomolecular Emulsions Using 3-D Microfluidics with Uniform Surface Chemistry. *Biomacromolecules*, **2017**, 18, 3642-3651	6.9	24
162	Thermodynamics of Polypeptide Supramolecular Assembly in the Short-Chain Limit. *Journal of the American Chemical Society*, **2017**, 139, 16134-16142	16.4	24
161	The Influence of Pathogenic Mutations in α-Synuclein on Biophysical and Structural Characteristics of Amyloid Fibrils. *ACS Nano*, **2020**, 14, 5213-5222	16.7	24
160	Fluctuations in the Kinetics of Linear Protein Self-Assembly. *Physical Review Letters*, **2016**, 116, 258103	7.4	24
159	From Protein Building Blocks to Functional Materials. *ACS Nano*, **2021**, 15, 5819-5837	16.7	24
158	Observation of molecular self-assembly events in massively parallel microdroplet arrays. *Lab on A Chip*, **2018**, 18, 3303-3309	7.2	24
157	Fabrication and Characterization of Reconstituted Silk Microgels for the Storage and Release of Small Molecules. *Macromolecular Rapid Communications*, **2019**, 40, e1800898	4.8	23
156	Identification of on- and off-pathway oligomers in amyloid fibril formation. *Chemical Science*, **2020**, 11, 6236-6247	9.4	23
155	Water-Dispersible Polydopamine-Coated Nanofibers for Stimulation of Neuronal Growth and Adhesion. *Advanced Healthcare Materials*, **2018**, 7, e1701485	10.1	23
154	Consistent Treatment of Hydrophobicity in Protein Lattice Models Accounts for Cold Denaturation. *Physical Review Letters*, **2016**, 116, 078101	7.4	23
153	Aggregation-Prone Amyloid-β Cu(II) Species Formed on the Millisecond Timescale under Mildly Acidic Conditions. *ChemBioChem*, **2015**, 16, 1293-7	3.8	23

152	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. *Communications Biology*, **2020**, 3, 435	6.7	23
151	Coating and Stabilization of Liposomes by Clathrin-Inspired DNA Self-Assembly. *ACS Nano*, **2020**, 14, 2316-2323	16.7	22
150	Hamiltonian Dynamics of Protein Filament Formation. *Physical Review Letters*, **2016**, 116, 038101	7.4	22
149	A Microfluidic Platform for Real-Time Detection and Quantification of Protein-Ligand Interactions. *Biophysical Journal*, **2016**, 110, 1957-66	2.9	22
148	Label-Free Analysis of Protein Aggregation and Phase Behavior. *ACS Nano*, **2019**, 13, 13940-13948	16.7	22
147	Digital Sensing and Molecular Computation by an Enzyme-Free DNA Circuit. *ACS Nano*, **2020**, 14, 5763-5771	16.7	22
146	Asymptotic solutions of the Oosawa model for the length distribution of biofilaments. *Journal of Chemical Physics*, **2014**, 140, 194906	3.9	21
145	The role of fibril structure and surface hydrophobicity in secondary nucleation of amyloid fibrils. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 25272-25283	11.5	21
144	Learning the molecular grammar of protein condensates from sequence determinants and embeddings. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	21
143	Synthesis of Nonequilibrium Supramolecular Peptide Polymers on a Microfluidic Platform. *Journal of the American Chemical Society*, **2016**, 138, 9589-96	16.4	21
142	Particle-Based Monte-Carlo Simulations of Steady-State Mass Transport at Intermediate Péclet Numbers. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2016**, 17, 175-183	1.8	20
141	Microfluidic Diffusion Viscometer for Rapid Analysis of Complex Solutions. *Analytical Chemistry*, **2016**, 88, 3488-93	7.8	20
140	Single point mutations induce a switch in the molecular mechanism of the aggregation of the Alzheimer's disease associated Aβ42 peptide. *ACS Chemical Biology*, **2014**, 9, 378-82	4.9	20
139	Direct observation of prion protein oligomer formation reveals an aggregation mechanism with multiple conformationally distinct species. *Chemical Science*, **2019**, 10, 4588-4597	9.4	19
138	Micro- and nanoscale hierarchical structure of core-shell protein microgels. *Journal of Materials Chemistry B*, **2016**, 4, 7989-7999	7.3	19
137	Gradient-free determination of isoelectric points of proteins on chip. *Physical Chemistry Chemical Physics*, **2017**, 19, 23060-23067	3.6	19
136	Kinetic theory of protein filament growth: Self-consistent methods and perturbative techniques. *International Journal of Modern Physics B*, **2015**, 29, 1530002	1.1	19
135	Microfluidic deposition for resolving single-molecule protein architecture and heterogeneity. *Nature Communications*, **2018**, 9, 3890	17.4	19

134	Force generation by the growth of amyloid aggregates. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 9524-9	11.5	18
133	Modulating the Mechanical Performance of Macroscale Fibers through Shear-Induced Alignment and Assembly of Protein Nanofibrils. *Small*, **2020**, 16, e1904190	11	18
132	Direct Observation of Murine Prion Protein Replication in Vitro. *Journal of the American Chemical Society*, **2018**, 140, 14789-14798	16.4	18
131	Microfluidic approaches for the analysis of protein-protein interactions in solution. *Biophysical Reviews*, **2020**, 12, 575-585	3.7	17
130	Biocompatible Hybrid Organic/Inorganic Microhydrogels Promote Bacterial Adherence and Eradication and. *Nano Letters*, **2020**, 20, 1590-1597	11.5	16
129	The catalytic nature of protein aggregation. *Journal of Chemical Physics*, **2020**, 152, 045101	3.9	16
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127	Ultrastructural evidence for self-replication of Alzheimer-associated Aβ42 amyloid along the sides of fibrils. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11265-11273	11.5	16
126	Enhancing the Resolution of Micro Free Flow Electrophoresis through Spatially Controlled Sample Injection. *Analytical Chemistry*, **2018**, 90, 8998-9005	7.8	16
125	Absolute Quantification of Amyloid Propagons by Digital Microfluidics. *Analytical Chemistry*, **2017**, 89, 12306-12313	7.8	15
124	A microfluidic platform for quantitative measurements of effective protein charges and single ion binding in solution. *Physical Chemistry Chemical Physics*, **2015**, 17, 12161-7	3.6	15
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116	Mechanobiology of Protein Droplets: Force Arises from Disorder. *Cell*, **2018**, 175, 1457-1459	56.2	14
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