Alexander J Dear

List of Publications by Citations

27 papers	643 citations	14 h-index	25 g-index
28 ext. papers	865 ext. citations	7.2 avg, IF	4.03 L-index

#	Paper	IF	Citations
27	Dynamics of oligomer populations formed during the aggregation of Alzheimer's Aβ42 peptide. *Nature Chemistry*, **2020**, 12, 445-451	17.6	103
26	Single-molecule FRET studies on alpha-synuclein oligomerization of Parkinson's disease genetically related mutants. *Scientific Reports*, **2015**, 5, 16696	4.9	69
25	Fast flow microfluidics and single-molecule fluorescence for the rapid characterization of αsynuclein oligomers. *Analytical Chemistry*, **2015**, 87, 8818-26	7.8	65
24	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
23	Electrostatically-guided inhibition of Curli amyloid nucleation by the CsgC-like family of chaperones. *Scientific Reports*, **2016**, 6, 24656	4.9	39
22	Quantitative analysis of co-oligomer formation by amyloid-beta peptide isoforms. *Scientific Reports*, **2016**, 6, 28658	4.9	38
21	Oligomer Diversity during the Aggregation of the Repeat Region of Tau. *ACS Chemical Neuroscience* , **2018**, 9, 3060-3071	5.7	32
20	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
19	Quantifying Co-Oligomer Formation by αSynuclein. *ACS Nano*, **2018**, 12, 10855-10866	16.7	30
18	Fluctuations in the Kinetics of Linear Protein Self-Assembly. *Physical Review Letters*, **2016**, 116, 258103	7.4	24
17	Fabrication and Characterization of Reconstituted Silk Microgels for the Storage and Release of Small Molecules. *Macromolecular Rapid Communications*, **2019**, 40, e1800898	4.8	23
16	Identification of on- and off-pathway oligomers in amyloid fibril formation. *Chemical Science*, **2020**, 11, 6236-6247	9.4	23
15	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
14	The catalytic nature of protein aggregation. *Journal of Chemical Physics*, **2020**, 152, 045101	3.9	16
13	Stochastic calculus of protein filament formation under spatial confinement. *New Journal of Physics* , **2018**, 20, 055007	2.9	13
12	Direct measurement of lipid membrane disruption connects kinetics and toxicity of Aβ42 aggregation. *Nature Structural and Molecular Biology*, **2020**, 27, 886-891	17.6	12
11	On the Mechanism of Self-Assembly by a Hydrogel-Forming Peptide. *Biomacromolecules*, **2020**, 21, 4781-4794	6.9	9

List of Publications

10	Statistical Mechanics of Globular Oligomer Formation by Protein Molecules. *Journal of Physical Chemistry B*, **2018**, 122, 11721-11730	3.4	8
9	Amelioration of aggregate cytotoxicity by catalytic conversion of protein oligomers into amyloid fibrils. *Nanoscale*, **2020**, 12, 18663-18672	7.7	7
8	Scaling and dimensionality in the chemical kinetics of protein filament formation. *International Reviews in Physical Chemistry*, **2016**, 35, 679-703	7	7
7	Universality of filamentous aggregation phenomena. *Physical Review E*, **2019**, 99, 062415	2.4	4
6	Dynamics of heteromolecular filament formation. *Journal of Chemical Physics*, **2016**, 145, 175101	3.9	4
5	In situ kinetic measurements of □synuclein aggregation reveal large population of short-lived oligomers. *PLoS ONE*, **2021**, 16, e0245548	3.7	4
4	Effect of disorder on condensation in the lattice gas model on a random graph. *Physical Review E*, **2014**, 90, 012144	2.4	2
3	Amyloid-□peptide 37, 38 and 40 individually and cooperatively inhibit amyloid-□42 aggregation.. *Chemical Science*, **2022**, 13, 2423-2439	9.4	1
2	Kinetic profiling of therapeutic strategies for inhibiting the formation of amyloid oligomers.. *Journal of Chemical Physics*, **2022**, 156, 164904	3.9	0
1	Feedback control of protein aggregation. *Journal of Chemical Physics*, **2021**, 155, 064102	3.9	0