

Alexander J Dear

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.

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	Kinetic profiling of therapeutic strategies for inhibiting the formation of amyloid oligomers.. <i>Journal of Chemical Physics</i> , 2022 , 156, 164904	3.9	0
26	Amyloid- β peptide 37, 38 and 40 individually and cooperatively inhibit amyloid- β 2 aggregation.. <i>Chemical Science</i> , 2022 , 13, 2423-2439	9.4	1
25	Feedback control of protein aggregation. <i>Journal of Chemical Physics</i> , 2021 , 155, 064102	3.9	0
24	In situ kinetic measurements of β synuclein aggregation reveal large population of short-lived oligomers. <i>PLoS ONE</i> , 2021 , 16, e0245548	3.7	4
23	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
22	Identification of on- and off-pathway oligomers in amyloid fibril formation. <i>Chemical Science</i> , 2020 , 11, 6236-6247	9.4	23
21	The catalytic nature of protein aggregation. <i>Journal of Chemical Physics</i> , 2020 , 152, 045101	3.9	16
20	Dynamics of oligomer populations formed during the aggregation of Alzheimers A β 2 peptide. <i>Nature Chemistry</i> , 2020 , 12, 445-451	17.6	103
19	On the Mechanism of Self-Assembly by a Hydrogel-Forming Peptide. <i>Biomacromolecules</i> , 2020 , 21, 4781-4794	4.9	9
18	Direct measurement of lipid membrane disruption connects kinetics and toxicity of A β 2 aggregation. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 886-891	17.6	12
17	Amelioration of aggregate cytotoxicity by catalytic conversion of protein oligomers into amyloid fibrils. <i>Nanoscale</i> , 2020 , 12, 18663-18672	7.7	7
16	Fabrication and Characterization of Reconstituted Silk Microgels for the Storage and Release of Small Molecules. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800898	4.8	23
15	Direct observation of prion protein oligomer formation reveals an aggregation mechanism with multiple conformationally distinct species. <i>Chemical Science</i> , 2019 , 10, 4588-4597	9.4	19
14	Universality of filamentous aggregation phenomena. <i>Physical Review E</i> , 2019 , 99, 062415	2.4	4
13	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
12	Quantifying Co-Oligomer Formation by β Synuclein. <i>ACS Nano</i> , 2018 , 12, 10855-10866	16.7	30
11	Statistical Mechanics of Globular Oligomer Formation by Protein Molecules. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 11721-11730	3.4	8

10	Stochastic calculus of protein filament formation under spatial confinement. <i>New Journal of Physics</i> , 2018 , 20, 055007	2.9	13
9	Oligomer Diversity during the Aggregation of the Repeat Region of Tau. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 3060-3071	5.7	32
8	Fluctuations in the Kinetics of Linear Protein Self-Assembly. <i>Physical Review Letters</i> , 2016 , 116, 258103	7.4	24
7	Quantitative analysis of co-oligomer formation by amyloid-beta peptide isoforms. <i>Scientific Reports</i> , 2016 , 6, 28658	4.9	38
6	Electrostatically-guided inhibition of Curli amyloid nucleation by the CsgC-like family of chaperones. <i>Scientific Reports</i> , 2016 , 6, 24656	4.9	39
5	Dynamics of heteromolecular filament formation. <i>Journal of Chemical Physics</i> , 2016 , 145, 175101	3.9	4
4	Scaling and dimensionality in the chemical kinetics of protein filament formation. <i>International Reviews in Physical Chemistry</i> , 2016 , 35, 679-703	7	7
3	Fast flow microfluidics and single-molecule fluorescence for the rapid characterization of Eynuclein oligomers. <i>Analytical Chemistry</i> , 2015 , 87, 8818-26	7.8	65
2	Single-molecule FRET studies on alpha-synuclein oligomerization of Parkinson's disease genetically related mutants. <i>Scientific Reports</i> , 2015 , 5, 16696	4.9	69
1	Effect of disorder on condensation in the lattice gas model on a random graph. <i>Physical Review E</i> , 2014 , 90, 012144	2.4	2