

Sean Chia

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,411
citations

471509
17
h-index

580821
25
g-index

31
all docs

31
docs citations

31
times ranked

1739
citing authors

#	ARTICLE	IF	CITATIONS
1	An Integrative Glycomic Approach for Quantitative Meat Species Profiling. <i>Foods</i> , 2022, 11, 1952.	4.3	3
2	Expression, purification and characterisation of large quantities of recombinant human IAPP for mechanistic studies. <i>Biophysical Chemistry</i> , 2021, 269, 106511.	2.8	10
3	Infrared nanospectroscopy reveals the molecular interaction fingerprint of an aggregation inhibitor with single A β 42 oligomers. <i>Nature Communications</i> , 2021, 12, 688.	12.8	52
4	Squalamine and Its Derivatives Modulate the Aggregation of Amyloid- β and α -Synuclein and Suppress the Toxicity of Their Oligomers. <i>Frontiers in Neuroscience</i> , 2021, 15, 680026.	2.8	34
5	Two human metabolites rescue a <i>C. elegans</i> model of Alzheimer's disease via a cytosolic unfolded protein response. <i>Communications Biology</i> , 2021, 4, 843.	4.4	6
6	A dopamine metabolite stabilizes neurotoxic amyloid- β oligomers. <i>Communications Biology</i> , 2021, 4, 19.	4.4	25
7	Surface-Catalyzed Secondary Nucleation Dominates the Generation of Toxic IAPP Aggregates. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 757425.	3.5	24
8	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. <i>Communications Biology</i> , 2020, 3, 435.	4.4	44
9	Complexity in Lipid Membrane Composition Induces Resilience to A β 42 Aggregation. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1347-1352.	3.5	22
10	Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid- β Oligomers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4542.	4.1	12
11	Transthyretin Inhibits Primary and Secondary Nucleations of Amyloid- β Peptide Aggregation and Reduces the Toxicity of Its Oligomers. <i>Biomacromolecules</i> , 2020, 21, 1112-1125.	5.4	59
12	Screening of small molecules using the inhibition of oligomer formation in α -synuclein aggregation as a selection parameter. <i>Communications Chemistry</i> , 2020, 3, .	4.5	27
13	Bacterial production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. <i>Science Advances</i> , 2019, 5, eaax5108.	10.3	12
14	Characterizing Individual Protein Aggregates by Infrared Nanospectroscopy and Atomic Force Microscopy. <i>Journal of Visualized Experiments</i> , 2019, . .	0.3	13
15	Chemical and mechanistic analysis of photodynamic inhibition of Alzheimer's β -amyloid aggregation. <i>Chemical Communications</i> , 2019, 55, 1152-1155.	4.1	19
16	Trodusquemine enhances A β 42 aggregation but suppresses its toxicity by displacing oligomers from cell membranes. <i>Nature Communications</i> , 2019, 10, 225.	12.8	111
17	Chemical Kinetics for Bridging Molecular Mechanisms and Macroscopic Measurements of Amyloid Fibril Formation. <i>Annual Review of Physical Chemistry</i> , 2018, 69, 273-298.	10.8	161
18	Microfluidic deposition for resolving single-molecule protein architecture and heterogeneity. <i>Nature Communications</i> , 2018, 9, 3890.	12.8	40

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19	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.	7.1	54
20	Stabilization and Characterization of Cytotoxic A β ₄₀ Oligomers Isolated from an Aggregation Reaction in the Presence of Zinc Ions. ACS Chemical Neuroscience, 2018, 9, 2959-2971.	3.5	42
21	Cholesterol catalyses A β ₄₂ aggregation through a heterogeneous nucleation pathway in the presence of lipid membranes. Nature Chemistry, 2018, 10, 673-683.	13.6	186
22	Systematic development of small molecules to inhibit specific microscopic steps of A β ₄₂ aggregation in Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E200-E208.	7.1	180
23	Monomeric and fibrillar α -synuclein exert opposite effects on the catalytic cycle that promotes the proliferation of A β ₄₂ aggregates. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8005-8010.	7.1	45
24	An anticancer drug suppresses the primary nucleation reaction that initiates the production of the toxic A β ₄₂ aggregates linked with Alzheimer's disease. Science Advances, 2016, 2, e1501244.	10.3	180
25	A Fragment-Based Method of Creating Small-Molecule Libraries to Target the Aggregation of Intrinsically Disordered Proteins. ACS Combinatorial Science, 2016, 18, 144-153.	3.8	35