

Sean Chia

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,411
citations

471061
17
h-index

580395
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. | 1.9 | 3 |
| 2 | Expression, purification and characterisation of large quantities of recombinant human IAPP for mechanistic studies. <i>Biophysical Chemistry</i> , 2021, 269, 106511. | 1.5 | 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. | 5.8 | 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. | 1.4 | 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. | 2.0 | 6 |
| 6 | A dopamine metabolite stabilizes neurotoxic amyloid- β oligomers. <i>Communications Biology</i> , 2021, 4, 19. | 2.0 | 25 |
| 7 | Surface-Catalyzed Secondary Nucleation Dominates the Generation of Toxic IAPP Aggregates. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 757425. | 1.6 | 24 |
| 8 | Trodesquamine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. <i>Communications Biology</i> , 2020, 3, 435. | 2.0 | 44 |
| 9 | Complexity in Lipid Membrane Composition Induces Resilience to A β 42 Aggregation. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1347-1352. | 1.7 | 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. | 1.8 | 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. | 2.6 | 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, . | 2.0 | 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. | 4.7 | 12 |
| 14 | Characterizing Individual Protein Aggregates by Infrared Nanospectroscopy and Atomic Force Microscopy. <i>Journal of Visualized Experiments</i> , 2019, . . | 0.2 | 13 |
| 15 | Chemical and mechanistic analysis of photodynamic inhibition of Alzheimer's β -amyloid aggregation. <i>Chemical Communications</i> , 2019, 55, 1152-1155. | 2.2 | 19 |
| 16 | Trodesquamine enhances A β 42 aggregation but suppresses its toxicity by displacing oligomers from cell membranes. <i>Nature Communications</i> , 2019, 10, 225. | 5.8 | 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. | 4.8 | 161 |
| 18 | Microfluidic deposition for resolving single-molecule protein architecture and heterogeneity. <i>Nature Communications</i> , 2018, 9, 3890. | 5.8 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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. | 3.3 | 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. | 1.7 | 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. | 6.6 | 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. | 3.3 | 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. | 3.3 | 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. | 4.7 | 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 |