

Vijayaraghavan Rangachari

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9138140/publications.pdf>

Version: 2024-02-01

36
papers

1,478
citations

430874

18
h-index

395702

33
g-index

45
all docs

45
docs citations

45
times ranked

2076
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Charge and redox states modulate granulin-3 TDP-43 coacervation toward phase separation or aggregation. <i>Biophysical Journal</i> , 2022, 121, 2107-2126. | 0.5 | 12 |
| 2 | Are granulins copper sequestering proteins?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 450-461. | 2.6 | 6 |
| 3 | Biophysical characteristics of lipid-induced A β oligomers correlate to distinctive phenotypes in transgenic mice. <i>FASEB Journal</i> , 2021, 35, e21318. | 0.5 | 12 |
| 4 | Prion-like C-Terminal Domain of TDP-43 and α -Synuclein Interact Synergistically to Generate Neurotoxic Hybrid Fibrils. <i>Journal of Molecular Biology</i> , 2021, 433, 166953. | 4.2 | 40 |
| 5 | α -S Oligomers Generated from Interactions with a Polyunsaturated Fatty Acid and a Dopamine Metabolite Differentially Interact with A β to Enhance Neurotoxicity. <i>ACS Chemical Neuroscience</i> , 2021, 12, 4153-4161. | 3.5 | 10 |
| 6 | Granulins modulate liquid-liquid phase separation and aggregation of the prion-like C-terminal domain of the neurodegeneration-associated protein TDP-43. <i>Journal of Biological Chemistry</i> , 2020, 295, 2506-2519. | 3.4 | 28 |
| 7 | Effects of Stereochemistry and Hydrogen Bonding on Glycopolymer-Amyloid- β Interactions. <i>Biomacromolecules</i> , 2020, 21, 4280-4293. | 5.4 | 12 |
| 8 | Disorder and cysteines in proteins: A design for orchestration of conformational see-saw and modulatory functions. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 174, 331-373. | 1.7 | 22 |
| 9 | Aqueous RAFT Synthesis of Low Molecular Weight Anionic Polymers for Determination of Structure/Binding Interactions with Gliadin. <i>Macromolecular Bioscience</i> , 2020, 20, 2000125. | 4.1 | 0 |
| 10 | A game-theoretic approach to deciphering the dynamics of amyloid- β aggregation along competing pathways. <i>Royal Society Open Science</i> , 2020, 7, 191814. | 2.4 | 4 |
| 11 | Cloning, expression and purification of the low-complexity region of RanBP9 protein. <i>Protein Expression and Purification</i> , 2020, 172, 105630. | 1.3 | 10 |
| 12 | Global fitting and parameter identifiability for amyloid- β aggregation with competing pathways. , 2020, , . | | 2 |
| 13 | Large fatty acid-derived A β 42 oligomers form ring-like assemblies. <i>Journal of Chemical Physics</i> , 2019, 150, 075101. | 3.0 | 9 |
| 14 | Cysteine-rich granulin-3 rapidly promotes amyloid- β fibrils in both redox states. <i>Biochemical Journal</i> , 2019, 476, 859-873. | 3.7 | 9 |
| 15 | Propagation of an A β Dodecamer Strain Involves a Three-Step Mechanism and a Key Intermediate. <i>Biophysical Journal</i> , 2018, 114, 539-549. | 0.5 | 12 |
| 16 | Cause and consequence of A β - Lipid interactions in Alzheimer disease pathogenesis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1652-1662. | 2.6 | 42 |
| 17 | Strain-specific Fibril Propagation by an A β Dodecamer. <i>Scientific Reports</i> , 2017, 7, 40787. | 3.3 | 41 |
| 18 | Disulfide bonds and disorder in granulin-3: An unusual handshake between structural stability and plasticity. <i>Protein Science</i> , 2017, 26, 1759-1772. | 7.6 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Aqueous RAFT Synthesis of Glycopolymers for Determination of Saccharide Structure and Concentration Effects on Amyloid β Aggregation. <i>Biomacromolecules</i> , 2017, 18, 3359-3366. | 5.4 | 22 |
| 20 | Fatty Acid Concentration and Phase Transitions Modulate $A\beta$ Aggregation Pathways. <i>Scientific Reports</i> , 2017, 7, 10370. | 3.3 | 11 |
| 21 | Fully reduced granulin-B is intrinsically disordered and displays concentration-dependent dynamics. <i>Protein Engineering, Design and Selection</i> , 2016, 29, 177-186. | 2.1 | 15 |
| 22 | Determination of critical nucleation number for a single nucleation amyloid- β aggregation model. <i>Mathematical Biosciences</i> , 2016, 273, 70-79. | 1.9 | 31 |
| 23 | Conformational Dynamics of Specific $A\beta$ Oligomers Govern Their Ability To Replicate and Induce Neuronal Apoptosis. <i>Biochemistry</i> , 2016, 55, 2238-2250. | 2.5 | 26 |
| 24 | Self-Propagative Replication of $A\beta$ Oligomers Suggests Potential Transmissibility in Alzheimer Disease. <i>PLoS ONE</i> , 2014, 9, e111492. | 2.5 | 29 |
| 25 | Dopamine-induced α -synuclein oligomers show self- and cross-propagation properties. <i>Protein Science</i> , 2014, 23, 1369-1379. | 7.6 | 36 |
| 26 | The Natural Product Betulinic Acid Rapidly Promotes Amyloid- β Fibril Formation at the Expense of Soluble Oligomers. <i>ACS Chemical Neuroscience</i> , 2012, 3, 900-908. | 3.5 | 29 |
| 27 | Specific Soluble Oligomers of Amyloid- β Peptide Undergo Replication and Form Non-fibrillar Aggregates in Interfacial Environments. <i>Journal of Biological Chemistry</i> , 2012, 287, 21253-21264. | 3.4 | 41 |
| 28 | Poster: In silico hypotheses of the A β 2;42 peptide aggregation process in Alzheimer's disease. , 2011, , . | | 0 |
| 29 | Non-Esterified Fatty Acids Generate Distinct Low-Molecular Weight Amyloid- β ($A\beta$ 242) Oligomers along Pathway Different from Fibril Formation. <i>PLoS ONE</i> , 2011, 6, e18759. | 2.5 | 37 |
| 30 | Dynamics of protofibril elongation and association involved in $A\beta$ 242 peptide aggregation in Alzheimer's disease. <i>BMC Bioinformatics</i> , 2010, 11, S24. | 2.6 | 38 |
| 31 | Inhibition of $A\beta$ 242 Peptide Aggregation by a Binuclear Ruthenium(II)-Platinum(II) Complex: Potential for Multimetal Organometallics as Anti-amyloid Agents. <i>ACS Chemical Neuroscience</i> , 2010, 1, 691-701. | 3.5 | 54 |
| 32 | Rationally designed dehydroalanine (β -Ala)-containing peptides inhibit amyloid- β ($A\beta$) peptide aggregation. <i>Biopolymers</i> , 2009, 91, 456-465. | 2.4 | 22 |
| 33 | Biophysical Analyses of Synthetic Amyloid- β (1-42) Aggregates before and after Covalent Cross-Linking. Implications for Deducing the Structure of Endogenous Amyloid- β Oligomers. <i>Biochemistry</i> , 2009, 48, 11796-11806. | 2.5 | 44 |
| 34 | Aberrant cleavage of TDP-43 enhances aggregation and cellular toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7607-7612. | 7.1 | 523 |
| 35 | Amyloid- β (1-42) Rapidly Forms Protofibrils and Oligomers by Distinct Pathways in Low Concentrations of Sodium Dodecylsulfate. <i>Biochemistry</i> , 2007, 46, 12451-12462. | 2.5 | 149 |
| 36 | Secondary Structure and Interfacial Aggregation of Amyloid- β (1-40) on Sodium Dodecyl Sulfate Micelles. <i>Biochemistry</i> , 2006, 45, 8639-8648. | 2.5 | 79 |