Vijayaraghavan Rangachari

List of Publications by Year
in descending order

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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	Aberrant cleavage of TDP-43 enhances aggregation and cellular toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7607-7612.	7.1	523
2	Amyloid-Î²(1â¯42) Rapidly Forms Protofibrils and Oligomers by Distinct Pathways in Low Concentrations of Sodium Dodecylsulfate. Biochemistry, 2007, 46, 12451-12462.	2.5	149
3	Secondary Structure and Interfacial Aggregation of Amyloid-Î²(1â¯40) on Sodium Dodecyl Sulfate Micellesâ€. Biochemistry, 2006, 45, 8639-8648.	2.5	79
4	Inhibition of AÎ²42 Peptide Aggregation by a Binuclear Ruthenium(II)â¯Platinum(II) Complex: Potential for Multimetal Organometallics as Anti-amyloid Agents. ACS Chemical Neuroscience, 2010, 1, 691-701.	3.5	54
5	Biophysical Analyses of Synthetic Amyloid-Î²(1â¯42) Aggregates before and after Covalent Cross-Linking. Implications for Deducing the Structure of Endogenous Amyloid-Î² Oligomers. Biochemistry, 2009, 48, 11796-11806.	2.5	44
6	Cause and consequence of AÎ² â€“ Lipid interactions in Alzheimer disease pathogenesis. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1652-1662.	2.6	42
7	Specific Soluble Oligomers of Amyloid-Î² Peptide Undergo Replication and Form Non-fibrillar Aggregates in Interfacial Environments. Journal of Biological Chemistry, 2012, 287, 21253-21264.	3.4	41
8	Strain-specific Fibril Propagation by an AÎ² Dodecamer. Scientific Reports, 2017, 7, 40787.	3.3	41
9	Prion-like C-Terminal Domain of TDP-43 and Î±-Synuclein Interact Synergistically to Generate Neurotoxic Hybrid Fibrils. Journal of Molecular Biology, 2021, 433, 166953.	4.2	40
10	Dynamics of protofibril elongation and association involved in AÎ²42 peptide aggregation in Alzheimerâ€™s disease. BMC Bioinformatics, 2010, 11, S24.	2.6	38
11	Non-Esterified Fatty Acids Generate Distinct Low-Molecular Weight Amyloid-Î² (AÎ²42) Oligomers along Pathway Different from Fibril Formation. PLoS ONE, 2011, 6, e18759.	2.5	37
12	Dopamineâ€induced Î±â€synuclein oligomers show selfâ€and crossâ€propagation properties. Protein Science, 2014, 23, 1369-1379.	7.6	36
13	Determination of critical nucleation number for a single nucleation amyloid-Î² aggregation model. Mathematical Biosciences, 2016, 273, 70-79.	1.9	31
14	The Natural Product Betulinic Acid Rapidly Promotes Amyloid-Î² Fibril Formation at the Expense of Soluble Oligomers. ACS Chemical Neuroscience, 2012, 3, 900-908.	3.5	29
15	Self-Propagative Replication of AÎ² Oligomers Suggests Potential Transmissibility in Alzheimer Disease. PLoS ONE, 2014, 9, e111492.	2.5	29
16	Granulins modulate liquidâ€“liquid phase separation and aggregation of the prion-like C-terminal domain of the neurodegeneration-associated protein TDP-43. Journal of Biological Chemistry, 2020, 295, 2506-2519.	3.4	28
17	Conformational Dynamics of Specific AÎ² Oligomers Govern Their Ability To Replicate and Induce Neuronal Apoptosis. Biochemistry, 2016, 55, 2238-2250.	2.5	26
18	Rationally designed dehydroalanine (Î”Ala)â€containing peptides inhibit amyloidâ€Î² (AÎ²) peptide aggregation. Biopolymers, 2009, 91, 456-465.	2.4	22

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19	Aqueous RAFT Synthesis of Glycopolymers for Determination of Saccharide Structure and Concentration Effects on Amyloid Î² Aggregation. Biomacromolecules, 2017, 18, 3359-3366.	5.4	22
20	Disorder and cysteines in proteins: A design for orchestration of conformational see-saw and modulatory functions. Progress in Molecular Biology and Translational Science, 2020, 174, 331-373.	1.7	22
21	Disulfide bonds and disorder in granulinâ€3: An unusual handshake between structural stability and plasticity. Protein Science, 2017, 26, 1759-1772.	7.6	18
22	Fully reduced granulin-B is intrinsically disordered and displays concentration-dependent dynamics. Protein Engineering, Design and Selection, 2016, 29, 177-186.	2.1	15
23	Propagation of an AÎ² Dodecamer Strain Involves a Three-Step Mechanism and a Key Intermediate. Biophysical Journal, 2018, 114, 539-549.	0.5	12
24	Effects of Stereochemistry and Hydrogen Bonding on Glycopolymerâ€“Amyloid-Î² Interactions. Biomacromolecules, 2020, 21, 4280-4293.	5.4	12
25	Biophysical characteristics of lipidâ€induced AÎ² oligomers correlate to distinctive phenotypes in transgenic mice. FASEB Journal, 2021, 35, e21318.	0.5	12
26	Charge and redox states modulate granulinâ€”TDP-43 coacervation toward phase separation or aggregation. Biophysical Journal, 2022, 121, 2107-2126.	0.5	12
27	Fatty Acid Concentration and Phase Transitions Modulate AÎ² Aggregation Pathways. Scientific Reports, 2017, 7, 10370.	3.3	11
28	Cloning, expression and purification of the low-complexity region of RanBP9 protein. Protein Expression and Purification, 2020, 172, 105630.	1.3	10
29	Î±S Oligomers Generated from Interactions with a Polyunsaturated Fatty Acid and a Dopamine Metabolite Differentially Interact with AÎ² to Enhance Neurotoxicity. ACS Chemical Neuroscience, 2021, 12, 4153-4161.	3.5	10
30	Large fatty acid-derived AÎ²42 oligomers form ring-like assemblies. Journal of Chemical Physics, 2019, 150, 075101.	3.0	9
31	Cysteine-rich granulin-3 rapidly promotes amyloid-Î² fibrils in both redox states. Biochemical Journal, 2019, 476, 859-873.	3.7	9
32	Are granulins copper sequestering proteins?. Proteins: Structure, Function and Bioinformatics, 2021, 89, 450-461.	2.6	6
33	A game-theoretic approach to deciphering the dynamics of amyloid- Î² aggregation along competing pathways. Royal Society Open Science, 2020, 7, 191814.	2.4	4
34	Global fitting and parameter identifiability for amyloid-Î² aggregation with competing pathways. , 2020, , .		2
35	Poster: In silico hypotheses of the Aβ42 peptide aggregation process in Alzheimer's disease. , 2011, , .		0
36	Aqueous RAFT Synthesis of Low Molecular Weight Anionic Polymers for Determination of Structure/Binding Interactions with Gliadin. Macromolecular Bioscience, 2020, 20, 2000125.	4.1	0