

Govardhan Reddy

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,391
citations

361413

20
h-index

361022

35
g-index

51
all docs

51
docs citations

51
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropic Stabilization of Proteins by TMAO. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13401-13407.	2.6	174
2	Dynamics of locking of peptides onto growing amyloid fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11948-11953.	7.1	116
3	Factors Governing Fibrillogenesis of Polypeptide Chains Revealed by Lattice Models. <i>Physical Review Letters</i> , 2010, 105, 218101.	7.8	104
4	Collapse kinetics and chevron plots from simulations of denaturant-dependent folding of globular proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7787-7792.	7.1	85
5	Dry amyloid fibril assembly in a yeast prion peptide is mediated by long-lived structures containing water wires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21459-21464.	7.1	82
6	Denaturant-dependent folding of GFP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17832-17838.	7.1	71
7	Implicit and Explicit Solvent Models for the Simulation of Dilute Polymer Solutions. <i>Macromolecules</i> , 2006, 39, 8536-8542.	4.8	69
8	Propensity to Form Amyloid Fibrils Is Encoded as Excitations in the Free Energy Landscape of Monomeric Proteins. <i>Journal of Molecular Biology</i> , 2014, 426, 2653-2666.	4.2	55
9	Protein folding: from theory to practice. <i>Current Opinion in Structural Biology</i> , 2013, 23, 22-29.	5.7	52
10	Suppression of the Coffee-Ring Effect and Evaporation-Driven Disorder to Order Transition in Colloidal Droplets. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4704-4709.	4.6	47
11	Theory of the Molecular Transfer Model for Proteins with Applications to the Folding of the src-SH3 Domain. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6707-6716.	2.6	46
12	Dissecting Ubiquitin Folding Using the Self-Organized Polymer Model. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11358-11370.	2.6	45
13	Folding of Protein L with Implications for Collapse in the Denatured State Ensemble. <i>Journal of the American Chemical Society</i> , 2016, 138, 2609-2616.	13.7	39
14	Collapse Precedes Folding in Denaturant-Dependent Assembly of Ubiquitin. <i>Journal of Physical Chemistry B</i> , 2017, 121, 995-1009.	2.6	37
15	Solvent effects in polyelectrolyte adsorption: Computer simulations with explicit and implicit solvent. <i>Journal of Chemical Physics</i> , 2010, 132, 074903.	3.0	36
16	Contrasting Effects of Guanidinium Chloride and Urea on the Activity and Unfolding of Lysozyme. <i>ACS Omega</i> , 2018, 3, 14119-14126.	3.5	33
17	Salt Effects on Protein Folding Thermodynamics. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5063-5070.	4.6	33
18	Universal Nature of Collapsibility in the Context of Protein Folding and Evolution. <i>Trends in Biochemical Sciences</i> , 2019, 44, 675-687.	7.5	31

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19	Liquid state theories for the structure of water. <i>Journal of Chemical Physics</i> , 2003, 119, 13012-13016.	3.0	29
20	Adsorption and Dynamics of a Single Polyelectrolyte Chain near a Planar Charged Surface: A Molecular Dynamics Simulations with Explicit Solvent. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 630-636.	5.3	26
21	Folding PDZ2 Domain Using the Molecular Transfer Model. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8090-8101.	2.6	21
22	Thermodynamics and Kinetics of Single-Chain Monellin Folding with Structural Insights into Specific Collapse in the Denatured State Ensemble. <i>Journal of Molecular Biology</i> , 2018, 430, 465-478.	4.2	16
23	Osmolyte Effects on the Growth of Amyloid Fibrils. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10979-10989.	2.6	14
24	Role of Disulfide Bonds and Topological Frustration in the Kinetic Partitioning of Lysozyme Folding Pathways. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3232-3241.	2.6	14
25	Role of Guanidinium-Carboxylate Ion Interaction in Enzyme Inhibition with Implications for Drug Design. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9302-9311.	2.6	13
26	Structural basis for the catalytic mechanism of homoserine dehydrogenase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1216-1225.	2.5	11
27	Toroidal Condensates by Semiflexible Polymer Chains: Insights into Nucleation, Growth and Packing Defects. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9291-9301.	2.6	11
28	Cosolvent Effects on the Growth of Protein Aggregates Formed by a Single Domain Globular Protein and an Intrinsically Disordered Protein. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1950-1960.	2.6	11
29	Mg ²⁺ Sensing by an RNA Fragment: Role of Mg ²⁺ -Coordinated Water Molecules. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6702-6715.	5.3	9
30	Transient intermediates are populated in the folding pathways of single-domain two-state folding protein L. <i>Journal of Chemical Physics</i> , 2018, 148, 165101.	3.0	9
31	Asymmetry in histone rotation in forced unwrapping and force quench rewinding in a nucleosome. <i>Nucleic Acids Research</i> , 2021, 49, 4907-4918.	14.5	8
32	TPP Riboswitch Populates <i>Holo</i> -Form-like Structure Even in the Absence of Cognate Ligand at High Mg ²⁺ Concentration. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2369-2381.	2.6	8
33	The behavior of fluids near solutes: A density functional theory and computer simulation study. <i>Journal of Chemical Physics</i> , 2004, 121, 4203-4209.	3.0	7
34	A Transient Intermediate Populated in Prion Folding Leads to Domain Swapping. <i>Biochemistry</i> , 2020, 59, 114-124.	2.5	7
35	Energy Landscape of Ubiquitin Is Weakly Multidimensional. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8682-8689.	2.6	6
36	Cosolvent effects on the growth of amyloid fibrils. <i>Current Opinion in Structural Biology</i> , 2020, 60, 101-109.	5.7	5

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37	Shared hydrogen bonds: water in aluminated faujasite. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1632-1639.	2.8	4
38	Double Domain Swapping in Human $\hat{1}^3\text{C}$ and $\hat{1}^3\text{D}$ Crystallin Drives Early Stages of Aggregation. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1705-1715.	2.6	3
39	Mutual Diffusivity of an <i>n</i> -Hexane-2,2-Dimethyl Butane Binary Mixture Confined to Zeolite Y. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8618-8627.	2.6	1