Govardhan Reddy

List of Publications by Year
in descending order

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	TPP Riboswitch Populates Holo-Form-like Structure Even in the Absence of Cognate Ligand at High Mg²⁺ Concentration. Journal of Physical Chemistry B, 2022, 126, 2369-2381.	2.6	8
2	Double Domain Swapping in Human Î³C and Î³D Crystallin Drives Early Stages of Aggregation. Journal of Physical Chemistry B, 2021, 125, 1705-1715.	2.6	3
3	Asymmetry in histone rotation in forced unwrapping and force quench rewrapping in a nucleosome. Nucleic Acids Research, 2021, 49, 4907-4918.	14.5	8
4	Energy Landscape of Ubiquitin Is Weakly Multidimensional. Journal of Physical Chemistry B, 2021, 125, 8682-8689.	2.6	6
5	A Transient Intermediate Populated in Prion Folding Leads to Domain Swapping. Biochemistry, 2020, 59, 114-124.	2.5	7
6	Shared hydrogen bonds: water in aluminated faujasite. Physical Chemistry Chemical Physics, 2020, 22, 1632-1639.	2.8	4
7	Mg²⁺ Sensing by an RNA Fragment: Role of Mg²⁺-Coordinated Water Molecules. Journal of Chemical Theory and Computation, 2020, 16, 6702-6715.	5.3	9
8	Cosolvent effects on the growth of amyloid fibrils. Current Opinion in Structural Biology, 2020, 60, 101-109.	5.7	5
9	Mutual Diffusivity of an n-Hexane-2,2-Dimethyl Butane Binary Mixture Confined to Zeolite Y. Journal of Physical Chemistry B, 2020, 124, 8618-8627.	2.6	1
10	Role of Guanidinium-Carboxylate Ion Interaction in Enzyme Inhibition with Implications for Drug Design. Journal of Physical Chemistry B, 2019, 123, 9302-9311.	2.6	13
11	Universal Nature of Collapsibility in the Context of Protein Folding and Evolution. Trends in Biochemical Sciences, 2019, 44, 675-687.	7.5	31
12	Role of Disulfide Bonds and Topological Frustration in the Kinetic Partitioning of Lysozyme Folding Pathways. Journal of Physical Chemistry B, 2019, 123, 3232-3241.	2.6	14
13	Cosolvent Effects on the Growth of Protein Aggregates Formed by a Single Domain Globular Protein and an Intrinsically Disordered Protein. Journal of Physical Chemistry B, 2019, 123, 1950-1960.	2.6	11
14	Thermodynamics and Kinetics of Single-Chain Monellin Folding with Structural Insights into Specific Collapse in the Denatured State Ensemble. Journal of Molecular Biology, 2018, 430, 465-478.	4.2	16
15	Contrasting Effects of Guanidinium Chloride and Urea on the Activity and Unfolding of Lysozyme. ACS Omega, 2018, 3, 14119-14126.	3.5	33
16	Salt Effects on Protein Folding Thermodynamics. Journal of Physical Chemistry Letters, 2018, 9, 5063-5070.	4.6	33
17	Transient intermediates are populated in the folding pathways of single-domain two-state folding protein L. Journal of Chemical Physics, 2018, 148, 165101.	3.0	9
18	Collapse Precedes Folding in Denaturant-Dependent Assembly of Ubiquitin. Journal of Physical Chemistry B, 2017, 121, 995-1009.	2.6	37

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19	Toroidal Condensates by Semiflexible Polymer Chains: Insights into Nucleation, Growth and Packing Defects. Journal of Physical Chemistry B, 2017, 121, 9291-9301.	2.6	11
20	Suppression of the Coffee-Ring Effect and Evaporation-Driven Disorder to Order Transition in Colloidal Droplets. Journal of Physical Chemistry Letters, 2017, 8, 4704-4709.	4.6	47
21	Osmolyte Effects on the Growth of Amyloid Fibrils. Journal of Physical Chemistry B, 2016, 120, 10979-10989.	2.6	14
22	Folding PDZ2 Domain Using the Molecular Transfer Model. Journal of Physical Chemistry B, 2016, 120, 8090-8101.	2.6	21
23	Folding of Protein L with Implications for Collapse in the Denatured State Ensemble. Journal of the American Chemical Society, 2016, 138, 2609-2616.	13.7	39
24	Structural basis for the catalytic mechanism of homoserine dehydrogenase. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1216-1225.	2.5	11
25	Dissecting Ubiquitin Folding Using the Self-Organized Polymer Model. Journal of Physical Chemistry B, 2015, 119, 11358-11370.	2.6	45
26	Propensity to Form Amyloid Fibrils Is Encoded as Excitations in the Free Energy Landscape of Monomeric Proteins. Journal of Molecular Biology, 2014, 426, 2653-2666.	4.2	55
27	Protein folding: from theory to practice. Current Opinion in Structural Biology, 2013, 23, 22-29.	5.7	52
28	Denaturant-dependent folding of GFP. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17832-17838.	7.1	71
29	Theory of the Molecular Transfer Model for Proteins with Applications to the Folding of the src-SH3 Domain. Journal of Physical Chemistry B, 2012, 116, 6707-6716.	2.6	46
30	Entropic Stabilization of Proteins by TMAO. Journal of Physical Chemistry B, 2011, 115, 13401-13407.	2.6	174
31	Collapse kinetics and chevron plots from simulations of denaturant-dependent folding of globular proteins. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7787-7792.	7.1	85
32	Factors Governing Fibrillogenesis of Polypeptide Chains Revealed by Lattice Models. Physical Review Letters, 2010, 105, 218101.	7.8	104
33	Dry amyloid fibril assembly in a yeast prion peptide is mediated by long-lived structures containing water wires. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21459-21464.	7.1	82
34	Solvent effects in polyelectrolyte adsorption: Computer simulations with explicit and implicit solvent. Journal of Chemical Physics, 2010, 132, 074903.	3.0	36
35	Dynamics of locking of peptides onto growing amyloid fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11948-11953.	7.1	116
36	Implicit and Explicit Solvent Models for the Simulation of Dilute Polymer Solutions. Macromolecules, 2006, 39, 8536-8542.	4.8	69

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37	Adsorption and Dynamics of a Single Polyelectrolyte Chain near a Planar Charged Surface:Â Molecular Dynamics Simulations with Explicit Solvent. Journal of Chemical Theory and Computation, 2006, 2, 630-636.	5.3	26
38	The behavior of fluids near solutes: A density functional theory and computer simulation study. Journal of Chemical Physics, 2004, 121, 4203-4209.	3.0	7
39	Liquid state theories for the structure of water. Journal of Chemical Physics, 2003, 119, 13012-13016.	3.0	29