

Susmita Roy

List of Publications by Year in descending order

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papers

939
citations

471509

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h-index

477307

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all docs

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docs citations

34
times ranked

1101
citing authors

#	ARTICLE	IF	CITATIONS
1	A VDAC1-mediated NEET protein chain transfers [2Fe-2S] clusters between the mitochondria and the cytosol and impacts mitochondrial dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	20
2	Intrinsically disordered proteins: Ensembles at the limits of Anfinsen's dogma. Biophysics Reviews, 2022, 3, .	2.7	15
3	Exploring Energy Landscapes of Intrinsically Disordered Proteins: Insights into Functional Mechanisms. Journal of Chemical Theory and Computation, 2021, 17, 3178-3187.	5.3	21
4	Chelated Magnesium Logic Gate Regulates Riboswitch Pseudoknot Formation. Journal of Physical Chemistry B, 2021, 125, 6479-6490.	2.6	9
5	Immune phase transition under steroid treatment. Physical Review E, 2021, 103, 062401.	2.1	1
6	Correlation in Domain Fluctuations Navigates Target Search of a Viral Peptide along RNA. Journal of Physical Chemistry B, 2021, 125, 12678-12689.	2.6	2
7	Dynamic Asymmetry Exposes 2019-nCoV Prefusion Spike. Journal of Physical Chemistry Letters, 2020, 11, 7021-7027.	4.6	39
8	Fluctuation theory of immune response: A statistical mechanical approach to understand pathogen induced T-cell population dynamics. Journal of Chemical Physics, 2020, 153, 045107.	3.0	8
9	Structural and Dynamical Order of a Disordered Protein: Molecular Insights into Conformational Switching of PAGE4 at the Systems Level. Biomolecules, 2019, 9, 77.	4.0	19
10	Redox-dependent gating of VDAC by mitoNEET. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19924-19929.	7.1	85
11	Magnesium controls aptamer-expression platform switching in the SAM-I riboswitch. Nucleic Acids Research, 2019, 47, 3158-3170.	14.5	26
12	PAGE4 and Conformational Switching: Insights from Molecular Dynamics Simulations and Implications for Prostate Cancer. Journal of Molecular Biology, 2018, 430, 2422-2438.	4.2	36
13	Cooperation between Magnesium and Metabolite Controls Collapse of the SAM-I Riboswitch. Biophysical Journal, 2017, 113, 348-359.	0.5	20
14	A magnesium-induced triplex pre-organizes the SAM-II riboswitch. PLoS Computational Biology, 2017, 13, e1005406.	3.2	24
15	Mode coupling theory analysis of electrolyte solutions: Time dependent diffusion, intermediate scattering function, and ion solvation dynamics. Journal of Chemical Physics, 2015, 142, 124502.	3.0	9
16	Composition dependent non-ideality in aqueous binary mixtures as a signature of avoided spinodal decomposition. Journal of Chemical Sciences, 2015, 127, 49-59.	1.5	12
17	Sensitivity of polarization fluctuations to the nature of protein-water interactions: Study of biological water in four different protein-water systems. Journal of Chemical Physics, 2014, 141, 22D531.	3.0	23
18	Hydrophobic hydration driven self-assembly of curcumin in water: Similarities to nucleation and growth under large metastability, and an analysis of water dynamics at heterogeneous surfaces. Journal of Chemical Physics, 2014, 141, 18C501.	3.0	40

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19	Multidimensional free energy surface of unfolding of HP-36: Microscopic origin of ruggedness. <i>Journal of Chemical Physics</i> , 2014, 141, 135101.	3.0	13
20	Sensitivity of Water Dynamics to Biologically Significant Surfaces of Monomeric Insulin: Role of Topology and Electrostatic Interactions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3805-3813.	2.6	30
21	Comparative Study of Protein Unfolding in Aqueous Urea and Dimethyl Sulfoxide Solutions: Surface Polarity, Solvent Specificity, and Sequence of Secondary Structure Melting. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5691-5697.	2.6	42
22	A Stochastic Chemical Dynamic Approach to Correlate Autoimmunity and Optimal Vitamin-D Range. <i>PLoS ONE</i> , 2014, 9, e100635.	2.5	17
23	Solvation dynamics of tryptophan in water-dimethyl sulfoxide binary mixture: In search of molecular origin of composition dependent multiple anomalies. <i>Journal of Chemical Physics</i> , 2013, 139, 034308.	3.0	47
24	Chemical Unfolding of Chicken Villin Headpiece in Aqueous Dimethyl Sulfoxide Solution: Cosolvent Concentration Dependence, Pathway, and Microscopic Mechanism. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4488-4502.	2.6	24
25	Solvent Sensitivity of Protein Unfolding: Dynamical Study of Chicken Villin Headpiece Subdomain in Water-Ethanol Binary Mixture. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15625-15638.	2.6	48
26	Free Energy Barriers for Escape of Water Molecules from Protein Hydration Layer. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2958-2968.	2.6	40
27	Dimethyl sulfoxide induced structural transformations and non-monotonic concentration dependence of conformational fluctuation around active site of lysozyme. <i>Journal of Chemical Physics</i> , 2012, 136, 115103.	3.0	67
28	Theoretical and Computational Analysis of Static and Dynamic Anomalies in Water-DMSO Binary Mixture at Low DMSO Concentrations. <i>Journal of Physical Chemistry B</i> , 2011, 115, 685-692.	2.6	99
29	Enhanced Pair Hydrophobicity in the Water-Dimethylsulfoxide (DMSO) Binary Mixture at Low DMSO Concentrations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12875-12882.	2.6	94
30	Miniature β^2 -Hairpin Mimetic by Intramolecular Hydrogen Bond and $\text{C}=\text{H}\cdots\text{O}=\text{C}$ Interactions. <i>ACS Omega</i> , 0, , .	3.5	2