Arnab Bhattacherjee

List of Publications by Year
in descending order

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27 papers	480 citations	858243 12 h-index	843174 20 g-index
32 all docs	32 docs citations	32 times ranked	667 citing authors

#	Article	IF	Citations
1	Superstructure Detection in Nucleosome Distribution Shows Common Pattern within a Chromosome and within the Genome. Life, 2022, 12, 541.	1.1	3
2	Kinetic origin of nucleosome invasion by pioneer transcription factors. Biophysical Journal, 2021, 120, 5219-5230.	0.2	10
3	Structural Basis of Enhanced Facilitated Diffusion of DNA-Binding Protein in Crowded Cellular Milieu. Biophysical Journal, 2020, 118, 505-517.	0.2	12
4	Mechanism of Dynamic Binding of Replication Protein A to ssDNA. Journal of Chemical Information and Modeling, 2020, 60, 5057-5069.	2.5	8
5	BCG vaccination policy and preventive chloroquine usage: do they have an impact on COVID-19 pandemic?. Cell Death and Disease, 2020, 11, 516.	2.7	49
6	Molecular dynamics simulations and biochemical characterization of Pf14-3-3 and PfCDPK1 interaction towards its role in growth of human malaria parasite. Biochemical Journal, 2020, 477, 2153-2177.	1.7	11
7	Disparity in anomalous diffusion of proteins searching for their target DNA sites in a crowded medium is controlled by the size, shape and mobility of macromolecular crowders. Soft Matter, 2019, 15, 1960-1969.	1.2	20
8	Mechanism of Facilitated Diffusion of DNA Repair Proteins in Crowded Environment: Case Study with Human Uracil DNA Glycosylase. Journal of Physical Chemistry B, 2019, 123, 10354-10364.	1.2	16
9	Role of Macromolecular Crowding on the Intracellular Diffusion of DNA Binding Proteins. Scientific Reports, 2018, 8, 844.	1.6	36
10	Understanding the Role of DNA Topology in Target Search Dynamics of Proteins. Journal of Physical Chemistry B, 2017, 121, 9372-9381.	1.2	14
11	Coarseâ€grained models for studying protein diffusion along <scp>DNA</scp>. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2016, 6, 515-531.	6.2	25
12	Inside Cover Image, Volume 6, Issue 5. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2016, 6, ii-ii.	6.2	0
13	Thermodynamic Protein Destabilization by GFP Tagging: A Case of Interdomain Allostery. Biophysical Journal, 2015, 109, 1157-1162.	0.2	27
14	Searching target sites on DNA by proteins: Role of DNA dynamics under confinement. Nucleic Acids Research, 2015, 43, 9176-9186.	6.5	37
15	Search by proteins for their DNA target site: 2. The effect of DNA conformation on the dynamics of multidomain proteins. Nucleic Acids Research, 2014, 42, 12415-12424.	6.5	31
16	Search by proteins for their DNA target site: 1. The effect of DNA conformation on protein sliding. Nucleic Acids Research, 2014, 42, 12404-12414.	6.5	47
17	Conformational and aggregation properties of the 1â€“93 fragment of apolipoprotein Aâ€. Protein Science, 2014, 23, 1559-1571.	3.1	16
18	Hybrid Monte Carlo with non-uniform step size. Journal of Chemical Physics, 2014, 140, 044105.	1.2	3

#	Article	IF	Citations
19	Exploring Protein-Peptide Binding Specificity through Computational Peptide Screening. PLoS Computational Biology, 2013, 9, e1003277.	1.5	34
20	Role of conformational heterogeneity on protein misfolding. Soft Matter, 2012, 8, 4432.	1.2	12
21	Coupled Folding-Binding in a Hydrophobic/Polar Protein Model: Impact ofÂSynergistic Folding and Disordered Flanks. Biophysical Journal, 2012, 102, 569-578.	0.2	37
22	Role of foldability and stability in designing real protein sequences. Physical Chemistry Chemical Physics, 2011, 13, 9223.	1.3	0
23	Designing Misfolded Proteins by Energy Landscaping. Journal of Physical Chemistry B, 2011, 115, 113-119.	1.2	8
24	Neutrality and evolvability of designed protein sequences. Physical Review E, 2010, 82, 011906.	0.8	3
25	Combinatorial design of protein sequences with applications to lattice and real proteins. Journal of Chemical Physics, 2009, 131, 125101.	1.2	5
26	Statistical theory of neutral protein evolution by random site mutations. Journal of Chemical Sciences, 2009, 121, 887-896.	0.7	0
27	Statistical Theory of Protein Sequence Design by Random Mutation. Journal of Physical Chemistry B, 2009, 113, 5520-5527.	1.2	12