

Karunesh Arora

List of Publications by Year in descending order

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31
papers

982
citations

471509

17
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

1132
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale allosteric conformational transitions of adenylate kinase appear to involve a population-shift mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18496-18501.	7.1	240
2	Critical Role of Magnesium Ions in DNA Polymerase β 's Closing and Active Site Assembly. <i>Journal of the American Chemical Society</i> , 2004, 126, 8441-8453.	13.7	127
3	Regulation of DNA Repair Fidelity by Molecular Checkpoints: β 's Substrate Selection. <i>Biochemistry</i> , 2006, 45, 15142-15156.	2.5	66
4	Mismatch-Induced Conformational Distortions in Polymerase β Support an Induced-Fit Mechanism for Fidelity. <i>Biochemistry</i> , 2005, 44, 13328-13341.	2.5	57
5	Functionally Important Conformations of the Met20 Loop in Dihydrofolate Reductase are Populated by Rapid Thermal Fluctuations. <i>Journal of the American Chemical Society</i> , 2009, 131, 5642-5647.	13.7	56
6	In Silico Evidence for DNA Polymerase β 's Substrate-Induced Conformational Change. <i>Biophysical Journal</i> , 2004, 87, 3088-3099.	0.5	52
7	Harmonic Fourier beads method for studying rare events on rugged energy surfaces. <i>Journal of Chemical Physics</i> , 2006, 125, 174108.	3.0	42
8	Perspective: pre-chemistry conformational changes in DNA polymerase mechanisms. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1287.	1.4	34
9	Deoxyadenosine sugar puckering pathway simulated by the stochastic difference equation algorithm. <i>Chemical Physics Letters</i> , 2003, 378, 1-8.	2.6	33
10	In Silico Studies of the African Swine Fever Virus DNA Polymerase X Support an Induced-Fit Mechanism. <i>Biophysical Journal</i> , 2006, 90, 42-56.	0.5	32
11	Conformational Transition Pathway of Polymerase β /DNA upon Binding Correct Incoming Substrate. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5358-5367.	2.6	31
12	Modulation of frustration in folding by sequence permutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10562-10567.	7.1	24
13	Multiple Intermediates, Diverse Conformations, and Cooperative Conformational Changes Underlie the Catalytic Hydride Transfer Reaction of Dihydrofolate Reductase. <i>Topics in Current Chemistry</i> , 2013, 337, 165-187.	4.0	21
14	pH-Induced Stability Switching of the Bacteriophage HK97 Maturation Pathway. <i>Journal of the American Chemical Society</i> , 2014, 136, 3097-3107.	13.7	21
15	Mismatched Base-Pair Simulations for ASFV Pol X/DNA Complexes Help Interpret Frequent G \rightarrow C Misincorporation. <i>Journal of Molecular Biology</i> , 2008, 384, 1086-1097.	4.2	20
16	Subtle but variable conformational rearrangements in the replication cycle of <i>Sulfolobus solfataricus</i> P2 DNA polymerase IV (Dpo4) may accommodate lesion bypass. <i>Protein Science</i> , 2006, 15, 135-151.	7.6	19
17	Frustration and folding of a TIM barrel protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16378-16383.	7.1	18
18	Sequential Side-Chain Residue Motions Transform the Binary into the Ternary State of DNA Polymerase β . <i>Biophysical Journal</i> , 2006, 91, 3182-3195.	0.5	17

#	ARTICLE	IF	CITATIONS
19	Regulation of calreticulinâ€“major histocompatibility complex (MHC) class I interactions by ATP. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5608-17.	7.1	16
20	Hexameric Helicase Deconstructed: Interplay of Conformational Changes and Substrate Coupling. Biophysical Journal, 2010, 98, 1449-1457.	0.5	15
21	Deconstructing Activation Events in Rhodopsin. Journal of the American Chemical Society, 2013, 135, 10906-10909.	13.7	15
22	How DNA Polymerase X Preferentially Accommodates Incoming dATP Opposite 8-Oxoguanine on the Template. Biophysical Journal, 2013, 105, 2559-2568.	0.5	9
23	Extracting Kinetic and Stationary Distribution Information from Short MD Trajectories via a Collection of Surrogate Diffusion Models. Journal of Chemical Theory and Computation, 2009, 5, 47-58.	5.3	8
24	PREFERENTIAL POLYMERIZATION OF 5-(AMINOMETHYL)-2-FURANCARBOXYLIC ACID (AMFC) INTO A CYCLIC TRIPEPTIDE. Journal of Theoretical and Computational Chemistry, 2004, 03, 555-566.	1.8	4
25	Exploring the Functional Landscape of Biomolecular Machines via Elastic Network Normal Mode Analysis. , 0, , 59-77.		3
26	Intrinsic Motions of DNA Polymerases Underlie Their Remarkable Specificity and Selectivity and Suggest a Hybrid Substrate Binding Mechanism. RSC Biomolecular Sciences, 2012, , 81-110.	0.4	2
27	Studies of African Swine Fever Virus Polymerase X/DNA complexes in the presence of mismatched base pairs. FASEB Journal, 2008, 22, 990.2.	0.5	0
28	Structural insights into DNA polymerase X from African swine fever virus in the presence of oxoG lesions. FASEB Journal, 2010, 24, 876.15.	0.5	0
29	Multiscale Modeling of Virus Structure, Assembly, and Dynamics. Biological and Medical Physics Series, 2012, , 167-189.	0.4	0
30	Molecular dynamics studies of polymerase X/DNA complexes in the presence of OxoG on the templating strand. FASEB Journal, 2012, 26, 539.8.	0.5	0
31	Models of conformational selection of DNA polymerase X in the presence of oxoG lesions help interpret kinetics data. FASEB Journal, 2013, 27, 758.11.	0.5	0