

Jin Yu

List of Publications by Year in descending order

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47
papers

1,308
citations

471509

17
h-index

361022

35
g-index

53
all docs

53
docs citations

53
times ranked

1449
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence-Force Spectroscopy Maps Two-Dimensional Reaction Landscape of the Holliday Junction. <i>Science</i> , 2007, 318, 279-283.	12.6	270
2	PcrA Helicase Dismantles RecA Filaments by Reeling in DNA in Uniform Steps. <i>Cell</i> , 2010, 142, 544-555.	28.9	156
3	Mechanism of Gating and Ion Conductivity of a Possible Tetrameric Pore in Aquaporin-1. <i>Structure</i> , 2006, 14, 1411-1423.	3.3	149
4	Double-Stranded DNA Dissociates into Single Strands When Dragged into a Poor Solvent. <i>Journal of the American Chemical Society</i> , 2007, 129, 14710-14716.	13.7	78
5	Mechanochemistry of a Viral DNA Packaging Motor. <i>Journal of Molecular Biology</i> , 2010, 400, 186-203.	4.2	78
6	Structure-Based Model of the Stepping Motor of PcrA Helicase. <i>Biophysical Journal</i> , 2006, 91, 2097-2114.	0.5	50
7	Structural mechanism for guanylate-binding proteins (GBPs) targeting by the Shigella E3 ligase IpaH9.8. <i>PLoS Pathogens</i> , 2019, 15, e1007876.	4.7	39
8	Conformational model of the Holliday junction transition deduced from molecular dynamics simulations. <i>Nucleic Acids Research</i> , 2004, 32, 6683-6695.	14.5	31
9	A Jump-from-Cavity Pyrophosphate Ion Release Assisted by a Key Lysine Residue in T7 RNA Polymerase Transcription Elongation. <i>PLoS Computational Biology</i> , 2015, 11, e1004624.	3.2	31
10	Base-flipping dynamics from an intrahelical to an extrahelical state exerted by thymine DNA glycosylase during DNA repair process. <i>Nucleic Acids Research</i> , 2018, 46, 5410-5425.	14.5	31
11	How Directional Translocation is Regulated in a DNA Helicase Motor. <i>Biophysical Journal</i> , 2007, 93, 3783-3797.	0.5	30
12	A Small Post-Translocation Energy Bias Aids Nucleotide Selection in T7 RNA Polymerase Transcription. <i>Biophysical Journal</i> , 2012, 102, 532-541.	0.5	30
13	Protein denaturation at a single-molecule level: the effect of nonpolar environments and its implications on the unfolding mechanism by proteases. <i>Nanoscale</i> , 2015, 7, 2970-2977.	5.6	27
14	T7 RNA polymerase translocation is facilitated by a helix opening on the fingers domain that may also prevent backtracking. <i>Nucleic Acids Research</i> , 2017, 45, 7909-7921.	14.5	25
15	Molecular mechanisms of RNA polymerase II transcription elongation elucidated by kinetic network models. <i>Current Opinion in Structural Biology</i> , 2018, 49, 54-62.	5.7	23
16	A Critical Residue Selectively Recruits Nucleotides for T7 RNA Polymerase Transcription Fidelity Control. <i>Biophysical Journal</i> , 2014, 107, 2130-2140.	0.5	22
17	Dynamics of the excised base release in thymine DNA glycosylase during DNA repair process. <i>Nucleic Acids Research</i> , 2018, 46, 568-581.	14.5	21
18	Revealing atomic-scale molecular diffusion of a plant-transcription factor WRKY domain protein along DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21

#	ARTICLE	IF	CITATIONS
19	Constructing kinetic models to elucidate structural dynamics of a complete RNA polymerase II elongation cycle. <i>Physical Biology</i> , 2015, 12, 016004.	1.8	14
20	Novel Mechanism for Cyclic Dinucleotide Degradation Revealed by Structural Studies of <i>Vibrio</i> Phosphodiesterase V-cGAP3. <i>Journal of Molecular Biology</i> , 2018, 430, 5080-5093.	4.2	13
21	A Viral T7 RNA Polymerase Ratcheting Along DNA With Fidelity Control. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 638-644.	4.1	13
22	Determining selection free energetics from nucleotide pre-insertion to insertion in viral T7 RNA polymerase transcription fidelity control. <i>Nucleic Acids Research</i> , 2019, 47, 4721-4735.	14.5	12
23	Coupling Translocation with Nucleic Acid Unwinding by NS3 Helicase. <i>Journal of Molecular Biology</i> , 2010, 404, 439-455.	4.2	11
24	Nucleotide Selectivity at a Preinsertion Checkpoint of T7 RNA Polymerase Transcription Elongation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3777-3786.	2.6	11
25	Dissecting nucleotide selectivity in viral RNA polymerases. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3339-3348.	4.1	11
26	Probing remdesivir nucleotide analogue insertion to SARS-CoV-2 RNA dependent RNA polymerase in viral replication. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 888-902.	3.4	11
27	An Interpretable Convolutional Neural Network Framework for Analyzing Molecular Dynamics Trajectories: a Case Study on Functional States for G-Protein-Coupled Receptors. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 1399-1410.	5.4	11
28	Classical characters of highly excited bend dynamics of acetylene in two coupled SU(2) coset spaces. <i>Journal of Chemical Physics</i> , 2000, 113, 647-652.	3.0	9
29	Balancing Non-Equilibrium Driving with Nucleotide Selectivity at Kinetic Checkpoints in Polymerase Fidelity Control. <i>Entropy</i> , 2018, 20, 306.	2.2	9
30	PcrA Helicase, a Molecular Motor Studied from the Electronic to the Functional Level. , 2006, , 319-347.		8
31	How does supercoiling regulation on a battery of RNA polymerases impact on bacterial transcription bursting?. <i>Physical Biology</i> , 2018, 15, 066007.	1.8	8
32	Inchworm stepping of Myc-Max heterodimer protein diffusion along DNA. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 97-103.	2.1	8
33	Efficient fidelity control by stepwise nucleotide selection in polymerase elongation Abstract: Polymerases select nucleotides. <i>Computational and Mathematical Biophysics</i> , 2014, 2, 141-160.	1.1	8
34	Deciphering Intrinsic Inter-subunit Couplings that Lead to Sequential Hydrolysis of F ₁ -ATPase Ring. <i>Biophysical Journal</i> , 2017, 113, 1440-1453.	0.5	7
35	Multifractal analysis for the eigencoefficients of the eigenstates of highly excited vibration. <i>Chemical Physics Letters</i> , 1999, 301, 217-222.	2.6	5
36	Imaging Metastable States and Transitions in Proteins by Trajectory Map. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4678-4686.	2.6	5

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37	The Lyapunov analysis of the highly excited bend motion of acetylene. <i>Chemical Physics Letters</i> , 2001, 343, 375-382.	2.6	4
38	Coordination and Control Inside Simple Biomolecular Machines. <i>Advances in Experimental Medicine and Biology</i> , 2014, 805, 353-384.	1.6	4
39	Computational investigations on polymerase actions in gene transcription and replication: Combining physical modeling and atomistic simulations. <i>Chinese Physics B</i> , 2016, 25, 018706.	1.4	3
40	Two-phase dynamics of DNA supercoiling based on DNA polymer physics. <i>Biophysical Journal</i> , 2022, , .	0.5	3
41	Computational investigations on target-site searching and recognition mechanisms by thymine DNA glycosylase during DNA repair process. <i>Acta Biochimica Et Biophysica Sinica</i> , 2022, 54, 796-806.	2.0	3
42	Inspecting fluctuation and coordination around chromophore inside green fluorescent protein from water to nonpolar solvent. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 531-540.	2.6	2
43	RQC helical hairpin in Bloom's syndrome helicase regulates DNA unwinding by dynamically intercepting nascent nucleotides. <i>IScience</i> , 2022, 25, 103606.	4.1	2
44	Allosteric regulation in CRISPR/Cas1-Cas2 protospacer acquisition mediated by DNA and Cas2. <i>Biophysical Journal</i> , 2021, 120, 3126-3137.	0.5	1
45	Computational Modeling to Elucidate Molecular Mechanisms of Epigenetic Memory. , 2015, , 245-264.		0
46	Switching promotor recognition of phage RNA polymerase in silico along lab-directed evolution path. <i>Biophysical Journal</i> , 2022, 121, 582-595.	0.5	0
47	Structure-Based Simulation and Sampling of Transcription Factor Protein Movements along DNA from Atomic-Scale Stepping to Coarse-Grained Diffusion. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	0