

Lin-Tai Da

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,198
citations

567281

15
h-index

377865

34
g-index

42
all docs

42
docs citations

42
times ranked

1548
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring and Inhibition of Insulin Fibrillation by a Small Organic Fluorogen with Aggregation-Induced Emission Characteristics. <i>Journal of the American Chemical Society</i> , 2012, 134, 1680-1689.	13.7	351
2	Millisecond dynamics of RNA polymerase II translocation at atomic resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7665-7670.	7.1	127
3	Dynamics of Pyrophosphate Ion Release and Its Coupled Trigger Loop Motion from Closed to Open State in RNA Polymerase II. <i>Journal of the American Chemical Society</i> , 2012, 134, 2399-2406.	13.7	118
4	Bridge helix bending promotes RNA polymerase II backtracking through a critical and conserved threonine residue. <i>Nature Communications</i> , 2016, 7, 11244.	12.8	77
5	Understanding the molecular mechanism of umami recognition by T1R1-T1R3 using molecular dynamics simulations. <i>Biochemical and Biophysical Research Communications</i> , 2019, 514, 967-973.	2.1	54
6	A Two-State Model for the Dynamics of the Pyrophosphate Ion Release in Bacterial RNA Polymerase. <i>PLoS Computational Biology</i> , 2013, 9, e1003020.	3.2	46
7	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
8	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
9	Molecular basis of transcriptional fidelity and DNA lesion-induced transcriptional mutagenesis. <i>DNA Repair</i> , 2014, 19, 71-83.	2.8	28
10	Application of Markov State Models to Simulate Long Timescale Dynamics of Biological Macromolecules. <i>Advances in Experimental Medicine and Biology</i> , 2014, 805, 29-66.	1.6	28
11	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
12	Ikarugamycin inhibits pancreatic cancer cell glycolysis by targeting hexokinase 2. <i>FASEB Journal</i> , 2020, 34, 3943-3955.	0.5	25
13	A Critical Residue Selectively Recruits Nucleotides for T7 RNA Polymerase Transcription Fidelity Control. <i>Biophysical Journal</i> , 2014, 107, 2130-2140.	0.5	22
14	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
15	DeepAntigen: a novel method for neoantigen prioritization via 3D genome and deep sparse learning. <i>Bioinformatics</i> , 2020, 36, 4894-4901.	4.1	17
16	Understanding of the Bridging Sheet Formation of HIV-1 Glycoprotein gp120. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14536-14543.	2.6	16
17	Inhibition of polypeptide N-acetyl- β -galactosaminyltransferases is an underlying mechanism of dietary polyphenols preventing colorectal tumorigenesis. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 3372-3382.	3.0	15
18	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

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19	pH-Induced Misfolding Mechanism of Prion Protein: Insights from Microsecond-Accelerated Molecular Dynamics Simulations. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2718-2729.	3.5	13
20	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
21	Atomic resolution of short-range sliding dynamics of thymine DNA glycosylase along DNA minor-groove for lesion recognition. <i>Nucleic Acids Research</i> , 2021, 49, 1278-1293.	14.5	13
22	Understanding the binding mode and function of BMS-488043 against HIV-1 viral entry. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1810-1819.	2.6	12
23	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
24	Theoretical Studies on the Interactions and Interferences of HIV-1 Glycoprotein gp120 and Its Coreceptor CCR5. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 359-369.	5.4	11
25	Mechanism of REST/NRSF regulation of clustered protocadherin $\hat{\pm}$ genes. <i>Nucleic Acids Research</i> , 2021, 49, 4506-4521.	14.5	11
26	Characterization and Nonenzymatic Transformation of Three Types of Alkaloids from <i>Streptomyces albobriseolus</i> MGR072 and Discovery of Inhibitors of Indoleamine 2,3-Dioxygenase. <i>Organic Letters</i> , 2019, 21, 8577-8581.	4.6	10
27	Antigenic Peptide Loading into Major Histocompatibility Complex Class I Is Driven by the Substrate N-Terminus. <i>CCS Chemistry</i> , 2022, 4, 910-925.	7.8	7
28	DNA Deformation Exerted by Regulatory DNA-Binding Motifs in Human Alkyladenine DNA Glycosylase Promotes Base Flipping. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 3213-3226.	5.4	7
29	Refolding Dynamics of gp41 from Pre-fusion to Pre-hairpin States during HIV-1 Entry. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 162-174.	5.4	6
30	Dynamics of peptide loading into major histocompatibility complex class I molecules chaperoned by TAPBPR. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12397-12409.	2.8	6
31	Rational engineering of amide synthetase enables bioconversion to diverse xiamenmycin derivatives. <i>Chemical Communications</i> , 2019, 55, 14840-14843.	4.1	5
32	Opening dynamics of HIV-1 gp120 upon receptor binding is dictated by a key hydrophobic core. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26003-26016.	2.8	5
33	Early aggregation mechanism of $\hat{A}^{216\sim 22}$ revealed by Markov state models. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 606-616.	7.5	5
34	THEORETICAL INVESTIGATIONS ON ELUCIDATING FUNDAMENTAL MECHANISMS OF CATALYSIS AND DYNAMICS INVOLVED IN TRANSCRIPTION BY RNA POLYMERASE. <i>Journal of Theoretical and Computational Chemistry</i> , 2013, 12, 1341005.	1.8	4
35	Regulatory Role of One Critical Catalytic Loop of Polypeptide <i>N</i> -Acetyl-Galactosaminyltransferase-2 in Substrate Binding and Catalysis during Mucin-Type O-Glycosylation. <i>ACS Catalysis</i> , 2019, 9, 10536-10550.	11.2	3
36	Key structural motifs in Thymine DNA glycosylase responsible for recognizing certain DNA bent conformation revealed by atomic simulations. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 953-959.	2.1	3

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37	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
38	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
39	Allosteric regulation in CRISPR/Cas1-Cas2 protospacer acquisition mediated by DNA and Cas2. <i>Biophysical Journal</i> , 2021, 120, 3126-3137.	0.5	1
40	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