

Yi Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,769
citations

394421

19
h-index

302126

39
g-index

58
all docs

58
docs citations

58
times ranked

1699
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated and fast building of three-dimensional RNA structures. <i>Scientific Reports</i> , 2012, 2, 734.	3.3	176
2	<i>RNA-Puzzles</i> Round II: assessment of RNA structure prediction programs applied to three large RNA structures. <i>Rna</i> , 2015, 21, 1066-1084.	3.5	161
3	<i>RNA-Puzzles</i> Round III: 3D RNA structure prediction of five riboswitches and one ribozyme. <i>Rna</i> , 2017, 23, 655-672.	3.5	158
4	Molecular Mechanism of Evolution and Human Infection with SARS-CoV-2. <i>Viruses</i> , 2020, 12, 428.	3.3	140
5	Optimization of RNA 3D structure prediction using evolutionary restraints of nucleotide-nucleotide interactions from direct coupling analysis. <i>Nucleic Acids Research</i> , 2017, 45, 6299-6309.	14.5	103
6	<i>RNA-Puzzles</i> Round IV: 3D structure predictions of four ribozymes and two aptamers. <i>Rna</i> , 2020, 26, 982-995.	3.5	100
7	3dRNA v2.0: An Updated Web Server for RNA 3D Structure Prediction. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4116.	4.1	92
8	Analytical Method for Yrast Line States in Interacting Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2001, 86, 2200-2203.	7.8	91
9	3dRNAscore: a distance and torsion angle dependent evaluation function of 3D RNA structures. <i>Nucleic Acids Research</i> , 2015, 43, e63-e63.	14.5	82
10	A novel protocol for three-dimensional structure prediction of RNA-protein complexes. <i>Scientific Reports</i> , 2013, 3, 1887.	3.3	57
11	Role of Ligand Binding in Structural Organization of A-riboswitch Aptamer: A Molecular Dynamics Simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2011, 29, 403-416.	3.5	41
12	Folding kinetics of WW domains with the united residue force field for bridging microscopic motions and experimental measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18243-18248.	7.1	36
13	Folding Mechanism of Beta-Hairpin Trpzip2: Heterogeneity, Transition State and Folding Pathways. <i>International Journal of Molecular Sciences</i> , 2009, 10, 2838-2848.	4.1	31
14	3dRNA: Building RNA 3D structure with improved template library. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2416-2423.	4.1	31
15	Evaluation of RNA secondary structure prediction for both base-pairing and topology. <i>Biophysics Reports</i> , 2018, 4, 123-132.	0.8	28
16	Insights into Ligand Binding to PreQ1 Riboswitch Aptamer from Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2014, 9, e92247.	2.5	26
17	Dynamics of metal ions around an RNA molecule. <i>Physical Review E</i> , 2019, 99, 012420.	2.1	24
18	HNADOCK: a nucleic acid docking server for modeling RNA/DNA-RNA/DNA 3D complex structures. <i>Nucleic Acids Research</i> , 2019, 47, W35-W42.	14.5	24

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19	Genomic Variants in NEURL, GJA1 and CUX2 Significantly Increase Genetic Susceptibility to Atrial Fibrillation. <i>Scientific Reports</i> , 2018, 8, 3297.	3.3	21
20	Angiotensin II increases angiogenesis by NF- κ B-mediated transcriptional activation of angiogenic factor AGGF1. <i>FASEB Journal</i> , 2018, 32, 5051-5062.	0.5	21
21	Using 3dRNA for RNA Structure Prediction and Evaluation. <i>Current Protocols in Bioinformatics</i> , 2017, 57, 5.9.1-5.9.12.	25.8	20
22	3dRPC: a web server for 3D RNA-protein structure prediction. <i>Bioinformatics</i> , 2018, 34, 1238-1240.	4.1	20
23	Prediction of RNA secondary structure with pseudoknots using coupled deep neural networks. <i>Biophysics Reports</i> , 2020, 6, 146-154.	0.8	19
24	Electrostatics of Prokaryotic Ribosome and Its Biological Implication. <i>Biophysical Journal</i> , 2020, 118, 1205-1212.	0.5	19
25	Computational Study of Unfolding and Regulation Mechanism of preQ1 Riboswitches. <i>PLoS ONE</i> , 2012, 7, e45239.	2.5	17
26	Types and concentrations of metal ions affect local structure and dynamics of RNA. <i>Physical Review E</i> , 2016, 94, 040401.	2.1	16
27	Computational evidence that fast translation speed can increase the probability of cotranslational protein folding. <i>Scientific Reports</i> , 2015, 5, 15316.	3.3	14
28	The protein folding network indicates that the ultrafast folding mutant of villin headpiece subdomain has a deeper folding funnel. <i>Journal of Chemical Physics</i> , 2011, 134, 205104.	3.0	13
29	Using 3dRPC for RNA-protein complex structure prediction. <i>Biophysics Reports</i> , 2016, 2, 95-99.	0.8	13
30	A pair-conformation-dependent scoring function for evaluating 3D RNA-protein complex structures. <i>PLoS ONE</i> , 2017, 12, e0174662.	2.5	13
31	A novel folding pathway of the villin headpiece subdomain HP35. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18219-18226.	2.8	13
32	A fast tomographic method for searching the minimum free energy path. <i>Journal of Chemical Physics</i> , 2014, 141, 154109.	3.0	12
33	Nonlinear analysis of correlations in Alu repeat sequences in DNA. <i>Physical Review E</i> , 2003, 68, 061913.	2.1	11
34	Preorientation of protein and RNA just before contacting. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 716-728.	3.5	10
35	Simulation study of the role of the ribosomal exit tunnel on protein folding. <i>Physical Review E</i> , 2013, 87, 022701.	2.1	10
36	Length-Dependent Deep Learning Model for RNA Secondary Structure Prediction. <i>Molecules</i> , 2022, 27, 1030.	3.8	10

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37	Computational study of stability of an H-H-type pseudoknot motif. <i>Physical Review E</i> , 2015, 92, 062705.	2.1	9
38	Periodic synchronization in a system of coupled phase oscillators with attractive and repulsive interactions. <i>Frontiers of Physics</i> , 2018, 13, 1.	5.0	9
39	Molecular dynamics simulation of the binding process of ligands to the <i>add</i> adenine riboswitch aptamer. <i>Physical Review E</i> , 2019, 100, 022412.	2.1	9
40	Antitumor Activities of tRNA-Derived Fragments and tRNA Halves from Non-pathogenic <i>Escherichia coli</i> Strains on Colorectal Cancer and Their Structure-Activity Relationship. <i>MSystems</i> , 2022, 7, e0016422.	3.8	9
41	Design of Tat-Activated Cdk9 Inhibitor. <i>International Journal of Peptide Research and Therapeutics</i> , 2019, 25, 807-817.	1.9	7
42	Improving the replica-exchange molecular-dynamics method for efficient sampling in the temperature space. <i>Physical Review E</i> , 2015, 91, 052708.	2.1	6
43	Multistable states in a system of coupled phase oscillators with inertia. <i>Scientific Reports</i> , 2017, 7, 42178.	3.3	6
44	Pathway regulation mechanism revealed by cotranslational folding of villin headpiece subdomain HP35. <i>Physical Review E</i> , 2020, 101, 052403.	2.1	5
45	Using the generalized Born surface area model to fold proteins yields more effective sampling while qualitatively preserving the folding landscape. <i>Physical Review E</i> , 2020, 101, 062417.	2.1	5
46	Modeling of the Long-Term Epidemic Dynamics of COVID-19 in the United States. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7594.	2.6	5
47	Structural modeling of human cardiac sodium channel pore domain. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 2268-2278.	3.5	4
48	Molecular dynamics study of ways of RNA base-pair formation. <i>Physical Review E</i> , 2020, 102, 032403.	2.1	4
49	Inference of RNA structural contacts by direct coupling analysis. <i>Communications in Information and Systems</i> , 2019, 19, 279-297.	0.5	4
50	LOCAL COMPLEXITY OF PROTEIN SEQUENCES. <i>International Journal of Modern Physics C</i> , 2003, 14, 1191-1199.	1.7	3
51	A symmetry-related sequence-structure relation of proteins. <i>Science Bulletin</i> , 2005, 50, 536-538.	1.7	3
52	Learning the Fastest RNA Folding Path Based on Reinforcement Learning and Monte Carlo Tree Search. <i>Molecules</i> , 2021, 26, 4420.	3.8	3
53	Role of cotranslational folding for β^2 -sheet-enriched proteins: A perspective from molecular dynamics simulations. <i>Physical Review E</i> , 2022, 105, 024402.	2.1	3
54	CHAOTIC DYNAMICS OF A FIVE-DIMENSIONAL NONLINEAR NETWORK. <i>International Journal of Modern Physics C</i> , 2007, 18, 335-342.	1.7	1

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55	Hierarchical Conformational Dynamics Confers Thermal Adaptability to preQ1 RNA Riboswitches. <i>Journal of Molecular Biology</i> , 2020, 432, 4523-4543.	4.2	1
56	DYNAMIC MOVES IN LATTICE SIMULATION OF PROTEIN FOLDING. <i>International Journal of Modern Physics C</i> , 2004, 15, 885-892.	1.7	0
57	Design of a Genetically Programmed Biomimetic Lipase Nanoreactor. <i>ACS Applied Bio Materials</i> , 2021, 4, 3518-3523.	4.6	0
58	Comparison of two algorithms of direct coupling analysis of protein. <i>Communications in Information and Systems</i> , 2019, 19, 1-15.	0.5	0