

# Yi Xiao

## List of Publications by Year in descending order

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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	Length-Dependent Deep Learning Model for RNA Secondary Structure Prediction. <i>Molecules</i> , 2022, 27, 1030.	3.8	10
2	Role of cotranslational folding for $\beta^2$ -sheet-enriched proteins: A perspective from molecular dynamics simulations. <i>Physical Review E</i> , 2022, 105, 024402.	2.1	3
3	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
4	Design of a Genetically Programmed Biomimetic Lipase Nanoreactor. <i>ACS Applied Bio Materials</i> , 2021, 4, 3518-3523.	4.6	0
5	Learning the Fastest RNA Folding Path Based on Reinforcement Learning and Monte Carlo Tree Search. <i>Molecules</i> , 2021, 26, 4420.	3.8	3
6	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
7	Hierarchical Conformational Dynamics Confers Thermal Adaptability to preQ1 RNA Riboswitches. <i>Journal of Molecular Biology</i> , 2020, 432, 4523-4543.	4.2	1
8	3dRNA: Building RNA 3D structure with improved template library. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2416-2423.	4.1	31
9	Prediction of RNA secondary structure with pseudoknots using coupled deep neural networks. <i>Biophysics Reports</i> , 2020, 6, 146-154.	0.8	19
10	Molecular dynamics study of ways of RNA base-pair formation. <i>Physical Review E</i> , 2020, 102, 032403.	2.1	4
11	Pathway regulation mechanism revealed by cotranslational folding of villin headpiece subdomain HP35. <i>Physical Review E</i> , 2020, 101, 052403.	2.1	5
12	RNA-Puzzles Round IV: 3D structure predictions of four ribozymes and two aptamers. <i>Rna</i> , 2020, 26, 982-995.	3.5	100
13	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
14	Electrostatics of Prokaryotic Ribosome and Its Biological Implication. <i>Biophysical Journal</i> , 2020, 118, 1205-1212.	0.5	19
15	Molecular Mechanism of Evolution and Human Infection with SARS-CoV-2. <i>Viruses</i> , 2020, 12, 428.	3.3	140
16	Design of Tat-Activated Cdk9 Inhibitor. <i>International Journal of Peptide Research and Therapeutics</i> , 2019, 25, 807-817.	1.9	7
17	A novel folding pathway of the villin headpiece subdomain HP35. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18219-18226.	2.8	13
18	Molecular dynamics simulation of the binding process of ligands to the adenine riboswitch aptamer. <i>Physical Review E</i> , 2019, 100, 022412.	2.1	9

#	ARTICLE	IF	CITATIONS
19	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
20	Dynamics of metal ions around an RNA molecule. <i>Physical Review E</i> , 2019, 99, 012420.	2.1	24
21	HNADOCK: a nucleic acid docking server for modeling RNA/DNAâ€“RNA/DNA 3D complex structures. <i>Nucleic Acids Research</i> , 2019, 47, W35-W42.	14.5	24
22	Inference of RNA structural contacts by direct coupling analysis. <i>Communications in Information and Systems</i> , 2019, 19, 279-297.	0.5	4
23	Comparison of two algorithms of direct coupling analysis of protein. <i>Communications in Information and Systems</i> , 2019, 19, 1-15.	0.5	0
24	Genomic Variants in NEURL, GJA1 and CUX2 Significantly Increase Genetic Susceptibility to Atrial Fibrillation. <i>Scientific Reports</i> , 2018, 8, 3297.	3.3	21
25	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
26	3dRPC: a web server for 3D RNAâ€“protein structure prediction. <i>Bioinformatics</i> , 2018, 34, 1238-1240.	4.1	20
27	Structural modeling of human cardiac sodium channel pore domain. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 2268-2278.	3.5	4
28	Angiotensin II increases angiogenesis by NFâ€“Bâ€“mediated transcriptional activation of angiogenic factor ACGF1. <i>FASEB Journal</i> , 2018, 32, 5051-5062.	0.5	21
29	Evaluation of RNA secondary structure prediction for both base-pairing and topology. <i>Biophysics Reports</i> , 2018, 4, 123-132.	0.8	28
30	RNA-Puzzles Round III: 3D RNA structure prediction of five riboswitches and one ribozyme. <i>Rna</i> , 2017, 23, 655-672.	3.5	158
31	Using 3dRNA for RNA 3â€“D Structure Prediction and Evaluation. <i>Current Protocols in Bioinformatics</i> , 2017, 57, 5.9.1-5.9.12.	25.8	20
32	Optimization of RNA 3D structure prediction using evolutionary restraints of nucleotideâ€“nucleotide interactions from direct coupling analysis. <i>Nucleic Acids Research</i> , 2017, 45, 6299-6309.	14.5	103
33	Multistable states in a system of coupled phase oscillators with inertia. <i>Scientific Reports</i> , 2017, 7, 42178.	3.3	6
34	A pair-conformation-dependent scoring function for evaluating 3D RNA-protein complex structures. <i>PLoS ONE</i> , 2017, 12, e0174662.	2.5	13
35	Types and concentrations of metal ions affect local structure and dynamics of RNA. <i>Physical Review E</i> , 2016, 94, 040401.	2.1	16
36	Using 3dRPC for RNAâ€“protein complex structure prediction. <i>Biophysics Reports</i> , 2016, 2, 95-99.	0.8	13

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37	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
38	Computational study of stability of an H-H-type pseudoknot motif. <i>Physical Review E</i> , 2015, 92, 062705.	2.1	9
39	Computational evidence that fast translation speed can increase the probability of cotranslational protein folding. <i>Scientific Reports</i> , 2015, 5, 15316.	3.3	14
40	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
41	<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
42	Insights into Ligand Binding to PreQ1 Riboswitch Aptamer from Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2014, 9, e92247.	2.5	26
43	A fast tomographic method for searching the minimum free energy path. <i>Journal of Chemical Physics</i> , 2014, 141, 154109.	3.0	12
44	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
45	Preorientation of protein and RNA just before contacting. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 716-728.	3.5	10
46	Simulation study of the role of the ribosomal exit tunnel on protein folding. <i>Physical Review E</i> , 2013, 87, 022701.	2.1	10
47	A novel protocol for three-dimensional structure prediction of RNA-protein complexes. <i>Scientific Reports</i> , 2013, 3, 1887.	3.3	57
48	Automated and fast building of three-dimensional RNA structures. <i>Scientific Reports</i> , 2012, 2, 734.	3.3	176
49	Computational Study of Unfolding and Regulation Mechanism of preQ1 Riboswitches. <i>PLoS ONE</i> , 2012, 7, e45239.	2.5	17
50	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
51	Role of Ligand Binding in Structural Organization of <i>AddA</i> -riboswitch Aptamer: A Molecular Dynamics Simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2011, 29, 403-416.	3.5	41
52	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
53	CHAOTIC DYNAMICS OF A FIVE-DIMENSIONAL NONLINEAR NETWORK. <i>International Journal of Modern Physics C</i> , 2007, 18, 335-342.	1.7	1
54	A symmetry-related sequence-structure relation of proteins. <i>Science Bulletin</i> , 2005, 50, 536-538.	1.7	3

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55	DYNAMIC MOVES IN LATTICE SIMULATION OF PROTEIN FOLDING. International Journal of Modern Physics C, 2004, 15, 885-892.	1.7	0
56	Nonlinear analysis of correlations in Alu repeat sequences in DNA. Physical Review E, 2003, 68, 061913.	2.1	11
57	LOCAL COMPLEXITY OF PROTEIN SEQUENCES. International Journal of Modern Physics C, 2003, 14, 1191-1199.	1.7	3
58	Analytical Method for Yrast Line States in Interacting Bose-Einstein Condensates. Physical Review Letters, 2001, 86, 2200-2203.	7.8	91