

Zhi-yong Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1534364/publications.pdf>

Version: 2024-02-01

50
papers

1,439
citations

361413

20
h-index

345221

36
g-index

50
all docs

50
docs citations

50
times ranked

2013
citing authors

#	ARTICLE	IF	CITATIONS
1	A Systematic Methodology for Defining Coarse-Grained Sites in Large Biomolecules. <i>Biophysical Journal</i> , 2008, 95, 5073-5083.	0.5	153
2	Molecular Dynamics Simulations of Peptides and Proteins with Amplified Collective Motions. <i>Biophysical Journal</i> , 2003, 84, 3583-3593.	0.5	114
3	Structural Insights into SraP-Mediated <i>Staphylococcus aureus</i> Adhesion to Host Cells. <i>PLoS Pathogens</i> , 2014, 10, e1004169.	4.7	85
4	Defining Coarse-Grained Representations of Large Biomolecules and Biomolecular Complexes from Elastic Network Models. <i>Biophysical Journal</i> , 2009, 97, 2327-2337.	0.5	82
5	Functional Characterization and Structural Basis of an Efficient Di-C-glycosyltransferase from <i>Glycyrrhiza glabra</i> . <i>Journal of the American Chemical Society</i> , 2020, 142, 3506-3512.	13.7	76
6	Aurora-A mediated phosphorylation of LDHB promotes glycolysis and tumor progression by relieving the substrate-inhibition effect. <i>Nature Communications</i> , 2019, 10, 5566.	12.8	66
7	Coordinating carbon and nitrogen metabolic signaling through the cyanobacterial global repressor NdhR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 403-408.	7.1	65
8	Structural basis for receptor recognition and pore formation of a zebrafish aerolysin-like protein. <i>EMBO Reports</i> , 2016, 17, 235-248.	4.5	53
9	Highly Promiscuous Flavonoid 3-O-Glycosyltransferase from <i>Scutellaria baicalensis</i> . <i>Organic Letters</i> , 2019, 21, 2241-2245.	4.6	50
10	Efficiently explore the energy landscape of proteins in molecular dynamics simulations by amplifying collective motions. <i>Journal of Chemical Physics</i> , 2003, 119, 4005-4017.	3.0	45
11	Coarse-Grained Representations of Large Biomolecular Complexes from Low-Resolution Structural Data. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2990-3002.	5.3	44
12	Structural Determinants for the Strict Monomethylation Activity by <i>Trypanosoma brucei</i> Protein Arginine Methyltransferase 7. <i>Structure</i> , 2014, 22, 756-768.	3.3	43
13	Backmapping from Multiresolution Coarse-Grained Models to Atomic Structures of Large Biomolecules by Restrained Molecular Dynamics Simulations Using Bayesian Inference. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3344-3353.	5.3	41
14	Key Intermolecular Interactions in the <i>E. coli</i> 70S Ribosome Revealed by Coarse-Grained Analysis. <i>Journal of the American Chemical Society</i> , 2011, 133, 16828-16838.	13.7	38
15	Mitosis-specific acetylation tunes Ran effector binding for chromosome segregation. <i>Journal of Molecular Cell Biology</i> , 2018, 10, 18-32.	3.3	32
16	Crystal structure of human BS69 Bromo-ZnF-PWWP reveals its role in H3K36me3 nucleosome binding. <i>Cell Research</i> , 2014, 24, 890-893.	12.0	29
17	Structural insights into HetR~PatS interaction involved in cyanobacterial pattern formation. <i>Scientific Reports</i> , 2015, 5, 16470.	3.3	29
18	Dynamic crotonylation of EB1 by TIP60 ensures accurate spindle positioning in mitosis. <i>Nature Chemical Biology</i> , 2021, 17, 1314-1323.	8.0	29

#	ARTICLE	IF	CITATIONS
19	Simulating Large-Scale Conformational Changes of Proteins by Accelerating Collective Motions Obtained from Principal Component Analysis. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3449-3458.	5.3	26
20	The O2-ZmGRAS11 transcriptional regulatory network orchestrates the coordination of endosperm cell expansion and grain filling in <i>Maize</i> . <i>Molecular Plant</i> , 2022, 15, 468-487.	8.3	25
21	Insights into the Structure of Dimeric RNA Helicase CsdA and Indispensable Role of Its C-Terminal Regions. <i>Structure</i> , 2017, 25, 1795-1808.e5.	3.3	23
22	Crystal structure of triple α -BRCT domain of ECT2 and insights into the binding characteristics to CYK4. <i>FEBS Letters</i> , 2014, 588, 2911-2920.	2.8	22
23	Crystal Structure of Arginine Methyltransferase 6 from <i>Trypanosoma brucei</i> . <i>PLoS ONE</i> , 2014, 9, e87267.	2.5	21
24	Characterization of Protein Flexibility Using Small-Angle X-Ray Scattering and Amplified Collective Motion Simulations. <i>Biophysical Journal</i> , 2014, 107, 956-964.	0.5	20
25	Structural insights into repression of the <i>Pneumococcal</i> fatty acid synthesis pathway by repressor FabT and α -repressor acyl-ACP. <i>FEBS Letters</i> , 2019, 593, 2730-2741.	2.8	20
26	Dynamic Nature of CTCF Tandem 11 Zinc Fingers in Multivalent Recognition of DNA As Revealed by NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4020-4028.	4.6	18
27	SAXS-Oriented Ensemble Refinement of Flexible Biomolecules. <i>Biophysical Journal</i> , 2017, 112, 1295-1301.	0.5	17
28	Structural and dynamic properties of the C-terminal region of the <i>Escherichia coli</i> RNA chaperone Hfq: integrative experimental and computational studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21152-21164.	2.8	15
29	Structural insights into the activation of autoinhibited human lipid flippase ATP8B1 upon substrate binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118656119.	7.1	15
30	Polymorphism of the Epidermal Growth Factor Receptor Extracellular Ligand Binding Domain: The Dimer Interface Depends on Domain Stabilization. <i>Biochemistry</i> , 2011, 50, 2144-2156.	2.5	14
31	Large Conformational Changes of Insertion 3 in Human Glycyl-tRNA Synthetase (hGlyRS) during Catalysis. <i>Journal of Biological Chemistry</i> , 2016, 291, 5740-5752.	3.4	14
32	Crystal and EM Structures of Human Phosphoribosyl Pyrophosphate Synthase I (PRS1) Provide Novel Insights into the Disease-Associated Mutations. <i>PLoS ONE</i> , 2015, 10, e0120304.	2.5	14
33	Coarse-Graining Protein Structures With Local Multivariate Features from Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14026-14035.	2.6	13
34	Molecular mechanism of histone variant H2A.B on stability and assembly of nucleosome and chromatin structures. <i>Epigenetics and Chromatin</i> , 2020, 13, 28.	3.9	12
35	Structural investigation of the interaction between the tandem SH3 domains of c-Cbl-associated protein and vinculin. <i>Journal of Structural Biology</i> , 2014, 187, 194-205.	2.8	11
36	Entropic Folding Pathway of Human Epidermal Growth Factor Explored by Disulfide Scrambling and Amplified Collective Motion Simulations. <i>Biochemistry</i> , 2006, 45, 15269-15278.	2.5	10

#	ARTICLE	IF	CITATIONS
37	Determining structural ensembles of flexible multi-domain proteins using small-angle X-ray scattering and molecular dynamics simulations. <i>Protein and Cell</i> , 2015, 6, 619-623.	11.0	9
38	Unraveling low-resolution structural data of large biomolecules by constructing atomic models with experiment-targeted parallel cascade selection simulations. <i>Scientific Reports</i> , 2016, 6, 29360.	3.3	7
39	pH dependence of ligand-induced human epidermal growth factor receptor activation investigated by molecular dynamics simulations. <i>Journal of Molecular Modeling</i> , 2016, 22, 131.	1.8	7
40	Electrostatic interactions determine entrance/release order of substrates in the catalytic cycle of adenylate kinase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 337-347.	2.6	7
41	Systematic Methods for Defining Coarse-Grained Maps in Large Biomolecules. <i>Advances in Experimental Medicine and Biology</i> , 2015, 827, 33-48.	1.6	6
42	Biochemical characterization of G64W mutant of acidic beta-crystallin 4. <i>Experimental Eye Research</i> , 2019, 186, 107712.	2.6	5
43	Structural modeling of proteins by integrating small-angle x-ray scattering data. <i>Chinese Physics B</i> , 2015, 24, 126101.	1.4	3
44	Conformational Selection in Ligand Recognition by the First Tudor Domain of PHF20L1. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7932-7938.	4.6	3
45	Fragment-Based Discovery of AF9 YEATS Domain Inhibitors. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3893.	4.1	3
46	Structural insight into the unique dsDNA binding topology of the human ORC2 wing helix domain. <i>FEBS Journal</i> , 2019, 286, 2726-2736.	4.7	2
47	Integrating an Enhanced Sampling Method and Small-Angle X-Ray Scattering to Study Intrinsically Disordered Proteins. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 621128.	3.5	2
48	Halophilic to mesophilic adaptation of ubiquitin-like proteins. <i>FEBS Letters</i> , 2021, 595, 521-531.	2.8	1
49	Ligand binding and release investigated by contact-guided iterative multiple independent molecular dynamics simulations. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 334-342.	1.3	0
50	Choice of force fields and water models for sampling solution conformations of bacteriophage T4 lysozyme. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 487-496.	1.3	0