

Chengxin Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

4,004
citations

218677

26
h-index

189892

50
g-index

62
all docs

62
docs citations

62
times ranked

5389
citing authors

#	ARTICLE	IF	CITATIONS
1	EDIL3 deficiency ameliorates adverse cardiac remodelling by neutrophil extracellular traps (NET)-mediated macrophage polarization. <i>Cardiovascular Research</i> , 2022, 118, 2179-2195.	3.8	29
2	Unprecedented Processable Hypercrosslinked Polymers with Controlled Knitting. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100449.	3.9	4
3	GPU-I-TASSER: a GPU accelerated I-TASSER protein structure prediction tool. <i>Bioinformatics</i> , 2022, 38, 1754-1755.	4.1	6
4	<i>CSSR</i>: assignment of secondary structure to coarse-grained RNA tertiary structures. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 466-471.	2.3	7
5	RTL8 promotes nuclear localization of UBQLN2 to subnuclear compartments associated with protein quality control. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 176.	5.4	3
6	AMIGOS III: pseudo-torsion angle visualization and motif-based structure comparison of nucleic acids. <i>Bioinformatics</i> , 2022, 38, 2937-2939.	4.1	1
7	Soluble CD13 induces inflammatory arthritis by activating the bradykinin receptor B1. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	6
8	TripletGO: Integrating Transcript Expression Profiles with Protein Homology Inferences for Gene Function Prediction. <i>Genomics, Proteomics and Bioinformatics</i> , 2022, 20, 1013-1027.	6.9	4
9	Progressive assembly of multi-domain protein structures from cryo-EM density maps. <i>Nature Computational Science</i> , 2022, 2, 265-275.	8.0	25
10	Deep learning geometrical potential for high-accuracy ab initio protein structure prediction. <i>IScience</i> , 2022, 25, 104425.	4.1	7
11	Generation of a live attenuated influenza A vaccine by proteolysis targeting. <i>Nature Biotechnology</i> , 2022, 40, 1370-1377.	17.5	26
12	Functions of Essential Genes and a Scale-Free Protein Interaction Network Revealed by Structure-Based Function and Interaction Prediction for a Minimal Genome. <i>Journal of Proteome Research</i> , 2021, 20, 1178-1189.	3.7	23
13	Rational Design of Adenylate Kinase Thermostability through Coevolution and Sequence Divergence Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2768.	4.1	5
14	Deducing high-accuracy protein contact-maps from a triplet of coevolutionary matrices through deep residual convolutional networks. <i>PLoS Computational Biology</i> , 2021, 17, e1008865.	3.2	70
15	ADDRESS: A Database of Disease-associated Human Variants Incorporating Protein Structure and Folding Stabilities. <i>Journal of Molecular Biology</i> , 2021, 433, 166840.	4.2	15
16	Integrating Multimeric Threading With High-throughput Experiments for Structural Interactome of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2021, 433, 166944.	4.2	9
17	Folding non-homologous proteins by coupling deep-learning contact maps with I-TASSER assembly simulations. <i>Cell Reports Methods</i> , 2021, 1, 100014.	2.9	272
18	Protein structure prediction using deep learning distance and hydrogenâ€bonding restraints in <sc>CASP14</sc>. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1734-1751.	2.6	53

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19	Improving fragment-based ab initio protein structure assembly using low-accuracy contact-map predictions. <i>Nature Communications</i> , 2021, 12, 5011.	12.8	44
20	hiPSC Modeling of Lineage-Specific Smooth Muscle Cell Defects Caused by <i>TGFBR1</i> ^{A230T} Variant, and Its Therapeutic Implications for Loeys-Dietz Syndrome. <i>Circulation</i> , 2021, 144, 1145-1159.	1.6	24
21	Protein inter-residue contact and distance prediction by coupling complementary coevolution features with deep residual networks in <i>CASP14</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1911-1921.	2.6	23
22	DeepMSA: constructing deep multiple sequence alignment to improve contact prediction and fold-recognition for distant-homology proteins. <i>Bioinformatics</i> , 2020, 36, 2105-2112.	4.1	147
23	Identifying the Zoonotic Origin of SARS-CoV-2 by Modeling the Binding Affinity between the Spike Receptor-Binding Domain and Host ACE2. <i>Journal of Proteome Research</i> , 2020, 19, 4844-4856.	3.7	27
24	Detecting Gene Ontology misannotations using taxon-specific rate ratio comparisons. <i>Bioinformatics</i> , 2020, 36, 4383-4388.	4.1	10
25	Protein Structure and Sequence Reanalysis of 2019-nCoV Genome Refutes Snakes as Its Intermediate Host and the Unique Similarity between Its Spike Protein Insertions and HIV-1. <i>Journal of Proteome Research</i> , 2020, 19, 1351-1360.	3.7	242
26	Ensembling multiple raw coevolutionary features with deep residual neural networks for contact-map prediction in <i>CASP13</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1082-1091.	2.6	96
27	LOMETS2: improved meta-threading server for fold-recognition and structure-based function annotation for distant-homology proteins. <i>Nucleic Acids Research</i> , 2019, 47, W429-W436.	14.5	118
28	Assembling multidomain protein structures through analogous global structural alignments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15930-15938.	7.1	104
29	Deep learning contact-map guided protein structure prediction in <i>CASP13</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1149-1164.	2.6	180
30	Blinded Testing of Function Annotation for uPE1 Proteins by I-TASSER/COFACTOR Pipeline Using the 2018-2019 Additions to neXtProt and the CAFA3 Challenge. <i>Journal of Proteome Research</i> , 2019, 18, 4154-4166.	3.7	20
31	Detecting distant-homology protein structures by aligning deep neural-network based contact maps. <i>PLoS Computational Biology</i> , 2019, 15, e1007411.	3.2	45
32	Fueling ab initio folding with marine metagenomics enables structure and function predictions of new protein families. <i>Genome Biology</i> , 2019, 20, 229.	8.8	28
33	ResPRE: high-accuracy protein contact prediction by coupling precision matrix with deep residual neural networks. <i>Bioinformatics</i> , 2019, 35, 4647-4655.	4.1	142
34	I-TASSER gateway: A protein structure and function prediction server powered by XSEDE. <i>Future Generation Computer Systems</i> , 2019, 99, 73-85.	7.5	80
35	RNA-align: quick and accurate alignment of RNA 3D structures based on size-independent TM-scoreRNA. <i>Bioinformatics</i> , 2019, 35, 4459-4461.	4.1	44
36	Synthesis of MWCNT-Based Hyper-Cross-Linked Polymers with Thickness-Tunable Organic Porous Layers. <i>ACS Macro Letters</i> , 2019, 8, 403-408.	4.8	14

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37	Controlling Monomer Feeding Rate to Achieve Highly Crystalline Covalent Triazine Frameworks. <i>Advanced Materials</i> , 2019, 31, e1807865.	21.0	158
38	Porous hypercrosslinked polymer-TiO ₂ -graphene composite photocatalysts for visible-light-driven CO ₂ conversion. <i>Nature Communications</i> , 2019, 10, 676.	12.8	278
39	Function Prediction for G Protein-Coupled Receptors through Text Mining and Induction Matrix Completion. <i>ACS Omega</i> , 2019, 4, 3045-3054.	3.5	2
40	The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens. <i>Genome Biology</i> , 2019, 20, 244.	8.8	261
41	MetaGO: Predicting Gene Ontology of Non-homologous Proteins Through Low-Resolution Protein Structure Prediction and Protein-Protein Network Mapping. <i>Journal of Molecular Biology</i> , 2018, 430, 2256-2265.	4.2	58
42	Template-based and free modeling of I-TASSER and QUARK pipelines using predicted contact maps in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 136-151.	2.6	86
43	Structure and Protein Interaction-Based Gene Ontology Annotations Reveal Likely Functions of Uncharacterized Proteins on Human Chromosome 17. <i>Journal of Proteome Research</i> , 2018, 17, 4186-4196.	3.7	27
44	PyMod 2.0: improvements in protein sequence-structure analysis and homology modeling within PyMOL. <i>Bioinformatics</i> , 2017, 33, 444-446.	4.1	183
45	COFACTOR: improved protein function prediction by combining structure, sequence and protein-protein interaction information. <i>Nucleic Acids Research</i> , 2017, 45, W291-W299.	14.5	424
46	A novel metalporphyrin-based microporous organic polymer with high CO ₂ uptake and efficient chemical conversion of CO ₂ under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1509-1515.	10.3	186
47	Layered microporous polymers by solvent knitting method. <i>Science Advances</i> , 2017, 3, e1602610.	10.3	135
48	BindProfX: Assessing Mutation-Induced Binding Affinity Change by Protein Interface Profiles with Pseudo-Counts. <i>Journal of Molecular Biology</i> , 2017, 429, 426-434.	4.2	107
49	Novel fullerene-based porous materials constructed by a solvent knitting strategy. <i>Chemical Communications</i> , 2017, 53, 12758-12761.	4.1	9
50	Approaches to <i>ab initio</i> molecular replacement of α -helical transmembrane proteins. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017, 73, 985-996.	2.3	6
51	Novel POSS-based organic-inorganic hybrid porous materials by low cost strategies. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6542-6548.	10.3	81