

Dongbo Bu

List of Publications by Year in descending order

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42
papers

2,164
citations

471509

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302126

39
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docs citations

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times ranked

3036
citing authors

#	ARTICLE	IF	CITATIONS
1	ProALIGN: Directly Learning Alignments for Protein Structure Prediction via Exploiting Context-Specific Alignment Motifs. <i>Journal of Computational Biology</i> , 2022, 29, 92-105.	1.6	1
2	Microbiome Resilience and Health Implications for People in Half-Year Travel. <i>Frontiers in Immunology</i> , 2022, 13, 848994.	4.8	2
3	Mainstream encoding—decoding methods of DNA data storage. <i>CCF Transactions on High Performance Computing</i> , 2022, 4, 23-33.	1.7	2
4	FINER: enhancing the prediction of tissue-specific functions of isoforms by refining isoform interaction networks. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab057.	3.2	3
5	CopulaNet: Learning residue co-evolution directly from multiple sequence alignment for protein structure prediction. <i>Nature Communications</i> , 2021, 12, 2535.	12.8	44
6	FALCON2: a web server for high-quality prediction of protein tertiary structures. <i>BMC Bioinformatics</i> , 2021, 22, 439.	2.6	0
7	HepParser: An Intelligent Software Program for Deciphering Low-Molecular-Weight Heparin Based on Mass Spectrometry. <i>Frontiers in Chemistry</i> , 2021, 9, 723149.	3.6	1
8	The effect of N-glycosylation of SARS-CoV-2 spike protein on the virus interaction with the host cell ACE2 receptor. <i>IScience</i> , 2021, 24, 103272.	4.1	20
9	Filling gaps of genome scaffolds via probabilistic searching optical maps against assembly graph. <i>BMC Bioinformatics</i> , 2021, 22, 533.	2.6	0
10	SASA-Net: A spatial-aware self-attention mechanism for building protein 3D structure directly from inter-residue distances. , 2021, , .		0
11	ISSEC: inferring contacts among protein secondary structure elements using deep object detection. <i>BMC Bioinformatics</i> , 2020, 21, 503.	2.6	8
12	Multistage mass spectrometry with intelligent precursor selection for N-glycan branching pattern analysis. <i>Carbohydrate Polymers</i> , 2020, 237, 116122.	10.2	6
13	DIFFUSE: predicting isoform functions from sequences and expression profiles via deep learning. <i>Bioinformatics</i> , 2019, 35, i284-i294.	4.1	28
14	Predicting human contacts through alternating direction method of multipliers. <i>International Journal of Modern Physics C</i> , 2019, 30, 1940014.	1.7	1
15	De novo glycan structural identification from mass spectra using tree merging strategy. <i>Computational Biology and Chemistry</i> , 2019, 80, 217-224.	2.3	6
16	Constructing effective energy functions for protein structure prediction through broadening attraction-basin and reverse Monte Carlo sampling. <i>BMC Bioinformatics</i> , 2019, 20, 135.	2.6	1
17	Predicting protein inter-residue contacts using composite likelihood maximization and deep learning. <i>BMC Bioinformatics</i> , 2019, 20, 537.	2.6	6
18	Resilience of human gut microbial communities for the long stay with multiple dietary shifts. <i>Gut</i> , 2019, 68, 2254-2255.	12.1	45

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19	Toward Automated Identification of Glycan Branching Patterns Using Multistage Mass Spectrometry with Intelligent Precursor Selection. <i>Analytical Chemistry</i> , 2018, 90, 14412-14422.	6.5	23
20	Protein threading using residue co-variation and deep learning. <i>Bioinformatics</i> , 2018, 34, i263-i273.	4.1	66
21	TagDict: Prediction of Theoretical Spectra of Peptides Based on A Tag Dictionary. <i>Current Bioinformatics</i> , 2018, 13, 444-449.	1.5	0
22	Improving protein fold recognition by extracting fold-specific features from predicted residue-residue contacts. <i>Bioinformatics</i> , 2017, 33, 3749-3757.	4.1	47
23	Improving prediction of burial state of residues by exploiting correlation among residues. <i>BMC Bioinformatics</i> , 2017, 18, 70.	2.6	6
24	Improving residue-residue contact prediction via low-rank and sparse decomposition of residue correlation matrix. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 217-222.	2.1	19
25	FALCON@home: a high-throughput protein structure prediction server based on remote homologue recognition. <i>Bioinformatics</i> , 2016, 32, 462-464.	4.1	34
26	OpenMS-Simulator: an open-source software for theoretical tandem mass spectrum prediction. <i>BMC Bioinformatics</i> , 2015, 16, 110.	2.6	14
27	Multilevel structural characteristics for the natural substrate proteins of bacterial small heat shock proteins. <i>Protein Science</i> , 2014, 23, 229-237.	7.6	9
28	MS-Simulator: Predicting <i>Y</i> -Ion Intensities for Peptides with Two Charges Based on the Intensity Ratio of Neighboring Ions. <i>Journal of Proteome Research</i> , 2012, 11, 4509-4516.	3.7	25
29	Finding Nearly Optimal GDT Scores. <i>Journal of Computational Biology</i> , 2011, 18, 693-704.	1.6	8
30	LEX-SVM: EXPLORING THE POTENTIAL OF EXON EXPRESSION PROFILING FOR DISEASE CLASSIFICATION. <i>Journal of Bioinformatics and Computational Biology</i> , 2011, 09, 299-316.	0.8	1
31	MicroRNA regulation of messenger-like noncoding RNAs: a network of mutual microRNA control. <i>Trends in Genetics</i> , 2008, 24, 323-327.	6.7	36
32	Fragment-HMM: A new approach to protein structure prediction. <i>Protein Science</i> , 2008, 17, 1925-1934.	7.6	57
33	Deriving the Probabilities of Water Loss and Ammonia Loss for Amino Acids from Tandem Mass Spectra. <i>Journal of Proteome Research</i> , 2008, 7, 202-208.	3.7	24
34	A Fragmentation Event Model for Peptide Identification by Mass Spectrometry. <i>Lecture Notes in Computer Science</i> , 2008, , 154-166.	1.3	5
35	AN ITERATIVE ALGORITHM TO QUANTIFY FACTORS INFLUENCING PEPTIDE FRAGMENTATION DURING TANDEM MASS SPECTROMETRY. <i>Journal of Bioinformatics and Computational Biology</i> , 2007, 05, 297-311.	0.8	6
36	FragQA: predicting local fragment quality of a sequence-structure alignment. <i>Genome Informatics</i> , 2007, 19, 27-39.	0.4	6

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37	Faster and more accurate global protein function assignment from protein interaction networks using the MFGO algorithm. <i>FEBS Letters</i> , 2006, 580, 1891-1896.	2.8	20
38	Genome-wide analysis of mammalian DNA segment fusion/fission. <i>Journal of Theoretical Biology</i> , 2006, 240, 200-208.	1.7	4
39	The Genomes of <i>Oryza sativa</i> : A History of Duplications. <i>PLoS Biology</i> , 2005, 3, e38.	5.6	808
40	Organization of the <i>Caenorhabditis elegans</i> small non-coding transcriptome: Genomic features, biogenesis, and expression. <i>Genome Research</i> , 2005, 16, 20-29.	5.5	104
41	The interactome as a tree—an attempt to visualize the protein-protein interaction network in yeast. <i>Nucleic Acids Research</i> , 2004, 32, 4804-4811.	14.5	43
42	Topological structure analysis of the protein-protein interaction network in budding yeast. <i>Nucleic Acids Research</i> , 2003, 31, 2443-2450.	14.5	614