Bonnie Berger

List of Publications by Year in descending order

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13771 20817 20,981 206 60 129 citations h-index g-index papers 236 236 236 33429 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	SARS-CoV-2 Receptor ACE2 Is an Interferon-Stimulated Gene in Human Airway Epithelial Cells and Is Detected in Specific Cell Subsets across Tissues. Cell, 2020, 181, 1016-1035.e19.	28.9	1,956
2	Efficient Bayesian mixed-model analysis increases association power in large cohorts. Nature Genetics, 2015, 47, 284-290.	21.4	1,285
3	Ancient human genomes suggest three ancestral populations for present-day Europeans. Nature, 2014, 513, 409-413.	27.8	1,179
4	Identification of Functional Elements and Regulatory Circuits by <i>Drosophila</i> modENCODE. Science, 2010, 330, 1787-1797.	12.6	1,124
5	Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. Nature Methods, 2019, 16, 1153-1160.	19.0	693
6	MultiCoil: A program for predicting twoâ€and threeâ€stranded coiled coils. Protein Science, 1997, 6, 1179-1189.	7.6	667
7	Efficient integration of heterogeneous single-cell transcriptomes using Scanorama. Nature Biotechnology, 2019, 37, 685-691.	17.5	557
8	ARACHNE: A Whole-Genome Shotgun Assembler. Genome Research, 2002, 12, 177-189.	5.5	508
9	Global alignment of multiple protein interaction networks with application to functional orthology detection. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12763-12768.	7.1	500
10	Widespread Macromolecular Interaction Perturbations in Human Genetic Disorders. Cell, 2015, 161, 647-660.	28.9	482
11	Inferring Admixture Histories of Human Populations Using Linkage Disequilibrium. Genetics, 2013, 193, 1233-1254.	2.9	445
12	Herpesviral Protein Networks and Their Interaction with the Human Proteome. Science, 2006, 311, 239-242.	12.6	399
13	Allergic inflammatory memory in human respiratory epithelial progenitor cells. Nature, 2018, 560, 649-654.	27.8	368
14	A Quantitative Chaperone Interaction Network Reveals the Architecture of Cellular Protein Homeostasis Pathways. Cell, 2014, 158, 434-448.	28.9	335
15	Protein Folding in the Hydrophobic-Hydrophilic (<i>HP</i>) Model is NP-Complete. Journal of Computational Biology, 1998, 5, 27-40.	1.6	327
16	IsoRankN: spectral methods for global alignment of multiple protein networks. Bioinformatics, 2009, 25, i253-i258.	4.1	322
17	Topaz-Denoise: general deep denoising models for cryoEM and cryoET. Nature Communications, 2020, 11, 5208.	12.8	313
18	Human and Mouse Gene Structure: Comparative Analysis and Application to Exon Prediction. Genome Research, 2000, 10, 950-958.	5 . 5	303

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19	CryoDRGN: reconstruction of heterogeneous cryo-EM structures using neural networks. Nature Methods, 2021, 18, 176-185.	19.0	299
20	Computational solutions for omics data. Nature Reviews Genetics, 2013, 14, 333-346.	16.3	288
21	Ancient west Eurasian ancestry in southern and eastern Africa. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2632-2637.	7.1	246
22	Genetic Evidence for Recent Population Mixture in India. American Journal of Human Genetics, 2013, 93, 422-438.	6.2	234
23	Compact Integration of Multi-Network Topology for Functional Analysis of Genes. Cell Systems, 2016, 3, 540-548.e5.	6.2	207
24	Learning the protein language: Evolution, structure, and function. Cell Systems, 2021, 12, 654-669.e3.	6.2	194
25	Pertactin beta-helix folding mechanism suggests common themes for the secretion and folding of autotransporter proteins. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4918-4923.	7.1	187
26	Matt: Local Flexibility Aids Protein Multiple Structure Alignment. PLoS Computational Biology, 2008, 4, e10.	3.2	185
27	Learning the language of viral evolution and escape. Science, 2021, 371, 284-288.	12.6	184
28	Opposing Effects of Glutamine and Asparagine Govern Prion Formation by Intrinsically Disordered Proteins. Molecular Cell, 2011, 43, 72-84.	9.7	174
29	Reconstructing Austronesian population history in Island Southeast Asia. Nature Communications, 2014, 5, 4689.	12.8	158
30	Local Rules Simulation of the Kinetics of Virus Capsid Self-Assembly. Biophysical Journal, 1998, 75, 2626-2636.	0.5	148
31	Conserved microRNA targeting in <i>Drosophila</i> is as widespread in coding regions as in 3′UTRs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15751-15756.	7.1	146
32	LearnCoil-VMF: computational evidence for coiled-coil-like motifs in many viral membrane-fusion proteins. Journal of Molecular Biology, 1999, 290, 1031-1041.	4.2	144
33	Largeâ€scale identification of genetic design strategies using local search. Molecular Systems Biology, 2009, 5, 296.	7.2	143
34	Secure genome-wide association analysis using multiparty computation. Nature Biotechnology, 2018, 36, 547-551.	17.5	139
35	Structured States of Disordered Proteins from Genomic Sequences. Cell, 2016, 167, 158-170.e12.	28.9	127
36	Unusually effective microRNA targeting within repeat-rich coding regions of mammalian mRNAs. Genome Research, 2011, 21, 1395-1403.	5 . 5	123

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37	Struct2Net: a web service to predict protein-protein interactions using a structure-based approach. Nucleic Acids Research, 2010, 38, W508-W515.	14.5	121
38	Efficient Moment-Based Inference of Admixture Parameters and Sources of Gene Flow. Molecular Biology and Evolution, 2013, 30, 1788-1802.	8.9	121
39	Genome-Scale Networks Link Neurodegenerative Disease Genes to α-Synuclein through Specific Molecular Pathways. Cell Systems, 2017, 4, 157-170.e14.	6.2	102
40	Predicting the mutational drivers of future SARS-CoV-2 variants of concern. Science Translational Medicine, 2022, 14, eabk3445.	12.4	101
41	Integrated single-cell analysis of multicellular immune dynamics during hyperacute HIV-1 infection. Nature Medicine, 2020, 26, 511-518.	30.7	100
42	Compressive genomics. Nature Biotechnology, 2012, 30, 627-630.	17.5	99
43	Comprehensive Dissection of PDGF-PDGFR Signaling Pathways in PDGFR Genetically Defined Cells. PLoS ONE, 2008, 3, e3794.	2.5	99
44	Exploiting ontology graph for predicting sparsely annotated gene function. Bioinformatics, 2015, 31, i357-i364.	4.1	97
45	Enhancing Evolutionary Couplings with Deep Convolutional Neural Networks. Cell Systems, 2018, 6, 65-74.e3.	6.2	97
46	Geometric Sketching Compactly Summarizes the Single-Cell Transcriptomic Landscape. Cell Systems, 2019, 8, 483-493.e7.	6.2	95
47	Leveraging Uncertainty in Machine Learning Accelerates Biological Discovery and Design. Cell Systems, 2020, 11, 461-477.e9.	6.2	92
48	Multimodal profiling of lung granulomas in macaques reveals cellular correlates of tuberculosis control. Immunity, 2022, 55, 827-846.e10.	14.3	92
49	BETASCAN: Probable \hat{l}^2 -amyloids Identified by Pairwise Probabilistic Analysis. PLoS Computational Biology, 2009, 5, e1000333.	3.2	91
50	IsoBase: a database of functionally related proteins across PPI networks. Nucleic Acids Research, 2011, 39, D295-D300.	14.5	90
51	Methods in Comparative Genomics: Genome Correspondence, Gene Identification and Regulatory Motif Discovery. Journal of Computational Biology, 2004, 11, 319-355.	1.6	88
52	Proteomic and Functional Genomic Landscape of Receptor Tyrosine Kinase and Ras to Extracellular Signal–Regulated Kinase Signaling. Science Signaling, 2011, 4, rs10.	3.6	87
53	Visualization of clustered protocadherin neuronal self-recognition complexes. Nature, 2019, 569, 280-283.	27.8	86
54	Computational Methods for Single-Cell RNA Sequencing. Annual Review of Biomedical Data Science, 2020, 3, 339-364.	6.5	81

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55	Structures of radial spokes and associated complexes important for ciliary motility. Nature Structural and Molecular Biology, 2021, 28, 29-37.	8.2	81
56	Near-Linear Time Construction of Sparse Neighborhood Covers. SIAM Journal on Computing, 1998, 28, 263-277.	1.0	79
57	Human airway mast cells proliferate and acquire distinct inflammation-driven phenotypes during type 2 inflammation. Science Immunology, 2021, 6, .	11.9	79
58	D-SCRIPT translates genome to phenome with sequence-based, structure-aware, genome-scale predictions of protein-protein interactions. Cell Systems, 2021, 12, 969-982.e6.	6.2	78
59	MSARI: Multiple sequence alignments for statistical detection of RNA secondary structure. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12102-12107.	7.1	77
60	HapTree: A Novel Bayesian Framework for Single Individual Polyplotyping Using NGS Data. PLoS Computational Biology, 2014, 10, e1003502.	3.2	75
61	Assessing single-cell transcriptomic variability through density-preserving data visualization. Nature Biotechnology, 2021, 39, 765-774.	17.5	74
62	Fast and accurate algorithms for protein side-chain packing. Journal of the ACM, 2006, 53, 533-557.	2.2	73
63	Conserved piRNA Expression from a Distinct Set of piRNA Cluster Loci in Eutherian Mammals. PLoS Genetics, 2015, 11, e1005652.	3.5	73
64	Multicoil2: Predicting Coiled Coils and Their Oligomerization States from Sequence in the Twilight Zone. PLoS ONE, 2011, 6, e23519.	2.5	72
65	Identification of protein complexes by integrating multiple alignment of protein interaction networks. Bioinformatics, 2017, 33, 1681-1688.	4.1	72
66	A gene expression profile of stem cell pluripotentiality and differentiation is conserved across diverse solid and hematopoietic cancers. Genome Biology, 2012, 13, R71.	9.6	69
67	Efficient NC algorithms for set cover with applications to learning and geometry. Journal of Computer and System Sciences, 1994, 49, 454-477.	1.2	68
68	Local topology of silica networks. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 78, 679-711.	0.6	68
69	RCK: accurate and efficient inference of sequence- and structure-based protein–RNA binding models from RNAcompete data. Bioinformatics, 2016, 32, i351-i359.	4.1	67
70	Allelic decomposition and exact genotyping of highly polymorphic and structurally variant genes. Nature Communications, 2018, 9, 828.	12.8	67
71	Simulating (log c n)-wise independence in NC. Journal of the ACM, 1991, 38, 1026-1046.	2.2	65
72	Entropy-Scaling Search of Massive Biological Data. Cell Systems, 2015, 1, 130-140.	6.2	64

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73	Truly privacy-preserving federated analytics for precision medicine with multiparty homomorphic encryption. Nature Communications, 2021, 12, 5910.	12.8	64
74	Diffusion Component Analysis: Unraveling Functional Topology in Biological Networks. Lecture Notes in Computer Science, 2015, 9029, 62-64.	1.3	63
75	Enabling Privacy-Preserving GWASs in Heterogeneous Human Populations. Cell Systems, 2016, 3, 54-61.	6.2	62
76	Reconstructing Roma History from Genome-Wide Data. PLoS ONE, 2013, 8, e58633.	2.5	61
77	Improving the Power of GWAS and Avoiding Confounding from Population Stratification with PC-Select. Genetics, 2014, 197, 1045-1049.	2.9	59
78	Revealing the spatial distribution of a disease while preserving privacy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17608-17613.	7.1	58
79	A method for probing the mutational landscape of amyloid structure. Bioinformatics, 2011, 27, i34-i42.	4.1	58
80	Quality score compression improves genotyping accuracy. Nature Biotechnology, 2015, 33, 240-243.	17.5	57
81	Deep learning guided optimization of human antibody against SARS-CoV-2 variants with broad neutralization. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2122954119.	7.1	57
82	iWRAP: An Interface Threading Approach with Application to Prediction of Cancer-Related Protein–Protein Interactions. Journal of Molecular Biology, 2011, 405, 1295-1310.	4.2	56
83	Computational biology in the 21st century. Communications of the ACM, 2016, 59, 72-80.	4.5	56
84	Fast characterization of segmental duplications in genome assemblies. Bioinformatics, 2018, 34, i706-i714.	4.1	55
85	Compressive genomics for protein databases. Bioinformatics, 2013, 29, i283-i290.	4.1	53
86	Optimizing a global alignment of protein interaction networks. Bioinformatics, 2013, 29, 2765-2773.	4.1	53
87	Realizing private and practical pharmacological collaboration. Science, 2018, 362, 347-350.	12.6	52
88	Fast genotyping of known SNPs through approximate <i>k</i> -mer matching. Bioinformatics, 2016, 32, i538-i544.	4.1	51
89	Levenshtein Distance, Sequence Comparison and Biological Database Search. IEEE Transactions on Information Theory, 2021, 67, 3287-3294.	2.4	51
90	Minimizer-space de Bruijn graphs: Whole-genome assembly of long reads in minutes on a personal computer. Cell Systems, 2021, 12, 958-968.e6.	6.2	51

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91	A better performance guarantee for approximate graph coloring. Algorithmica, 1990, 5, 459-466.	1.3	49
92	Calibrating the Human Mutation Rate via Ancestral Recombination Density in Diploid Genomes. PLoS Genetics, 2015, 11, e1005550.	3.5	49
93	Generalizable and Scalable Visualization of Single-Cell Data Using Neural Networks. Cell Systems, 2018, 7, 185-191.e4.	6.2	49
94	Integrative analysis of genetic data sets reveals a shared innate immune component in autism spectrum disorder and its co-morbidities. Genome Biology, 2016, 17, 228.	8.8	46
95	Fast Distributed Network Decompositions and Covers. Journal of Parallel and Distributed Computing, 1996, 39, 105-114.	4.1	45
96	Emerging technologies towards enhancing privacy in genomic data sharing. Genome Biology, 2019, 20, 128.	8.8	45
97	"Local Rules―Theory Applied to Polyomavirus Polymorphic Capsid Assemblies. Virology, 2000, 268, 461-470.	2.4	44
98	A computational framework for boosting confidence in high-throughput protein-protein interaction datasets. Genome Biology, 2012, 13, R76.	9.6	44
99	Realizing privacy preserving genome-wide association studies. Bioinformatics, 2016, 32, 1293-1300.	4.1	44
100	Efficient Algorithms for Probing the RNA Mutation Landscape. PLoS Computational Biology, 2008, 4, e1000124.	3.2	38
101	Predicting the Beta-Helix Fold from Protein Sequence Data. Journal of Computational Biology, 2002, 9, 261-276.	1.6	37
102	Structure-based prediction reveals capping motifs that inhibit Â-helix aggregation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11099-11104.	7.1	37
103	An exact arithmetic toolbox for a consistent and reproducible structural analysis of metabolic network models. Nature Communications, 2014, 5, 4893.	12.8	37
104	Predicting transmembrane \hat{l}^2 -barrels and interstrand residue interactions from sequence. Proteins: Structure, Function and Bioinformatics, 2006, 65, 61-74.	2.6	36
105	Large mosaic copy number variations confer autism risk. Nature Neuroscience, 2021, 24, 197-203.	14.8	36
106	Making sense out of massive data by going beyond differential expression. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5594-5599.	7.1	35
107	transFold: a web server for predicting the structure and residue contacts of transmembrane beta-barrels. Nucleic Acids Research, 2006, 34, W189-W193.	14.5	34
108	Compressive mapping for next-generation sequencing. Nature Biotechnology, 2016, 34, 374-376.	17.5	33

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109	A global sampling approach to designing and reengineering RNA secondary structures. Nucleic Acids Research, 2012, 40, 10041-10052.	14.5	32
110	The Fourth Moment Method. SIAM Journal on Computing, 1997, 26, 1188-1207.	1.0	30
111	An Iterative Method for Improved Protein Structural Motif Recognition. Journal of Computational Biology, 1997, 4, 261-273.	1.6	29
112	Algorithms for Protein Structural Motif Recognition. Journal of Computational Biology, 1995, 2, 125-138.	1.6	28
113	Topsy-Turvy: integrating a global view into sequence-based PPI prediction. Bioinformatics, 2022, 38, i264-i272.	4.1	28
114	Markov random fields reveal an N-terminal double beta-propeller motif as part of a bacterial hybrid two-component sensor system. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4069-4074.	7.1	27
115	Modeling ensembles of transmembrane βâ€barrel proteins. Proteins: Structure, Function and Bioinformatics, 2008, 71, 1097-1112.	2.6	26
116	Two-Variance-Component Model Improves Genetic Prediction in Family Datasets. American Journal of Human Genetics, 2015, 97, 677-690.	6.2	26
117	Sequencing a Genome by Walking with Clone-End Sequences: A Mathematical Analysis. Genome Research, 1999, 9, 1163-1174.	5.5	25
118	LOCAL OPTIMIZATION FOR GLOBAL ALIGNMENT OF PROTEIN INTERACTION NETWORKS. , 2009, , 123-132.		25
119	Fold recognition and accurate sequence-structure alignment of sequences directing \hat{l}^2 -sheet proteins. Proteins: Structure, Function and Bioinformatics, 2006, 63, 976-985.	2.6	24
120	Optimal contact map alignment of protein–protein interfaces. Bioinformatics, 2008, 24, 2324-2328.	4.1	24
121	An engineered protein-phosphorylation toggle network with implications for endogenous network discovery. Science, 2021, 373, .	12.6	24
122	Struct2net: integrating structure into protein-protein interaction prediction. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2006, , 403-14.	0.7	24
123	A Dictionary-Based Approach for Gene Annotation. Journal of Computational Biology, 1999, 6, 419-430.	1.6	23
124	GLOBAL ALIGNMENT OF MULTIPLE PROTEIN INTERACTION NETWORKS., 2007,,.		23
125	Genome-wide mapping of somatic mutation rates uncovers drivers of cancer. Nature Biotechnology, 2022, 40, 1634-1643.	17.5	23
126	Schema: metric learning enables interpretable synthesis of heterogeneous single-cell modalities. Genome Biology, 2021, 22, 131.	8.8	22

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127	Metagenomic binning through low-density hashing. Bioinformatics, 2019, 35, 219-226.	4.1	21
128	CryoDRGN2: Ab initio neural reconstruction of 3D protein structures from real cryo-EM images. , 2021, , .		21
129	Traversing the k-mer Landscape of NGS Read Datasets for Quality Score Sparsification. Lecture Notes in Computer Science, 2014, 8394, 385-399.	1.3	20
130	RNAmutants: a web server to explore the mutational landscape of RNA secondary structures. Nucleic Acids Research, 2009, 37, W281-W286.	14.5	19
131	STITCHER: Dynamic assembly of likely amyloid and prion $\hat{l}^2 \hat{a} \in \mathbf{s}$ tructures from secondary structure predictions. Proteins: Structure, Function and Bioinformatics, 2012, 80, 410-420.	2.6	19
132	Tight Bounds for the Maximum Acyclic Subgraph Problem. Journal of Algorithms, 1997, 25, 1-18.	0.9	18
133	Statistical Binning for Barcoded Reads Improves Downstream Analyses. Cell Systems, 2018, 7, 219-226.e5.	6.2	18
134	STRUCT2NET: INTEGRATING STRUCTURE INTO PROTEIN-PROTEIN INTERACTION PREDICTION. , 2005, , .		16
135	Phenotype Prediction Using Regularized Regression on Genetic Data in the DREAM5 Systems Genetics B Challenge. PLoS ONE, 2011, 6, e29095.	2.5	16
136	A Randomized Parallel Algorithm for Efficiently Finding Near-Optimal Universal Hitting Sets. Lecture Notes in Computer Science, 2020, , 37-53.	1.3	16
137	Topological modeling of cascade amorphization in network structures using local rules. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 253, 16-29.	5.6	14
138	TOPAZ: A Positive-Unlabeled Convolutional Neural Network CryoEM Particle Picker that can Pick Any Size and Shape Particle. Microscopy and Microanalysis, 2019, 25, 986-987.	0.4	14
139	Improved haplotype inference by exploiting long-range linking and allelic imbalance in RNA-seq datasets. Nature Communications, 2020, 11 , 4662.	12.8	14
140	Hopper: a mathematically optimal algorithm for sketching biological data. Bioinformatics, 2020, 36, i236-i241.	4.1	14
141	Privacy-Preserving Biomedical Database Queries with Optimal Privacy-Utility Trade-Offs. Cell Systems, 2020, 10, 408-416.e9.	6.2	14
142	Carnelian uncovers hidden functional patterns across diverse study populations from whole metagenome sequencing reads. Genome Biology, 2020, 21, 47.	8.8	14
143	An Evaluation Framework for Lossy Compression of Genome Sequencing Quality Values. , 2016, 2016, 221-230.		13
144	Reconstructing Causal Biological Networks through Active Learning. PLoS ONE, 2016, 11, e0150611.	2.5	13

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145	Seq: a high-performance language for bioinformatics. , 2019, 3, 1-29.		12
146	Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. , 2018, 10812, 245-247.		12
147	Low-diameter graph decomposition is in NC. Random Structures and Algorithms, 1994, 5, 441-452.	1.1	9
148	Reconstruction of phyletic trees by global alignment of multiple metabolic networks. BMC Bioinformatics, 2013, 14, S12.	2.6	9
149	Discovering What Dimensionality Reduction Really Tells Us About RNA-Seq Data. Journal of Computational Biology, 2015, 22, 715-728.	1.6	9
150	A Python-based programming language for high-performance computational genomics. Nature Biotechnology, 2021, 39, 1062-1064.	17.5	9
151	Wrap-and-Pack: A New Paradigm for Beta Structural Motif Recognition with Application to Recognizing Beta Trefoils. Journal of Computational Biology, 2005, 12, 777-795.	1.6	8
152	LTHREADER: Prediction of extracellular ligand–receptor interactions in cytokines using localized threading. Protein Science, 2008, 17, 279-292.	7.6	8
153	One Size Doesn't Fit All: Measuring Individual Privacy in Aggregate Genomic Data., 2015, 2015, 41-49.		8
154	HapTree-X: An Integrative Bayesian Framework for Haplotype Reconstruction from Transcriptome and Genome Sequencing Data. Lecture Notes in Computer Science, 2015, 9029, 28-29.	1.3	8
155	An iterative method for improved protein structural motif recognition. , 1997, , .		7
156	On the Structure of the Scaffolding Core of Bacteriophage T4 and Its Role in Head Length Determination. Journal of Structural Biology, 1998, 121, 285-294.	2.8	7
157	Predicting the \hat{I}^2 -helix fold from protein sequence data. , 2001, , .		7
158	Finding RNA structure in the unstructured RBPome. BMC Genomics, 2018, 19, 154.	2.8	7
159	HIV infection drives interferon signaling within intestinal SARS-CoV-2 target cells. JCI Insight, 2021, 6, .	5.0	7
160	Efficient Traversal of Beta-Sheet Protein Folding Pathways Using Ensemble Models. Journal of Computational Biology, 2011, 18, 1635-1647.	1.6	6
161	Meta-analysis of <i>Caenorhabditis elegans</i> single-cell developmental data reveals multi-frequency oscillation in gene activation. Bioinformatics, 2020, 36, 4047-4057.	4.1	6
162	Efficient Design of Compact Unstructured RNA Libraries Covering All $\langle i \rangle k \langle i \rangle$ -mers. Journal of Computational Biology, 2016, 23, 67-79.	1.6	5

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163	CHAINTWEAK: SAMPLING FROM THE NEIGHBOURHOOD OF A PROTEIN CONFORMATION., 2004,,.		5
164	Protecting Genomic Data Privacy with Probabilistic Modeling., 2018,,.		5
165	Modeling Amorphization of Tetrahedral Structures Using Local Approaches. Materials Research Society Symposia Proceedings, 1996, 439, 633.	0.1	4
166	A sampling framework for incorporating quantitative mass spectrometry data in protein interaction analysis. BMC Bioinformatics, 2013, 14, 299.	2.6	4
167	HapTree: A Novel Bayesian Framework for Single Individual Polyplotyping Using NGS Data. Lecture Notes in Computer Science, 2014, , 18-19.	1.3	4
168	2017 Outstanding Contributions to ISCB Award: Fran Lewitter. F1000Research, 2017, 6, 1000.	1.6	4
169	Modeling Collision Cascade Structure of SiO2, Si3N4 and SiC using Local Topological Approaches. Materials Research Society Symposia Proceedings, 1997, 504, 39.	0.1	3
170	On the Structure of the Scaffolding Core of Bacteriophage T4. Journal of Computational Biology, 1999, 6, 1-12.	1.6	3
171	Message from the ISCB: ISCB Ebola award for important future research on the computational biology of Ebola virus. Bioinformatics, 2015, 31, 616-617.	4.1	3
172	PROBABILISTIC MODELING OF SYSTEMATIC ERRORS IN TWO-HYBRID EXPERIMENTS. , 2006, , .		3
173	Probabilistic modeling of systematic errors in two-hybrid experiments. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2007, , 445-57.	0.7	3
174	Wrap-and-pack., 2004,,.		2
175	Sparse estimation for structural variability. Algorithms for Molecular Biology, 2011, 6, 12.	1.2	2
176	ISCB Ebola Award for Important Future Research on the Computational Biology of Ebola Virus. PLoS Computational Biology, 2015, 11, e1004087.	3.2	2
177	Simultaneous Alignment and Folding of Protein Sequences. Lecture Notes in Computer Science, 2009, , 339-355.	1.3	2
178	A dictionary based approach for gene annotation. , 1999, , .		1
179	ISCB Ebola Award for Important Future Research on the Computational Biology of Ebola Virus. F1000Research, 2015, 4, 12.	1.6	1
180	Research in Computational Molecular Biology. Lecture Notes in Computer Science, 2017, 10229, 389-390.	1.3	1

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181	Bayesian information sharing enhances detection of regulatory associations in rare cell types. Bioinformatics, 2021, 37, i349-i357.	4.1	1
182	Low-Density Locality-Sensitive Hashing Boosts Metagenomic Binning. , 2016, 9649, 255-257.		1
183	Latent Variable Model for Aligning Barcoded Short-Reads Improves Downstream Analyses. , 2018, 10812, 280-282.		1
184	Protecting Genomic Data Privacy with Probabilistic Modeling. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2019, 24, 403-414.	0.7	1
185	Large-Margin Classification in Hyperbolic Space. Proceedings of Machine Learning Research, 2019, 89, 1832-1840.	0.3	1
186	Sequencing a genome by walking with clone-end sequences (abstract)., 2000,,.		0
187	Simultaneous Alignment and Folding of Protein Sequences. Journal of Computational Biology, 2014, 21, 477-491.	1.6	0
188	Message from the ISCB: 2017 ISCB Overton Prize Awarded to Christoph Bock. Bioinformatics, 2017, 33, 2247-2248.	4.1	0
189	Optimized Sequence Library Design for Efficient InÂVitro Interaction Mapping. Cell Systems, 2017, 5, 230-236.e5.	6.2	0
190	Message from the ISCB: 2017 ISCB Innovator Award Given to Aviv Regev. Bioinformatics, 2017, 33, 2243-2244.	4.1	0
191	Message from the ISCB: 2017 ISCB Accomplishment by a Senior Scientist Award Given to Pavel Pevzner. Bioinformatics, 2017, 33, 2245-2246.	4.1	0
192	Message from the ISCB: 2017 Outstanding Contributions to ISCB Award Given to Fran Lewitter. Bioinformatics, 2017, 33, 2249-2250.	4.1	0
193	2017 ISCB Accomplishment by a Senior Scientist Award given to Pavel Pevzner. PLoS Computational Biology, 2017, 13, e1005561.	3.2	0
194	Joker de Bruijn: Covering k-Mers Using Joker Characters. Journal of Computational Biology, 2018, 25, 1171-1178.	1.6	0
195	LTHREADER: PREDICTION OF LIGAND-RECEPTOR INTERACTIONS USING LOCALIZED THREADING., 2006,,.		0
196	Novel Perspectives on Protein Structure Prediction. , 2010, , 179-207.		0
197	Sparse Estimation for Structural Variability. Lecture Notes in Computer Science, 2010, , 13-27.	1.3	0
198	Efficient Traversal of Beta-Sheet Protein Folding Pathways Using Ensemble Models. Lecture Notes in Computer Science, 2011, , 408-423.	1.3	0

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199	Metabolic Network Analysis Demystified. Lecture Notes in Computer Science, 2011, , 31-33.	1.3	O
200	Efficient Design of Compact Unstructured RNA Libraries Covering All k-mers. Lecture Notes in Computer Science, 2015, , 308-325.	1.3	0
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