

Sagi Snir

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,632
citations

361413

20
h-index

345221

36
g-index

69
all docs

69
docs citations

69
times ranked

1452
citing authors

#	ARTICLE	IF	CITATIONS
1	Defense Islands in Bacterial and Archaeal Genomes and Prediction of Novel Defense Systems. <i>Journal of Bacteriology</i> , 2011, 193, 6039-6056.	2.2	358
2	Maximum likelihood of phylogenetic networks. <i>Bioinformatics</i> , 2006, 22, 2604-2611.	4.1	112
3	Quartet MaxCut: A fast algorithm for amalgamating quartet trees. <i>Molecular Phylogenetics and Evolution</i> , 2012, 62, 1-8.	2.7	85
4	Inferring Phylogenetic Networks by the Maximum Parsimony Criterion: A Case Study. <i>Molecular Biology and Evolution</i> , 2006, 24, 324-337.	8.9	74
5	Quartets MaxCut: A Divide and Conquer Quartets Algorithm. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2010, 7, 704-718.	3.0	73
6	Detecting Horizontal Gene Transfer between Closely Related Taxa. <i>PLoS Computational Biology</i> , 2015, 11, e1004408.	3.2	60
7	Weighted Quartets Phylogenetics. <i>Systematic Biology</i> , 2015, 64, 233-242.	5.6	50
8	Human epigenetic ageing is logarithmic with time across the entire lifespan. <i>Epigenetics</i> , 2019, 14, 912-926.	2.7	47
9	Efficient parsimony-based methods for phylogenetic network reconstruction. <i>Bioinformatics</i> , 2007, 23, e123-e128.	4.1	46
10	Molecular Clock Fork Phylogenies: Closed Form Analytic Maximum Likelihood Solutions. <i>Systematic Biology</i> , 2004, 53, 963-967.	5.6	44
11	Convex recolorings of strings and trees: Definitions, hardness results and algorithms. <i>Journal of Computer and System Sciences</i> , 2008, 74, 850-869.	1.2	42
12	Universal Pacemaker of Genome Evolution. <i>PLoS Computational Biology</i> , 2012, 8, e1002785.	3.2	41
13	Is Evolution of Blind Mole Rats Determined by Climate Oscillations?. <i>PLoS ONE</i> , 2012, 7, e30043.	2.5	40
14	Maximum Likelihood Jukes-Cantor Triplets: Analytic Solutions. <i>Molecular Biology and Evolution</i> , 2006, 23, 626-632.	8.9	39
15	Efficient approximation of convex recolorings. <i>Journal of Computer and System Sciences</i> , 2007, 73, 1078-1089.	1.2	39
16	Stability along with Extreme Variability in Core Genome Evolution. <i>Genome Biology and Evolution</i> , 2013, 5, 1393-1402.	2.5	38
17	Using Max Cut to Enhance Rooted Trees Consistency. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2006, 3, 323-333.	3.0	37
18	Short Quartet Puzzling: A New Quartet-Based Phylogeny Reconstruction Algorithm. <i>Journal of Computational Biology</i> , 2008, 15, 91-103.	1.6	33

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19	Recovering the Treelike Trend of Evolution Despite Extensive Lateral Genetic Transfer: A Probabilistic Analysis. <i>Journal of Computational Biology</i> , 2013, 20, 93-112.	1.6	31
20	A Statistical Framework to Identify Deviation from Time Linearity in Epigenetic Aging. <i>PLoS Computational Biology</i> , 2016, 12, e1005183.	3.2	24
21	Hibernation slows epigenetic ageing in yellow-bellied marmots. <i>Nature Ecology and Evolution</i> , 2022, 6, 418-426.	7.8	23
22	Phylo SI: a new genome-wide approach for prokaryotic phylogeny. <i>Nucleic Acids Research</i> , 2014, 42, 2391-2404.	14.5	22
23	Universal Pacemaker of Genome Evolution in Animals and Fungi and Variation of Evolutionary Rates in Diverse Organisms. <i>Genome Biology and Evolution</i> , 2014, 6, 1268-1278.	2.5	21
24	Detecting horizontal gene transfer: a probabilistic approach. <i>BMC Genomics</i> , 2020, 21, 106.	2.8	20
25	The Epigenetic Pacemaker: modeling epigenetic states under an evolutionary framework. <i>Bioinformatics</i> , 2020, 36, 4662-4663.	4.1	19
26	Scorpion speciation in the Holy Land: Multilocus phylogeography corroborates diagnostic differences in morphology and burrowing behavior among <i>Scorpio</i> subspecies and justifies recognition as phylogenetic, ecological and biological species. <i>Molecular Phylogenetics and Evolution</i> , 2015, 91, 226-237.	2.7	18
27	An epigenetic pacemaker is detected via a fast conditional expectation maximization algorithm. <i>Epigenomics</i> , 2018, 10, 695-706.	2.1	14
28	Triplet MaxCut: a new toolkit for rooted supertree. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1359-1365.	5.2	13
29	Fast and reliable reconstruction of phylogenetic trees with indistinguishable edges. <i>Random Structures and Algorithms</i> , 2012, 40, 350-384.	1.1	12
30	Multi-SpaM TM : a maximum-likelihood approach to phylogeny reconstruction using multiple spaced-word matches and quartet trees. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqz013.	3.2	12
31	A New Phylogenomic Approach For Quantifying Horizontal Gene Transfer Trends in Prokaryotes. <i>Scientific Reports</i> , 2020, 10, 12425.	3.3	10
32	Recovering the Tree-Like Trend of Evolution Despite Extensive Lateral Genetic Transfer: A Probabilistic Analysis. <i>Lecture Notes in Computer Science</i> , 2012, , 224-238.	1.3	10
33	Phylogenetic Profiling of Insertions and Deletions in Vertebrate Genomes. <i>Lecture Notes in Computer Science</i> , 2006, , 265-280.	1.3	9
34	Reconstructing Approximate Phylogenetic Trees from Quartet Samples. <i>SIAM Journal on Computing</i> , 2012, 41, 1466-1480.	1.0	8
35	On the number of genomic pacemakers: a geometric approach. <i>Algorithms for Molecular Biology</i> , 2014, 9, 26.	1.2	8
36	Synteny footprints provide clearer phylogenetic signal than sequence data for prokaryotic classification. <i>Molecular Phylogenetics and Evolution</i> , 2019, 136, 128-137.	2.7	8

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37	Maximum Likelihood Molecular Clock Comb: Analytic Solutions. <i>Journal of Computational Biology</i> , 2006, 13, 819-837.	1.6	7
38	Hadamard Conjugation for the Kimura 3ST Model: Combinatorial Proof Using Path Sets. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2008, 5, 461-471.	3.0	5
39	Tracing the Most Parsimonious Indel History. <i>Journal of Computational Biology</i> , 2011, 18, 967-986.	1.6	5
40	Gene Gene Interactions Detection Using a Two-stage Model. <i>Journal of Computational Biology</i> , 2015, 22, 563-576.	1.6	5
41	The Performance of Two Supertree Schemes Compared Using Synthetic and Real Data Quartet Input. <i>Journal of Molecular Evolution</i> , 2018, 86, 150-165.	1.8	5
42	Horizontal Gene Transfer Phylogenetics: A Random Walk Approach. <i>Molecular Biology and Evolution</i> , 2020, 37, 1470-1479.	8.9	5
43	Multi-SpaM: A Maximum-Likelihood Approach to Phylogeny Reconstruction Using Multiple Spaced-Word Matches and Quartet Trees. <i>Lecture Notes in Computer Science</i> , 2018, , 227-241.	1.3	5
44	Reconstructing approximate phylogenetic trees from quartet samples. , 2010, , .		5
45	Analytic solutions of maximum likelihood on forks of four taxa. <i>Mathematical Biosciences</i> , 2007, 208, 347-358.	1.9	4
46	A Linear Time Approximation Scheme for Maximum Quartet Consistency on Sparse Sampled Inputs. <i>SIAM Journal on Discrete Mathematics</i> , 2011, 25, 1722-1736.	0.8	4
47	On the Compatibility of Quartet Trees. <i>SIAM Journal on Discrete Mathematics</i> , 2014, 28, 1493-1507.	0.8	4
48	Inference of mutability landscapes of tumors from single cell sequencing data. <i>PLoS Computational Biology</i> , 2020, 16, e1008454.	3.2	4
49	Analysis of Point Mutations in Vertebrate Genomes. , 2005, , 375-386.		3
50	INCORPORATING HOMOLOGUES INTO SEQUENCE EMBEDDINGS FOR PROTEIN ANALYSIS. <i>Journal of Bioinformatics and Computational Biology</i> , 2007, 05, 717-738.	0.8	3
51	THE NET-HMM APPROACH: PHYLOGENETIC NETWORK INFERENCE BY COMBINING MAXIMUM LIKELIHOOD AND HIDDEN MARKOV MODELS. <i>Journal of Bioinformatics and Computational Biology</i> , 2009, 07, 625-644.	0.8	3
52	A phylogenomic study quantifies competing mechanisms for pseudogenization in prokaryotes The <i>Mycobacterium leprae</i> case. <i>PLoS ONE</i> , 2018, 13, e0204322.	2.5	3
53	The effects of age, sex, weight, and breed on canid methylomes. <i>Epigenetics</i> , 2022, 17, 1497-1512.	2.7	3
54	Structural relatedness via flow networks in protein sequence space. <i>Journal of Theoretical Biology</i> , 2009, 260, 438-444.	1.7	2

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55	A Novel Technique for Detecting Putative Horizontal Gene Transfer in the Sequence Space. <i>Journal of Computational Biology</i> , 2010, 17, 1535-1548.	1.6	2
56	Convex recoloring as an evolutionary marker. <i>Molecular Phylogenetics and Evolution</i> , 2017, 107, 209-220.	2.7	2
57	Toxic genes present a unique phylogenetic signature. <i>Molecular Phylogenetics and Evolution</i> , 2017, 116, 141-148.	2.7	2
58	Prokaryotic evolutionary mechanisms accelerate learning. <i>Discrete Applied Mathematics</i> , 2019, 258, 222-234.	0.9	2
59	Lateral Transfer: A Survey and New Developments. <i>Israel Journal of Ecology and Evolution</i> , 2006, 52, 443-459.	0.6	1
60	Restricting SBH ambiguity via restriction enzymes. <i>Discrete Applied Mathematics</i> , 2007, 155, 857-867.	0.9	1
61	Ordered orthology as a tool in prokaryotic evolutionary inference. <i>Mobile Genetic Elements</i> , 2016, 6, e1120576.	1.8	1
62	Reconstruction of real and simulated phylogenies based on quartet plurality inference. <i>BMC Genomics</i> , 2018, 19, 570.	2.8	1
63	Bounds on Identification of Genome Evolution Pacemakers. <i>Journal of Computational Biology</i> , 2019, 26, 806-821.	1.6	1
64	A New Quartet-Based Statistical Method for Comparing Sets of Gene Trees Is Developed Using a Generalized Hoeffding Inequality. <i>Journal of Computational Biology</i> , 2019, 26, 27-37.	1.6	1
65	Extending the Evolvability Model to the Prokaryotic World: Simulations and Results on Real Data. <i>Journal of Computational Biology</i> , 2019, 26, 794-805.	1.6	1
66	Epigenetic pacemaker: closed form algebraic solutions. <i>BMC Genomics</i> , 2020, 21, 257.	2.8	1
67	On the quartet distance given partial information. <i>Journal of Graph Theory</i> , 0, , .	0.9	0