

Max A Alekseyev

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

23,713
citations

516215

16
h-index

214527

47
g-index

69
all docs

69
docs citations

69
times ranked

30862
citing authors

#	ARTICLE	IF	CITATIONS
1	SPAdes: A New Genome Assembly Algorithm and Its Applications to Single-Cell Sequencing. <i>Journal of Computational Biology</i> , 2012, 19, 455-477.	0.8	20,193
2	Assembling Single-Cell Genomes and Mini-Metagenomes From Chimeric MDA Products. <i>Journal of Computational Biology</i> , 2013, 20, 714-737.	0.8	1,235
3	Highly evolvable malaria vectors: The genomes of 16 <i>Anopheles</i> mosquitoes. <i>Science</i> , 2015, 347, 1258522.	6.0	492
4	Assembling Genomes and Mini-metagenomes from Highly Chimeric Reads. <i>Lecture Notes in Computer Science</i> , 2013, , 158-170.	1.0	439
5	BayesHammer: Bayesian clustering for error correction in single-cell sequencing. <i>BMC Genomics</i> , 2013, 14, S7.	1.2	429
6	Evolutionary superscaffolding and chromosome anchoring to improve <i>Anopheles</i> genome assemblies. <i>BMC Biology</i> , 2020, 18, 1.	1.7	177
7	Splicing graphs and EST assembly problem. <i>Bioinformatics</i> , 2002, 18, S181-S188.	1.8	172
8	Breakpoint graphs and ancestral genome reconstructions. <i>Genome Research</i> , 2009, 19, 943-957.	2.4	111
9	Reconstruction of Ancestral Genomes in Presence of Gene Gain and Loss. <i>Journal of Computational Biology</i> , 2016, 23, 150-164.	0.8	58
10	Multi-break rearrangements and chromosomal evolution. <i>Theoretical Computer Science</i> , 2008, 395, 193-202.	0.5	55
11	Are There Rearrangement Hotspots in the Human Genome?. <i>PLoS Computational Biology</i> , 2007, 3, e209.	1.5	36
12	Colored de Bruijn Graphs and the Genome Halving Problem. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2007, 4, 98-107.	1.9	31
13	Multi-Break Rearrangements and Breakpoint Re-Uses: From Circular to Linear Genomes. <i>Journal of Computational Biology</i> , 2008, 15, 1117-1131.	0.8	25
14	Comparative genomics reveals birth and death of fragile regions in mammalian evolution. <i>Genome Biology</i> , 2010, 11, R117.	13.9	23
15	Phylogenetic analysis of genome rearrangements among five mammalian orders. <i>Molecular Phylogenetics and Evolution</i> , 2012, 65, 871-882.	1.2	23
16	Whole Genome Duplications and Contracted Breakpoint Graphs. <i>SIAM Journal on Computing</i> , 2007, 36, 1748-1763.	0.8	18
17	Pathset Graphs: A Novel Approach for Comprehensive Utilization of Paired Reads in Genome Assembly. <i>Journal of Computational Biology</i> , 2013, 20, 359-371.	0.8	14
18	TRAIL-Based High Throughput Screening Reveals a Link between TRAIL-Mediated Apoptosis and Glutathione Reductase, a Key Component of Oxidative Stress Response. <i>PLoS ONE</i> , 2015, 10, e0129566.	1.1	13

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19	Scaffold assembly based on genome rearrangement analysis. Computational Biology and Chemistry, 2015, 57, 46-53.	1.1	12
20	Chromosome-level genome assemblies of the malaria vectors <i>Anopheles coluzzii</i> and <i>Anopheles arabiensis</i> . GigaScience, 2021, 10, .	3.3	12
21	On Approximation of Groups, Group Actions, and Hopf Algebras. Journal of Mathematical Sciences, 2001, 107, 4305-4332.	0.1	11
22	CAMSA: a tool for comparative analysis and merging of scaffold assemblies. BMC Bioinformatics, 2017, 18, 496.	1.2	11
23	Decoding Synteny Blocks and Large-Scale Duplications in Mammalian and Plant Genomes. Lecture Notes in Computer Science, 2009, , 220-232.	1.0	9
24	Transcriptome sequencing based annotation and homologous evidence based scaffolding of <i>Anguilla japonica</i> draft genome. BMC Genomics, 2016, 17, 13.	1.2	9
25	A Computational Method for the Rate Estimation of Evolutionary Transpositions. Lecture Notes in Computer Science, 2015, , 471-480.	1.0	8
26	Estimation of the true evolutionary distance under the fragile breakage model. BMC Genomics, 2017, 18, 356.	1.2	8
27	On the Intersections of Fibonacci, Pell, and Lucas Numbers. Integers, 2011, 11, .	0.3	7
28	On the Minimal Teaching Sets of Two-Dimensional Threshold Functions. SIAM Journal on Discrete Mathematics, 2015, 29, 157-165.	0.4	7
29	A unified ILP framework for core ancestral genome reconstruction problems. Bioinformatics, 2020, 36, 2993-3003.	1.8	6
30	On the Number of Two-Dimensional Threshold Functions. SIAM Journal on Discrete Mathematics, 2010, 24, 1617-1631.	0.4	5
31	Comparative genomics meets topology: a novel view on genome median and halving problems. BMC Bioinformatics, 2016, 17, 418.	1.2	5
32	On pairwise distances and median score of three genomes under DCJ. BMC Bioinformatics, 2012, 13, S1.	1.2	4
33	Linearization of Median Genomes Under the Double-Cut-and-Join-Indel Model. Evolutionary Bioinformatics, 2019, 15, 117693431882053.	0.6	4
34	A Unified ILP Framework for Genome Median, Halving, and Aliquoting Problems Under DCJ. Lecture Notes in Computer Science, 2017, , 156-178.	1.0	4
35	Pathset Graphs: A Novel Approach for Comprehensive Utilization of Paired Reads in Genome Assembly. Lecture Notes in Computer Science, 2012, , 200-212.	1.0	3
36	Estimation of the true evolutionary distance under the fragile breakage model. , 2015, , .		3

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37	Generalized Hultman Numbers and Cycle Structures of Breakpoint Graphs. <i>Journal of Computational Biology</i> , 2017, 24, 93-105.	0.8	3
38	Linearization of Median Genomes under DCJ. <i>Lecture Notes in Computer Science</i> , 2014, , 97-106.	1.0	2
39	Implicit Transpositions in DCJ Scenarios. <i>Frontiers in Genetics</i> , 2017, 8, 212.	1.1	2
40	Combinatorial Scoring of Phylogenetic Trees and Networks Based on Homoplasy-Free Characters. <i>Journal of Computational Biology</i> , 2018, 25, 1203-1219.	0.8	2
41	Decoding the Genomic Architecture of Mammalian and Plant Genomes: Synteny Blocks and Large-scale Duplications. <i>Communications in Information and Systems</i> , 2010, 10, 1-22.	0.3	2
42	Linearization of Ancestral Genomes with Duplicated Genes. , 2020, , .		2
43	5. Solving the Tower of Hanoi with Random Moves. , 2016, , 65-80.		1
44	On p-Adic Approximation of Sums of Binomial Coefficients. <i>Journal of Mathematical Sciences</i> , 2018, 233, 626-634.	0.1	1
45	Combinatorial Scoring of Phylogenetic Networks. <i>Lecture Notes in Computer Science</i> , 2016, , 560-572.	1.0	1
46	Genome Halving Problem Revisited. <i>Lecture Notes in Computer Science</i> , 2004, , 1-15.	1.0	1
47	ON PARTITIONS INTO SQUARES OF DISTINCT INTEGERS WHOSE RECIPROCAL SUM TO 1. , 2019, , 213-221.		1
48	Multi-break Rearrangements: From Circular to Linear Genomes. <i>Lecture Notes in Computer Science</i> , 2007, , 1-15.	1.0	0
49	CAMSA: A tool for comparative analysis and merging of scaffold assemblies. , 2016, , .		0
50	On problem of orienting ordered scaffolds. , 2017, , .		0
51	10. Making Walks Count: From Silent Circles to Hamiltonian Cycles. , 2018, , 157-168.		0
52	Implicit Transpositions in DCJ Scenarios. , 2018, , .		0
53	A Rapid Exact Solution for the Guided Genome Halving Problem. , 2018, , .		0
54	A Uniform Theory of Adequate Subgraphs for the Genome Median, Halving, and Aliquoting Problems. <i>Lecture Notes in Computer Science</i> , 2019, , 97-111.	1.0	0

#	ARTICLE	IF	CITATIONS
55	Computing solutions to the congruence $1n+2n+\hat{\kappa}+nn\hat{\%}ip(\text{mod}n)$. Discrete Applied Mathematics, 2020, 286, 3-9.	0.5	0
56	Limited Lifespan of Fragile Regions in Mammalian Evolution. Lecture Notes in Computer Science, 2010, , 198-215.	1.0	0
57	Generalized Hultman Numbers and the Distribution of Multi-break Distances. Lecture Notes in Computer Science, 2015, , 3-12.	1.0	0
58	Solving the Tower of Hanoi with Random Moves. , 2015, , .		0
59	MAKING WALKS COUNT:. , 0, , 157-168.		0
60	Orienting Ordered Scaffolds: Complexity and Algorithms. SN Computer Science, 2022, 3, .	2.3	0