

Jeremy Buhler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11263517/publications.pdf>

Version: 2024-02-01

26
papers

1,148
citations

759233

12
h-index

940533

16
g-index

38
all docs

38
docs citations

38
times ranked

1116
citing authors

#	ARTICLE	IF	CITATIONS
1	Finding Motifs Using Random Projections. <i>Journal of Computational Biology</i> , 2002, 9, 225-242.	1.6	366
2	A Course-Based Research Experience: How Benefits Change with Increased Investment in Instructional Time. <i>CBE Life Sciences Education</i> , 2014, 13, 111-130.	2.3	142
3	<i>Drosophila</i> Muller F Elements Maintain a Distinct Set of Genomic Properties Over 40 Million Years of Evolution. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 719-740.	1.8	84
4	Mercury BLASTP. <i>ACM Transactions on Reconfigurable Technology and Systems</i> , 2008, 1, 1-44.	2.5	68
5	Designing seeds for similarity search in genomic DNA. <i>Journal of Computer and System Sciences</i> , 2005, 70, 342-363.	1.2	64
6	A Central Support System Can Facilitate Implementation and Sustainability of a Classroom-Based Undergraduate Research Experience (CURE) in Genomics. <i>CBE Life Sciences Education</i> , 2014, 13, 711-723.	2.3	63
7	Comparison of dot chromosome sequences from <i>D. melanogaster</i> and <i>D. virilis</i> reveals an enrichment of DNA transposon sequences in heterochromatic domains. <i>Genome Biology</i> , 2006, 7, R15.	8.8	50
8	Designing Multiple Simultaneous Seeds for DNA Similarity Search. <i>Journal of Computational Biology</i> , 2005, 12, 847-861.	1.6	46
9	Evolution of a Distinct Genomic Domain in <i>Drosophila</i> : Comparative Analysis of the Dot Chromosome in <i>Drosophila melanogaster</i> and <i>Drosophila virilis</i> . <i>Genetics</i> , 2010, 185, 1519-1534.	2.9	34
10	Biosequence Similarity Search on the Mercury System. <i>Journal of Signal Processing Systems</i> , 2007, 49, 101-121.	1.0	27
11	Accelerating Nussinov RNA secondary structure prediction with systolic arrays on FPGAs. , 2008, , .		27
12	Auto-Pipe: Streaming Applications on Architecturally Diverse Systems. <i>Computer</i> , 2010, 43, 42-49.	1.1	27
13	Designing multiple simultaneous seeds for DNA similarity search. , 2004, , .		26
14	A Banded Smith-Waterman FPGA Accelerator for Mercury BLASTP. , 2007, , .		26
15	FPGA-accelerated seed generation in Mercury BLASTP. , 2007, , .		21
16	Facilitating Growth through Frustration: Using Genomics Research in a Course-Based Undergraduate Research Experience. <i>Journal of Microbiology and Biology Education</i> , 2020, 21, .	1.0	19
17	Acceleration of ungapped extension in Mercury BLAST. <i>Microprocessors and Microsystems</i> , 2009, 33, 281-289.	2.8	18
18	Provably Sensitive Indexing Strategies for Biosequence Similarity Search. <i>Journal of Computational Biology</i> , 2003, 10, 399-417.	1.6	10

#	ARTICLE	IF	CITATIONS
19	Deadlock-avoidance for streaming applications with split-join structure: Two case studies. , 2010, , .		8
20	Adding data parallelism to streaming pipelines for throughput optimization. , 2013, , .		5
21	Student Attitudes Contribute to the Effectiveness of a Genomics CURE. Journal of Microbiology and Biology Education, 2022, 23, .	1.0	5
22	Polyhedral Constraints for Bounded-Memory Execution of Synchronized Filtering Dataflow. , 2013, , .		4
23	DESIGNING SECONDARY STRUCTURE PROFILES FOR FAST NCRNA IDENTIFICATION. , 2008, , .		3
24	Orchestrating safe streaming computations with precise control. , 2014, , .		2
25	Generating High Fidelity Sequence for the Drosophila Virilis Dot Chromosome. FASEB Journal, 2006, 20, A469.	0.5	0
26	The Importance of Research in the Undergraduate Curriculum: Explorations in Genomics. FASEB Journal, 2007, 21, A42.	0.5	0