Jan Manuch

List of Publications by Year
in descending order

32 papers	246 citations	1039880 9 h-index	1058333 14 g-index
33 all docs	33 docs citations	33 times ranked	174 citing authors

#	Article	IF	Citations
1	Two Lower Bounds for Self-Assemblies at Temperature 1. Journal of Computational Biology, 2010, 17, 841-852.	0.8	27
2	Structure-Approximating Inverse Protein Folding Problem in the 2D HP Model. Journal of Computational Biology, 2005, 12, 1328-1345.	0.8	26
3	Linearization of ancestral multichromosomal genomes. BMC Bioinformatics, 2012, 13, S11.	1.2	23
4	Less haste, less waste: on recycling and its limits in strand displacement systems. Interface Focus, 2012, 2, 512-521.	1.5	22
5	NP-completeness of the energy barrier problem without pseudoknots and temporary arcs. Natural Computing, 2011, 10, 391-405.	1.8	11
6	Combinatorial RNA Design: Designability and Structure-Approximating Algorithm in Watsonâ€“Crick and Nussinovâ€“Jacobson Energy Models. Algorithmica, 2017, 79, 835-856.	1.0	11
7	Approximate majority analyses using tri-molecular chemical reaction networks. Natural Computing, 2020, 19, 249-270.	1.8	11
8	On Æ'-wise Arc Forwarding Index and Wavelength Allocations in Faulty All-optical Hypercubes. RAIRO - Theoretical Informatics and Applications, 2003, 37, 255-270.	0.5	10
9	Consistency of Sequence-Based Gene Clusters. Journal of Computational Biology, 2011, 18, 1023-1039.	0.8	9
10	Fault tolerant forwarding and optical indexes: A design theory approach. Journal of Combinatorial Designs, 2006, 14, 25-40.	0.3	8
11	CHARACTERIZATION OF THE EXISTENCE OF GALLED-TREE NETWORKS. Journal of Bioinformatics and Computational Biology, 2006, 04, 1309-1328.	0.3	7
12	Simplifying Analyses of Chemical Reaction Networks for Approximate Majority. Lecture Notes in Computer Science, 2017, , 188-209.	1.0	7
13	Haplotype inferring via galled-tree networks using a hypergraph covering problem for special genotype matrices. Discrete Applied Mathematics, 2009, 157, 2310-2324.	0.5	6
14	On the Gapped Consecutive-Ones Property. Electronic Notes in Discrete Mathematics, 2009, 34, 121-125.	0.4	6
15	Stable Structure-Approximating Inverse Protein Folding in 2D Hydrophobic-Polar-Cysteine (HPC) Model. Journal of Computational Biology, 2009, 16, 19-30.	0.8	6
16	Step-wise tile assembly with a constant number of tile types. Natural Computing, 2012, 11, 535-550.	1.8	6
17	NP-Completeness of the Direct Energy Barrier Problem without Pseudoknots. Lecture Notes in Computer Science, 2009, , 106-115.	1.0	6
18	The Complexity of the Gapped Consecutive-Ones Property Problem for Matrices of Bounded Maximum Degree. Journal of Computational Biology, 2011, 18, 1243-1253.	0.8	5

#	Article	IF	Citations
19	Inverse Protein Folding in 3D Hexagonal Prism Lattice under HPC Model. Journal of Computational Biology, 2009, 16, 769-802.	0.8	4
20	Reachability bounds for chemical reaction networks and strand displacement systems. Natural Computing, 2014, 13, 499-516.	1.8	4
21	Haplotype Inferring Via Galled-Tree Networks Is NP-Complete. Lecture Notes in Computer Science, 2008, , 287-298.	1.0	4
22	Less Haste, Less Waste: On Recycling and Its Limits in Strand Displacement Systems. Lecture Notes in Computer Science, 2011, , 84-99.	1.0	4
23	Weak Coverage of a Rectangular Barrier. Algorithmica, 2020, 82, 721-746.	1.0	3
24	Combinatorial RNA Design: Designability and Structure-Approximating Algorithm. Lecture Notes in Computer Science, 2015, , 231-246.	1.0	3
25	Algorithm for Haplotype Inferring Via Galled-Tree Networks with Simple Galls. , 2007, , 121-132.		3
26	Haplotype Inferring via Galled-Tree Networks Is NP-Complete. Journal of Computational Biology, 2010, 17, 1435-1449.	0.8	2
27	Algorithm for Haplotype Inference via Galled-Tree Networks with Simple Galls. Journal of Computational Biology, 2012, 19, 439-454.	0.8	2
28	Design of nucleic acid strands with long low-barrier folding pathways. Natural Computing, 2017, 16, 261-284.	1.8	1
29	The Complexity of the Gapped Consecutive-Ones Property Problem for Matrices of Bounded Maximum Degree. Lecture Notes in Computer Science, 2010, , 278-289.	1.0	1
30	A Robust Class of Stable Proteins in the 2D HPC Model. Communications in Computer and Information Science, 2008, , 180-192.	0.4	1
31	CHARACTERIZATION OF THE EXISTENCE OF GALLED-TREE NETWORKS (EXTENDED ABSTRACT). , 2005, , .		0
32	Protein designs in HP models. , 2009, , .		0