Wang Zhaocai

List of Publications by Year
in descending order

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Version: 2024-02-01

38 papers	370 citations	759055 12 h-index	839398 18 g-index
38 all docs	38 docs citations	38 times ranked	110 citing authors

#	Article	IF	Citations
1	A Hybrid Model for Water Quality Prediction Based on an Artificial Neural Network, Wavelet Transform, and Long Short-Term Memory. Water (Switzerland), 2022, 14, 610.	1.2	73
2	A novel bio-heuristic computing algorithm to solve the capacitated vehicle routing problem based on Adlemanâ€“Lipton model. BioSystems, 2019, 184, 103997.	0.9	25
3	Solving the Family Traveling Salesperson Problem in the Adlemanâ€“Lipton Model Based on DNA Computing. IEEE Transactions on Nanobioscience, 2022, 21, 75-85.	2.2	23
4	Solving traveling salesman problem in the Adlemanâ€“Lipton model. Applied Mathematics and Computation, 2012, 219, 2267-2270.	1.4	22
5	Multi-objective optimal allocation of regional water resources based on slime mould algorithm. Journal of Supercomputing, 2022, 78, 18288-18317.	2.4	22
6	Prediction and analysis of domestic water consumption based on optimized grey and Markov model. Water Science and Technology: Water Supply, 2021, 21, 3887-3899.	1.0	20
7	A new parallel DNA algorithm to solve the task scheduling problem based on inspired computational model. BioSystems, 2017, 162, 59-65.	0.9	17
8	Study of optimal allocation of water resources in Dujiangyan irrigation district of China based on an improved genetic algorithm. Water Science and Technology: Water Supply, 2021, 21, 2989-2999.	1.0	17
9	A new fast algorithm for solving the minimum spanning tree problem based on DNA molecules computation. BioSystems, 2013, 114, 1-7.	0.9	16
10	A biological algorithm to solve the assignment problem based on DNA molecules computation. Applied Mathematics and Computation, 2014, 244, 183-190.	1.4	14
11	A DNA procedure for solving the shortest path problem. Applied Mathematics and Computation, 2006, 183, 79-84.	1.4	13
12	Prediction and analysis of water resources demand in Taiyuan City based on principal component analysis and BP neural network. Journal of Water Supply: Research and Technology - AQUA, 2021, 70, 1272-1286.	0.6	13
13	A Parallel Biological Optimization Algorithm to Solve the Unbalanced Assignment Problem Based on DNA Molecular Computing. International Journal of Molecular Sciences, 2015, 16, 25338-25352.	1.8	12
14	A parallel algorithm for solving the n-queens problem based on inspired computational model. BioSystems, 2015, 131, 22-29.	0.9	11
15	Parallel DNA Algorithms of Generalized Traveling Salesman Problem-Based Bioinspired Computing Model. International Journal of Computational Intelligence Systems, 2021, 14, 228.	1.6	11
16	A combined model based on sparrow search optimized BP neural network and Markov chain for precipitation prediction in Zhengzhou City, China. Journal of Water Supply: Research and Technology - AQUA, 2022, 71, 782-800.	0.6	9
17	A new parallel algorithm to solve one classic water resources optimal allocation problem based on inspired computational model. , 0, 160, 214-218.		7
18	A bio-inspired algorithm for a classical water resources allocation problem based on Adleman-Lipton model. , 0, 185, 168-174.		7

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19	A Parallel Bioinspired Algorithm for Chinese Postman Problem Based on Molecular Computing. Computational Intelligence and Neuroscience, 2021, 2021, 1-13.	1.1	6
20	A New Biologically DNA Computational Algorithm to Solve the <I>k</I>-Vertex Cover Problem. Journal of Computational and Theoretical Nanoscience, 2015, 12, 524-526.	0.4	5
21	A parallel biological computing algorithm to solve the vertex coloring problem with polynomial time complexity. Journal of Intelligent and Fuzzy Systems, 2021, 40, 3957-3967.	0.8	4
22	Research on water resources optimal scheduling problem based on parallel biological computing. , 0, 111, 88-93.		4
23	Solving the Minimum Vertex Cover Problem with DNA Molecules in Adleman-Lipton Model. Journal of Computational and Theoretical Nanoscience, 2014, 11, 521-523.	0.4	3
24	Solving the 0-1 knapsack problem based on a parallel intelligent molecular computing model system. Journal of Intelligent and Fuzzy Systems, 2017, 33, 2719-2726.	0.8	3
25	Fast parallel algorithm to the minimum edge cover problem based on DNA molecular computation. Applied Mathematics and Information Sciences, 2013, 7, 711-716.	0.7	3
26	A Biological Computing Algorithm to Solve K-Closure Problem. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1818-1820.	0.4	2
27	Solving the maximal matching problem with DNA molecules in Adlemanâ€“Lipton model. International Journal of Biomathematics, 2016, 09, 1650019.	1.5	2
28	Solving the Maximum Independent Set Problem based on Molecule Parallel Supercomputing. Applied Mathematics and Information Sciences, 2014, 8, 2361-2366.	0.7	2
29	A Biological Algorithm to Solve the Maximum Complete Subgraph Problem Based on Adleman-Lipton Model. Journal of Computational and Theoretical Nanoscience, 2014, 11, 2310-2312.	0.4	1
30	Algorithm of Solving the Maximum Edges Independent Set Problem Based on DNA Molecules Computation. Journal of Computational and Theoretical Nanoscience, 2014, 11, 961-963.	0.4	1
31	Solving the Maximum Weighted Clique Problem Based on Parallel Biological Computing Model. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	1
32	A New Algorithm to Solve the Maximal Connected Subgraph Problem Based on Parallel Molecular Computing. Journal of Computational and Theoretical Nanoscience, 2016, 13, 7692-7695.	0.4	1
33	A New Algorithm for Set Splitting Problem Based DNA Molecules Computation. Journal of Computational and Theoretical Nanoscience, 2014, 11, 899-900.	0.4	0
34	Solving the Maximum Weight Vertex Independent Problem with DNA Molecules in Adleman-Lipton Model. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1940-1943.	0.4	0
35	A New Parallel Computing Algorithm to Get the Cubic Subgraph for a Simple Graph. Journal of Computational and Theoretical Nanoscience, 2015, 12, 3006-3008.	0.4	0
36	Solving the Longest Path Problem Using a Biologically DNA Computational Model. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1096-1099.	0.4	0

#	Article	IF	Citations
37	A Biological Computing Algorithm to Seek the Maximum Degree of Vertices in a Simple Undirected Graph. Journal of Computational and Theoretical Nanoscience, 2015, 12, 3464-3467.	0.4	0
38	A Parallel Computational Algorithm for Solving the Maximum k-Vertex Weighted Clique Problem. Journal of Computational and Theoretical Nanoscience, 2015, 12, 6002-6005.	0.4	0