Bin Wang

List of Publications by Year
in descending order

65 papers	825 citations	535685 17 h-index	620720 26 g-index
65 all docs	65 docs citations	65 times ranked	592 citing authors

#	Article	IF	Citations
1	Designing Uncorrelated Address Constrain for DNA Storage by DMVO Algorithm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 866-877.	1.9	43
2	Enhancing Physical and Thermodynamic Properties of DNA Storage Sets With End-Constraint. IEEE Transactions on Nanobioscience, 2022, 21, 184-193.	2.2	19
3	Design of Constraint Coding Sets for Archive DNA Storage. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 3384-3394.	1.9	25
4	Deep Image Watermarking to JPEG Compression Based on Mixed-Frequency Channel Attention. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-12.	0.7	3
5	Development of a neuron model based on DNAzyme regulation. RSC Advances, 2021, 11, 9985-9994.	1.7	3
6	Minimum Free Energy Coding for DNA Storage. IEEE Transactions on Nanobioscience, 2021, 20, 212-222.	2.2	34
7	CLGBO: An Algorithm for Constructing Highly Robust Coding Sets for DNA Storage. Frontiers in Genetics, 2021, 12, 644945.	1.1	14
8	Stable DNA Sequence Over Close-Ending and Pairing Sequences Constraint. Frontiers in Genetics, 2021, 12, 644484.	1.1	7
9	Image Encryption Scheme Based on Multiscale Block Compressed Sensing and Markov Model. Entropy, 2021, 23, 1297.	1.1	10
10	Tabu Variable Neighborhood Search for Designing DNA Barcodes. IEEE Transactions on Nanobioscience, 2020, 19, 127-131.	2.2	21
11	Forecasting stock prices with long-short term memory neural network based on attention mechanism. PLoS ONE, 2020, 15, e0227222.	1.1	161
12	Designing logic gates based on 3-way DNAzyme complex. Analytical Methods, 2020, 12, 693-700.	1.3	3
13	A molecular device: A DNA molecular lock driven by the nicking enzymes. Computational and Structural Biotechnology Journal, 2020, 18, 2107-2116.	1.9	24
14	Constraining DNA Sequences With a Triplet-Bases Unpaired. IEEE Transactions on Nanobioscience, 2020, 19, 299-307.	2.2	26
15	An Intelligent Optimization Algorithm for Constructing a DNA Storage Code: NOL-HHO. International Journal of Molecular Sciences, 2020, 21, 2191.	1.8	33
16	Modelling and analysis of haemoglobin catalytic reaction kinetic system. Mathematical and Computer Modelling of Dynamical Systems, 2020, 26, 306-321.	1.4	4
17	DNA circuits driven by conformational changes in DNAzyme recognition arms. RSC Advances, 2020, 10, 7956-7966.	1.7	4
18	DNA logic circuits based on FokI enzyme regulation. New Journal of Chemistry, 2020, 44, 1931-1941.	1.4	7

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19	K-Means Multi-Verse Optimizer (KMVO) Algorithm to Construct DNA Storage Codes. IEEE Access, 2020, 8, 29547-29556.	2.6	21
20	A BPSON Algorithm Applied to DNA Codes Design. IEEE Access, 2019, 7, 88811-88821.	2.6	9
21	The Distance-Based Balancing Ensemble Method for Data With a High Imbalance Ratio. IEEE Access, 2019, 7, 68940-68956.	2.6	14
22	Constructing Controllable Logic Circuits Based on DNAzyme Activity. Molecules, 2019, 24, 4134.	1.7	6
23	Half adder and half subtractor logic gates based on nicking enzymes. Molecular Systems Design and Engineering, 2019, 4, 1103-1113.	1.7	14
24	A Dynamic Decision-Making Method Based on Ensemble Methods for Complex Unbalanced Data. Lecture Notes in Computer Science, 2019, , 359-372.	1.0	3
25	An improved stochastic fractal search algorithm for 3D protein structure prediction. Journal of Molecular Modeling, 2018, 24, 125.	0.8	13
26	Constructing DNA Barcode Sets Based on Particle Swarm Optimization. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 999-1002.	1.9	21
27	Hybrid Invasive Weed Optimization and GA for Multiple Sequence Alignment. Communications in Computer and Information Science, 2018, , 72-82.	0.4	1
28	RNA Sequences Similarities Analysis by Cross-Correlation Function. Communications in Computer and Information Science, 2018, , 83-94.	0.4	0
29	An Improved Iterated Hybrid Search for DNA Codes Design. , 2018, , .		2
30	Correcting Errors in Image Encryption Based on DNA Coding. Molecules, 2018, 23, 1878.	1.7	20
31	IWO Algorithm Based on Niche Crowding for DNA Sequence Design. Interdisciplinary Sciences, Computational Life Sciences, 2017, 9, 341-349.	2.2	13
32	DNA Code Design Based on the Bloch Quantum Chaos Algorithm. IEEE Access, 2017, 5, 22453-22461.	2.6	10
33	Reversible Data Hiding Based on DNA Computing. Computational Intelligence and Neuroscience, 2017, 2017, 1-9.	1.1	12
34	An Image Encryption Scheme Based on DNA Computing and Cellular Automata. Discrete Dynamics in Nature and Society, 2016, 2016, 1-9.	0.5	8
35	Parallel DNA Arithmetic Operation With One Error Detection Based on 3-Moduli Set. IEEE Transactions on Nanobioscience, 2016, 15, 499-507.	2.2	20
36	Splicing Model and Hyperâ€"Chaotic System for Image Encryption. Journal of Electrical Engineering, 2016, 67, 78-86.	0.4	14

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37	Evaluating the permutation and diffusion operations used in image encryption based on chaotic maps. Optik, 2016, 127, 3541-3545.	1.4	29
38	Encryption method based on a new secret key algorithm for color images. AEU - International Journal of Electronics and Communications, 2016, 70, 1-7.	1.7	16
39	3D Protein Structure Prediction with BSA-TS Algorithm. Lecture Notes in Computer Science, 2016, , 437-450.	1.0	2
40	An Image Cryptosystem Based on DNA Self-Assembly. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1852-1857.	0.4	0
41	Reversible Integer Wavelet Transform for the Joint of Image Encryption and Watermarking. Mathematical Problems in Engineering, 2015, 2015, 1-11.	0.6	2
42	A Method of Motif Mining Based on Backtracking and Dynamic Programming. Lecture Notes in Computer Science, 2015, , 317-328.	1.0	1
43	Image watermarking using chaotic map and DNA coding. Optik, 2015, 126, 4846-4851.	1.4	19
44	Improved Lower Bounds of DNA Tags Based on a Modified Genetic Algorithm. PLoS ONE, 2015, 10, e0110640.	1.1	9
45	RNA Sequences Similarities Analysis by Inner Products. Lecture Notes in Computer Science, 2015, , 329-339.	1.0	1
46	A Combining Dimensionality Reduction Approach for Cancer Classification. Lecture Notes in Computer Science, 2015, , 340-347.	1.0	0
47	A Novel and Fast Chaotic Cryptosystem for Image Encryption. Journal of Computational and Theoretical Nanoscience, 2014, 11, 731-738.	0.4	2
48	DNA Sequence Set Design by Improved Genetic Algorithm. Journal of Computational and Theoretical Nanoscience, 2014, 11, 739-743.	0.4	0
49	Digital watermarking based on chaos game representation and discrete cosine transform. , 2014, , .		3
50	Encrypting the compressed image by chaotic map and arithmetic coding. Optik, 2014, 125, 6117-6122.	1.4	19
51	Image Encryption based on Chaotic Map and Reversible Integer Wavelet Transform. Journal of Electrical Engineering, 2014, 65, 90-96.	0.4	9
52	Study and Application of DNA Cellular Automata Self-assembly. Communications in Computer and Information Science, 2014, , 654-658.	0.4	0
53	An Improved Genetic Algorithm for DNA Motif Discovery with Gibbs Sampling Algorithm. Journal of Bionanoscience, 2014, 8, 219-225.	0.4	0
54	Cryptanalysis of an image cryptosystem based on logistic map. Optik, 2013, 124, 1773-1776.	1.4	30

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55	A Hybrid Algorithm for Protein Structure Prediction. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2701-2707.	0.4	1
56	A Novel Constraint for Thermodynamically Designing DNA Sequences. PLoS ONE, 2013, 8, e72180.	1.1	6
57	Research of DNA Sequences Sets Based on the Improved Genetic Algorithm. Journal of Computational and Theoretical Nanoscience, 2012, 9, 969-973.	0.4	0
58	Improving the Lower Bounds of DNA Encoding with Combinational Constraints. Journal of Computational and Theoretical Nanoscience, 2012, 9, 50-54.	0.4	1
59	An Improved Genetic Algorithm for Design of DNA Sequence Sets. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1159-1164.	0.4	1
60	Improved Lower Bounds for DNA Coding. Journal of Computational and Theoretical Nanoscience, 2010, 7, 638-641.	0.4	1
61	Designing DNA Sequences Satisfing Combinational Constraints. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1120-1126.	0.4	0
62	DNA Word Set Design Based on Minimum Free Energy. IEEE Transactions on Nanobioscience, 2010, 9, 273-277.	2.2	16
63	Genetic Algorithm-Based Design for DNA Sequences Sets. Jisuanji Xuebao/Chinese Journal of Computers, 2009, 31, 2193-2199.	0.3	4
64	Design of DNA Sequence Based on Improved Genetic Algorithm. Lecture Notes in Computer Science, 2008, , 9-14.	1.0	1
65	Hidden Addressing Encoding for DNA Storage. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	10