Bin Wang

List of Publications by Year
in descending order

65	825	471509	552781
papers	citations	17	26
		h-index	g-index

65	65	65	529
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Forecasting stock prices with long-short term memory neural network based on attention mechanism. PLoS ONE, 2020, 15, e0227222.	2.5	161
2	Designing Uncorrelated Address Constrain for DNA Storage by DMVO Algorithm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 866-877.	3.0	43
3	Minimum Free Energy Coding for DNA Storage. IEEE Transactions on Nanobioscience, 2021, 20, 212-222.	3.3	34
4	An Intelligent Optimization Algorithm for Constructing a DNA Storage Code: NOL-HHO. International Journal of Molecular Sciences, 2020, 21, 2191.	4.1	33
5	Cryptanalysis of an image cryptosystem based on logistic map. Optik, 2013, 124, 1773-1776.	2.9	30
6	Evaluating the permutation and diffusion operations used in image encryption based on chaotic maps. Optik, 2016, 127, 3541-3545.	2.9	29
7	Constraining DNA Sequences With a Triplet-Bases Unpaired. IEEE Transactions on Nanobioscience, 2020, 19, 299-307.	3.3	26
8	Design of Constraint Coding Sets for Archive DNA Storage. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 3384-3394.	3.0	25
9	A molecular device: A DNA molecular lock driven by the nicking enzymes. Computational and Structural Biotechnology Journal, 2020, 18, 2107-2116.	4.1	24
10	Constructing DNA Barcode Sets Based on Particle Swarm Optimization. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 999-1002.	3.0	21
11	Tabu Variable Neighborhood Search for Designing DNA Barcodes. IEEE Transactions on Nanobioscience, 2020, 19, 127-131.	3.3	21
12	K-Means Multi-Verse Optimizer (KMVO) Algorithm to Construct DNA Storage Codes. IEEE Access, 2020, 8, 29547-29556.	4.2	21
13	Parallel DNA Arithmetic Operation With One Error Detection Based on 3-Moduli Set. IEEE Transactions on Nanobioscience, 2016, 15, 499-507.	3.3	20
14	Correcting Errors in Image Encryption Based on DNA Coding. Molecules, 2018, 23, 1878.	3.8	20
15	Encrypting the compressed image by chaotic map and arithmetic coding. Optik, 2014, 125, 6117-6122.	2.9	19
16	Image watermarking using chaotic map and DNA coding. Optik, 2015, 126, 4846-4851.	2.9	19
17	Enhancing Physical and Thermodynamic Properties of DNA Storage Sets With End-Constraint. IEEE Transactions on Nanobioscience, 2022, 21, 184-193.	3.3	19
18	DNA Word Set Design Based on Minimum Free Energy. IEEE Transactions on Nanobioscience, 2010, 9, 273-277.	3.3	16

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19	Encryption method based on a new secret key algorithm for color images. AEU - International Journal of Electronics and Communications, 2016, 70, 1-7.	2.9	16
20	Splicing Model and Hyperâ€"Chaotic System for Image Encryption. Journal of Electrical Engineering, 2016, 67, 78-86.	0.7	14
21	The Distance-Based Balancing Ensemble Method for Data With a High Imbalance Ratio. IEEE Access, 2019, 7, 68940-68956.	4.2	14
22	Half adder and half subtractor logic gates based on nicking enzymes. Molecular Systems Design and Engineering, 2019, 4, 1103-1113.	3.4	14
23	CLGBO: An Algorithm for Constructing Highly Robust Coding Sets for DNA Storage. Frontiers in Genetics, 2021, 12, 644945.	2.3	14
24	IWO Algorithm Based on Niche Crowding for DNA Sequence Design. Interdisciplinary Sciences, Computational Life Sciences, 2017, 9, 341-349.	3.6	13
25	An improved stochastic fractal search algorithm for 3D protein structure prediction. Journal of Molecular Modeling, 2018, 24, 125.	1.8	13
26	Reversible Data Hiding Based on DNA Computing. Computational Intelligence and Neuroscience, 2017, 2017, 1-9.	1.7	12
27	DNA Code Design Based on the Bloch Quantum Chaos Algorithm. IEEE Access, 2017, 5, 22453-22461.	4.2	10
28	Image Encryption Scheme Based on Multiscale Block Compressed Sensing and Markov Model. Entropy, 2021, 23, 1297.	2.2	10
29	Hidden Addressing Encoding for DNA Storage. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	10
30	Image Encryption based on Chaotic Map and Reversible Integer Wavelet Transform. Journal of Electrical Engineering, 2014, 65, 90-96.	0.7	9
31	A BPSON Algorithm Applied to DNA Codes Design. IEEE Access, 2019, 7, 88811-88821.	4.2	9
32	Improved Lower Bounds of DNA Tags Based on a Modified Genetic Algorithm. PLoS ONE, 2015, 10, e0110640.	2.5	9
33	An Image Encryption Scheme Based on DNA Computing and Cellular Automata. Discrete Dynamics in Nature and Society, 2016, 2016, 1-9.	0.9	8
34	DNA logic circuits based on FokI enzyme regulation. New Journal of Chemistry, 2020, 44, 1931-1941.	2.8	7
35	Stable DNA Sequence Over Close-Ending and Pairing Sequences Constraint. Frontiers in Genetics, 2021, 12, 644484.	2.3	7
36	A Novel Constraint for Thermodynamically Designing DNA Sequences. PLoS ONE, 2013, 8, e72180.	2.5	6

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37	Constructing Controllable Logic Circuits Based on DNAzyme Activity. Molecules, 2019, 24, 4134.	3.8	6
38	Modelling and analysis of haemoglobin catalytic reaction kinetic system. Mathematical and Computer Modelling of Dynamical Systems, 2020, 26, 306-321.	2.2	4
39	DNA circuits driven by conformational changes in DNAzyme recognition arms. RSC Advances, 2020, 10, 7956-7966.	3.6	4
40	Genetic Algorithm-Based Design for DNA Sequences Sets. Jisuanji Xuebao/Chinese Journal of Computers, 2009, 31, 2193-2199.	0.3	4
41	Digital watermarking based on chaos game representation and discrete cosine transform. , 2014, , .		3
42	Designing logic gates based on 3-way DNAzyme complex. Analytical Methods, 2020, 12, 693-700.	2.7	3
43	Development of a neuron model based on DNAzyme regulation. RSC Advances, 2021, 11, 9985-9994.	3.6	3
44	A Dynamic Decision-Making Method Based on Ensemble Methods for Complex Unbalanced Data. Lecture Notes in Computer Science, 2019, , 359-372.	1.3	3
45	Deep Image Watermarking to JPEG Compression Based on Mixed-Frequency Channel Attention. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-12.	1.3	3
46	A Novel and Fast Chaotic Cryptosystem for Image Encryption. Journal of Computational and Theoretical Nanoscience, 2014, 11, 731-738.	0.4	2
47	Reversible Integer Wavelet Transform for the Joint of Image Encryption and Watermarking. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	2
48	An Improved Iterated Hybrid Search for DNA Codes Design. , 2018, , .		2
49	3D Protein Structure Prediction with BSA-TS Algorithm. Lecture Notes in Computer Science, 2016, , 437-450.	1.3	2
50	An Improved Genetic Algorithm for Design of DNA Sequence Sets. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1159-1164.	0.4	1
51	Improved Lower Bounds for DNA Coding. Journal of Computational and Theoretical Nanoscience, 2010, 7, 638-641.	0.4	1
52	Improving the Lower Bounds of DNA Encoding with Combinational Constraints. Journal of Computational and Theoretical Nanoscience, 2012, 9, 50-54.	0.4	1
53	A Hybrid Algorithm for Protein Structure Prediction. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2701-2707.	0.4	1
54	A Method of Motif Mining Based on Backtracking and Dynamic Programming. Lecture Notes in Computer Science, 2015, , 317-328.	1.3	1

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55	Hybrid Invasive Weed Optimization and GA for Multiple Sequence Alignment. Communications in Computer and Information Science, 2018, , 72-82.	0.5	1
56	Design of DNA Sequence Based on Improved Genetic Algorithm. Lecture Notes in Computer Science, 2008, , 9-14.	1.3	1
57	RNA Sequences Similarities Analysis by Inner Products. Lecture Notes in Computer Science, 2015, , 329-339.	1.3	1
58	Designing DNA Sequences Satisfing Combinational Constraints. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1120-1126.	0.4	0
59	Research of DNA Sequences Sets Based on the Improved Genetic Algorithm. Journal of Computational and Theoretical Nanoscience, 2012, 9, 969-973.	0.4	0
60	DNA Sequence Set Design by Improved Genetic Algorithm. Journal of Computational and Theoretical Nanoscience, 2014, 11, 739-743.	0.4	0
61	An Image Cryptosystem Based on DNA Self-Assembly. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1852-1857.	0.4	0
62	RNA Sequences Similarities Analysis by Cross-Correlation Function. Communications in Computer and Information Science, 2018, , 83-94.	0.5	0
63	Study and Application of DNA Cellular Automata Self-assembly. Communications in Computer and Information Science, 2014, , 654-658.	0.5	0
64	An Improved Genetic Algorithm for DNA Motif Discovery with Gibbs Sampling Algorithm. Journal of Bionanoscience, 2014, 8, 219-225.	0.4	0
65	A Combining Dimensionality Reduction Approach for Cancer Classification. Lecture Notes in Computer Science, 2015, , 340-347.	1.3	0