

# Xuncaï Zhang

## List of Publications by Year in descending order

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84  
papers

883  
citations

516681

16  
h-index

552766

26  
g-index

85  
all docs

85  
docs citations

85  
times ranked

754  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel 3D Chaotic System With Line Equilibrium: Multistability, Integral Sliding Mode Control, Electronic Circuit, FPGA Implementation and Its Image Encryption. IEEE Access, 2022, 10, 68057-68074.	4.2	47
2	A Novel Image Encryption Algorithm Based on Chaotic Sequences and Cross-Diffusion of Bits. IEEE Photonics Journal, 2021, 13, 1-15.	2.0	13
3	A Novel Chaotic Image Encryption Algorithm Based on Latin Square and Random Shift. Computational Intelligence and Neuroscience, 2021, 2021, 1-13.	1.7	5
4	A Knowledge Graph Entity Disambiguation Method Based on Entity-Relationship Embedding and Graph Structure Embedding. Computational Intelligence and Neuroscience, 2021, 2021, 1-11.	1.7	5
5	An Image Encryption Algorithm Based on Hyperchaotic System and Variable-Step Josephus Problem. International Journal of Optics, 2020, 2020, 1-15.	1.4	17
6	Improved Harris Hawks Optimization Based on Adaptive Cooperative Foraging and Dispersed Foraging Strategies. IEEE Access, 2020, 8, 160297-160314.	4.2	19
7	An Effective Image Encryption Method Based on Space Filling Curve and Plaintext-Related Josephus Traversal. IEEE Access, 2020, 8, 196326-196340.	4.2	2
8	An Improved Squirrel Search Algorithm With Reproductive Behavior. IEEE Access, 2020, 8, 101118-101132.	4.2	19
9	An image encryption approach based on chaotic maps and genetic operations. Multimedia Tools and Applications, 2020, 79, 25613-25633.	3.9	47
10	A Novel Plaintext-Related Image Encryption Scheme Based on Chaotic System and Pixel Permutation. IEEE Access, 2020, 8, 22082-22093.	4.2	23
11	Review on DNA Cryptography. Communications in Computer and Information Science, 2020, , 134-148.	0.5	7
12	Image Encryption Algorithm Based on Block Scrambling and Finite State Machine. IEEE Access, 2020, 8, 225831-225844.	4.2	1
13	Image Encryption Algorithm Based on the H-Fractal and Dynamic Self-Invertible Matrix. Computational Intelligence and Neuroscience, 2019, 2019, 1-12.	1.7	13
14	Entropy-Based Block Scrambling Image Encryption Using DES Structure and Chaotic Systems. International Journal of Optics, 2019, 2019, 1-13.	1.4	19
15	A Chaos-Based Image Encryption Technique Utilizing Hilbert Curves and H-Fractals. IEEE Access, 2019, 7, 74734-74746.	4.2	61
16	An Improved Non-dominated Sorting Genetic Algorithm-II (INSGA-II) applied to the design of DNA codewords. Mathematics and Computers in Simulation, 2018, 151, 131-139.	4.4	24
17	An Image Encryption Algorithm Based on Chaotic System Using DNA Sequence Operations. Communications in Computer and Information Science, 2018, , 213-225.	0.5	0
18	An Image Encryption Method Based on the Feistel Network and Dynamic DNA Encoding. IEEE Photonics Journal, 2018, 10, 1-14.	2.0	53

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19	A Visual Cryptography Scheme-Based DNA Microarrays. , 2018, , .		6
20	A New Image Encryption Algorithm Based on DNA Dynamic Encoding and Hyper-Chaotic System. Communications in Computer and Information Science, 2017, , 286-303.	0.5	8
21	Chaotic Image Encryption Algorithm Based on Bit Permutation and Dynamic DNA Encoding. Computational Intelligence and Neuroscience, 2017, 2017, 1-11.	1.7	42
22	Fluorescence Resonance Energy Transfer-Based Photonic Circuits Using Single-Stranded Tile Self-Assembly and DNA Strand Displacement. Journal of Nanoscience and Nanotechnology, 2017, 17, 1053-1060.	0.9	11
23	Image Encryption Algorithm Based on Hyperchaotic Maps and Nucleotide Sequences Database. Computational Intelligence and Neuroscience, 2017, 2017, 1-9.	1.7	21
24	A Circuit Simplification Mechanism Based on DNA Combinatorial Strands Displacement. Communications in Computer and Information Science, 2017, , 304-319.	0.5	0
25	Design and Analysis of Complement Circuit by Using DNA Strand Displacement Reaction. Communications in Computer and Information Science, 2017, , 405-419.	0.5	0
26	A Hybrid Multi-Objective Particle Swarm Optimization Algorithm Based on Lévy Flights. Journal of Computational and Theoretical Nanoscience, 2017, 14, 3323-3329.	0.4	1
27	A Hybrid IWO Algorithm Based on Lévy Flight. Communications in Computer and Information Science, 2016, , 141-150.	0.5	0
28	Logic Gate Based on Circular DNA Structure with Strand Displacement. Communications in Computer and Information Science, 2016, , 39-46.	0.5	0
29	Generalised mathematical model of memristor. IET Circuits, Devices and Systems, 2016, 10, 244-249.	1.4	17
30	Improved Chaos Multi-Objective Particle Swarm Optimization. Journal of Computational and Theoretical Nanoscience, 2016, 13, 3659-3666.	0.4	1
31	A Novel Multi-Objective Particle Swarm Optimization Algorithm Based on Invasive Weed Optimization. Journal of Computational and Theoretical Nanoscience, 2016, 13, 3902-3908.	0.4	3
32	The Model of Signal Response and Monitoring in Cascade Self-Assembly Process. Journal of Computational and Theoretical Nanoscience, 2016, 13, 3964-3967.	0.4	0
33	Reconfigurable DNA Nano-Tweezer for the Construction of Logic Circuits. Journal of Computational and Theoretical Nanoscience, 2016, 13, 3953-3958.	0.4	0
34	Fluorescence Resonance Energy Transfer-Based Multifunctional Photonic Circuits on a Linear DNA Scaffold. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 607-614.	0.5	0
35	Design of Logic Circuits Based on Combinatorial Displacement of DNA Strands. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1161-1164.	0.4	8
36	An Improved Encryption Scheme Based on DNA Sequence. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1368-1372.	0.4	1

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37	Adaptive generalized hybrid function projective dislocated synchronization of new four-dimensional uncertain chaotic systems. Applied Mathematics and Computation, 2015, 252, 304-314.	2.2	11
38	Controllable DNA Nano-Tweezer Technique Based on the Combinatorial Strand Displacement. Communications in Computer and Information Science, 2015, , 676-682.	0.5	0
39	Versatile Archimedean Tilings Self-Assembled from Combined Symmetric DNA Motifs. Communications in Computer and Information Science, 2015, , 75-83.	0.5	0
40	Area of Pinched Hysteresis Loops for Current-Controlled Memristor and Voltage-Controlled Memristor. Journal of Computational and Theoretical Nanoscience, 2015, 12, 4335-4339.	0.4	0
41	An Image Encryption Algorithm Based on DNA Microarray. Journal of Computational and Theoretical Nanoscience, 2015, 12, 5486-5491.	0.4	0
42	Modified projective and modified function projective synchronization of a class of real nonlinear systems and a class of complex nonlinear systems. Nonlinear Dynamics, 2014, 78, 1755-1764.	5.2	31
43	Implementation of the Timetable Problem Using Self-assembly of DNA Tiles. International Journal of Computers, Communications and Control, 2014, 5, 490.	1.8	2
44	Arithmetic Computation Using Self-Assembly of DNA Tiles: Subtraction in the Method of Complements. Journal of Computational and Theoretical Nanoscience, 2013, 10, 306-312.	0.4	0
45	A New Attempt for Satisfiability Problem: 3D DNA Self-Assembly to Solve SAT Problem. Advances in Intelligent Systems and Computing, 2013, , 891-899.	0.6	1
46	Design of DNA Sequences for Stable DNA Tile. Journal of Bionanoscience, 2013, 7, 265-270.	0.4	1
47	Fabrication of Logic Circuits Based on DNA Origami. Journal of Computational and Theoretical Nanoscience, 2012, 9, 1680-1685.	0.4	3
48	3D DNA self-assembly for the maximum clique problem. , 2012, , .		1
49	Solving graph vertex coloring problem with microfluidic DNA computer. , 2012, , .		1
50	Solving minimum vertex cover problems with microfluidic DNA computer. , 2011, , .		1
51	Construction of Logic Gate Based on Multi-channel Carbon Nanotube Field-Effect Transistors. , 2011, , .		1
52	Tuning of Auto-Disturbance Rejection Controller Based on the Invasive Weed Optimization. , 2011, , .		9
53	Application of 3D DNA Self-Assembly for Graph Coloring Problem. Journal of Computational and Theoretical Nanoscience, 2011, 8, 2042-2049.	0.4	1
54	Half Adder and Half Subtractor Operations by DNA Self-Assembly. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1288-1295.	0.4	5

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55	Solving River Crossing Puzzle in the DNA Tile Self-Assembly Model. Journal of Computational and Theoretical Nanoscience, 2011, 8, 579-585.	0.4	0
56	Solving Maximum Clique Problems with Microfluidic DNA Computer. , 2011, , .		0
57	Three Dimensional DNA Self-Assembly Model for the Minimum Vertex Cover Problem. , 2011, , .		1
58	DNA Computing in Microreactors: A Solution to the Minimum Vertex Cover Problem. , 2011, , .		0
59	DNA Self-Assembly for the Minimum Vertex Cover Problem. Advanced Science Letters, 2011, 4, 74-79.	0.2	4
60	Full Adder and Full Subtractor Operations by DNA Self-Assembly. Advanced Science Letters, 2011, 4, 383-390.	0.2	12
61	DNA Implementation of Program Structure. Advanced Science Letters, 2011, 4, 3458-3463.	0.2	0
62	An Efficient Genetic Algorithm Based on the Cultural Algorithm Applied to DNA Codewords Design. Journal of Computational and Theoretical Nanoscience, 2010, 7, 813-819.	0.4	1
63	Application of DNA Self-Assembly on 0-1 Integer Programming Problem. Journal of Computational and Theoretical Nanoscience, 2010, 7, 165-172.	0.4	1
64	3D DNA Self-Assembly Model for Graph Vertex Coloring. Journal of Computational and Theoretical Nanoscience, 2010, 7, 246-253.	0.4	8
65	Research on Invasive Weed Optimization Based on the Cultural Framework. Journal of Computational and Theoretical Nanoscience, 2010, 7, 820-825.	0.4	0
66	DNA Codewords Design Using Ant Colony Optimization Algorithm. , 2010, , .		0
67	DNA tile assembly model for 0&#x2013;1 knapsack problem. , 2010, , .		1
68	A modified invasive weed optimization with crossover operation. , 2010, , .		5
69	Basic Logical Operations Using Algorithmic Self-Assembly of DNA Molecules. Journal of Nanoelectronics and Optoelectronics, 2010, 5, 30-37.	0.5	1
70	Arithmetic computation using self-assembly of DNA tiles: subtraction and division. Progress in Natural Science: Materials International, 2009, 19, 377-388.	4.4	15
71	Application of a novel IWO to the design of encoding sequences for DNA computing. Computers and Mathematics With Applications, 2009, 57, 2001-2008.	2.7	82
72	Solving the 0&#x2013;1 multi-objective knapsack problem using self-assembly of DNA tiles. , 2009, , .		2

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73	DNA codewords design using the improved NSGA-II algorithms. , 2009, , .		9
74	Deterministic algorithm for the reordering problem using tile assembly. , 2009, , .		0
75	Algorithm of Solving the Subset-Product Problem Based on DNA Tile Self-Assembly. Journal of Computational and Theoretical Nanoscience, 2009, 6, 1161-1169.	0.4	4
76	Application of DNA Self-Assembly on Graph Coloring Problem. Journal of Computational and Theoretical Nanoscience, 2009, 6, 1067-1074.	0.4	1
77	Application of DNA Computing by Self-assembly on 0-1 Knapsack Problem. Lecture Notes in Computer Science, 2009, , 684-693.	1.3	3
78	Modified PSO algorithm for solving planar graph coloring problem. Progress in Natural Science: Materials International, 2008, 18, 353-357.	4.4	43
79	An improved shuffled frog leaping algorithm with cognitive behavior. , 2008, , .		30
80	Research on Invasive Weed Optimization based on the cultural framework. , 2008, , .		1
81	An encryption scheme using DNA technology. , 2008, , .		75
82	A new approach based on PSO algorithm to find good computational encoding sequences. Progress in Natural Science: Materials International, 2007, 17, 712-716.	4.4	19
83	DNA-Based Efficient Evaluation of the S-Boxes' Resistance to Differential Cryptanalysis. Journal of Computational and Theoretical Nanoscience, 2007, 4, 1263-1268.	0.4	0
84	Analysis of Biological Data with Digital Signal Processing. , 2005, , .		3