Qiang Zhang

List of Publications by Year
in descending order

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70	1,053	361413	501196
papers	citations	20 h-index	28 g-index

72	72	72	714
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Near Optimal Charging Schedule for 3-D Wireless Rechargeable Sensor Networks. IEEE Transactions on Mobile Computing, 2023, 22, 3525-3540.	5.8	10
2	Graph Optimized Data Offloading for Crowd-AI Hybrid Urban Tracking in Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 1075-1087.	8.0	7
3	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
4	Adaptive kernel selection network with attention constraint for surgical instrument classification. Neural Computing and Applications, 2022, 34, 1577-1591.	5.6	3
5	Exploring Dense Context for Salient Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1378-1389.	8.3	27
6	Enhancing Physical and Thermodynamic Properties of DNA Storage Sets With End-Constraint. IEEE Transactions on Nanobioscience, 2022, 21, 184-193.	3.3	19
7	Trading off Charging and Sensing for Stochastic Events Monitoring in WRSNs. IEEE/ACM Transactions on Networking, 2022, 30, 557-571.	3.8	24
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	DNA Tile Self-assembly Driven by Antibody-mediated Four-way Branch Migration. Analyst, The, 2022, , .	3.5	2
10	A novel strategy for programmable DNA tile self-assembly with a DNAzyme-mediated DNA cross circuit. New Journal of Chemistry, 2022, 46, 6775-6782.	2.8	0
11	High-order local connection network for 3D human pose estimation based on GCN. Applied Intelligence, 2022, 52, 15690-15702.	5.3	2
12	Molecular device design based on chemical reaction networks: state feedback controller, static pre-filter, addition gate control system and full-dimensional state observer. Journal of Mathematical Chemistry, 2022, 60, 915-935.	1.5	7
13	A meta-inspired termite queen algorithm for global optimization and engineering design problems. Engineering Applications of Artificial Intelligence, 2022, 111, 104805.	8.1	20
14	A nonlinear neural network based on an analog DNA toehold mediated strand displacement reaction circuit. Nanoscale, 2022, 14, 6585-6599.	5.6	13
15	Chemical Reaction Networksâ€™ Programming for Solving Equations. Current Issues in Molecular Biology, 2022, 44, 1725-1739.	2.4	0
16	Adaptive coding for DNA storage with high storage density and low coverage. Npj Systems Biology and Applications, 2022, 8, .	3.0	26
17	Compilation of a Coupled Hyper-Chaotic Lorenz System Based on DNA Strand Displacement Reaction Network. IEEE Transactions on Nanobioscience, 2021, 20, 92-104.	3.3	15
18	(n â˜’ 2)-Fault-Tolerant Edge-Pancyclicity of Crossed Cubes CQn. International Journal of Foundations of Computer Science, 2021, 32, 289-304.	1.1	1

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19	Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. IEEE Internet of Things Journal, 2021, 8, 15863-15874.	8.7	23
20	Synchronization of hyper-Lorenz system based on DNA strand Displacement. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.	3.0	6
21	AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT. IEEE Internet of Things Journal, 2021, 8, 5264-5273.	8.7	27
22	Minimum Free Energy Coding for DNA Storage. IEEE Transactions on Nanobioscience, 2021, 20, 212-222.	3.3	34
23	Encryption Algorithm Based on DNA Strand Displacement and DNA Sequence Operation. IEEE Transactions on Nanobioscience, 2021, 20, 223-234.	3.3	16
24	Local-aware spatio-temporal attention network with multi-stage feature fusion for human action recognition. Neural Computing and Applications, 2021, 33, 16439-16450.	5.6	9
25	DNA Strand Displacement Reactions to Accomplish a Two-Degree-of-Freedom PID Controller and Its Application in Subtraction Gate. IEEE Transactions on Nanobioscience, 2021, 20, 554-564.	3.3	19
26	Implementing Feedforward Neural Network Using DNA Strand Displacement Reactions. Nano, 2021, 16, 2150001.	1.0	7
27	Analysis of Periodic Solution of DNA Catalytic Reaction Model With Random Disturbance. IEEE Open Journal of Nanotechnology, 2021, 2, 140-147.	2.0	3
28	Constructing DNA logic circuits based on the toehold preemption mechanism. RSC Advances, 2021, 12, 338-345.	3.6	4
29	Using entropy-driven amplifier circuit response to build nonlinear model under the influence of LÃ©vy jump. BMC Bioinformatics, 2021, 22, 437.	2.6	4
30	CrowdBox: Crowdsourced Network-in-Box Recruitment for Edge Computing-Enabled Industrial Internet of Things. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	1.2	0
31	Tabu Variable Neighborhood Search for Designing DNA Barcodes. IEEE Transactions on Nanobioscience, 2020, 19, 127-131.	3.3	21
32	Designing logic gates based on 3-way DNAzyme complex. Analytical Methods, 2020, 12, 693-700.	2.7	3
33	Multi-sensor fusion for body sensor network in medical humanâ€“robot interaction scenario. Information Fusion, 2020, 57, 15-26.	19.1	67
34	A DNAzyme-mediated logic gate system based on Ag(i)â€“cysteine. Analyst, The, 2020, 145, 6572-6578.	3.5	3
35	Constraining DNA Sequences With a Triplet-Bases Unpaired. IEEE Transactions on Nanobioscience, 2020, 19, 299-307.	3.3	26
36	Modelling and analysis of haemoglobin catalytic reaction kinetic system. Mathematical and Computer Modelling of Dynamical Systems, 2020, 26, 306-321.	2.2	4

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37	DNA logic circuits based on FokI enzyme regulation. New Journal of Chemistry, 2020, 44, 1931-1941.	2.8	7
38	Image Encryption Based on Improved Lorenz System. IEEE Access, 2020, 8, 75728-75740.	4.2	31
39	CSANet: Channel and Spatial Mixed Attention CNN for Pedestrian Detection. IEEE Access, 2020, 8, 76243-76252.	4.2	15
40	SDResU-Net: Separable and Dilated Residual U-Net for MRI Brain Tumor Segmentation. Current Medical Imaging, 2020, 16, 720-728.	0.8	12
41	A novel adaptive linear neuron based on DNA strand displacement reaction network. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, PP, 1-1.	3.0	3
42	DRFN: Deep Recurrent Fusion Network for Single-Image Super-Resolution With Large Factors. IEEE Transactions on Multimedia, 2019, 21, 328-337.	7.2	80
43	A BPSON Algorithm Applied to DNA Codes Design. IEEE Access, 2019, 7, 88811-88821.	4.2	9
44	DEMC: A Deep Dual-Encoder Network for Denoising Monte Carlo Rendering. Journal of Computer Science and Technology, 2019, 34, 1123-1135.	1.5	14
45	Real-virtual consistent traffic flow interaction. Graphical Models, 2019, 106, 101048.	2.4	1
46	Deep Covariance Estimation Hashing. IEEE Access, 2019, 7, 113223-113234.	4.2	4
47	Second-Order Response Transform Attention Network for Image Classification. IEEE Access, 2019, 7, 117517-117526.	4.2	3
48	Fast Reconstruction for Monte Carlo Rendering Using Deep Convolutional Networks. IEEE Access, 2019, 7, 21177-21187.	4.2	4
49	3D Human Motion Synthesis Based on Convolutional Neural Network. IEEE Access, 2019, 7, 66325-66335.	4.2	3
50	Solution of Equations Based on Analog DNA Strand Displacement Circuits. IEEE Transactions on Nanobioscience, 2019, 18, 191-204.	3.3	23
51	Allosteric DNAzyme-based DNA logic circuit: operations and dynamic analysis. Nucleic Acids Research, 2019, 47, 1097-1109.	14.5	42
52	Synchronization of Chemical Reaction Networks Based on DNA Strand Displacement Circuits. IEEE Access, 2018, 6, 20584-20595.	4.2	22
53	Constructing DNA Barcode Sets Based on Particle Swarm Optimization. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 999-1002.	3.0	21
54	Passivity of Reactionâ€“Diffusion Genetic Regulatory Networks with Time-Varying Delays. Neural Processing Letters, 2018, 47, 1115-1132.	3.2	14

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55	Visual synchronization of two 3-variable Lotkaâ€“Volterra oscillators based on DNA strand displacement. RSC Advances, 2018, 8, 20941-20951.	3.6	18
56	Efficient image super-resolution integration. Visual Computer, 2018, 34, 1065-1076.	3.5	13
57	Four-Analog Computation Based on DNA Strand Displacement. ACS Omega, 2017, 2, 4143-4160.	3.5	26
58	DNA Code Design Based on the Bloch Quantum Chaos Algorithm. IEEE Access, 2017, 5, 22453-22461.	4.2	10
59	Solving probability reasoning based on DNA strand displacement and probability modules. Computational Biology and Chemistry, 2017, 71, 274-279.	2.3	10
60	Parallel DNA Arithmetic Operation With One Error Detection Based on 3-Moduli Set. IEEE Transactions on Nanobioscience, 2016, 15, 499-507.	3.3	20
61	Multiswarm Particle Swarm Optimization with Transfer of the Best Particle. Computational Intelligence and Neuroscience, 2015, 2015, 1-9.	1.7	6
62	Practical analytical inverse kinematic approach for 7-DOF space manipulators with joint and attitude limits. Intelligent Service Robotics, 2015, 8, 215-224.	2.6	26
63	Improved Lower Bounds of DNA Tags Based on a Modified Genetic Algorithm. PLoS ONE, 2015, 10, e0110640.	2.5	9
64	On the simulation of expressional animation based on facial MoCap. Science China Information Sciences, 2013, 56, 1-12.	4.3	2
65	Cryptanalysis of an image cryptosystem based on logistic map. Optik, 2013, 124, 1773-1776.	2.9	30
66	A Novel Constraint for Thermodynamically Designing DNA Sequences. PLoS ONE, 2013, 8, e72180.	2.5	6
67	Bayesian network structure learning based on the chaotic particle swarm optimization algorithm. Genetics and Molecular Research, 2013, 12, 4468-4479.	0.2	18
68	DNA Word Set Design Based on Minimum Free Energy. IEEE Transactions on Nanobioscience, 2010, 9, 273-277.	3.3	16
69	On asymptotic stability of discrete-time non-autonomous delayed Hopfield neural networks. Computers and Mathematics With Applications, 2009, 57, 1938-1942.	2.7	11
70	Robust pitch estimation using a wavelet variance analysis model. Signal Processing, 2009, 89, 1216-1223.	3.7	3