

Qiang Zhang

List of Publications by Year in descending order

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70
papers

1,053
citations

361296

20
h-index

501076

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72
all docs

72
docs citations

72
times ranked

714
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.	3.9	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.	4.7	7
3	Designing Uncorrelated Address Constrains for DNA Storage by DMVO Algorithm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 866-877.	1.9	43
4	Adaptive kernel selection network with attention constraint for surgical instrument classification. Neural Computing and Applications, 2022, 34, 1577-1591.	3.2	3
5	Exploring Dense Context for Salient Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1378-1389.	5.6	27
6	Enhancing Physical and Thermodynamic Properties of DNA Storage Sets With End-Constraint. IEEE Transactions on Nanobioscience, 2022, 21, 184-193.	2.2	19
7	Trading off Charging and Sensing for Stochastic Events Monitoring in WRSNs. IEEE/ACM Transactions on Networking, 2022, 30, 557-571.	2.6	24
8	Design of Constraint Coding Sets for Archive DNA Storage. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 3384-3394.	1.9	25
9	DNA Tile Self-assembly Driven by Antibody-mediated Four-way Branch Migration. Analyst, The, 2022, , .	1.7	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.	1.4	0
11	High-order local connection network for 3D human pose estimation based on GCN. Applied Intelligence, 2022, 52, 15690-15702.	3.3	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.	0.7	7
13	A meta-inspired termite queen algorithm for global optimization and engineering design problems. Engineering Applications of Artificial Intelligence, 2022, 111, 104805.	4.3	20
14	A nonlinear neural network based on an analog DNA toehold mediated strand displacement reaction circuit. Nanoscale, 2022, 14, 6585-6599.	2.8	13
15	Chemical Reaction Networksâ€™ Programming for Solving Equations. Current Issues in Molecular Biology, 2022, 44, 1725-1739.	1.0	0
16	Adaptive coding for DNA storage with high storage density and low coverage. Npj Systems Biology and Applications, 2022, 8, .	1.4	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.	2.2	15
18	(n - 2)-Fault-Tolerant Edge-Pancyclicity of Crossed Cubes CQn. International Journal of Foundations of Computer Science, 2021, 32, 289-304.	0.8	1

#	ARTICLE	IF	CITATIONS
19	Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. IEEE Internet of Things Journal, 2021, 8, 15863-15874.	5.5	23
20	Synchronization of hyper-Lorenz system based on DNA strand Displacement. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.	1.9	6
21	AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT. IEEE Internet of Things Journal, 2021, 8, 5264-5273.	5.5	27
22	Minimum Free Energy Coding for DNA Storage. IEEE Transactions on Nanobioscience, 2021, 20, 212-222.	2.2	34
23	Encryption Algorithm Based on DNA Strand Displacement and DNA Sequence Operation. IEEE Transactions on Nanobioscience, 2021, 20, 223-234.	2.2	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.	3.2	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.	2.2	19
26	Implementing Feedforward Neural Network Using DNA Strand Displacement Reactions. Nano, 2021, 16, 2150001.	0.5	7
27	Analysis of Periodic Solution of DNA Catalytic Reaction Model With Random Disturbance. IEEE Open Journal of Nanotechnology, 2021, 2, 140-147.	0.9	3
28	Constructing DNA logic circuits based on the toehold preemption mechanism. RSC Advances, 2021, 12, 338-345.	1.7	4
29	Using entropy-driven amplifier circuit response to build nonlinear model under the influence of Lévy jump. BMC Bioinformatics, 2021, 22, 437.	1.2	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.	0.8	0
31	Tabu Variable Neighborhood Search for Designing DNA Barcodes. IEEE Transactions on Nanobioscience, 2020, 19, 127-131.	2.2	21
32	Designing logic gates based on 3-way DNAzyme complex. Analytical Methods, 2020, 12, 693-700.	1.3	3
33	Multi-sensor fusion for body sensor network in medical human-robot interaction scenario. Information Fusion, 2020, 57, 15-26.	11.7	67
34	A DNAzyme-mediated logic gate system based on Ag(i)-cysteine. Analyst, The, 2020, 145, 6572-6578.	1.7	3
35	Constraining DNA Sequences With a Triplet-Bases Unpaired. IEEE Transactions on Nanobioscience, 2020, 19, 299-307.	2.2	26
36	Modelling and analysis of haemoglobin catalytic reaction kinetic system. Mathematical and Computer Modelling of Dynamical Systems, 2020, 26, 306-321.	1.4	4

#	ARTICLE	IF	CITATIONS
37	DNA logic circuits based on FokI enzyme regulation. <i>New Journal of Chemistry</i> , 2020, 44, 1931-1941.	1.4	7
38	Image Encryption Based on Improved Lorenz System. <i>IEEE Access</i> , 2020, 8, 75728-75740.	2.6	31
39	CSANet: Channel and Spatial Mixed Attention CNN for Pedestrian Detection. <i>IEEE Access</i> , 2020, 8, 76243-76252.	2.6	15
40	SDResU-Net: Separable and Dilated Residual U-Net for MRI Brain Tumor Segmentation. <i>Current Medical Imaging</i> , 2020, 16, 720-728.	0.4	12
41	A novel adaptive linear neuron based on DNA strand displacement reaction network. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2020, PP, 1-1.	1.9	3
42	DRFN: Deep Recurrent Fusion Network for Single-Image Super-Resolution With Large Factors. <i>IEEE Transactions on Multimedia</i> , 2019, 21, 328-337.	5.2	80
43	A BPSON Algorithm Applied to DNA Codes Design. <i>IEEE Access</i> , 2019, 7, 88811-88821.	2.6	9
44	DEMC: A Deep Dual-Encoder Network for Denoising Monte Carlo Rendering. <i>Journal of Computer Science and Technology</i> , 2019, 34, 1123-1135.	0.9	14
45	Real-virtual consistent traffic flow interaction. <i>Graphical Models</i> , 2019, 106, 101048.	1.1	1
46	Deep Covariance Estimation Hashing. <i>IEEE Access</i> , 2019, 7, 113223-113234.	2.6	4
47	Second-Order Response Transform Attention Network for Image Classification. <i>IEEE Access</i> , 2019, 7, 117517-117526.	2.6	3
48	Fast Reconstruction for Monte Carlo Rendering Using Deep Convolutional Networks. <i>IEEE Access</i> , 2019, 7, 21177-21187.	2.6	4
49	3D Human Motion Synthesis Based on Convolutional Neural Network. <i>IEEE Access</i> , 2019, 7, 66325-66335.	2.6	3
50	Solution of Equations Based on Analog DNA Strand Displacement Circuits. <i>IEEE Transactions on Nanobioscience</i> , 2019, 18, 191-204.	2.2	23
51	Allosteric DNAzyme-based DNA logic circuit: operations and dynamic analysis. <i>Nucleic Acids Research</i> , 2019, 47, 1097-1109.	6.5	42
52	Synchronization of Chemical Reaction Networks Based on DNA Strand Displacement Circuits. <i>IEEE Access</i> , 2018, 6, 20584-20595.	2.6	22
53	Constructing DNA Barcode Sets Based on Particle Swarm Optimization. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 999-1002.	1.9	21
54	Passivity of Reaction-Diffusion Genetic Regulatory Networks with Time-Varying Delays. <i>Neural Processing Letters</i> , 2018, 47, 1115-1132.	2.0	14

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55	Visual synchronization of two 3-variable Lotka–Volterra oscillators based on DNA strand displacement. <i>RSC Advances</i> , 2018, 8, 20941-20951.	1.7	18
56	Efficient image super-resolution integration. <i>Visual Computer</i> , 2018, 34, 1065-1076.	2.5	13
57	Four-Analog Computation Based on DNA Strand Displacement. <i>ACS Omega</i> , 2017, 2, 4143-4160.	1.6	26
58	DNA Code Design Based on the Bloch Quantum Chaos Algorithm. <i>IEEE Access</i> , 2017, 5, 22453-22461.	2.6	10
59	Solving probability reasoning based on DNA strand displacement and probability modules. <i>Computational Biology and Chemistry</i> , 2017, 71, 274-279.	1.1	10
60	Parallel DNA Arithmetic Operation With One Error Detection Based on 3-Moduli Set. <i>IEEE Transactions on Nanobioscience</i> , 2016, 15, 499-507.	2.2	20
61	Multiswarm Particle Swarm Optimization with Transfer of the Best Particle. <i>Computational Intelligence and Neuroscience</i> , 2015, 2015, 1-9.	1.1	6
62	Practical analytical inverse kinematic approach for 7-DOF space manipulators with joint and attitude limits. <i>Intelligent Service Robotics</i> , 2015, 8, 215-224.	1.6	26
63	Improved Lower Bounds of DNA Tags Based on a Modified Genetic Algorithm. <i>PLoS ONE</i> , 2015, 10, e0110640.	1.1	9
64	On the simulation of expressional animation based on facial MoCap. <i>Science China Information Sciences</i> , 2013, 56, 1-12.	2.7	2
65	Cryptanalysis of an image cryptosystem based on logistic map. <i>Optik</i> , 2013, 124, 1773-1776.	1.4	30
66	A Novel Constraint for Thermodynamically Designing DNA Sequences. <i>PLoS ONE</i> , 2013, 8, e72180.	1.1	6
67	Bayesian network structure learning based on the chaotic particle swarm optimization algorithm. <i>Genetics and Molecular Research</i> , 2013, 12, 4468-4479.	0.3	18
68	DNA Word Set Design Based on Minimum Free Energy. <i>IEEE Transactions on Nanobioscience</i> , 2010, 9, 273-277.	2.2	16
69	On asymptotic stability of discrete-time non-autonomous delayed Hopfield neural networks. <i>Computers and Mathematics With Applications</i> , 2009, 57, 1938-1942.	1.4	11
70	Robust pitch estimation using a wavelet variance analysis model. <i>Signal Processing</i> , 2009, 89, 1216-1223.	2.1	3