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List of Publications by Year
in descending order

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47	493	687363 13	752698 20
papers	citations	h-index	g-index

48	48	48	352
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fungal electronics. BioSystems, 2022, 212, 104588.	2.0	14
2	Chemical Wave Computing from Labware to Electrical Systems. Electronics (Switzerland), 2022, 11, 1683.	3.1	3
3	Memristor-based Oscillator for Complex Chemical Wave Logic Computations: Fredkin Gate Paradigm. , 2022, , .		0
4	Harnessing adaptive novelty for automated generation of cancer treatments. BioSystems, 2021, 199, 104290.	2.0	8
5	Utilizing Differential Evolution into Optimizing Targeted Cancer Treatments. Emergence, Complexity and Computation, 2021, , 328-340.	0.3	4
6	Neural Networks Predicting Microbial Fuel Cells Output for Soft Robotics Applications. Frontiers in Robotics and AI, 2021, 8, 633414.	3.2	15
7	In silico optimization of cancer therapies with multiple types of nanoparticles applied at different times. Computer Methods and Programs in Biomedicine, 2021, 200, 105886.	4.7	9
8	Memristive learning cellular automata for edge detection. Chaos, Solitons and Fractals, 2021, 145, 110700.	5.1	13
9	Metameric representations on optimization of nano particle cancer treatment. Biocybernetics and Biomedical Engineering, 2021, 41, 352-361.	5.9	4
10	Cellular automata implementation of Oregonator simulating light-sensitive Belousovâ€“Zhabotinsky medium. Nonlinear Dynamics, 2021, 104, 4103-4115.	5.2	14
11	Light sensitive Belousovâ€“Zhabotinsky medium accommodates multiple logic gates. BioSystems, 2021, 206, 104447.	2.0	10
12	Evolutionary computational platform for the automatic discovery of nanocarriers for cancer treatment. Npj Computational Materials, 2021, 7, .	8.7	12
13	On electrical gates on fungal colony. BioSystems, 2021, 209, 104507.	2.0	4
14	Mem-fractive properties of mushrooms. Bioinspiration and Biomimetics, 2021, 16, 066026.	2.9	19
15	Evolutionary Algorithms Designing Nanoparticle Cancer Treatments with Multiple Particle Types [Application Notes]. IEEE Computational Intelligence Magazine, 2021, 16, 85-99.	3.2	2
16	Multifunctional Spatially-Expanded Logic Gate for Unconventional Computations with Memristor-Based Oscillators. , 2021, , .		1
17	Memristive Oscillatory Networks for Computing: The Chemical Wave Propagation Paradigm. , 2021, , .		5
18	Margolus Chemical Wave Logic Gate with Memristive Oscillatory Networks. , 2021, , .		3

#	Article	IF	Citations
19	Liquid Marble Photosensor. ChemPhysChem, 2020, 21, 90-98.	2.1	9
20	Implementation and Optimization of Chemical Logic Gates Using Memristive Cellular Automata. , 2020, , .		5
21	Novelty search employed into the development of cancer treatment simulations. Informatics in Medicine Unlocked, 2020, 19, 100347.	3.4	8
22	Modelling Microbial Fuel Cells Using Lattice Boltzmann Methods. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 2035-2045.	3.0	4
23	Artificial neural network simulating microbial fuel cells with different membrane materials and electrode configurations. Journal of Power Sources, 2019, 436, 226832.	7.8	41
24	Belousov-Zhabotinsky liquid marbles in robot control. Sensors and Actuators B: Chemical, 2019, 295, 194-203.	7.8	6
25	Cellular Automata Applications in Shortest Path Problem. Emergence, Complexity and Computation, 2018, , 199-237.	0.3	5
26	Hardware Implementation of a Biomimicking Hybrid CA. Lecture Notes in Computer Science, 2018, , 80-91.	1.3	0
27	Street map analysis with excitable chemical medium. Physical Review E, 2018, 98, 012306.	2.1	6
28	Fluidic gates simulated with lattice Boltzmann method under different Reynolds numbers. Journal of Computational Science, 2018, 28, 51-58.	2.9	3
29	Cellular non-linear network model of microbial fuel cell. BioSystems, 2017, 156-157, 53-62.	2.0	13
30	Physarum machines imitating a Roman road network: the 3D approach. Scientific Reports, 2017, 7, 7010.	3.3	14
31	The MapReduce application of matrix multiplication implemented on field programmable gate arrays. , 2017, , .		0
32	Towards implementation of cellular automata in Microbial Fuel Cells. PLoS ONE, 2017, 12, e0177528.	2.5	13
33	Physarum in silicon: the Greek motorways study. Natural Computing, 2016, 15, 279-295.	3.0	22
34	Cellular Automata Models Simulating Slime Mould Computing. Emergence, Complexity and Computation, 2016, , 563-594.	0.3	6
35	Modeling Cache Memory Utilization on Multicore Using Common Pool Resource Game on Cellular Automata. ACM Transactions on Modeling and Computer Simulation, 2016, 26, 1-22.	0.8	20
36	Parallel Acceleration of Slime Mould Discrete Models. Emergence, Complexity and Computation, 2016, , 595-617.	0.3	2

#	Article	IF	Citations
37	Application of Slime Mould Computing on Archaeological Research. Emergence, Complexity and Computation, 2016, , 349-372.	0.3	0
38	A Cellular Automata Bioinspired Algorithm Designing Data Trees in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 471045.	2.2	9
39	A Biologically Inspired Network Design Model. Scientific Reports, 2015, 5, 10794.	3.3	23
40	Slime mould imitates development of Roman roads in the Balkans. Journal of Archaeological Science: Reports, 2015, 2, 264-281.	0.5	14
41	Towards a slime Mould-FPGA interface. Biomedical Engineering Letters, 2015, 5, 51-57.	4.1	19
42	Hardware Acceleration of Cellular Automata Physarum polycephalum Model. Parallel Processing Letters, 2015, 25, 1540006.	0.6	27
43	Evolving Transport Networks With Cellular Automata Models Inspired by Slime Mould. IEEE Transactions on Cybernetics, 2015, 45, 1887-1899.	9.5	38
44	Evaluating conflicts impact over shared last-level cache using public goods game on cellular automata. , 2013, , .		2
45	Optimization of Shared-Memory Multicore Systems Using Game Theory and Genetic Algorithms on Cellular Automata Lattices. , 2013, , .		1
46	Modeling and hardware implementation of an amoeba-like cellular automaton. Bioinspiration and Biomimetics, 2012, 7, 036013.	2.9	39
47	Modeling memory resources distribution on multicore processors using games on cellular automata lattices. , 2010, , .		4