Andrew Adamatzky

List of Publications by Year
in descending order

386 papers	6,688 citations	76294 40 h-index	149623 56 g-index
411 all docs	411 docs citations	411 times ranked	2016 citing authors

#	Article	IF	Citations
1	Protein Structured Reservoir Computing for Spike-Based Pattern Recognition. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 322-331.	4.0	4
2	Fungal electronics. BioSystems, 2022, 212, 104588.	0.9	14
3	Fungi anaesthesia. Scientific Reports, 2022, 12, 340.	1.6	3
4	Marimo actuated rover systems. Journal of Biological Engineering, 2022, 16, 3.	2.0	1
5	Living mycelium composites discern weights via patterns of electrical activity. Journal of Bioresources and Bioproducts, 2022, 7, 26-32.	11.8	18
6	Neuroscience without neurons. AIP Conference Proceedings, 2022, , .	0.3	1
7	Language of fungi derived from their electrical spiking activity. Royal Society Open Science, 2022, 9, 211926.	1.1	29
8	Chlorella sensors in liquid marbles and droplets. Sensing and Bio-Sensing Research, 2022, 36, 100491.	2.2	2
9	On Fungal Automata. Emergence, Complexity and Computation, 2022, , 455-483.	0.2	2
10	Living wearables: Bacterial reactive glove. BioSystems, 2022, 218, 104691.	0.9	10
11	Chemical Wave Computing from Labware to Electrical Systems. Electronics (Switzerland), 2022, 11, 1683.	1.8	3
12	Memristor-based Oscillator for Complex Chemical Wave Logic Computations: Fredkin Gate Paradigm. , 2022, , .		0
13	Reactive fungal wearable. BioSystems, 2021, 199, 104304.	0.9	41
14	Electrical Resistive Spiking of Fungi. Biophysical Reviews and Letters, 2021, 16, 1-7.	0.9	6
15	Towards Embedded Computation with Building Materials. Materials, 2021, 14, 1724.	1.3	5
16	In silico optimization of cancer therapies with multiple types of nanoparticles applied at different times. Computer Methods and Programs in Biomedicine, 2021, 200, 105886.	2.6	9
17	Acetobacter Biofilm: Electronic Characterization and Reactive Transduction of Pressure. ACS Biomaterials Science and Engineering, 2021, 7, 1651-1662.	2.6	11
18	Conway's Game of Life in Quantum-dot Cellular Automata. Microelectronics Journal, 2021, 109, 104972.	1.1	4

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19	Metameric representations on optimization of nano particle cancer treatment. Biocybernetics and Biomedical Engineering, 2021, 41, 352-361.	3.3	4
20	Electrical activity of fungi: Spikes detection and complexity analysis. BioSystems, 2021, 203, 104373.	0.9	26
21	Towards fungal sensing skin. Fungal Biology and Biotechnology, 2021, 8, 6.	2.5	13
22	Cellular automata implementation of Oregonator simulating light-sensitive Belousovâ€"Zhabotinsky medium. Nonlinear Dynamics, 2021, 104, 4103-4115.	2.7	14
23	Editorial: Computational approaches in cancer modelling. BioSystems, 2021, 204, 104385.	0.9	3
24	Stimulating Fungi <i>Pleurotus ostreatus</i> with Hydrocortisone. ACS Biomaterials Science and Engineering, 2021, 7, 3718-3726.	2.6	12
25	Light sensitive Belousovâ€"Zhabotinsky medium accommodates multiple logic gates. BioSystems, 2021, 206, 104447.	0.9	10
26	Towards proteinoid computers. Hypothesis paper. BioSystems, 2021, 208, 104480.	0.9	22
27	On electrical gates on fungal colony. BioSystems, 2021, 209, 104507.	0.9	4
28	Mem-fractive properties of mushrooms. Bioinspiration and Biomimetics, 2021, 16, 066026.	1.5	19
29	On Electrical Spiking of <i>Ganoderma resinaceum</i>. Biophysical Reviews and Letters, 2021, 16, 133-141.	0.9	11
30	Evolutionary Algorithms Designing Nanoparticle Cancer Treatments with Multiple Particle Types [Application Notes]. IEEE Computational Intelligence Magazine, 2021, 16, 85-99.	3.4	2
31	Margolus Chemical Wave Logic Gate with Memristive Oscillatory Networks. , 2021, , .		3
32	Liquid Marble Photosensor. ChemPhysChem, 2020, 21, 90-98.	1.0	9
33	Liquid metal droplet solves maze. Soft Matter, 2020, 16, 1455-1462.	1.2	18
34	On resistance switching and oscillations in tubulin microtubule droplets. Journal of Colloid and Interface Science, 2020, 560, 589-595.	5.0	7
35	Contactless sensing of liquid marbles for detection, characterisation & computing. Lab on A Chip, 2020, 20, 136-146.	3.1	13
36	On interplay between excitability and geometry. BioSystems, 2020, 187, 104034.	0.9	7

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37	Cellular automaton simulation of the quantum war of attrition game. Quantum Information Processing, 2020, 19, 1.	1.0	4
38	Implementation and Optimization of Chemical Logic Gates Using Memristive Cellular Automata. , 2020, , .		5
39	Three types of logical structure resulting from the trilemma of free will, determinism and locality. BioSystems, 2020, 195, 104151.	0.9	7
40	Computational universality of fungal sandpile automata. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126541.	0.9	7
41	A Novel Method for Reconstructing CT Images in GATE/GEANT4 with Application in Medical Imaging: A Complexity Analysis Approach. Journal of Information Processing, 2020, 28, 161-168.	0.3	4
42	Novelty search employed into the development of cancer treatment simulations. Informatics in Medicine Unlocked, 2020, 19, 100347.	1.9	8
43	Tactile sensing and computing on a random network of conducting fluid channels. Flexible and Printed Electronics, 2020, 5, 025006.	1.5	14
44	Spatial simulation of the quantum Bertrand duopoly game. Physica A: Statistical Mechanics and Its Applications, 2020, 557, 124867.	1.2	6
45	On Boolean gates in fungal colony. BioSystems, 2020, 193-194, 104138.	0.9	33
46	Actin networks voltage circuits. Physical Review E, 2020, 101, 052314.	0.8	5
47	Fungal Automata. Complex Systems, 2020, 29, 759-778.	0.9	4
48	On Buildings that Compute. A Proposal. Emergence, Complexity and Computation, 2020, , 311-335.	0.2	1
49	Modelling Microbial Fuel Cells Using Lattice Boltzmann Methods. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 2035-2045.	1.9	4
50	Neuromorphic Liquid Marbles with Aqueous Carbon Nanotube Cores. Langmuir, 2019, 35, 13182-13188.	1.6	7
51	Electrical Properties of Solvated Tectomers: Toward Zettascale Computing. Advanced Electronic Materials, 2019, 5, 1900202.	2.6	6
52	Marimo machines: oscillators, biosensors and actuators. Journal of Biological Engineering, 2019, 13, 72.	2.0	5
53	On measuring nanoparticle toxicity and clearance with Paramecium caudatum. Scientific Reports, 2019, 9, 8957.	1.6	5
54	Thermal switch of oscillation frequency in Belousovâ€"Zhabotinsky liquid marbles. Royal Society Open Science, 2019, 6, 190078.	1.1	19

#	ARTICLE	IF	CITATIONS
55	Belousov-Zhabotinsky liquid marbles in robot control. Sensors and Actuators B: Chemical, 2019, 295, 194-203.	4.0	6
56	Perturbations and phase transitions in swarm optimization algorithms. Natural Computing, 2019, 18, 579-591.	1.8	6
57	Towards an evolvable cancer treatment simulator. BioSystems, 2019, 182, 1-7.	0.9	21
58	A brief history of liquid computers. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180372.	1.8	46
59	On discovering functions in actin filament automata. Royal Society Open Science, 2019, 6, 181198.	1.1	5
60	Belousovâ€"Zhabotinsky reaction in liquid marbles. JPhys Materials, 2019, 2, 015005.	1.8	23
61	Mapping outcomes of liquid marble collisions. Soft Matter, 2019, 15, 3541-3551.	1.2	14
62	Towards experimental P-systems using multivesicular liposomes. Journal of Membrane Computing, 2019, 1, 20-28.	1.0	16
63	Plant leaf computing. BioSystems, 2019, 182, 59-64.	0.9	12
64	Computing on actin bundles network. Scientific Reports, 2019, 9, 15887.	1.6	11
65	Actin droplet machine. Royal Society Open Science, 2019, 6, 191135.	1.1	4
66	Exploring Tehran with Excitable Medium. , 2019, , 445-488.		2
67	Chemical Excitable Medium in Barcelona Street Network as a Method for Panicked Crowds Behavior Analysis. Complex Systems, 2019, 28, 41-58.	0.9	1
68	Mimicking Physarum Space Exploration with Networks of Memristive Oscillators. , 2019, , 1241-1274.		1
69	Logical Gates via Gliders Collisions. Emergence, Complexity and Computation, 2018, , 199-220.	0.2	1
70	Evaporation, Lifetime, and Robustness Studies of Liquid Marbles for Collision-Based Computing. Langmuir, 2018, 34, 2573-2580.	1.6	44
71	Slime mould: The fundamental mechanisms of biological cognition. BioSystems, 2018, 165, 57-70.	0.9	67
72	Maze Solvers Demystified and Some Other Thoughts. Emergence, Complexity and Computation, 2018, , 421-438.	0.2	1

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73	Living architecture: workshop report from the European Conference on Artificial Life, Lyon, France, 4 September 2017. Adaptive Behavior, 2018, 26, 85-88.	1.1	1
74	Toxicity and Applications of Internalised Magnetite Nanoparticles Within Live Paramecium caudatum Cells. BioNanoScience, 2018, 8, 90-94.	1.5	10
75	Computing via material topology optimisation. Applied Mathematics and Computation, 2018, 318, 109-120.	1.4	6
76	Generative complexity of Gray–Scott model. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 457-466.	1.7	9
77	Biolithography: Slime mould patterning of polyaniline. Applied Surface Science, 2018, 435, 1344-1350.	3.1	6
78	A Parallel Modular Biomimetic Cilia Sorting Platform. Biomimetics, 2018, 3, 5.	1.5	6
79	Towards fungal computer. Interface Focus, 2018, 8, 20180029.	1.5	34
80	Liquid Marble Actuator for Microfluidic Logic Systems. Scientific Reports, 2018, 8, 14153.	1.6	22
81	Slime Mold Computing. , 2018, , 431-446.		1
82	Reaction-Diffusion Computing. , 2018, , 171-194.		2
83	Hardware Implementation of a Biomimicking Hybrid CA. Lecture Notes in Computer Science, 2018, , 80-91.	1.0	0
84	On spiking behaviour of oyster fungi Pleurotus djamor. Scientific Reports, 2018, 8, 7873.	1.6	65
85	A Cilia-inspired Closed-loop Sensor-actuator Array. Journal of Bionic Engineering, 2018, 15, 526-532.	2.7	5
86	Coupled Physarum-Inspired Memristor Oscillators for Neuron-like Operations. , 2018, , .		7
87	Street map analysis with excitable chemical medium. Physical Review E, 2018, 98, 012306.	0.8	6
88	PhyChip: Growing Computers with Slime Mould. Natural Computing Series, 2018, , 111-128.	2.2	0
89	Fluidic gates simulated with lattice Boltzmann method under different Reynolds numbers. Journal of Computational Science, 2018, 28, 51-58.	1.5	3
90	Mechanical Sequential Counting withÂLiquid Marbles. Lecture Notes in Computer Science, 2018, , 59-71.	1.0	4

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91	Phase Transitions in Swarm Optimization Algorithms. Lecture Notes in Computer Science, 2018, , 204-216.	1.0	3
92	Chemical Computing Through Simulated Evolution. Emergence, Complexity and Computation, 2018, , 269-286.	0.2	2
93	Discovering Boolean Gates in Slime Mould. Emergence, Complexity and Computation, 2018, , 323-337.	0.2	13
94	Computers from Plants We Never Made: Speculations. Emergence, Complexity and Computation, 2018, , 357-387.	0.2	13
95	Simple Networks on Complex Cellular Automata: From de Bruijn Diagrams to Jump-Graphs. Emergence, Complexity and Computation, 2018, , 241-264.	0.2	2
96	Representation of shape mediated by environmental stimuli in Physarum polycephalum and a multi-agent model. International Journal of Parallel, Emergent and Distributed Systems, 2017, 32, 166-184.	0.7	9
97	On coupled oscillator dynamics and incident behaviour patterns in slime mould<i>Physarum polycephalum</i>: emergence of wave packets, global streaming clock frequencies and anticipation of periodic stimuli. International Journal of Parallel, Emergent and Distributed Systems, 2017, 32, 95-118.	0.7	2
98	Evaluation of French motorway network in relation to slime mould transport networks. Environment and Planning B: Urban Analytics and City Science, 2017, 44, 364-383.	1.0	5
99	An intelligent physarum solver for supply chain network design under profit maximization and oligopolistic competition. International Journal of Production Research, 2017, 55, 244-263.	4.9	39
100	Physarum Inspired Audio: From Oscillatory Sonification to Memristor Music. , 2017, , 181-218.		0
101	What if houses were powered by milk?. BioSystems, 2017, 153-154, 1-5.	0.9	3
102	Particle sorting by Paramecium cilia arrays. BioSystems, 2017, 156-157, 46-52.	0.9	13
103	On plant roots logical gates. BioSystems, 2017, 156-157, 40-45.	0.9	13
104	Cellular non-linear network model of microbial fuel cell. BioSystems, 2017, 156-157, 53-62.	0.9	13
105	Fredkin and Toffoli Gates Implemented in Oregonator Model of Belousovâ€"Zhabotinsky Medium. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750041.	0.7	10
106	Physarum solver: a bio-inspired method for sustainable supply chain network design problem. Annals of Operations Research, 2017, 254, 533-552.	2.6	16
107	Logical gates in actin monomer. Scientific Reports, 2017, 7, 11755.	1.6	10
108	Physarum machines imitating a Roman road network: the 3D approach. Scientific Reports, 2017, 7, 7010.	1.6	14

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109	Computing in Verotoxin. ChemPhysChem, 2017, 18, 1822-1830.	1.0	9
110	East-West paths to unconventional computing. Progress in Biophysics and Molecular Biology, 2017, 131, 469-493.	1.4	14
111	Liquid marble interaction gate for collision-based computing. Materials Today, 2017, 20, 561-568.	8.3	35
112	Cellular Automaton Belousovâ€"Zhabotinsky Model for Binary Full Adder. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750089.	0.7	18
113	Thirty Seven Things to Do with Live Slime Mould. Emergence, Complexity and Computation, 2017, , 709-738.	0.2	11
114	Calculating Voronoi Diagrams Using Chemical Reactions. Emergence, Complexity and Computation, 2017, , 167-198.	0.2	1
115	Light-Sensitive Belousovâ€"Zhabotinsky Computing Through Simulated Evolution. Emergence, Complexity and Computation, 2017, , 199-212.	0.2	1
116	A Computation in a Cellular Automaton Collider Rule 110. Emergence, Complexity and Computation, 2017, , 391-428.	0.2	4
117	Models of Computing on Actin Filaments. Emergence, Complexity and Computation, 2017, , 309-346.	0.2	4
118	Uses and Potential: Summary of the Biomedical and Engineering Applications of Myxomycetes in the 21st Century. , 2017, , 365-387.		1
119	Physical Maze Solvers. All Twelve Prototypes Implement 1961 Lee Algorithm. Emergence, Complexity and Computation, 2017, , 489-504.	0.2	4
120	Towards implementation of cellular automata in Microbial Fuel Cells. PLoS ONE, 2017, 12, e0177528.	1.1	13
121	On the Dynamics of Excitation and Information Processing in F-actin: Automaton Model. Complex Systems, 2017, 26, 295-318.	0.9	3
122	Slime Mold Computing. , 2017, , 1-16.		1
123	Reaction-Diffusion Computing. , 2017, , 1-25.		0
124	Emergent Behaviors in a Bio-Inspired Platform Controlled by a Physical Cellular Automata Cluster. Biomimetics, 2016, 1, 5.	1.5	4
125	On Emulation of Flueric Devices in Excitable Chemical Medium. PLoS ONE, 2016, 11, e0168267.	1.1	7
126	On using compressibility to detect when slime mould completed computation. Complexity, 2016, 21, 162-175.	0.9	6

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127	Practical circuits with Physarum Wires. Biomedical Engineering Letters, 2016, 6, 57-65.	2.1	8
128	On hybrid circuits exploiting thermistive properties of slime mould. Scientific Reports, 2016, 6, 23924.	1.6	5
129	Quantum Actin Automata and Three-Valued Logics. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2016, 6, 53-61.	2.7	7
130	A Physarum-inspired approach to supply chain network design. Science China Information Sciences, 2016, 59, 1.	2.7	25
131	On hybridising lettuce seedlings with nanoparticles and the resultant effects on the organisms' electrical characteristics. BioSystems, 2016, 147, 28-34.	0.9	8
132	Towards a Physarum learning chip. Scientific Reports, 2016, 6, 19948.	1.6	20
133	Logical Gates Implemented by Solitons at the Junctions Between One-Dimensional Lattices. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650107.	0.7	14
134	On modulating the Physarum polycephalum plasmodium's electrical resistance, resting membrane potential and capacitance by application of nanoparticles and nanostructures. Organic Electronics, 2016, 32, 267-273.	1.4	4
135	Physarum in silicon: the Greek motorways study. Natural Computing, 2016, 15, 279-295.	1.8	22
136	Physarum Imitates Exploration and Colonisation of Planets. Emergence, Complexity and Computation, 2016, , 395-410.	0.2	0
137	Slime Mould Controller for Microbial Fuel Cells. Emergence, Complexity and Computation, 2016, , 285-298.	0.2	0
138	A Chemomodulatory Platform for Physarum polycephalum Incorporating Genetically Transformed Plant Root Cultures. Emergence, Complexity and Computation, 2016, , 195-210.	0.2	0
139	Cellular Automata Models Simulating Slime Mould Computing. Emergence, Complexity and Computation, 2016, , 563-594.	0.2	6
140	On the Memristive Properties of Slime Mould. Emergence, Complexity and Computation, 2016, , 75-90.	0.2	0
141	Living Wires — Effects of Size and Coating of Gold Nanoparticles in Altering the Electrical Properties ofPhysarum polycephalumand Lettuce Seedlings. Nano LIFE, 2016, 06, 1650001.	0.6	4
142	On chirality of slime mould. BioSystems, 2016, 140, 23-27.	0.9	11
143	Boolean gates on actin filaments. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 88-97.	0.9	29
144	Chemical Sensors and Information Fusion in Physarum. Emergence, Complexity and Computation, 2016, , 211-230.	0.2	1

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145	Logical Gates and Circuits Implemented in Slime Mould. Emergence, Complexity and Computation, 2016, , 37-74.	0.2	7
146	Translating Slime Mould Responses: A Novel Way to Present Data to the Public. Emergence, Complexity and Computation, 2016, , 777-788.	0.2	2
147	On Complexity of Persian Orthography: L-Systems Approach. Complex Systems, 2016, 25, 127-156.	0.9	8
148	Halting Physarum Machines Based onÂCompressibility. Emergence, Complexity and Computation, 2016, , 687-703.	0.2	0
149	Towards a Slime Mould-FPGA Interface. Emergence, Complexity and Computation, 2016, , 299-309.	0.2	0
150	Slime Mould Approximates Longest Roads in USA and Germany: Experiments on 3D Terrains. Emergence, Complexity and Computation, 2016, , 311-335.	0.2	0
151	Physarum Wires, Sensors and Oscillators. Emergence, Complexity and Computation, 2016, , 231-269.	0.2	0
152	Recolonisation of USA: Slime Mould on 3D Terrains. Emergence, Complexity and Computation, 2016, , 337-348.	0.2	1
153	Routing Physarum â€œSignalsâ€•with Chemicals. Emergence, Complexity and Computation, 2016, , 165-193.	0.2	1
154	Binary full adder, made of fusion gates, in a subexcitable Belousov-Zhabotinsky system. Physical Review E, 2015, 92, 032811.	0.8	8
155	A Biologically Inspired Network Design Model. Scientific Reports, 2015, 5, 10794.	1.6	23
156	Magnetic Nanoparticles-Loaded Physarum polycephalum: Directed Growth and Particles Distribution. Interdisciplinary Sciences, Computational Life Sciences, 2015, 7, 373-381.	2.2	4
157	Plant hairy root cultures as plasmodium modulators of the slime mold emergent computing substrate Physarum polycephalum. Frontiers in Microbiology, 2015, 6, 720.	1.5	13
158	Conducting polymer-coated<i>Physarum polycephalum</i>towards the synthesis of bio-hybrid electronic devices. International Journal of General Systems, 2015, 44, 409-420.	1.2	3
159	Slime mould computing. International Journal of General Systems, 2015, 44, 277-278.	1.2	7
160	Slime mould foraging behaviour as optically coupled logical operations. International Journal of General Systems, 2015, 44, 305-313.	1.2	24
161	Actin quantum automata: Communication and computation in molecular networks. Nano Communication Networks, 2015, 6, 15-27.	1.6	30
162	On the role of the plasmodial cytoskeleton in facilitating intelligent behavior in slime mold Physarum polycephalum. Communicative and Integrative Biology, 2015, 8, e1059007.	0.6	21

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163	Computing with virtual cellular automata collider. , 2015, , .		2
164	Belousovâ€"Zhabotinsky Reaction. , 2015, , 106-112.		1
165	Actin Automata: Phenomenology and Localizations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550030.	0.7	18
166	Transfer function of protoplasmic tubes of Physarum polycephalum. BioSystems, 2015, 128, 48-51.	0.9	25
167	Slime Mould Memristors. BioNanoScience, 2015, 5, 1-8.	1.5	56
168	Quantitative transformation for implementation of adder circuits in physical systems. BioSystems, 2015, 134, 16-23.	0.9	12
169	Slime mould processors, logic gates and sensors. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140216.	1.6	20
170	On Growing Persian Words with L-Systems: Visual Modeling of Neyname. International Journal of Image and Graphics, 2015, 15, 1550011.	1.2	5
171	A Would-Be Nervous System Made from a Slime Mold. Artificial Life, 2015, 21, 73-91.	1.0	13
172	On Binary-State Phyllosilicate Automata. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550035.	0.7	0
173	On the Dynamics of Cellular Automata with Memory. Fundamenta Informaticae, 2015, 138, 1-16.	0.3	2
174	Slime mould imitates development of Roman roads in the Balkans. Journal of Archaeological Science: Reports, 2015, 2, 264-281.	0.2	14
175	Towards a slime Mould-FPGA interface. Biomedical Engineering Letters, 2015, 5, 51-57.	2.1	19
176	On exploration of geometrically constrained space by medicinal leeches Hirudo verbana. BioSystems, 2015, 130, 28-36.	0.9	4
177	The double-slit experiment with *Physarum polycephalum* and *p*-adic valued probabilities and fuzziness. International Journal of General Systems, 2015, 44, 392-408.	1.2	20
178	Preface of the â€œ1st international symposium on artificial, biological and bio-inspired intelligence (ABBII)â€. AIP Conference Proceedings, 2015, , .	0.3	0
179	The effect of changing electrode metal on solution-processed flexible titanium dioxide memristors. Materials Chemistry and Physics, 2015, 162, 20-30.	2.0	34
180	Building exploration with leeches Hirudo verbana. BioSystems, 2015, 134, 48-55.	0.9	1

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181	Toward Hybrid Nanostructure-Slime Mould Devices. Nano LIFE, 2015, 05, 1450007.	0.6	21
182	Physarum polycephalum: Towards a biological controller. BioSystems, 2015, 127, 42-46.	0.9	7
183	On the Computing Potential of Intracellular Vesicles. PLoS ONE, 2015, 10, e0139617.	1.1	17
184	An ImprovedPhysarum polycephalumAlgorithm for the Shortest Path Problem. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	7
185	Unconventional computing. International Journal of General Systems, 2014, 43, 671-672.	1.2	9
186	Development and initial testing of a novel slime mould biosensor. , 2014, 2014, 4042-5.		3
187	Material approximation of data smoothing and spline curves inspired by slime mould. Bioinspiration and Biomimetics, 2014, 9, 036016.	1.5	18
188	Classifying elementary cellular automata using compressibility, diversity and sensitivity measures. International Journal of Modern Physics C, 2014, 25, 1350098.	0.8	10
189	A Bio-Inspired Algorithm for Route Selection in Wireless Sensor Networks. IEEE Communications Letters, 2014, 18, 2019-2022.	2.5	11
190	On logical universality of Belousov-Zhabotinsky vesicles. International Journal of General Systems, 2014, 43, 757-769.	1.2	6
191	Emergent spiking in non-ideal memristor networks. Microelectronics Journal, 2014, 45, 1401-1415.	1.1	18
192	A bio-inspired algorithm for identification of critical components in the transportation networks. Applied Mathematics and Computation, 2014, 248, 18-27.	1.4	15
193	How Î²-skeletons lose their edges. Information Sciences, 2014, 254, 213-224.	4.0	1
194	Towards slime mould chemical sensor: Mapping chemical inputs onto electrical potential dynamics of Physarum Polycephalum. Sensors and Actuators B: Chemical, 2014, 191, 844-853.	4.0	58
195	Sensory fusion in Physarum polycephalum and implementing multi-sensory functional computation. BioSystems, 2014, 119, 45-52.	0.9	21
196	Slime mold microfluidic logical gates. Materials Today, 2014, 17, 86-91.	8.3	73
197	Computation of the travelling salesman problem by a shrinking blob. Natural Computing, 2014, 13, 1-16.	1.8	73
198	Drop-coated titanium dioxide memristors. Materials Chemistry and Physics, 2014, 143, 524-529.	2.0	51

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199	Tactile Bristle Sensors Made With Slime Mold. IEEE Sensors Journal, 2014, 14, 324-332.	2.4	24
200	Evolving Spiking Networks with Variable Resistive Memories. Evolutionary Computation, 2014, 22, 79-103.	2.3	24
201	Slime mould logic gates based on frequency changes of electrical potential oscillation. BioSystems, 2014, 124, 21-25.	0.9	34
202	Phase Transition in Elementary Cellular Automata with Memory. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450116.	0.7	5
203	Towards plant wires. BioSystems, 2014, 122, 1-6.	0.9	13
204	Rapid Physarum Algorithm for shortest path problem. Applied Soft Computing Journal, 2014, 23, 19-26.	4.1	30
205	Information coding with frequency of oscillations in Belousov-Zhabotinsky encapsulated disks. Physical Review E, 2014, 89, 042910.	0.8	36
206	A Biologically Inspired Optimization Algorithm for Solving Fuzzy Shortest Path Problems with Mixed Fuzzy Arc Lengths. Journal of Optimization Theory and Applications, 2014, 163, 1049-1056.	0.8	23
207	Slime mould electronic oscillators. Microelectronic Engineering, 2014, 124, 58-65.	1.1	25
208	UAV Horizon Tracking Using Memristors and Cellular Automata Visual Processing. Lecture Notes in Computer Science, 2014, , 64-75.	1.0	4
209	Trans-Canada Slimeways. , 2014, , 251-265.		1
210	Slime mould tactile sensor. Sensors and Actuators B: Chemical, 2013, 188, 38-44.	4.0	57
211	On Delaunay triangulation automata with memory. Nano Communication Networks, 2013, 4, 216-228.	1.6	2
212	A SPICE MODEL OF THE PEO-PANI MEMRISTOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350112.	0.7	7
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