List of Publications by Year in descending order

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DETD SOSIK

#	Article	IF	CITATIONS
1	P colonies with agent division. Information Sciences, 2022, 589, 162-169.	4.0	1
2	A Self-Controlled and Self-Healing Model of Bacterial Cells. Membranes, 2022, 12, 678.	1.4	2
3	Morphogenetic systems for resource bounded computation and modeling. Information Sciences, 2021, 547, 814-827.	4.0	4
4	Morphogenetic systems: Models and experiments. BioSystems, 2020, 198, 104270.	0.9	4
5	From P systems to morphogenetic systems: an overview and open problems. Journal of Membrane Computing, 2020, 2, 380-391.	1.0	5
6	P systems attacking hard problems beyond NP: a survey. Journal of Membrane Computing, 2019, 1, 198-208.	1.0	37
7	PÂcolonies. Journal of Membrane Computing, 2019, 1, 178-197.	1.0	15
8	Modeling Plant Development with M Systems. Lecture Notes in Computer Science, 2019, , 246-257.	1.0	1
9	Generalized P colonies with passive environment. Theoretical Computer Science, 2018, 724, 61-68.	0.5	0
10	Natural selection in bats with historical exposure to white-nose syndrome. BMC Zoology, 2018, 3, .	0.3	17
11	A Logical Representation of P Colonies: An Introduction. Lecture Notes in Computer Science, 2018, , 66-76.	1.0	1
12	On the Robust Power of Morphogenetic Systems for Time Bounded Computation. Lecture Notes in Computer Science, 2018, , 270-292.	1.0	5
13	Directed evolution of biocircuits using conjugative plasmids and CRISPR-Cas9: design and in silico experiments. Natural Computing, 2017, 16, 497-505.	1.8	4
14	P Colonies with Evolving Environment. Lecture Notes in Computer Science, 2017, , 151-164.	1.0	3
15	Small (purely) catalytic P systems simulating register machines. Theoretical Computer Science, 2016, 623, 65-74.	0.5	9
16	An Autonomous In Vivo Dual Selection Protocol for Boolean Genetic Circuits. Artificial Life, 2015, 21, 247-260.	1.0	4
17	An Optimal Frontier of the Efficiency of Tissue P Systems with Cell Separation. Fundamenta Informaticae, 2015, 138, 45-60.	0.3	32
18	A limitation of cell division in tissue P systems by PSPACE. Journal of Computer and System Sciences, 2015, 81, 473-484.	0.9	8

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19	The Laws of Natural Deduction in Inference by DNA Computer. Scientific World Journal, The, 2014, 2014, 1-10.	0.8	2
20	Three Universal Homogeneous Spiking Neural P Systems Using Max Spike. Fundamenta Informaticae, 2014, 134, 167-182.	0.3	1
21	Brain clock driven by neuropeptides and second messengers. Physical Review E, 2014, 90, 032705.	0.8	0
22	Computational power of cell separation in tissue P systems. Information Sciences, 2014, 279, 805-815.	4.0	7
23	DNA strand displacement system running logic programs. BioSystems, 2014, 115, 5-12.	0.9	4
24	Active Membranes, Proteins on Membranes, Tissue P Systems: Complexity-Related Issues and Challenges. Lecture Notes in Computer Science, 2014, , 40-55.	1.0	0
25	P systems with proteins on membranes characterize PSPACE. Theoretical Computer Science, 2013, 488, 78-95.	0.5	17
26	Limits of the Power of Tissue P Systems with Cell Division. Lecture Notes in Computer Science, 2013, , 390-403.	1.0	3
27	POLYNOMIAL TIME-BOUNDED COMPUTATIONS IN SPIKING NEURAL P SYSTEMS. Neural Network World, 2013, 23, 31-48.	0.5	1
28	DNA Computing $\hat{a} \in \tilde{~}$ Foundations and Implications. , 2012, , 1073-1127.		13
29	Tissue P Systems with Cell Separation: Upper Bound by PSPACE. Lecture Notes in Computer Science, 2012, , 201-215.	1.0	3
30	On the scalability of biocomputing algorithms: The case of the maximum clique problem. Theoretical Computer Science, 2011, 412, 7075-7086.	0.5	3
31	ON THE POWER OF FAMILIES OF RECOGNIZER SPIKING NEURAL P SYSTEMS. International Journal of Foundations of Computer Science, 2011, 22, 75-88.	0.8	3
32	ORTHOGONAL SHUFFLE ON TRAJECTORIES. International Journal of Foundations of Computer Science, 2011, 22, 213-222.	0.8	1
33	Autonomous Resolution Based on DNA Strand Displacement. Lecture Notes in Computer Science, 2011, , 190-203.	1.0	4
34	On the Power of Computing with Proteins on Membranes. Lecture Notes in Computer Science, 2010, , 448-460.	1.0	4
35	Polynomial Complexity Classes in Spiking Neural P Systems. Lecture Notes in Computer Science, 2010, , 348-360.	1.0	2
36	The Undecidability of the Infinite Ribbon Problem: Implications for Computing by Self-Assembly. SIAM Journal on Computing, 2009, 38, 2356-2381.	0.8	19

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37	On the power of elementary features in spiking neural P systems. Natural Computing, 2008, 7, 471-483.	1.8	2
38	On the weight of universal insertion grammars. Theoretical Computer Science, 2008, 396, 264-270.	0.5	15
39	Towards a Robust Biocomputing Solution of Intractable Problems. , 2008, , 221-230.		0
40	ON THE POWER OF DETERMINISTIC AND SEQUENTIAL COMMUNICATING P SYSTEMS. International Journal of Foundations of Computer Science, 2007, 18, 415-431.	0.8	2
41	Normal forms for spiking neural P systems. Theoretical Computer Science, 2007, 372, 196-217.	0.5	69
42	Membrane computing and complexity theory: A characterization of PSPACE. Journal of Computer and System Sciences, 2007, 73, 137-152.	0.9	71
43	A P system and a constructive membrane-inspired DNA algorithm for solving the Maximum Clique Problem. BioSystems, 2007, 90, 687-697.	0.9	9
44	Algebraic properties of substitution on trajectories. Theoretical Computer Science, 2006, 369, 183-196.	0.5	0
45	Hairpin Structures in DNA Words. Lecture Notes in Computer Science, 2006, , 158-170.	1.0	17
46	Computationally universal P systems without priorities: two catalysts are sufficient. Theoretical Computer Science, 2005, 330, 251-266.	0.5	97
47	Aspects of shuffle and deletion on trajectories. Theoretical Computer Science, 2005, 332, 47-61.	0.5	19
48	On properties of bond-free DNA languages. Theoretical Computer Science, 2005, 334, 131-159.	0.5	23
49	On Hairpin-Free Words and Languages. Lecture Notes in Computer Science, 2005, , 296-307.	1.0	17
50	OPERATIONS ON TRAJECTORIES WITH APPLICATIONS TO CODING AND BIOINFORMATICS. International Journal of Foundations of Computer Science, 2005, 16, 531-546.	0.8	4
51	BOND-FREE LANGUAGES: FORMALIZATIONS, MAXIMALITY AND CONSTRUCTION METHODS. International Journal of Foundations of Computer Science, 2005, 16, 1039-1070.	0.8	12
52	Bond-Free Languages: Formalizations, Maximality and Construction Methods. Lecture Notes in Computer Science, 2005, , 169-181.	1.0	8
53	Substitutions, Trajectories and Noisy Channels. Lecture Notes in Computer Science, 2005, , 202-212.	1.0	3
54	Substitution on Trajectories. Lecture Notes in Computer Science, 2004, , 145-158.	1.0	1

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55	The Power of Catalysts and Priorities in Membrane Systems. Grammars, 2003, 6, 13-24.	0.4	14
56	The computational power of cell division in P systems: Beating down parallel computers?. Natural Computing, 2003, 2, 287-298.	1.8	67
57	Watson–Crick D0L systems: the power of one transition. Theoretical Computer Science, 2003, 301, 187-200.	0.5	11
58	Watson–Crick D0L systems: generative power and undecidable problems. Theoretical Computer Science, 2003, 306, 101-112.	0.5	6
59	Universal computation with Watson-Crick DOL systems. Theoretical Computer Science, 2002, 289, 485-501.	0.5	5
60	Membrane Computing: When Communication Is Enough. Lecture Notes in Computer Science, 2002, , 264-275.	1.0	9
61	String Rewriting Sequential P-Systems and Regulated Rewriting. Lecture Notes in Computer Science, 2002, , 379-388.	1.0	1
62	DOL System + Watson-Crick Complementarity = Universal Computation. Lecture Notes in Computer Science, 2001, , 308-319.	1.0	8
63	Conditional Tabled Eco-Grammar Systems: the Scattered Contexts. Grammars, 1999, 2, 235-245.	0.4	1
64	On the Hierarchy of Extended Conditional Tabled Eco-Grammar Systems. Grammars, 1999, 1, 225-238.	0.4	2
65	Self-healing turing-universal computation in morphogenetic systems. Natural Computing, 0, , 1.	1.8	2
66	DNA Computing and Errors. Advances in Web Services Research Series, 0, , 56-77.	0.0	2
67	Morphogenetic computing: computability and complexity results. Natural Computing, 0, , .	1.8	1