

Jan M Baetens

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

537
citations

12
h-index

22
g-index

64
ext. papers

662
ext. citations

3.3
avg, IF

3.99
L-index

#	Paper	IF	Citations
58	Progress, gaps and obstacles in the classification of cellular automata. <i>Physica D: Nonlinear Phenomena</i> , 2021 , 133074	3.3	4
57	Unraveling the natural durability of wood: revealing the impact of decay-influencing characteristics other than fungicidal components. <i>Holzforschung</i> , 2021 , 75, 368-378	2	1
56	Cost-Effectiveness of COVID-19 Policy Measures: A Systematic Review. <i>Value in Health</i> , 2021 , 24, 1551-1569	3.69	1
55	Influence of Topology on the Dynamics of in Silico Ecosystems with Non-hierarchical Competition. <i>Lecture Notes in Computer Science</i> , 2021 , 113-122	0.9	
54	Cracking the code: real-time monitoring of wood drying and the occurrence of cracks. <i>Wood Science and Technology</i> , 2020 , 54, 1029-1049	2.5	3
53	Identification of Cellular Automata Based on Incomplete Observations With Bounded Time Gaps. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 971-984	10.2	2
52	Analysis of spatio-temporal fungal growth dynamics under different environmental conditions. <i>IMA Fungus</i> , 2019 , 10, 7	6.8	5
51	A statistical approach to the identification of diploid cellular automata based on incomplete observations. <i>BioSystems</i> , 2019 , 186, 103976	1.9	
50	A validated expert-based habitat suitability assessment for eagle owls in Limburg, the Netherlands. <i>European Journal of Wildlife Research</i> , 2019 , 65, 1	2	
49	Affine continuous cellular automata solving the fixed-length density classification problem. <i>Natural Computing</i> , 2018 , 17, 467-477	1.3	2
48	Individual-Based Modelling of Invasion in Bioaugmented Sand Filter Communities. <i>Processes</i> , 2018 , 6, 2	2.9	3
47	Three-species competition with non-deterministic outcomes. <i>Chaos</i> , 2018 , 28, 123124	3.3	3
46	Differential post-fledging habitat use of Nearctic-Neotropical migratory birds within an urbanized landscape. <i>Movement Ecology</i> , 2018 , 6, 17	4.6	3
45	Ecological Diversity: Measuring the Unmeasurable. <i>Mathematics</i> , 2018 , 6, 119	2.3	78
44	An analytical description of the time-integrated Brownian bridge. <i>Computational and Applied Mathematics</i> , 2017 , 36, 627-645		2
43	On the iota-delta function: a link between cellular automata and partial differential equations for modeling advection-dispersion from a constant source. <i>Journal of Supercomputing</i> , 2017 , 73, 700-712	2.5	4
42	Automated classification of wood transverse cross-section micro-imagery from 77 commercial Central-African timber species. <i>Annals of Forest Science</i> , 2017 , 74, 1	3.1	16

41	Assessing the effects of ultraviolet radiation on the photosynthetic potential in Archean marine environments. <i>International Journal of Astrobiology</i> , 2017 , 16, 271-279	1.4	3
40	Density-conserving affine continuous cellular automata solving the relaxed density classification problem. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 345103	2	4
39	Modelling three-dimensional fungal growth in response to environmental stimuli. <i>Journal of Theoretical Biology</i> , 2017 , 414, 35-49	2.3	15
38	A Statistical Approach to the Identification of Diploid Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2017 , 37-48	0.9	
37	Modeling the effect of ultraviolet radiation on the photosynthetic potential of Prochlorococcus and Synechococcus cyanobacteria. <i>Aquatic Microbial Ecology</i> , 2017 , 79, 149-164	1.1	1
36	In silico substrate dependence increases community productivity but threatens biodiversity. <i>Physical Review E</i> , 2016 , 93, 042414	2.4	2
35	Classification of cellular automata through texture analysis. <i>Information Sciences</i> , 2016 , 370-371, 33-49	7.7	6
34	Stability of Cellular Automata Trajectories Revisited: Branching Walks and Lyapunov Profiles. <i>Journal of Nonlinear Science</i> , 2016 , 26, 1329-1367	2.8	3
33	Spatially Explicit Modelling of the Belgian Major Endurance Event The 100 km Dodentocht V PLoS ONE, 2016 , 11, e0164981	3.7	1
32	A Spatial Sensitivity Analysis of a Spatially Explicit Model for Myxomatosis in Belgium. <i>Lecture Notes in Computer Science</i> , 2016 , 91-100	0.9	1
31	On the Identification of (alpha)-Asynchronous Cellular Automata in the Case of Partial Observations with Spatially Separated Gaps. <i>Studies in Computational Intelligence</i> , 2016 , 23-36	0.8	2
30	The impact of resource dependence of the mechanisms of life on the spatial population dynamics of an in silico microbial community. <i>Chaos</i> , 2016 , 26, 123121	3.3	2
29	The Density Classification Problem in the Context of Continuous Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2016 , 79-87	0.9	4
28	Unsupervised ridge detection using second order anisotropic Gaussian kernels. <i>Signal Processing</i> , 2015 , 116, 55-67	4.4	36
27	Automated image-based analysis of spatio-temporal fungal dynamics. <i>Fungal Genetics and Biology</i> , 2015 , 84, 12-25	3.9	22
26	A dynamical systems approach to the discrimination of the modes of operation of cryptographic systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 29, 102-115	3.7	2
25	On the decomposition of stochastic cellular automata. <i>Journal of Computational Science</i> , 2015 , 11, 245-257	3.4	4
24	An evolutionary approach to the identification of Cellular Automata based on partial observations 2015 ,		3

23	The impact of initial evenness on biodiversity maintenance for a four-species in silico bacterial community. <i>Journal of Theoretical Biology</i> , 2015 , 387, 189-205	2.3	13
22	A Behavioral Analysis of Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2015 , 123-134	0.9	1
21	Network formation by contact arrested propagation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 413, 240-255	3.3	1
20	Lyapunov Exponents of One-Dimensional, Binary Stochastic Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2014 , 96-104	0.9	1
19	Towards a Comprehensive Understanding of Multi-state Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2014 , 16-24	0.9	2
18	A discrete stochastic model for oil migration in chocolate-coated confectionery. <i>Journal of Food Engineering</i> , 2013 , 119, 602-610	6	10
17	Modelling a pike (<i>Esox lucius</i>) population in a lowland river using a cellular automaton. <i>Ecological Informatics</i> , 2013 , 17, 46-57	4.2	5
16	An individual-based model for the migration of pike (<i>Esox lucius</i>) in the river Yser, Belgium. <i>Ecological Modelling</i> , 2013 , 258, 40-52	3	6
15	Topology-induced phase transitions in totalistic cellular automata. <i>Physica D: Nonlinear Phenomena</i> , 2013 , 249, 16-24	3.3	4
14	Influence of the topology of a cellular automaton on its dynamical properties. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 651-668	3.7	8
13	Cellular automata on irregular tessellations. <i>Dynamical Systems</i> , 2012 , 27, 411-430	0.6	7
12	Modeling the photocatalytic degradation of moxifloxacin by means of a stochastic cellular automaton. <i>Chemical Engineering Journal</i> , 2012 , 188, 181-190	14.7	15
11	Effect of asynchronous updating on the stability of cellular automata. <i>Chaos, Solitons and Fractals</i> , 2012 , 45, 383-394	9.3	28
10	Modelling the degradation kinetics of vitamin C in fruit juice in relation to the initial headspace oxygen concentration. <i>Food Chemistry</i> , 2012 , 134, 207-214	8.5	56
9	Towards the Full Lyapunov Spectrum of Elementary Cellular Automata 2011 ,		1
8	Design and parameterization of a stochastic cellular automaton describing a chemical reaction. <i>Journal of Computational Chemistry</i> , 2011 , 32, 1952-61	3.5	11
7	On the topological sensitivity of cellular automata. <i>Chaos</i> , 2011 , 21, 023108	3.3	8
6	Phenomenological study of irregular cellular automata based on Lyapunov exponents and Jacobians. <i>Chaos</i> , 2010 , 20, 033112	3.3	27

5	Tracking Uncertainty in a Spatially Explicit Susceptible-Infected Epidemic Model. <i>Lecture Notes in Computer Science</i> , 2010 , 95-105	0.9	2
4	Towards Generalized Measures Grasping CA Dynamics. <i>Lecture Notes in Computer Science</i> , 2010 , 177-187	0.9	
3	On the influence of coarse fragments on soil water retention. <i>Water Resources Research</i> , 2009 , 45,	5.4	46
2	Hydraulic Conductivity as Influenced by Stoniness in Degraded Drylands of Chile. <i>Soil Science Society of America Journal</i> , 2009 , 73, 471-484	2.5	44
1	Assessing the effects of non-pharmaceutical interventions on SARS-CoV-2 transmission in Belgium by means of an extended SEIQRD model and public mobility data		2