Steen Rasmussen

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.

61 papers	2,007 citations	24 h-index	44 g-index
66 ext. papers	2,365 ext. citations	4.5 avg, IF	4.42 L-index

#	Paper	IF	Citations
61	SARS-CoV-2 infection dynamics in Denmark, February through October 2020: Nature of the past epidemic and how it may develop in the future. *PLoS ONE*, **2021**, 16, e0249733	3.7	1
60	Human wealth evolution: Trends and fluctuations. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 558, 124985	3.3	0
59	Two Modes of Evolution: Optimization and Expansion. *Artificial Life*, **2019**, 25, 9-21	1.4	3
58	Peripartum cardiomyopathy in Denmark: a retrospective, population-based study of incidence, management and outcome. *European Journal of Heart Failure*, **2017**, 19, 1712-1720	12.3	38
57	Sequence selection by dynamical symmetry breaking in an autocatalytic binary polymer model. *Physical Review E*, **2017**, 96, 062407	2.4	7
56	Generating minimal living systems from non-living materials and increasing their evolutionary abilities. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	17
55	Neonatal Risk Factors for Treatment-Demanding Retinopathy of Prematurity: A Danish National Study. *Ophthalmology*, **2016**, 123, 796-803	7.3	52
54	Uniform droplet splitting and detection using Lab-on-Chip flow cytometry on a microfluidic PDMS device. *Sensors and Actuators B: Chemical*, **2016**, 229, 7-13	8.5	29
53	Broad-Spectrum Antibiotic Treatment and Subsequent Childhood Type 1 Diabetes: A Nationwide Danish Cohort Study. *PLoS ONE*, **2016**, 11, e0161654	3.7	32
52	Prelabor Cesarean Section and Risk of Childhood Type 1 Diabetes: A Nationwide Register-based Cohort Study. *Epidemiology*, **2016**, 27, 547-55	3.1	33
51	Reply. *Ophthalmology*, **2016**, 123, e73-e75	7.3	
50	Open-Ended Evolution: Perspectives from the OEE Workshop in York. *Artificial Life*, **2016**, 22, 408-23	1.4	45
49	Editorial. *Artificial Life*, **2015**, 21, 193-4	1.4	1
48	Structure and selection in an autocatalytic binary polymer model. *Europhysics Letters*, **2014**, 107, 28004	1.6	6
47	Mode of delivery and subsequent reproductive patterns. A national follow-up study. *Acta Obstetricia Et Gynecologica Scandinavica*, **2014**, 93, 1034-41	3.8	8
46	An Oil Droplet Division□usion Cycle. *ChemPlusChem*, **2013**, 78, 52-54	2.8	43
45	Modeling Cities□he Los Alamos Urban Security Initiative. *Special Publications*, **2013**, 427-442		

44	The MATCHIT automaton: exploiting compartmentalization for the synthesis of branched polymers. *Computational and Mathematical Methods in Medicine*, **2013**, 2013, 467428	2.8	10
43	Phototriggered DNA phosphoramidate ligation in a tandem 5′-amine deprotection/3′-imidazole activated phosphate coupling reaction. *Bioconjugate Chemistry*, **2012**, 23, 2014-9	6.3	4
42	Consequences of the Term Breech Trial in Denmark. *Acta Obstetricia Et Gynecologica Scandinavica*, **2011**, 90, 767-71	3.8	98
41	Machine Learning Optimization of Evolvable Artificial Cells. *Procedia Computer Science*, **2011**, 7, 187-189	1.6	3
40	Models of Minimal Physical Intelligence. *Procedia Computer Science*, **2011**, 7, 275-277	1.6	2
39	Biological and Chemical Information Technologies. *Procedia Computer Science*, **2011**, 7, 56-60	1.6	14
38	The ten grand challenges of synthetic life. *Systems and Synthetic Biology*, **2011**, 5, 1-9		42
37	Interactions between catalysts and amphiphilic structures and their implications for a protocell model. *ChemPhysChem*, **2011**, 12, 828-35	3.2	24
36	On the Growth Rate of Non-Enzymatic Molecular Replicators. *Entropy*, **2011**, 13, 1882-1903	2.8	4
35	Life after the synthetic cell. *Nature*, **2010**, 465, 422-4	50.4	48
34	Living technology: exploiting life's principles in technology. *Artificial Life*, **2010**, 16, 89-97	1.4	61
33	Nucleobase mediated, photocatalytic vesicle formation from an ester precursor. *Journal of the American Chemical Society*, **2009**, 131, 931-3	16.4	60
32	Metabolic photofragmentation kinetics for a minimal protocell: rate-limiting factors, efficiency, and implications for evolution. *Artificial Life*, **2008**, 14, 189-201	1.4	6
31	Application of molecular dynamics computer simulations in the design of a minimal self-replicating molecular machine. *Complexity*, **2008**, 13, 10-17	1.6	0
30	Molecular dynamics study of small PNA molecules in lipid-water system. *Biophysical Journal*, **2007**, 92, 3081-91	2.9	18
29	Life cycle of a minimal protocell--a dissipative particle dynamics study. *Artificial Life*, **2007**, 13, 319-45	1.4	35
28	Generic Darwinian selection in catalytic protocell assemblies. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2007**, 362, 1847-55	5.8	21
27	Emergence of protocellular growth laws. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2007**, 362, 1841-5	5.8	20

26	Evolutionary self-organization in complex fluids. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2007**, 362, 1763-79	5.8	8
25	Collective intelligence for decision support in very large stakeholder networks: The future US energy system. **2007**,		4
24	Experimentally tracing the key steps in the origin of life: The aromatic world. *Astrobiology*, **2006**, 6, 490-520	3.7	109
23	Modelling the dynamics of a minimal protocell container. *International Journal of Astrobiology*, **2005**, 4, 81-91	1.4	1
22	Proto-organism kinetics: evolutionary dynamics of lipid aggregates with genes and metabolism. *Origins of Life and Evolution of Biospheres*, **2004**, 34, 171-80	1.5	29
21	Evolution. Transitions from nonliving to living matter. *Science*, **2004**, 303, 963-5	33.3	253
20	AN ASTROPHYSICAL BASIS FOR A UNIVERSAL ORIGIN OF LIFE. *International Journal of Modeling, Simulation, and Scientific Computing*, **2003**, 06, 487-505	0.8	4
19	Collective intelligence of the artificial life community on its own successes, failures, and future. *Artificial Life*, **2003**, 9, 207-35	1.4	9
18	Bridging nonliving and living matter. *Artificial Life*, **2003**, 9, 269-316	1.4	178
17	Urban Settlement Transitions. *Environment and Planning B: Planning and Design*, **2002**, 29, 841-865		30
16	Ansatz for dynamical hierarchies. *Artificial Life*, **2001**, 7, 329-53	1.4	63
15	Defense of the ansatz for dynamical hierarchies. *Artificial Life*, **2001**, 7, 367-73	1.4	10
14	Open problems in artificial life. *Artificial Life*, **2000**, 6, 363-76	1.4	183
13	Modeling Cities: The Los Alamos Urban Security Initiative. *Public Works Management Policy*, **2000**, 4, 198-212	2.2	8
12	DYNAMICS AND SIMULATION OF MICELLAR SELF-REPRODUCTION. *International Journal of Modern Physics C*, **2000**, 11, 809-826	1.1	14
11	The Lattice Molecular Automaton(LMA): A Simulation System for Constructive Molecular Dynamics. *International Journal of Modern Physics C*, **1998**, 09, 157-177	1.1	11
10	Simulation and dynamics of entropy-driven, molecular self-assembly processes. *Physical Review E*, **1997**, 55, 4489-4499	2.4	25
9	Lattice polymer automata. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1994**, 98, 1185-1193		9

8	Adaptive Behavior in Sub-Neural Microtubule Automata. *Topics in Molecular Organization and Engineering*, **1991**, 175-181		
7	Information Dynamics of Self-Programmable Matter. *NATO ASI Series Series B: Physics*, **1991**, 223-245		3
6	The coreworld: Emergence and evolution of cooperative structures in a computational chemistry. *Physica D: Nonlinear Phenomena*, **1990**, 42, 111-134	3.3	53
5	Computational connectionism within neurons: A model of cytoskeletal automata subserving neural networks. *Physica D: Nonlinear Phenomena*, **1990**, 42, 428-449	3.3	126
4	Empirical indication of economic long waves in aggregate production. *European Journal of Operational Research*, **1989**, 42, 279-293	5.6	15
3	First cycles in random directed graph processes. *Discrete Mathematics*, **1989**, 75, 55-68	0.7	18
2	Technical economic succession and the economic long wave. *European Journal of Operational Research*, **1986**, 25, 27-38	5.6	15
1	Bifurcations and chaotic behavior in a simple model of the economic long wave. *System Dynamics Review*, **1985**, 1, 92-110	1.6	34