

Steen Rasmussen

List of Publications by Citations

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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	Evolution. Transitions from nonliving to living matter. <i>Science</i> , 2004 , 303, 963-5	33.3	253
60	Open problems in artificial life. <i>Artificial Life</i> , 2000 , 6, 363-76	1.4	183
59	Bridging nonliving and living matter. <i>Artificial Life</i> , 2003 , 9, 269-316	1.4	178
58	Computational connectionism within neurons: A model of cytoskeletal automata subserving neural networks. <i>Physica D: Nonlinear Phenomena</i> , 1990 , 42, 428-449	3.3	126
57	Experimentally tracing the key steps in the origin of life: The aromatic world. <i>Astrobiology</i> , 2006 , 6, 490-520	5.7	109
56	Consequences of the Term Breech Trial in Denmark. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2011 , 90, 767-71	3.8	98
55	Ansatz for dynamical hierarchies. <i>Artificial Life</i> , 2001 , 7, 329-53	1.4	63
54	Living technology: exploiting life w/principles in technology. <i>Artificial Life</i> , 2010 , 16, 89-97	1.4	61
53	Nucleobase mediated, photocatalytic vesicle formation from an ester precursor. <i>Journal of the American Chemical Society</i> , 2009 , 131, 931-3	16.4	60
52	The coreworld: Emergence and evolution of cooperative structures in a computational chemistry. <i>Physica D: Nonlinear Phenomena</i> , 1990 , 42, 111-134	3.3	53
51	Neonatal Risk Factors for Treatment-Demanding Retinopathy of Prematurity: A Danish National Study. <i>Ophthalmology</i> , 2016 , 123, 796-803	7.3	52
50	Life after the synthetic cell. <i>Nature</i> , 2010 , 465, 422-4	50.4	48
49	Open-Ended Evolution: Perspectives from the OEE Workshop in York. <i>Artificial Life</i> , 2016 , 22, 408-23	1.4	45
48	An Oil Droplet Division Fusion Cycle. <i>ChemPlusChem</i> , 2013 , 78, 52-54	2.8	43
47	The ten grand challenges of synthetic life. <i>Systems and Synthetic Biology</i> , 2011 , 5, 1-9		42
46	Peripartum cardiomyopathy in Denmark: a retrospective, population-based study of incidence, management and outcome. <i>European Journal of Heart Failure</i> , 2017 , 19, 1712-1720	12.3	38
45	Life cycle of a minimal protocell—a dissipative particle dynamics study. <i>Artificial Life</i> , 2007 , 13, 319-45	1.4	35

44	Bifurcations and chaotic behavior in a simple model of the economic long wave. <i>System Dynamics Review</i> , 1985 , 1, 92-110	1.6	34
43	Prelabor Cesarean Section and Risk of Childhood Type 1 Diabetes: A Nationwide Register-based Cohort Study. <i>Epidemiology</i> , 2016 , 27, 547-55	3.1	33
42	Broad-Spectrum Antibiotic Treatment and Subsequent Childhood Type 1 Diabetes: A Nationwide Danish Cohort Study. <i>PLoS ONE</i> , 2016 , 11, e0161654	3.7	32
41	Urban Settlement Transitions. <i>Environment and Planning B: Planning and Design</i> , 2002 , 29, 841-865		30
40	Uniform droplet splitting and detection using Lab-on-Chip flow cytometry on a microfluidic PDMS device. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 7-13	8.5	29
39	Proto-organism kinetics: evolutionary dynamics of lipid aggregates with genes and metabolism. <i>Origins of Life and Evolution of Biospheres</i> , 2004 , 34, 171-80	1.5	29
38	Simulation and dynamics of entropy-driven, molecular self-assembly processes. <i>Physical Review E</i> , 1997 , 55, 4489-4499	2.4	25
37	Interactions between catalysts and amphiphilic structures and their implications for a protocell model. <i>ChemPhysChem</i> , 2011 , 12, 828-35	3.2	24
36	Generic Darwinian selection in catalytic protocell assemblies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 1847-55	5.8	21
35	Emergence of protocellular growth laws. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 1841-5	5.8	20
34	Molecular dynamics study of small PNA molecules in lipid-water system. <i>Biophysical Journal</i> , 2007 , 92, 3081-91	2.9	18
33	First cycles in random directed graph processes. <i>Discrete Mathematics</i> , 1989 , 75, 55-68	0.7	18
32	Generating minimal living systems from non-living materials and increasing their evolutionary abilities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	17
31	Empirical indication of economic long waves in aggregate production. <i>European Journal of Operational Research</i> , 1989 , 42, 279-293	5.6	15
30	Technical economic succession and the economic long wave. <i>European Journal of Operational Research</i> , 1986 , 25, 27-38	5.6	15
29	Biological and Chemical Information Technologies. <i>Procedia Computer Science</i> , 2011 , 7, 56-60	1.6	14
28	DYNAMICS AND SIMULATION OF MICELLAR SELF-REPRODUCTION. <i>International Journal of Modern Physics C</i> , 2000 , 11, 809-826	1.1	14
27	The Lattice Molecular Automaton(LMA): A Simulation System for Constructive Molecular Dynamics. <i>International Journal of Modern Physics C</i> , 1998 , 09, 157-177	1.1	11

26	The MATCHIT automaton: exploiting compartmentalization for the synthesis of branched polymers. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 467428	2.8	10
25	Defense of the ansatz for dynamical hierarchies. <i>Artificial Life</i> , 2001 , 7, 367-73	1.4	10
24	Collective intelligence of the artificial life community on its own successes, failures, and future. <i>Artificial Life</i> , 2003 , 9, 207-35	1.4	9
23	Lattice polymer automata. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994 , 98, 1185-1193		9
22	Mode of delivery and subsequent reproductive patterns. A national follow-up study. <i>Acta Obstetricia Et Gynecologica Scandinavica</i> , 2014 , 93, 1034-41	3.8	8
21	Evolutionary self-organization in complex fluids. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 1763-79	5.8	8
20	Modeling Cities: The Los Alamos Urban Security Initiative. <i>Public Works Management Policy</i> , 2000 , 4, 198-212	2.62	8
19	Sequence selection by dynamical symmetry breaking in an autocatalytic binary polymer model. <i>Physical Review E</i> , 2017 , 96, 062407	2.4	7
18	Structure and selection in an autocatalytic binary polymer model. <i>Europhysics Letters</i> , 2014 , 107, 28004	1.6	6
17	Metabolic photofragmentation kinetics for a minimal protocell: rate-limiting factors, efficiency, and implications for evolution. <i>Artificial Life</i> , 2008 , 14, 189-201	1.4	6
16	Phototriggered DNA phosphoramidate ligation in a tandem 5'-amine deprotection/3'-imidazole activated phosphate coupling reaction. <i>Bioconjugate Chemistry</i> , 2012 , 23, 2014-9	6.3	4
15	On the Growth Rate of Non-Enzymatic Molecular Replicators. <i>Entropy</i> , 2011 , 13, 1882-1903	2.8	4
14	Collective intelligence for decision support in very large stakeholder networks: The future US energy system. 2007 ,		4
13	AN ASTROPHYSICAL BASIS FOR A UNIVERSAL ORIGIN OF LIFE. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2003 , 06, 487-505	0.8	4
12	Two Modes of Evolution: Optimization and Expansion. <i>Artificial Life</i> , 2019 , 25, 9-21	1.4	3
11	Machine Learning Optimization of Evolvable Artificial Cells. <i>Procedia Computer Science</i> , 2011 , 7, 187-189	1.6	3
10	Information Dynamics of Self-Programmable Matter. <i>NATO ASI Series Series B: Physics</i> , 1991 , 223-245		3
9	Models of Minimal Physical Intelligence. <i>Procedia Computer Science</i> , 2011 , 7, 275-277	1.6	2

8	Editorial. <i>Artificial Life</i> , 2015 , 21, 193-4	1.4	1
7	Modelling the dynamics of a minimal protocell container. <i>International Journal of Astrobiology</i> , 2005 , 4, 81-91	1.4	1
6	SARS-CoV-2 infection dynamics in Denmark, February through October 2020: Nature of the past epidemic and how it may develop in the future. <i>PLoS ONE</i> , 2021 , 16, e0249733	3.7	1
5	Application of molecular dynamics computer simulations in the design of a minimal self-replicating molecular machine. <i>Complexity</i> , 2008 , 13, 10-17	1.6	0
4	Human wealth evolution: Trends and fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 558, 124985	3.3	0
3	Modeling Cities—the Los Alamos Urban Security Initiative. <i>Special Publications</i> , 2013 , 427-442		
2	Adaptive Behavior in Sub-Neural Microtubule Automata. <i>Topics in Molecular Organization and Engineering</i> , 1991 , 175-181		
1	Reply. <i>Ophthalmology</i> , 2016 , 123, e73-e75	7.3	