

Steen Rasmussen

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,599
citations

236912

25
h-index

189881

50
g-index

66
all docs

66
docs citations

66
times ranked

1941
citing authors

#	ARTICLE	IF	CITATIONS
1	Transitions from Nonliving to Living Matter. <i>Science</i> , 2004, 303, 963-965.	12.6	339
2	Open Problems in Artificial Life. <i>Artificial Life</i> , 2000, 6, 363-376.	1.3	235
3	Bridging Nonliving and Living Matter. <i>Artificial Life</i> , 2003, 9, 269-316.	1.3	215
4	Computational connectionism within neurons: A model of cytoskeletal automata subserving neural networks. <i>Physica D: Nonlinear Phenomena</i> , 1990, 42, 428-449.	2.8	146
5	Experimentally Tracing the Key Steps in the Origin of Life: The Aromatic World. <i>Astrobiology</i> , 2006, 6, 490-520.	3.0	135
6	Consequences of the Term Breech Trial in Denmark. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2011, 90, 767-771.	2.8	117
7	Ansatz for Dynamical Hierarchies. <i>Artificial Life</i> , 2001, 7, 329-353.	1.3	105
8	Living Technology: Exploiting Life's Principles in Technology. <i>Artificial Life</i> , 2010, 16, 89-97.	1.3	85
9	Neonatal Risk Factors for Treatment-Demanding Retinopathy of Prematurity. <i>Ophthalmology</i> , 2016, 123, 796-803.	5.2	78
10	Open-Ended Evolution: Perspectives from the OEE Workshop in York. <i>Artificial Life</i> , 2016, 22, 408-423.	1.3	73
11	The coreworld: Emergence and evolution of cooperative structures in a computational chemistry. <i>Physica D: Nonlinear Phenomena</i> , 1990, 42, 111-134.	2.8	72
12	Nucleobase Mediated, Photocatalytic Vesicle Formation from an Ester Precursor. <i>Journal of the American Chemical Society</i> , 2009, 131, 931-933.	13.7	65
13	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.	7.1	64
14	Life after the synthetic cell. <i>Nature</i> , 2010, 465, 422-424.	27.8	56
15	The ten grand challenges of synthetic life. <i>Systems and Synthetic Biology</i> , 2011, 5, 1-9.	1.0	54
16	Broad-Spectrum Antibiotic Treatment and Subsequent Childhood Type 1 Diabetes: A Nationwide Danish Cohort Study. <i>PLoS ONE</i> , 2016, 11, e0161654.	2.5	52
17	Life Cycle of a Minimal Protocell—A Dissipative Particle Dynamics Study. <i>Artificial Life</i> , 2007, 13, 319-345.	1.3	48
18	An Oil Droplet Division—Fusion Cycle. <i>ChemPlusChem</i> , 2013, 78, 52-54.	2.8	47

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19	Bifurcations and chaotic behavior in a simple model of the economic long wave. <i>System Dynamics Review</i> , 1985, 1, 92-110.	1.9	42
20	Prelabor Cesarean Section and Risk of Childhood Type 1 Diabetes. <i>Epidemiology</i> , 2016, 27, 547-555.	2.7	37
21	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.	7.8	37
22	Simulation and dynamics of entropy-driven, molecular self-assembly processes. <i>Physical Review E</i> , 1997, 55, 4489-4499.	2.1	33
23	Urban Settlement Transitions. <i>Environment and Planning B: Planning and Design</i> , 2002, 29, 841-865.	1.7	33
24	Proto-Organism Kinetics: Evolutionary Dynamics of Lipid Aggregates with Genes and Metabolism. <i>Origins of Life and Evolution of Biospheres</i> , 2004, 34, 171-180.	1.9	32
25	Empirical indication of economic long waves in aggregate production. <i>European Journal of Operational Research</i> , 1989, 42, 279-293.	5.7	30
26	Interactions between Catalysts and Amphiphilic Structures and their Implications for a protocell Model. <i>ChemPhysChem</i> , 2011, 12, 828-835.	2.1	26
27	Generic Darwinian selection in catalytic protocell assemblies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1847-1855.	4.0	22
28	Molecular Dynamics Study of Small PNA Molecules in Lipid-Water System. <i>Biophysical Journal</i> , 2007, 92, 3081-3091.	0.5	22
29	First cycles in random directed graph processes. <i>Discrete Mathematics</i> , 1989, 75, 55-68.	0.7	21
30	Emergence of protocellular growth laws. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1841-1845.	4.0	20
31	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, 20150440.	4.0	20
32	Technical economic succession and the economic long wave. <i>European Journal of Operational Research</i> , 1986, 25, 27-38.	5.7	18
33	Biological and Chemical Information Technologies. <i>Procedia Computer Science</i> , 2011, 7, 56-60.	2.0	18
34	An Overview of Open-Ended Evolution: Editorial Introduction to the Open-Ended Evolution II Special Issue. <i>Artificial Life</i> , 2019, 25, 93-103.	1.3	18
35	DYNAMICS AND SIMULATION OF MICELLAR SELF-REPRODUCTION. <i>International Journal of Modern Physics C</i> , 2000, 11, 809-826.	1.7	15
36	The Lattice Molecular Automaton(LMA): A Simulation System for Constructive Molecular Dynamics. <i>International Journal of Modern Physics C</i> , 1998, 09, 157-177.	1.7	13

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37	Defense of the Ansatz for Dynamical Hierarchies. <i>Artificial Life</i> , 2001, 7, 367-373.	1.3	12
38	Collective Intelligence of the Artificial Life Community on Its Own Successes, Failures, and Future. <i>Artificial Life</i> , 2003, 9, 207-235.	1.3	12
39	Modeling Cities. <i>Public Works Management Policy</i> , 2000, 4, 198-212.	1.2	11
40	The MATCHIT Automaton: Exploiting Compartmentalization for the Synthesis of Branched Polymers. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-8.	1.3	11
41	Open-Ended Evolution and Open-Endedness: Editorial Introduction to the Open-Ended Evolution I Special Issue. <i>Artificial Life</i> , 2019, 25, 1-3.	1.3	11
42	Evolutionary self-organization in complex fluids. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1763-1779.	4.0	10
43	Sequence selection by dynamical symmetry breaking in an autocatalytic binary polymer model. <i>Physical Review E</i> , 2017, 96, 062407.	2.1	10
44	Lattice polymer automata. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994, 98, 1185-1193.	0.9	9
45	Mode of delivery and subsequent reproductive patterns. A national follow-up study. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2014, 93, 1034-1041.	2.8	9
46	Two Modes of Evolution: Optimization and Expansion. <i>Artificial Life</i> , 2019, 25, 9-21.	1.3	8
47	Collective intelligence for decision support in very large stakeholder networks: The future US energy system.. , 2007, , .		7
48	Metabolic Photofragmentation Kinetics for a Minimal Protocell: Rate-Limiting Factors, Efficiency, and Implications for Evolution. <i>Artificial Life</i> , 2008, 14, 189-201.	1.3	7
49	Structure and selection in an autocatalytic binary polymer model. <i>Europhysics Letters</i> , 2014, 107, 28004.	2.0	7
50	Models of Minimal Physical Intelligence. <i>Procedia Computer Science</i> , 2011, 7, 275-277.	2.0	5
51	AN ASTROPHYSICAL BASIS FOR A UNIVERSAL ORIGIN OF LIFE. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2003, 06, 487-505.	1.4	4
52	On the Growth Rate of Non-Enzymatic Molecular Replicators. <i>Entropy</i> , 2011, 13, 1882-1903.	2.2	4
53	Phototriggered DNA Phosphoramidate Ligation in a Tandem 5'-Amine Deprotection/3'-Imidazole Activated Phosphate Coupling Reaction. <i>Bioconjugate Chemistry</i> , 2012, 23, 2014-2019.	3.6	4
54	Information Dynamics of Self-Programmable Matter. <i>NATO ASI Series Series B: Physics</i> , 1991, , 223-245.	0.2	4

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55	Machine Learning Optimization of Evolvable Artificial Cells. <i>Procedia Computer Science</i> , 2011, 7, 187-189.	2.0	3
56	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.	2.5	3
57	Modelling the dynamics of a minimal protocell container. <i>International Journal of Astrobiology</i> , 2005, 4, 81-91.	1.6	1
58	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	1
59	Machine learning for drug design, molecular machines and evolvable artificial cells. , 2011, , .		1
60	Editorial. <i>Artificial Life</i> , 2015, 21, 193-194.	1.3	1
61	Human wealth evolution: Trends and fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 558, 124985.	2.6	1
62	Assembling living materials and engineering life-like technologies. , 2011, , .		0
63	Modeling Cities-The Los Alamos Urban Security Initiative. <i>Special Publications</i> , 2013, , 427-442.	0.0	0
64	Reply. <i>Ophthalmology</i> , 2016, 123, e73-e75.	5.2	0
65	Adaptive Behavior in Sub-Neural Microtubule Automata. <i>Topics in Molecular Organization and Engineering</i> , 1991, , 175-181.	0.1	0