

# Walter Fontana

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

3,876  
citations

393982

19  
h-index

752256

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Curvature in metabolic scaling: A reply to MacKay. <i>Journal of Theoretical Biology</i> , 2011, 280, 197-198.	0.8	5
2	Curvature in metabolic scaling. <i>Nature</i> , 2010, 464, 753-756.	13.7	293
3	Lifespan-on-a-chip: microfluidic chambers for performing lifelong observation of <i>C. elegans</i> . <i>Lab on A Chip</i> , 2010, 10, 589-597.	3.1	219
4	Sizing Up Allometric Scaling Theory. <i>PLoS Computational Biology</i> , 2008, 4, e1000171.	1.5	198
5	A microfabricated array of clamps for immobilizing and imaging <i>C. elegans</i> . <i>Lab on A Chip</i> , 2007, 7, 1515.	3.1	222
6	The Topology of the Possible. , 2006, , 67-84.		11
7	Modelling 'evo-devo' with RNA. <i>BioEssays</i> , 2002, 24, 1164-1177.	1.2	162
8	The Topology of the Possible: Formal Spaces Underlying Patterns of Evolutionary Change. <i>Journal of Theoretical Biology</i> , 2001, 213, 241-274.	0.8	265
9	Plasticity, evolvability, and modularity in RNA. <i>The Journal of Experimental Zoology</i> , 2000, 288, 242-283.	1.4	392
10	RNA folding at elementary step resolution. <i>Rna</i> , 2000, 6, 325-338.	1.6	266
11	Plasticity, evolvability, and modularity in RNA. , 2000, 288, 242.		10
12	Chance and necessity in evolution: lessons from RNA. <i>Physica D: Nonlinear Phenomena</i> , 1999, 133, 427-452.	1.3	63
13	Complete suboptimal folding of RNA and the stability of secondary structures. , 1999, 49, 145-165.		455
14	Shaping Space: the Possible and the Attainable in RNA Genotype-phenotype Mapping. <i>Journal of Theoretical Biology</i> , 1998, 194, 491-515.	0.8	163
15	Statistics of RNA melting kinetics. <i>European Biophysics Journal</i> , 1994, 23, 29-38.	1.2	45
16	â€œThe arrival of the fittestâ€ Toward a theory of biological organization. <i>Bulletin of Mathematical Biology</i> , 1994, 56, 1-64.	0.9	202
17	Statistics of RNA secondary structures. <i>Biopolymers</i> , 1993, 33, 1389-1404.	1.2	265
18	Random catalytic reaction networks. <i>Physica D: Nonlinear Phenomena</i> , 1993, 63, 378-392.	1.3	66

#	ARTICLE	IF	CITATIONS
19	Beyond Digital Naturalism. <i>Artificial Life</i> , 1993, 1, 211-227.	1.0	23
20	RNA folding and combinatorial landscapes. <i>Physical Review E</i> , 1993, 47, 2083-2099.	0.8	202
21	Statistics of landscapes based on free energies, replication and degradation rate constants of RNA secondary structures. <i>Monatshefte für Chemie</i> , 1991, 122, 795-819.	0.9	36
22	Physical aspects of evolutionary optimization and adaptation. <i>Physical Review A</i> , 1989, 40, 3301-3321.	1.0	112
23	A computer model of evolutionary optimization. <i>Biophysical Chemistry</i> , 1987, 26, 123-147.	1.5	201