

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	Complete suboptimal folding of RNA and the stability of secondary structures. , 1999, 49, 145-165.		455
2	Plasticity, evolvability, and modularity in RNA. The Journal of Experimental Zoology, 2000, 288, 242-283.	1.4	392
3	Curvature in metabolic scaling. Nature, 2010, 464, 753-756.	13.7	293
4	RNA folding at elementary step resolution. Rna, 2000, 6, 325-338.	1.6	266
5	Statistics of RNA secondary structures. Biopolymers, 1993, 33, 1389-1404.	1.2	265
6	The Topology of the Possible: Formal Spaces Underlying Patterns of Evolutionary Change. Journal of Theoretical Biology, 2001, 213, 241-274.	0.8	265
7	A microfabricated array of clamps for immobilizing and imaging C. elegans. Lab on A Chip, 2007, 7, 1515.	3.1	222
8	Lifespan-on-a-chip: microfluidic chambers for performing lifelong observation of C. elegans. Lab on A Chip, 2010, 10, 589-597.	3.1	219
9	RNA folding and combinatorial landscapes. Physical Review E, 1993, 47, 2083-2099.	0.8	202
10	“The arrival of the fittest” Toward a theory of biological organization. Bulletin of Mathematical Biology, 1994, 56, 1-64.	0.9	202
11	A computer model of evolutionary optimization. Biophysical Chemistry, 1987, 26, 123-147.	1.5	201
12	Sizing Up Allometric Scaling Theory. PLoS Computational Biology, 2008, 4, e1000171.	1.5	198
13	Shaping Space: the Possible and the Attainable in RNA Genotype-phenotype Mapping. Journal of Theoretical Biology, 1998, 194, 491-515.	0.8	163
14	Modelling ‘evo-devo’ with RNA. BioEssays, 2002, 24, 1164-1177.	1.2	162
15	Physical aspects of evolutionary optimization and adaptation. Physical Review A, 1989, 40, 3301-3321.	1.0	112
16	Random catalytic reaction networks. Physica D: Nonlinear Phenomena, 1993, 63, 378-392.	1.3	66
17	Chance and necessity in evolution: lessons from RNA. Physica D: Nonlinear Phenomena, 1999, 133, 427-452.	1.3	63
18	Statistics of RNA melting kinetics. European Biophysics Journal, 1994, 23, 29-38.	1.2	45

#	ARTICLE	IF	CITATIONS
19	Statistics of landscapes based on free energies, replication and degradation rate constants of RNA secondary structures. Monatshefte für Chemie, 1991, 122, 795-819.	0.9	36
20	Beyond Digital Naturalism. Artificial Life, 1993, 1, 211-227.	1.0	23
21	The Topology of the Possible. , 2006, , 67-84.		11
22	Plasticity, evolvability, and modularity in RNA. , 2000, 288, 242.		10
23	Curvature in metabolic scaling: A reply to MacKay. Journal of Theoretical Biology, 2011, 280, 197-198.	0.8	5