Walter Fontana

List of Publications by Year
in descending order

21	556	1163117 8	1125743 13
papers	citations	h-index	g-index

22	22	22	945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The temporal scaling of Caenorhabditis elegans ageing. Nature, 2016, 530, 103-107.	27.8	162
2	An Insulin-to-Insulin Regulatory Network Orchestrates Phenotypic Specificity in Development and Physiology. PLoS Genetics, 2014, 10, e1004225.	3.5	90
3	The Kappa platform for rule-based modeling. Bioinformatics, 2018, 34, i583-i592.	4.1	83
4	Abstracting the Differential Semantics of Rule-Based Models: Exact and Automated Model Reduction. , 2010, , .		53
5	Combinatorial Complexity and Compositional Drift in Protein Interaction Networks. PLoS ONE, 2012, 7, e32032.	2.5	42
6	Regulated spatial organization and sensitivity of cytosolic protein oxidation in Caenorhabditis elegans. Nature Communications, 2014, 5, 5020.	12.8	34
7	Age-Dependence and Aging-Dependence: Neuronal Loss and Lifespan in a C. elegans Model of Parkinsonâ€™s Disease. Biology, 2018, 7, 1.	2.8	30
8	Systems biology, models, and concurrency. ACM SIGPLAN Notices, 2008, 43, 1-2.	0.2	14
9	CHEMISTRY: Pulling Strings. Science, 2006, 314, 1552-1553.	12.6	12
10	A knowledge representation meta-model for rule-based modelling of signalling networks. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 204, 47-59.	0.8	8
11	Combinatorial proteinâ€“protein interactions on a polymerizing scaffold. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2930-2937.	7.1	7
12	Graph transformation for enzymatic mechanisms. Bioinformatics, 2021, 37, i392-i400.	4.1	5
13	Counterfactual Resimulation for Causal Analysis of Rule-Based Models. , 2018, , .		4
14	Compressibility of random walker trajectories on growing networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2028-2032.	2.1	3
15	Random walker's view of networks whose growth it shapes. Physical Review E, 2019, 99, 062306.	2.1	2
16	RuleVis: Constructing Patterns and Rules for Rule-Based Models. , 2019, , .		2
17	Interactions between Causal Structures in Graph Rewriting Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 286, 65-78.	0.8	2
18	Probabilistic Inference with Polymerizing Biochemical Circuits. Entropy, 2022, 24, 629.	2.2	2

#	Article	IF	Citations
19	Modeling random walkers on growing random networks. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 121117.	2.6	0
20	Balancing Conservative and Disruptive Growth in the Voter Model. Journal of Statistical Physics, 2021, 183, 1.	1.2	0
21	Cayley Graphs of Semigroups Applied to Atom Tracking in Chemistry. Journal of Computational Biology, 2021, 28, 701-715.	1.6	0