Vincent Danos

List of Publications by Year
in descending order

| 46 papers | 2,354 citations | 516215
16 h-index | 253896
43 g-index |
|---|---|---|---|
| 47 all docs | 47 docs citations | 47 times ranked | 1498 citing authors |

#	Article	IF	Citations
1	Formal molecular biology. Theoretical Computer Science, 2004, 325, 69-110.	0.5	383
2	Mechanistic links between cellular trade-offs, gene expression, and growth. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1038-47.	3.3	342
3	The structure of multiplicatives. Archive for Mathematical Logic, 1989, 28, 181-203.	0.2	242
4	Internal coarse-graining of molecular systems. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6453-6458.	3.3	181
5	Rule-Based Modelling of Cellular Signalling. Lecture Notes in Computer Science, 2007, , 17-41.	1.0	153
6	Scalable Simulation of Cellular Signaling Networks. Lecture Notes in Computer Science, 2007, , 139-157.	1.0	119
7	The measurement calculus. Journal of the ACM, 2007, 54, 8.	1.8	106
8	A new deconstructive logic: linear logic. Journal of Symbolic Logic, 1997, 62, 755-807.	0.4	98
9	Sources, propagation and consequences of stochasticity in cellular growth. Nature Communications, 2018, 9, 4528.	5.8	76
10	Bisimulation and cocongruence for probabilistic systems. Information and Computation, 2006, 204, 503-523.	0.5	62
11	Linear logic and elementary time. Information and Computation, 2003, 183, 123-137.	0.5	55
12	Abstracting the Differential Semantics of Rule-Based Models: Exact and Automated Model Reduction. , 2010, , .		53
13	Rule-Based Modelling, Symmetries, Refinements. , 2008, , 103-122.		51
14	Abstract Interpretation of Cellular Signalling Networks. Lecture Notes in Computer Science, 2008, , 83-97.	1.0	51
15	Intrinsic information carriers in combinatorial dynamical systems. Chaos, 2010, 20, 037108.	1.0	45
16	Quantitative genomic analysis of RecA protein binding during DNA double-strand break repair reveals RecBCD action in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4735-42.	3.3	45
17	Combinatorial Complexity and Compositional Drift in Protein Interaction Networks. PLoS ONE, 2012, 7, e32032.	1.1	42
18	Formal Molecular Biology Done in CCS-R. Electronic Notes in Theoretical Computer Science, 2007, 180, 31-49.	0.9	39

#	Article	IF	Citations
19	The structure of exponentials: Uncovering the dynamics of linear logic proofs. , 1993, , 159-171.		35
20	Approximating Markov Processes by Averaging. Journal of the ACM, 2014, 61, 1-45.	1.8	19
21	Annotation of rule-based models with formal semantics to enable creation, analysis, reuse and visualization. Bioinformatics, 2016, 32, 908-917.	1.8	18
22	On the linear decoration of intuitionistic derivations. Archive for Mathematical Logic, 1995, 33, 387-412.	0.2	15
23	Distributed Measurement-based Quantum Computation. Electronic Notes in Theoretical Computer Science, 2007, 170, 73-94.	0.9	14
24	Modelling Epigenetic Information Maintenance: A Kappa Tutorial. Lecture Notes in Computer Science, 2009, , 17-32.	1.0	12
25	On the Statistical Thermodynamics of Reversible Communicating Processes. Lecture Notes in Computer Science, 2011, , 1-18.	1.0	10
26	Reversible, Irreversible and Optimal λ-machines. Electronic Notes in Theoretical Computer Science, 1996, 3, 40-60.	0.9	8
27	Self-assembling Trees. Electronic Notes in Theoretical Computer Science, 2007, 175, 19-32.	0.9	8
28	Agile Modelling of Cellular Signalling (Invited Paper). Electronic Notes in Theoretical Computer Science, 2009, 229, 3-10.	0.9	8
29	Equilibrium and termination II: the case of Petri nets. Mathematical Structures in Computer Science, 2013, 23, 290-307.	0.5	7
30	Approximating Markov Processes by Averaging. Lecture Notes in Computer Science, 2009, , 127-138.	1.0	7
31	Kappa Rule-Based Modeling in Synthetic Biology. Methods in Molecular Biology, 2015, 1244, 105-135.	0.4	6
32	Rigid Geometric Constraints for Kappa Models. Electronic Notes in Theoretical Computer Science, 2015, 313, 23-46.	0.9	5
33	Classical Knowledge for Quantum Cryptographic Reasoning. Electronic Notes in Theoretical Computer Science, 2008, 192, 39-58.	0.9	4
34	Dirichlet is Natural. Electronic Notes in Theoretical Computer Science, 2015, 319, 137-164.	0.9	4
35	Borel Kernels and their Approximation, Categorically. Electronic Notes in Theoretical Computer Science, 2018, 341, 91-119.	0.9	4
36	Transformation and Refinement of Rigid Structures. Lecture Notes in Computer Science, 2014, , 146-160.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Self-assembling graphs. Natural Computing, 2007, 6, 339-358.	1.8	3
38	Giry and the Machine. Electronic Notes in Theoretical Computer Science, 2016, 325, 85-110.	0.9	3
39	Moment Semantics for Reversible Rule-Based Systems. Lecture Notes in Computer Science, 2015, , 3-26.	1.0	3
40	Pauli Measurements are Universal. Electronic Notes in Theoretical Computer Science, 2007, 170, 95-100.	0.9	2
41	Coarse-graining the Dynamics of Ideal Branched Polymers. Electronic Notes in Theoretical Computer Science, 2015, 313, 47-64.	0.9	2
42	Survival of the Fattest: Evolutionary Trade-offs in Cellular Resource Storage. Electronic Notes in Theoretical Computer Science, 2018, 335, 91-112.	0.9	2
43	A Genetic Circuit Compiler: Generating Combinatorial Genetic Circuits with Web Semantics and Inference. ACS Synthetic Biology, 2018, 7, 2812-2823.	1.9	2
44	Approximating Labelled Markov Processes Again!. Lecture Notes in Computer Science, 2009, , 145-156.	1.0	2
45	Rate Equations for Graphs. Lecture Notes in Computer Science, 2020, , 3-26.	1.0	1
46	Synchronous Balanced Analysis. Lecture Notes in Computer Science, 2016, , 85-94.	1.0	0