

Vincent Danos

List of Publications by Year in descending order

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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	Rate Equations for Graphs. Lecture Notes in Computer Science, 2020, , 3-26.	1.0	1
2	Survival of the Fattest: Evolutionary Trade-offs in Cellular Resource Storage. Electronic Notes in Theoretical Computer Science, 2018, 335, 91-112.	0.9	2
3	Borel Kernels and their Approximation, Categorically. Electronic Notes in Theoretical Computer Science, 2018, 341, 91-119.	0.9	4
4	A Genetic Circuit Compiler: Generating Combinatorial Genetic Circuits with Web Semantics and Inference. ACS Synthetic Biology, 2018, 7, 2812-2823.	1.9	2
5	Sources, propagation and consequences of stochasticity in cellular growth. Nature Communications, 2018, 9, 4528.	5.8	76
6	Giry and the Machine. Electronic Notes in Theoretical Computer Science, 2016, 325, 85-110.	0.9	3
7	Synchronous Balanced Analysis. Lecture Notes in Computer Science, 2016, , 85-94.	1.0	0
8	Annotation of rule-based models with formal semantics to enable creation, analysis, reuse and visualization. Bioinformatics, 2016, 32, 908-917.	1.8	18
9	Coarse-graining the Dynamics of Ideal Branched Polymers. Electronic Notes in Theoretical Computer Science, 2015, 313, 47-64.	0.9	2
10	Rigid Geometric Constraints for Kappa Models. Electronic Notes in Theoretical Computer Science, 2015, 313, 23-46.	0.9	5
11	Dirichlet is Natural. Electronic Notes in Theoretical Computer Science, 2015, 319, 137-164.	0.9	4
12	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
13	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
14	Kappa Rule-Based Modeling in Synthetic Biology. Methods in Molecular Biology, 2015, 1244, 105-135.	0.4	6
15	Moment Semantics for Reversible Rule-Based Systems. Lecture Notes in Computer Science, 2015, , 3-26.	1.0	3
16	Approximating Markov Processes by Averaging. Journal of the ACM, 2014, 61, 1-45.	1.8	19
17	Transformation and Refinement of Rigid Structures. Lecture Notes in Computer Science, 2014, , 146-160.	1.0	4
18	Equilibrium and termination II: the case of Petri nets. Mathematical Structures in Computer Science, 2013, 23, 290-307.	0.5	7

#	ARTICLE	IF	CITATIONS
19	Combinatorial Complexity and Compositional Drift in Protein Interaction Networks. PLoS ONE, 2012, 7, e32032.	1.1	42
20	On the Statistical Thermodynamics of Reversible Communicating Processes. Lecture Notes in Computer Science, 2011, , 1-18.	1.0	10
21	Intrinsic information carriers in combinatorial dynamical systems. Chaos, 2010, 20, 037108.	1.0	45
22	Abstracting the Differential Semantics of Rule-Based Models: Exact and Automated Model Reduction. , 2010, , .		53
23	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
24	Agile Modelling of Cellular Signalling (Invited Paper). Electronic Notes in Theoretical Computer Science, 2009, 229, 3-10.	0.9	8
25	Modelling Epigenetic Information Maintenance: A Kappa Tutorial. Lecture Notes in Computer Science, 2009, , 17-32.	1.0	12
26	Approximating Markov Processes by Averaging. Lecture Notes in Computer Science, 2009, , 127-138.	1.0	7
27	Approximating Labelled Markov Processes Again!. Lecture Notes in Computer Science, 2009, , 145-156.	1.0	2
28	Classical Knowledge for Quantum Cryptographic Reasoning. Electronic Notes in Theoretical Computer Science, 2008, 192, 39-58.	0.9	4
29	Rule-Based Modelling, Symmetries, Refinements. , 2008, , 103-122.		51
30	Abstract Interpretation of Cellular Signalling Networks. Lecture Notes in Computer Science, 2008, , 83-97.	1.0	51
31	The measurement calculus. Journal of the ACM, 2007, 54, 8.	1.8	106
32	Rule-Based Modelling of Cellular Signalling. Lecture Notes in Computer Science, 2007, , 17-41.	1.0	153
33	Distributed Measurement-based Quantum Computation. Electronic Notes in Theoretical Computer Science, 2007, 170, 73-94.	0.9	14
34	Formal Molecular Biology Done in CCS-R. Electronic Notes in Theoretical Computer Science, 2007, 180, 31-49.	0.9	39
35	Self-assembling graphs. Natural Computing, 2007, 6, 339-358.	1.8	3
36	Self-assembling Trees. Electronic Notes in Theoretical Computer Science, 2007, 175, 19-32.	0.9	8

#	ARTICLE	IF	CITATIONS
37	Pauli Measurements are Universal. <i>Electronic Notes in Theoretical Computer Science</i> , 2007, 170, 95-100.	0.9	2
38	Scalable Simulation of Cellular Signaling Networks. <i>Lecture Notes in Computer Science</i> , 2007, , 139-157.	1.0	119
39	Bisimulation and cocongruence for probabilistic systems. <i>Information and Computation</i> , 2006, 204, 503-523.	0.5	62
40	Formal molecular biology. <i>Theoretical Computer Science</i> , 2004, 325, 69-110.	0.5	383
41	Linear logic and elementary time. <i>Information and Computation</i> , 2003, 183, 123-137.	0.5	55
42	A new deconstructive logic: linear logic. <i>Journal of Symbolic Logic</i> , 1997, 62, 755-807.	0.4	98
43	Reversible, Irreversible and Optimal $\hat{\lambda}$ -machines. <i>Electronic Notes in Theoretical Computer Science</i> , 1996, 3, 40-60.	0.9	8
44	On the linear decoration of intuitionistic derivations. <i>Archive for Mathematical Logic</i> , 1995, 33, 387-412.	0.2	15
45	The structure of exponentials: Uncovering the dynamics of linear logic proofs. , 1993, , 159-171.		35
46	The structure of multiplicatives. <i>Archive for Mathematical Logic</i> , 1989, 28, 181-203.	0.2	242