

Robert Brijder

List of Publications by Year in descending order

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56
papers

368
citations

1039880

9
h-index

887953

17
g-index

60
all docs

60
docs citations

60
times ranked

180
citing authors

#	ARTICLE	IF	CITATIONS
1	A TOUR OF REACTION SYSTEMS. International Journal of Foundations of Computer Science, 2011, 22, 1499-1517.	0.8	94
2	Reaction Systems with Duration. Lecture Notes in Computer Science, 2011, , 191-202.	1.0	25
3	The group structure of pivot and loop complementation on graphs and set systems. European Journal of Combinatorics, 2011, 32, 1353-1367.	0.5	21
4	Interlace polynomials for multimatroids and delta-matroids. European Journal of Combinatorics, 2014, 40, 142-167.	0.5	20
5	Reducibility of gene patterns in ciliates using the breakpoint graph. Theoretical Computer Science, 2006, 356, 26-45.	0.5	18
6	Membrane systems with proteins embedded in membranes. Theoretical Computer Science, 2008, 404, 26-39.	0.5	14
7	Membrane Systems with Marked Membranes. Electronic Notes in Theoretical Computer Science, 2007, 171, 25-36.	0.9	13
8	Conditions for extinction events in chemical reaction networks with discrete state spaces. Journal of Mathematical Biology, 2018, 76, 1535-1558.	0.8	12
9	Nullity and Loop Complementation for Delta-Matroids. SIAM Journal on Discrete Mathematics, 2013, 27, 492-506.	0.4	11
10	Maximal pivots on graphs with an application to gene assembly. Discrete Applied Mathematics, 2010, 158, 1977-1985.	0.5	9
11	Computing with chemical reaction networks: a tutorial. Natural Computing, 2019, 18, 119-137.	1.8	9
12	On aggregation in multiset-based self-assembly of graphs. Natural Computing, 2011, 10, 17-38.	1.8	7
13	Nullity invariance for pivot and the interlace polynomial. Linear Algebra and Its Applications, 2011, 435, 277-288.	0.4	7
14	Cycles and communicating classes in membrane systems and molecular dynamics. Theoretical Computer Science, 2007, 372, 242-266.	0.5	6
15	Strategies of loop recombination in ciliates. Discrete Applied Mathematics, 2008, 156, 1736-1753.	0.5	6
16	Pivots, determinants, and perfect matchings of graphs. Theoretical Computer Science, 2012, 454, 64-71.	0.5	6
17	Computational Nature of Gene Assembly in Ciliates. , 2012, , 1233-1280.		6
18	A String-Based Model for Simple Gene Assembly. Lecture Notes in Computer Science, 2007, , 161-172.	1.0	6

#	ARTICLE	IF	CITATIONS
19	Dominance and T-Invariants for Petri Nets and Chemical Reaction Networks. Lecture Notes in Computer Science, 2015, , 1-15.	1.0	5
20	Graph-Theoretic Formalization of Hybridization in DNA Sticker Complexes. Lecture Notes in Computer Science, 2011, , 49-63.	1.0	5
21	The fibers and range of reduction graphs in ciliates. Acta Informatica, 2008, 45, 383-402.	0.5	4
22	On the inference of non-confluent NLC graph grammars. Journal of Logic and Computation, 2013, 23, 799-814.	0.5	4
23	The DNA query language DNAQL. , 2013, , .		4
24	Applicability of Loop Recombination in Ciliates Using the Breakpoint Graph. Lecture Notes in Computer Science, 2006, , 97-106.	1.0	4
25	Output Stability and Semilinear Sets in Chemical Reaction Networks and Deciders. Lecture Notes in Computer Science, 2014, , 100-113.	1.0	4
26	The Algebra of Gene Assembly in Ciliates. Natural Computing Series, 2014, , 289-307.	2.2	4
27	Isotropic Matroids I: Multimatroids and Neighborhoods. Electronic Journal of Combinatorics, 2016, 23, .	0.2	4
28	COMPLEXITY OF BIO-COMPUTATION: SYMBOLIC DYNAMICS IN MEMBRANE SYSTEMS. International Journal of Foundations of Computer Science, 2006, 17, 147-165.	0.8	3
29	Perfectly quilted rectangular snake tilings. Theoretical Computer Science, 2009, 410, 1486-1494.	0.5	3
30	Recombination faults in gene assembly in ciliates modeled using multimatroids. Theoretical Computer Science, 2015, 608, 27-35.	0.5	3
31	Minimal output unstable configurations in chemical reaction networks and deciders. Natural Computing, 2016, 15, 235-244.	1.8	3
32	REDUCTION GRAPHS FROM OVERLAP GRAPHS FOR GENE ASSEMBLY IN CILIATES. International Journal of Foundations of Computer Science, 2009, 20, 271-291.	0.8	2
33	Combining overlap and containment for gene assembly in ciliates. Theoretical Computer Science, 2010, 411, 897-905.	0.5	2
34	Binary Symmetric Matrix Inversion Through Local Complementatation. Fundamenta Informaticae, 2012, 116, 15-23.	0.3	2
35	A comparison of graph-theoretic DNA hybridization models. Theoretical Computer Science, 2012, 429, 46-53.	0.5	2
36	Graph-theoretic formalization of hybridization in DNA sticker complexes. Natural Computing, 2013, 12, 223-234.	1.8	2

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37	Dominance and deficiency for Petri nets and chemical reaction networks. <i>Natural Computing</i> , 2017, 16, 285-294.	1.8	2
38	Democratic, existential, and consensus-based output conventions in stable computation by chemical reaction networks. <i>Natural Computing</i> , 2018, 17, 97-108.	1.8	2
39	Robustness of Expressivity in Chemical Reaction Networks. <i>Lecture Notes in Computer Science</i> , 2016, , 52-66.	1.0	2
40	MATLANG. <i>SIGMOD Record</i> , 2019, 48, 60-67.	0.7	2
41	Extended strings and graphs for simple gene assembly. <i>Theoretical Computer Science</i> , 2010, 411, 730-738.	0.5	1
42	The nullity theorem for principal pivot transform. <i>Linear Algebra and Its Applications</i> , 2013, 439, 3638-3642.	0.4	1
43	Orienting transversals and transition polynomials of multimatroids. <i>Advances in Applied Mathematics</i> , 2018, 94, 120-155.	0.4	1
44	From Micro to Macro: How the Overlap Graph Determines the Reduction Graph in Ciliates. <i>Lecture Notes in Computer Science</i> , 2007, , 149-160.	1.0	1
45	Pivot and Loop Complementation on Graphs and Set Systems. <i>Lecture Notes in Computer Science</i> , 2010, , 151-162.	1.0	1
46	A characterization of circle graphs in terms of total unimodularity. <i>European Journal of Combinatorics</i> , 2022, 102, 103455.	0.5	1
47	Using Sorting by Reversal: Breakpoint Graph for Gene Assembly in Ciliates. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
48	Sorting by reversals and the theory of 4-regular graphs. <i>Theoretical Computer Science</i> , 2017, 701, 40-53.	0.5	0
49	Graphs Associated With DNA Rearrangements and Their Polynomials. , 2019, , 61-87.		0
50	Counterexamples to a conjecture of Las Vergnas. <i>European Journal of Combinatorics</i> , 2020, 89, 103141.	0.5	0
51	DNAQL: a query language for DNA sticker complexes. <i>Natural Computing</i> , 2021, 20, 161-189.	1.8	0
52	Membrane Systems with External Control. <i>Lecture Notes in Computer Science</i> , 2006, , 215-232.	1.0	0
53	Reality-and-Desire in Ciliates. <i>Natural Computing Series</i> , 2009, , 99-115.	2.2	0
54	Characterizing Compressibility of Disjoint Subgraphs with NLC Grammars. <i>Lecture Notes in Computer Science</i> , 2011, , 167-178.	1.0	0

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55	Graph Polynomials Motivated by Gene Rearrangements in Ciliates. Lecture Notes in Computer Science, 2014, , 63-72.	1.0	0
56	Characterizing Reduction Graphs for Gene Assembly in Ciliates. Lecture Notes in Computer Science, 2007, , 120-131.	1.0	0