

Valerie Berthe

List of Publications by Year in descending order

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68
papers

856
citations

471061

17
h-index

552369

26
g-index

72
all docs

72
docs citations

72
times ranked

184
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of generalized continued fraction algorithms over polynomials. Finite Fields and Their Applications, 2021, 73, 101849.	0.6	0
2	The carry propagation of the successor function. Advances in Applied Mathematics, 2020, 120, 102062.	0.4	1
3	On Decision Problems for Substitutions in Symbolic Dynamics. Lecture Notes in Computer Science, 2020, , 3-19.	1.0	0
4	Recognizability for sequences of morphisms. Ergodic Theory and Dynamical Systems, 2019, 39, 2896-2931.	0.4	30
5	Balancedness and coboundaries in symbolic systems. Theoretical Computer Science, 2019, 777, 93-110.	0.5	8
6	Geometry, dynamics, and arithmetic of S -adic shifts. Annales De L'Institut Fourier, 2019, 69, 1347-1409.	0.2	16
7	The Brun gcd algorithm in high dimensions is almost always subtractive. Journal of Symbolic Computation, 2018, 85, 72-107.	0.5	2
8	Rigidity and Substitutive Dendric Words. International Journal of Foundations of Computer Science, 2018, 29, 705-720.	0.8	10
9	General Framework. Trends in Mathematics, 2018, , 1-36.	0.1	0
10	Some constructions for the higher-dimensional three-distance theorem. Acta Arithmetica, 2018, 184, 385-411.	0.2	4
11	Preface to the special issue on automatic sequences, number theory, and aperiodic order. Indagationes Mathematicae, 2017, 28, 1-2.	0.2	1
12	Specular sets. Theoretical Computer Science, 2017, 684, 3-28.	0.5	5
13	Return words of linear involutions and fundamental groups. Ergodic Theory and Dynamical Systems, 2017, 37, 693-715.	0.4	5
14	Analysis of the Brun Gcd Algorithm. , 2016, , .		0
15	Probabilistic analyses of the plain multiple gcd algorithm. Journal of Symbolic Computation, 2016, 74, 425-474.	0.5	6
16	The S-adic Pisot conjecture on two letters. Topology and Its Applications, 2016, 205, 47-57.	0.2	3
17	A combinatorial approach to products of Pisot substitutions. Ergodic Theory and Dynamical Systems, 2016, 36, 1757-1794.	0.4	5
18	Effective S-adic Symbolic Dynamical Systems. Lecture Notes in Computer Science, 2016, , 13-23.	1.0	1

#	ARTICLE	IF	CITATIONS
19	Bifix codes and interval exchanges. <i>Journal of Pure and Applied Algebra</i> , 2015, 219, 2781-2798.	0.3	15
20	The finite index basis property. <i>Journal of Pure and Applied Algebra</i> , 2015, 219, 2521-2537.	0.3	18
21	Maximal bifix decoding. <i>Discrete Mathematics</i> , 2015, 338, 725-742.	0.4	23
22	Acyclic, connected and tree sets. <i>Monatshefte Fur Mathematik</i> , 2015, 176, 521-550.	0.5	42
23	Specular Sets. <i>Lecture Notes in Computer Science</i> , 2015, , 210-222.	1.0	3
24	Recurrence Function on Sturmian Words: A Probabilistic Study. <i>Lecture Notes in Computer Science</i> , 2015, , 116-128.	1.0	1
25	Connectedness of fractals associated with Arnoux's Rauzy substitutions. <i>RAIRO - Theoretical Informatics and Applications</i> , 2014, 48, 249-266.	0.5	13
26	Fine costs for Euclid's algorithm on polynomials and Farey maps. <i>Advances in Applied Mathematics</i> , 2014, 54, 27-65.	0.4	3
27	A study of Jacobi's Perron boundary words for the generation of discrete planes. <i>Theoretical Computer Science</i> , 2013, 502, 118-142.	0.5	3
28	BALANCE PROPERTIES OF ARNOUX'S RAUZY WORDS. <i>International Journal of Algebra and Computation</i> , 2013, 23, 689-703.	0.4	13
29	Generating Discrete Planes with Substitutions. <i>Lecture Notes in Computer Science</i> , 2013, , 58-70.	1.0	5
30	Convergence and Factor Complexity for the Arnoux-Rauzy-Poincaré Algorithm. <i>Lecture Notes in Computer Science</i> , 2013, , 71-82.	1.0	0
31	Critical Connectedness of Thin Arithmetical Discrete Planes. <i>Lecture Notes in Computer Science</i> , 2013, , 107-118.	1.0	9
32	Selfdual substitutions in dimension one. <i>European Journal of Combinatorics</i> , 2012, 33, 981-1000.	0.5	4
33	Numeration and discrete dynamical systems. <i>Computing (Vienna/New York)</i> , 2012, 94, 369-387.	3.2	4
34	Brun expansions of stepped surfaces. <i>Discrete Mathematics</i> , 2011, 311, 521-543.	0.4	16
35	Fractal tiles associated with shift radix systems. <i>Advances in Mathematics</i> , 2011, 226, 139-175.	0.5	16
36	About thin arithmetic discrete planes. <i>Theoretical Computer Science</i> , 2011, 412, 4757-4769.	0.5	0

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37	An Arithmetic and Combinatorial Approach to Three-Dimensional Discrete Lines. Lecture Notes in Computer Science, 2011, , 47-58.	1.0	8
38	Arithmetic Discrete Planes Are Quasicrystals. Lecture Notes in Computer Science, 2009, , 1-12.	1.0	2
39	Discrete geometry and numeration. Actes Des Rencontres Du CIRM, 2009, 1, 17-22.	0.0	0
40	Boundary of central tiles associated with Pisot beta-numeration and purely periodic expansions. Monatshefte Fur Mathematik, 2008, 155, 377-419.	0.5	26
41	On an involution of Christoffel words and Sturmian morphisms. European Journal of Combinatorics, 2008, 29, 535-553.	0.5	43
42	Asymptotic behavior of the number of solutions for non-Archimedean Diophantine approximations with restricted denominators. Finite Fields and Their Applications, 2008, 14, 849-866.	0.6	1
43	Preface to the special issue dedicated to combinatorics, automata and number theory. Theoretical Computer Science, 2008, 391, 1-2.	0.5	0
44	Functional stepped surfaces, flips, and generalized substitutions. Theoretical Computer Science, 2007, 380, 251-265.	0.5	17
45	Discrete rotations and symbolic dynamics. Theoretical Computer Science, 2007, 380, 276-285.	0.5	6
46	On some applications of generalized functionality for arithmetic discrete planes. Image and Vision Computing, 2007, 25, 1671-1684.	2.7	6
47	Purely periodic $\hat{\Gamma}^2$ -expansions in the Pisot non-unit case. Journal of Number Theory, 2007, 127, 153-172.	0.2	17
48	Odometers on Regular Languages. Theory of Computing Systems, 2007, 40, 1-31.	0.7	10
49	On substitution invariant Sturmian words: an application of Rauzy fractals. RAIRO - Theoretical Informatics and Applications, 2007, 41, 329-349.	0.5	16
50	Arithmetic distributions of convergents arising from Jacobi-Perron algorithm. Indagationes Mathematicae, 2006, 17, 169-185.	0.2	0
51	Initial powers of Sturmian sequences. Acta Arithmetica, 2006, 122, 315-347.	0.2	41
52	Dynamical directions in numeration. Annales De L'Institut Fourier, 2006, 56, 1987-2092.	0.2	41
53	Fractal representation of the attractive lamination of an automorphism of the free group. Annales De L'Institut Fourier, 2006, 56, 2161-2212.	0.2	14
54	Smooth words over arbitrary alphabets. Theoretical Computer Science, 2005, 341, 293-310.	0.5	11

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55	Abstract Numeration Systems and Tilings. Lecture Notes in Computer Science, 2005, , 131-143.	1.0	1
56	Lattices and multi-dimensional words. Theoretical Computer Science, 2004, 319, 177-202.	0.5	7
57	Two-dimensional iterated morphisms and discrete planes. Theoretical Computer Science, 2004, 319, 145-176.	0.5	24
58	Balance properties of multi-dimensional words. Theoretical Computer Science, 2002, 273, 197-224.	0.5	25
59	Discrete planes, \mathbb{Z}^2 -actions, Jacobi-Perron algorithm and substitutions. Annales De L'Institut Fourier, 2002, 52, 305-349.	0.2	35
60	Complexité et automates cellulaires linéaires. RAIRO - Theoretical Informatics and Applications, 2000, 34, 403-423.	0.5	5
61	Tilings and rotations on the torus: a two-dimensional generalization of Sturmian sequences. Discrete Mathematics, 2000, 223, 27-53.	0.4	73
62	Suites doubles de basse complexité. Journal De Theorie Des Nombres De Bordeaux, 2000, 12, 179-208.	0.0	15
63	Covering numbers: Arithmetics and dynamics for rotations and interval exchanges. Journal D'Analyse Mathématique, 1999, 79, 1-31.	0.4	14
64	Triangle de Pascal, complexité et automates. Bulletin of the Belgian Mathematical Society - Simon Stevin, 1997, 4, .	0.1	22
65	Linear Combinations of $\hat{\eta}(s)/\hat{\eta}(s)$ Over $F_q(x)$, where $1 \leq s \leq q-2$. Journal of Number Theory, 1995, 53, 272-299.	0.2	6
66	Automates et valeurs de transcendance du logarithme de Carlitz. Acta Arithmetica, 1994, 66, 369-390.	0.2	9
67	Fonction ζ de Carlitz et automates. Journal De Theorie Des Nombres De Bordeaux, 1993, 5, 53-77.	0.0	6
68	Uniformly balanced words with linear complexity and prescribed letter frequencies. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 63, 44-52.	0.8	3