Mark Van Hoeij

List of Publications by Year
in descending order

45	947	17
papers	citations	h-index

471509
501196

28
g-index

45	45	45	197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Divisor Formula and a Bound on the $\mathbb{Q}$-Gonality of the Modular Curve $X_1(N)$. Research in Number Theory, 2021, 7, 1.	0.4	2
2	Sporadic cubic torsion. Algebra and Number Theory, 2021, 15, 1837-1864.	0.6	18
3	Computing an Order-Complete Basis for $M^{\infty}(N)$ and Applications. Springer Proceedings in Mathematics and Statistics, 2021, , 355-366.	0.2	0
4	Stringy Hirzebruch classes of Weierstrass fibrations. Communications in Number Theory and Physics, 2020, 14, 453-485.	1.0	2
5	The complexity of computing all subfields of an algebraic number field. Journal of Symbolic Computation, 2019, 93, 161-182.	0.8	1
6	Classifying (almost)-Belyi maps with five exceptional points. Indagationes Mathematicae, 2019, 30, 136-156.	0.4	1
7	Fast algorithm for factoring difference operators. ACM Communications in Computer Algebra, 2019, 53, 150-152.	0.4	6
8	Methods for simplifying differential equations. ACM Communications in Computer Algebra, 2019, 53, 93-95.	0.4	0
9	Reduction-based creative telescoping for fuchsian D-finite functions. Journal of Symbolic Computation, 2018, 85, 108-127.	0.8	24
10	Hypergeometric expressions for generating functions of walks with small steps in the quarter plane. European Journal of Combinatorics, 2017, 61, 242-275.	0.8	28
11	Computing hypergeometric solutions of second order linear differential equations using quotients of formal solutions and integral bases. Journal of Symbolic Computation, 2017, 83, 254-271.	0.8	25
12	Functional Decomposition Using Principal Subfields. , 2017, , .		0
13	Belyi functions for hyperbolic hypergeometric-to-Heun transformations. Journal of Algebra, 2015, 441, 609-659.	0.7	20
14	Gonality of the modular curve $X_1(N)$. Journal of Algebra, 2014, 417, 52-71.	0.7	17
15	Generating subfields. Journal of Symbolic Computation, 2013, 52, 17-34.	0.8	11
16	On stringy invariants of GUT vacua. Communications in Number Theory and Physics, 2013, 7, 551-579.	1.0	1
17	Gradual Sub-lattice Reduction and a New Complexity for Factoring Polynomials. Algorithmica, 2012, 63, 616-633.	1.3	8
18	Isomorphisms of algebraic number fields. Journal De Theorie Des Nombres De Bordeaux, 2012, 24, 293-305.	0.1	2

#	Article	IF	Citations
19	Practical polynomial factoring in polynomial time. , 2011, , .		6
20	2-descent for second order linear differential equations. , 2011, , .		3
21	Generating subfields. , 2011, , .		3
22	Finding all bessel type solutions for linear differential equations with rational function coefficients. , 2010, , .		13
23	Gradual Sub-lattice Reduction and a New Complexity for Factoring Polynomials. Lecture Notes in Computer Science, 2010, , 539-553.	1.3	15
24	Factoring univariate polynomials over the rationals. ACM Communications in Computer Algebra, 2009, 42, 157-157.	0.4	4
25	Factoring polynomials over global fields. Journal De Theorie Des Nombres De Bordeaux, 2009, 21, 15-39.	0.1	19
26	Solving differential equations in terms of bessel functions. , 2008, , .		12
27	Solving third order linear differential equations in terms of second order equations. , 2007, , .		13
28	Descent for differential modules and skew fields. Journal of Algebra, 2006, 296, 18-55.	0.7	7
29	Computing Hypergeometric Solutions of Linear Recurrence Equations. Applicable Algebra in Engineering, Communications and Computing, 2006, 17, 83-115.	0.5	30
30	Closed form solutions of linear odes having elliptic function coefficients. , 2004, , .		6
31	A modular algorithm for computing the exponential solutions of a linear differential operator. Journal of Symbolic Computation, 2004, 38, 1043-1076.	0.8	23
32	Factoring Polynomials and the Knapsack Problem. Journal of Number Theory, 2002, 95, 167-189.	0.4	65
33	Factoring Polynomials and the Knapsack Problem. Journal of Number Theory, 2002, 95, 167-189.	0.4	46
34	Computing Riemann matrices of algebraic curves. Physica D: Nonlinear Phenomena, 2001, 152-153, 28-46.	2.8	66
35	Integration of solutions of linear functional equations. Integral Transforms and Special Functions, 1999, 8, 3-12.	1.2	31
36	Finite singularities and hypergeometric solutions of linear recurrence equations. Journal of Pure and Applied Algebra, 1999, 139, 109-131.	0.6	81

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37	Liouvillian Solutions of Linear Differential Equations of Order Three and Higher. Journal of Symbolic Computation, 1999, 28, 589-609.	0.8	37
38	Rational solutions of linear difference equations. , 1998, , .		41
39	A method for the integration of solutions of Ore equations. , 1997, , .		14
40	An algorithm for computing invariants of differential Galois groups. Journal of Pure and Applied Algebra, 1997, 117-118, 353-379.	0.6	26
41	Formal Solutions and Factorization of Differential Operators with Power Series Coefficients. Journal of Symbolic Computation, 1997, 24, 1-30.	0.8	44
42	Factorization of Differential Operators with Rational Functions Coefficients. Journal of Symbolic Computation, 1997, 24, 537-561.	0.8	95
43	Rational solutions of the mixed differential equation and its application to factorization of differential operators. , 1996, , .		24
44	An Algorithm for Computing an Integral Basis in an Algebraic Function Field. Journal of Symbolic Computation, 1994, 18, 353-363.	0.8	47
45	Decomposing a 4th order linear differential equation as a symmetric product. , 0, , .		10