Doron Zeilberger

List of Publications by Year in descending order

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257101 174990 3,347 117 24 52 citations g-index h-index papers 121 121 121 752 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Tweaking the Beukers integrals in search of more miraculous irrationality proofs a la Apéry. Ramanujan Journal, 2022, 58, 973-994.	0.4	2
2	A multi-computational exploration of some games of pure chance. Journal of Symbolic Computation, 2021, 104, 38-68.	0.5	0
3	Automatic discovery of irrationality proofs and irrationality measures. International Journal of Number Theory, 2021, 17, 815-825.	0.2	7
4	Increasing consecutive patterns in words. Journal of Algebraic Combinatorics, 2020, 51, 89-101.	0.4	2
5	Two Definite Integrals That Are Definitely (and Surprisingly!) Equal. Mathematical Intelligencer, 2020, 42, 10-11.	0.1	1
6	The irrationality measure of $\ddot{\mathbb{I}}$ is at most 7.103205334137 $\hat{\mathbb{I}}$. Moscow Journal of Combinatorics and Number Theory, 2020, 9, 407-419.	0.2	5
7	Untying the Gordian Knot via Experimental Mathematics. Texts and Monographs in Symbolic Computation, 2020, , 387-410.	0.4	0
8	Numerical and Symbolic Studies of the Peaceable Queens Problem. Experimental Mathematics, 2019, , $1-11$.	0.5	0
9	D.H. Lehmer's Tridiagonal Determinant: An Étude in (Andrews-Inspired) Experimental Mathematics. Annals of Combinatorics, 2019, 23, 717-724.	0.3	2
10	An Experimental Mathematics Approach to the Area Statistic of Parking Functions. Mathematical Intelligencer, 2019, 41, 1-8.	0.1	1
11	A Simple Rederivation of Onsager's Solution of the 2D Ising Model Using Experimental Mathematics. Mathematical Intelligencer, 2019, 41, 1-6.	0.1	2
12	A combinatorial-probabilistic analysis of bitcoin attacks. Journal of Difference Equations and Applications, 2019, 25, 56-63.	0.7	4
13	Factorization of C-Finite Sequences. Springer Proceedings in Mathematics and Statistics, 2018, , 131-147.	0.1	1
14	Using the "Freshman′s Dream―to Prove Combinatorial Congruences. American Mathematical Monthly, 2017, 124, 597.	0.2	11
15	Explicit expressions for the expectation, variance and higher moments of the size of a $(2 < i > n < /i > + 1,)$ Tj ETQq1 1 2017, 23, 1241-1254.	1 0.78431 ⁴ 0.7	4 rgBT /Overlo 8
16	Integrals Involving Rudin–Shapiro Polynomials and Sketch of a Proof of Saffari's Conjecture. Springer Proceedings in Mathematics and Statistics, 2017, , 253-265.	0.1	6
17	Automated discovery and proof of congruence theorems for partial sums of combinatorial sequences. Journal of Difference Equations and Applications, 2016, 22, 780-788.	0.7	13
18	The (Ordinary) Generating Functions Enumerating 123-Avoiding Words with r Occurrences of Each of $1, 2, \ldots, n$ Are Always Algebraic. Annals of Combinatorics, 2016, 20, 387-396.	0.3	2

#	Article	IF	Citations
19	Identities in character tables of Sn. Journal of Difference Equations and Applications, 2016, 22, 272-279.	0.7	1
20	On the asymptotic statistics of the number of occurrences of multiple permutation patterns. Electronic Journal of Combinatorics, 2015 , 6 , $117-143$.	0.1	16
21	A Short Proof of McDougall's Circle Theorem. American Mathematical Monthly, 2014, 121, 263.	0.2	2
22	How to generate as many Somos-like miracles as you wish ^{â€} . Journal of Difference Equations and Applications, 2014, 20, 852-858.	0.7	6
23	A case study in meta-automation: automatic generation of congruence automata for combinatorial sequences. Journal of Difference Equations and Applications, 2014, 20, 973-988.	0.7	9
24	How to gamble if you're in a hurry. Journal of Difference Equations and Applications, 2013, 19, 520-526.	0.7	0
25	The C-finite ansatz. Ramanujan Journal, 2013, 31, 23-32.	0.4	12
26	Using Noonan–Zeilberger Functional Equations to enumerate (in polynomial time!) generalized Wilf classes. Advances in Applied Mathematics, 2013, 50, 356-366.	0.4	4
27	Zeroless arithmetic: representing integers ONLY using ONE. Journal of Difference Equations and Applications, 2013, 19, 1921-1926.	0.7	2
28	Rademacher's infinite partial fraction conjecture is (almost certainly) false. Journal of Difference Equations and Applications, 2013, 19, 680-689.	0.7	5
29	Automatic Generation of Theorems and Proofs on Enumerating Consecutive-Wilf Classes. , 2013, , 121-138.		3
30	A new algorithm for proving global asymptotic stability of rational difference equations. Journal of Difference Equations and Applications, 2012, 18, 1853-1873.	0.7	2
31	Teaching the computer how to discover(!) and then prove(!!) (all by itself(!!!)) analogues of Collatz's notorious 3xâ€,+â€,1 conjecture. Journal of Difference Equations and Applications, 2011, 17, 375-386.	0.7	O
32	The 1958 Pekeris-Accad-WEIZAC Ground-Breaking Collaboration that Computed Ground States of Two-Electron Atoms (and its 2010 Redux). Mathematical Intelligencer, 2011, 33, 52-57.	0.1	4
33	A symbolic computation approach to a problem involving multivariate Poisson distributions. Advances in Applied Mathematics, 2010, 44, 359-377.	0.4	56
34	A symbolic finite-state approach for automated proving of theorems in combinatorial game theory. Journal of Difference Equations and Applications, 2009, 15, 111-118.	0.7	2
35	Proof of Ira Gessel's lattice path conjecture. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11502-11505.	3 . 3	33
36	A Translation Method for Finding Combinatorial Bijections. Annals of Combinatorics, 2009, 13, 383-402.	0.3	3

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37	The Automatic Central Limit Theorems Generator (and Much More!)., 2009,, 165-174.		6
38	Using Rota's Umbral calculus to enumerate Stanley's P-partitions. Advances in Applied Mathematics, 2008, 41, 206-213.	0.4	4
39	Experiments with a Positivity-Preserving Operator. Experimental Mathematics, 2008, 17, 341-345.	0.5	2
40	The quasi-holonomic ansatz and restricted lattice walks. Journal of Difference Equations and Applications, 2008, 14, 1119-1126.	0.7	11
41	The Holonomic Ansatz I. Foundations and Applications to Lattice Path Counting. Annals of Combinatorics, 2007, 11, 227-239.	0.3	5
42	The Holonomic Ansatz II. Automatic Discovery(!) And Proof(!!) of Holonomic Determinant Evaluations. Annals of Combinatorics, 2007, 11, 241-247.	0.3	17
43	An Enquiry Concerning Human (and Computer!) [Mathematical] Understanding., 2007,, 383-410.		4
44	FIVE APPLICATIONS OF WILF-ZEILBERGER THEORY TO ENUMERATION AND PROBABILITY., 2007,,.		0
45	Disturbing the Dyson Conjecture (in a GOOD Way). Experimental Mathematics, 2006, 15, 187-191.	0.5	12
46	A proof of Andrews' q-Dyson conjecture. Discrete Mathematics, 2006, 306, 1039-1059.	0.4	22
47	A fast algorithm for proving terminating hypergeometric identities. Discrete Mathematics, 2006, 306, 1072-1075.	0.4	3
48	Multi-variable Zeilberger and Almkvist–Zeilberger algorithms and the sharpening of Wilf–Zeilberger theory. Advances in Applied Mathematics, 2006, 37, 139-152.	0.4	90
49	The quantum MacMahon Master Theorem. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103 f.13928-13931 Sharp upper and Inc. of the orders of the recurrences output by the Zeilberger and Image of the Order of the Inc. of the Order of the Inc. of the Order of the Inc.	3.3	31
50	altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.w3.org/2001/XMLSchema" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.org/1998/Math/MathML"	0.5	30
51	xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevie. Journal of Deconstructing the Zeilberger algorithmâ€. Journal of Difference Equations and Applications, 2005, 11, 851-856.	0.7	1
52	Chomp, Recurrences and Chaos(?). Journal of Difference Equations and Applications, 2004, 10, 1281-1293.	0.7	10
53	On Fraenkel's N-Heap Wythoff's Conjectures. Annals of Combinatorics, 2004, 8, 225-238.	0.3	12
54	Symbolic Moment Calculus I: Foundations and Permutation Pattern Statistics. Annals of Combinatorics, 2004, 8, 369-378.	0.3	12

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55	The Collector?s Brotherhood Problem using the Newman-Shepp symbolic method. Algebra Universalis, 2003, 49, 387-395.	0.2	14
56	Refined Restricted Permutations. Annals of Combinatorics, 2002, 6, 427-444.	0.3	28
57	ENCAPSULATE!., 2002, , .		0
58	Three-Rowed CHOMP. Advances in Applied Mathematics, 2001, 26, 168-179.	0.4	17
59	Babson–SteingrıÌmsson Statistics are Indeed Mahonian (and Sometimes Even Euler–Mahonian). Advances in Applied Mathematics, 2001, 27, 390-404.	0.4	11
60	The Goulden–Jackson Cluster Method for Cyclic Words. Advances in Applied Mathematics, 2000, 25, 228-232.	0.4	6
61	The Umbral Transfer-Matrix Method. I. Foundations. Journal of Combinatorial Theory - Series A, 2000, 91, 451-463.	0.5	25
62	The Gouldenâ€"Jackson cluster method: extensions, applications and implementations. Journal of Difference Equations and Applications, 1999, 5, 355-377.	0.7	64
63	Automated counting of lego towers. Journal of Difference Equations and Applications, 1999, 5, 323-333.	0.7	3
64	A Combinatorial Proof of Bass's Evaluations of the Ihara-Selberg Zeta Function for Graphs. Transactions of the American Mathematical Society, 1999, 351, 2257-2274.	0.5	84
65	A Pentagonal Number Sieve. Journal of Combinatorial Theory - Series A, 1998, 82, 186-192.	0.5	20
66	Enumeration Schemes and, more importantly, their automatic generation. Annals of Combinatorics, 1998, 2, 185-195.	0.3	27
67	Curing the andrews syndrome. Journal of Difference Equations and Applications, 1998, 4, 299-310.	0.7	9
68	How to do Monthly Problems With Your Computer. American Mathematical Monthly, 1997, 104, 505-519.	0.2	12
69	Proof of a conjecture on multisets of hook numbers. Annals of Combinatorics, 1997, 1, 391-394.	0.3	7
70	How joe gillis discovered combinatorial special function theory. Mathematical Intelligencer, 1995, 17, 65-66.	0.1	1
71	The J.C.P. miller recurrence for exponentiating a polynomial, and its q- analog. Journal of Difference Equations and Applications, 1995, 1, 57-60.	0.7	11
72	A WZ PROOF OF RAMANUJAN'S FORMULA FOR π. , 1995, , 107-108.		8

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73	Proof of a q-analog of a constant term identity conjectured by forrester. Journal of Combinatorial Theory - Series A, 1994, 66, 311-312.	0.5	4
74	Theorems for a price: tomorrow's semi-rigorous mathematical culture. Mathematical Intelligencer, 1994, 16, 11-18.	0.1	24
75	Towards a WZ Evolution of the Mehta Integral. SIAM Journal on Mathematical Analysis, 1994, 25, 812-814.	0.9	2
76	Identities in search of identity. Theoretical Computer Science, 1993, 117, 23-38.	0.5	5
77	A Short Proof of Jacobi's Formula for the Number of Representations of an Integer as a Sum of Four Squares. American Mathematical Monthly, 1993, 100, 274.	0.2	14
78	Rational function certification of multisum/integral/"?―identities. Bulletin of the American Mathematical Society, 1992, 27, 148-153.	0.8	16
79	An algorithmic proof theory for hypergeometric (ordinary and "qâ€) multisum/integral identities. Inventiones Mathematicae, 1992, 108, 575-633.	1.3	276
80	Random walk in a Weyl chamber. Proceedings of the American Mathematical Society, 1992, 115, 27-31.	0.4	83
81	The method of creative telescoping. Journal of Symbolic Computation, 1991, 11, 195-204.	0.5	298
82	A maple program that finds, and proves, recurrences and differential equations satisfied by hyperexponential definite integrals. SIGSAM Bulletin: A Quarterly Publication of the Special Interest Group on Symbolic & Algebraic Manipulation, 1991, 25, 14-17.	0.3	4
83	Denert's Permutation Statistic Is Indeed Eulerâ€Mahonian. Studies in Applied Mathematics, 1990, 83, 31-59.	1.1	68
84	The method of differentiating under the integral sign. Journal of Symbolic Computation, 1990, 10, 571-591.	0.5	111
85	A fast algorithm for proving terminating hypergeometric identities. Discrete Mathematics, 1990, 80, 207-211.	0.4	179
86	A Stembridge-Stanton style elementary proof of the Habsieger-Kadell q-Morris identity. Discrete Mathematics, 1990, 79, 313-322.	0.4	17
87	A holonomic systems approach to special functions identities. Journal of Computational and Applied Mathematics, 1990, 32, 321-368.	1.1	352
88	A 21st century proof of Dougall's hypergeometric sum identity. Journal of Mathematical Analysis and Applications, 1990, 147, 610-611.	0.5	6
89	Towards computerized proofs of identities. Bulletin of the American Mathematical Society, 1990, 23, 77-83.	0.8	22
90	Rational functions certify combinatorial identities. Journal of the American Mathematical Society, 1990, 3, 147-147.	1.9	106

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91	Kathy O'Hara's Constructive Proof of the Unimodality of the Gaussian Polynomials. American Mathematical Monthly, 1989, 96, 590.	0.2	35
92	Generalized Rogers-Ramanujan bijections. Advances in Mathematics, 1989, 78, 42-75.	0.5	14
93	How likely is Polya's drunkard to stay in x? y?z?. Journal of Statistical Physics, 1989, 57, 1129-1135.	0.5	3
94	Six etudes in generating functions. International Journal of Computer Mathematics, 1989, 29, 201-215.	1.0	21
95	The Odlyzko conjecture and O'Hara's unimodality proof. Proceedings of the American Mathematical Society, 1989, 107, 39-39.	0.4	1
96	Identities. The IMA Volumes in Mathematics and Its Applications, 1989, , 35-44.	0.5	0
97	A Unified Approach to Macdonald's Root-System Conjectures. SIAM Journal on Mathematical Analysis, 1988, 19, 987-1013.	0.9	16
98	A Proof of the \$G_2 \$ Case of Macdonald's Root System-Dyson Conjecture. SIAM Journal on Mathematical Analysis, 1987, 18, 880-883.	0.9	18
99	A q-Foata Proof of the q-Saalsch $\tilde{A}^{1}\!\!/\!4$ tz Identity. European Journal of Combinatorics, 1987, 8, 461-463.	0.5	23
100	Enumerating totally clean words. Discrete Mathematics, 1987, 64, 313-315.	0.4	1
101	Resurrecting the asymptotics of linear recurrences. Journal of Mathematical Analysis and Applications, 1985, 111, 162-176.	0.5	105
102	A proof of Andrews' q-Dyson conjecture. Discrete Mathematics, 1985, 54, 201-224.	0.4	74
103	A combinatorial approach to matrix algebra. Discrete Mathematics, 1985, 56, 61-72.	0.4	61
104	Bijecting Euler's Partitions-Recurrence. American Mathematical Monthly, 1985, 92, 54-55.	0.2	21
105	Bijecting Euler's Partitions-Recurrence. American Mathematical Monthly, 1985, 92, 54.	0.2	17
106	Garsia and Milne's bijective proof of the inclusion-exclusion principle. Discrete Mathematics, 1984, 51, 109-110.	0.4	13
107	Andre's reflection proof generalized to the many-candidate ballot problem. Discrete Mathematics, 1983, 44, 325-326.	0.4	45
108	Sister Celine's technique and its generalizations. Journal of Mathematical Analysis and Applications, 1982, 85, 114-145.	0.5	34

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109	A combinatorial proof of Dyson's conjecture. Discrete Mathematics, 1982, 41, 317-321.	0.4	27
110	A short Rogers-Ramanujan bijection. Discrete Mathematics, 1982, 38, 313-315.	0.4	17
111	A Markov chain occurring in enzyme kinetics. Journal of Mathematical Biology, 1982, 15, 351-357.	0.8	19
112	Enumeration of words by their number of mistakes. Discrete Mathematics, 1981, 34, 89-91.	0.4	10
113	Partial difference equations in m1â $@3/m2$ â $@3/4$ m03 $@3/4$ m02 a 03 a 03 a 0 and their applications to combinatorics. Discredible Mathematics, 1980, 31, 65-77.	ete 0.4	4
114	The Algebra of Linear Partial Difference Operators and Its Applications. SIAM Journal on Mathematical Analysis, 1980, 11, 919-932.	0.9	12
115	A new basis for discrete analytic polynomials. Journal of the Australian Mathematical Society, 1977, 23, 95-104.	0.3	7
116	A discrete analogue of the Paley-Wiener theorem for bounded analytic functions in a half plane. Journal of the Australian Mathematical Society, 1977, 23, 376-378.	0.3	0
117	Automatic conjecturing and proving of exact values of some infinite families of infinite continued fractions. Ramanujan Journal, $0,1.$	0.4	1