

Philippe Flajolet

List of Publications by Year in descending order

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82
papers

7,666
citations

101543

36
h-index

76900

74
g-index

84
all docs

84
docs citations

84
times ranked

2423
citing authors

#	ARTICLE	IF	CITATIONS
1	Probabilistic counting algorithms for data base applications. Journal of Computer and System Sciences, 1985, 31, 182-209.	1.2	948
2	Singularity Analysis of Generating Functions. SIAM Journal on Discrete Mathematics, 1990, 3, 216-240.	0.8	628
3	Mellin transforms and asymptotics: Harmonic sums. Theoretical Computer Science, 1995, 144, 3-58.	0.9	394
4	Birthday paradox, coupon collectors, caching algorithms and self-organizing search. Discrete Applied Mathematics, 1992, 39, 207-229.	0.9	324
5	A calculus for the random generation of labelled combinatorial structures. Theoretical Computer Science, 1994, 132, 1-35.	0.9	199
6	The average height of binary trees and other simple trees. Journal of Computer and System Sciences, 1982, 25, 171-213.	1.2	189
7	Euler Sums and Contour Integral Representations. Experimental Mathematics, 1998, 7, 15-35.	0.7	182
8	Loglog Counting of Large Cardinalities. Lecture Notes in Computer Science, 2003, , 605-617.	1.3	180
9	Boltzmann Samplers for the Random Generation of Combinatorial Structures. Combinatorics Probability and Computing, 2004, 13, 577-625.	1.3	173
10	Generating functions for generating trees. Discrete Mathematics, 2002, 246, 29-55.	0.7	155
11	Random Mapping Statistics. , 1989, , 329-354.		151
12	Mellin transforms and asymptotics: Finite differences and Rice's integrals. Theoretical Computer Science, 1995, 144, 101-124.	0.9	149
13	Analytic combinatorics of non-crossing configurations. Discrete Mathematics, 1999, 204, 203-229.	0.7	129
14	Basic analytic combinatorics of directed lattice paths. Theoretical Computer Science, 2002, 281, 37-80.	0.9	126
15	Approximate counting: A detailed analysis. BIT Numerical Mathematics, 1985, 25, 113-134.	2.0	118
16	Analytic models and ambiguity of context-free languages. Theoretical Computer Science, 1987, 49, 283-309.	0.9	118
17	Varieties of increasing trees. Lecture Notes in Computer Science, 1992, , 24-48.	1.3	112
18	Digital Search Trees Revisited. SIAM Journal on Computing, 1986, 15, 748-767.	1.0	106

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19	Gaussian limiting distributions for the number of components in combinatorial structures. Journal of Combinatorial Theory - Series A, 1990, 53, 165-182.	0.8	98
20	On the performance evaluation of extendible hashing and trie searching. Acta Informatica, 1983, 20, 345.	0.5	96
21	Partial match retrieval of multidimensional data. Journal of the ACM, 1986, 33, 371-407.	2.2	93
22	Mellin transforms and asymptotics: digital sums. Theoretical Computer Science, 1994, 123, 291-314.	0.9	92
23	Random maps, coalescing saddles, singularity analysis, and Airy phenomena. Random Structures and Algorithms, 2001, 19, 194-246.	1.1	88
24	The first cycles in an evolving graph. Discrete Mathematics, 1989, 75, 167-215.	0.7	83
25	Automatic average-case analysis of algorithms. Theoretical Computer Science, 1991, 79, 37-109.	0.9	82
26	Singularity analysis and asymptotics of Bernoulli sums. Theoretical Computer Science, 1999, 215, 371-381.	0.9	71
27	On Ramanujan's Q-function. Journal of Computational and Applied Mathematics, 1995, 58, 103-116.	2.0	65
28	Analytic urns. Annals of Probability, 2005, 33, 1200.	1.8	63
29	Average-Case Analysis of Algorithms and Data Structures. , 1990, , 431-524.		58
30	Analytic variations on quadrees. Algorithmica, 1993, 10, 473-500.	1.3	57
31	General combinatorial schemas: Gaussian limit distributions and exponential tails. Discrete Mathematics, 1993, 114, 159-180.	0.7	56
32	Patterns in random binary search trees. Random Structures and Algorithms, 1997, 11, 223-244.	1.1	52
33	Patterns and pattern-matching in trees: An analysis. Information and Control, 1983, 58, 19-58.	1.1	50
34	Mellin transforms and asymptotics. Acta Informatica, 1994, 31, 673-696.	0.5	49
35	The formal theory of birth-and-death processes, lattice path combinatorics and continued fractions. Advances in Applied Probability, 2000, 32, 750-778.	0.7	45
36	Generalized Digital Trees and Their Differenceâ€™Differential Equations. Random Structures and Algorithms, 1992, 3, 305-320.	1.1	43

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37	On congruences and continued fractions for some classical combinatorial quantities. Discrete Mathematics, 1982, 41, 145-153.	0.7	42
38	Fast computation of special resultants. Journal of Symbolic Computation, 2006, 41, 1-29.	0.8	42
39	On a functional equation arising in the analysis of a protocol for a multi-access broadcast channel. Advances in Applied Probability, 1986, 18, 441-472.	0.7	38
40	Level number sequences for trees. Discrete Mathematics, 1987, 65, 149-156.	0.7	38
41	Analytic variations on the common subexpression problem. , 1990, , 220-234.		36
42	Hypergeometrics and the cost structure of quadrees. Random Structures and Algorithms, 1995, 7, 117-144.	1.1	35
43	An Average-Case Analysis of the Gaussian Algorithm for Lattice Reduction. Combinatorics Probability and Computing, 1997, 6, 397-433.	1.3	34
44	Singularity analysis, Hadamard products, and tree recurrences. Journal of Computational and Applied Mathematics, 2005, 174, 271-313.	2.0	34
45	The Distribution of Heights of Binary Trees and Other Simple Trees. Combinatorics Probability and Computing, 1993, 2, 145-156.	1.3	33
46	Continued fraction algorithms, functional operators, and structure constants. Theoretical Computer Science, 1998, 194, 1-34.	0.9	31
47	Hidden word statistics. Journal of the ACM, 2006, 53, 147-183.	2.2	31
48	Non-overlapping Partitions, Continued Fractions, Bessel Functions and a Divergent Series. European Journal of Combinatorics, 1990, 11, 421-432.	0.8	28
49	On the Non-Holonomic Character of Logarithms, Powers, and the n th Prime Function. Electronic Journal of Combinatorics, 2004, 11, .	0.4	24
50	The complexity of generating an exponentially distributed variate. Journal of Algorithms, 1986, 7, 463-488.	0.9	23
51	Prefixes of infinite words and ambiguous context-free languages. Information Processing Letters, 1987, 25, 211-216.	0.6	23
52	Isomorphism and Symmetries in Random Phylogenetic Trees. Journal of Applied Probability, 2009, 46, 1005-1019.	0.7	22
53	The analysis of simple list structures. Information Sciences, 1986, 38, 121-146.	6.9	21
54	Page usage in a quadtree index. BIT Numerical Mathematics, 1992, 32, 384-402.	2.0	21

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55	A complexity calculus for recursive tree algorithms. <i>Mathematical Systems Theory</i> , 1986, 19, 301-331.	0.5	20
56	On Stirling Numbers for Complex Arguments and Hankel Contours. <i>SIAM Journal on Discrete Mathematics</i> , 1999, 12, 155-159.	0.8	20
57	Analytic variations on bucket selection and sorting. <i>Acta Informatica</i> , 2000, 36, 735-760.	0.5	20
58	Analytic analysis of algorithms. <i>Lecture Notes in Computer Science</i> , 1992, , 186-210.	1.3	20
59	Analytic Combinatorics of Chord Diagrams. , 2000, , 191-201.		20
60	The formal theory of birth-and-death processes, lattice path combinatorics and continued fractions. <i>Advances in Applied Probability</i> , 2000, 32, 750-778.	0.7	19
61	A Hybrid of Darboux's Method and Singularity Analysis in Combinatorial Asymptotics. <i>Electronic Journal of Combinatorics</i> , 2006, 13, .	0.4	17
62	On differences of zeta values. <i>Journal of Computational and Applied Mathematics</i> , 2008, 220, 58-73.	2.0	15
63	Counting by Coin Tossings. <i>Lecture Notes in Computer Science</i> , 2004, , 1-12.	1.3	15
64	Planar Maps and Airy Phenomena. <i>Lecture Notes in Computer Science</i> , 2000, , 388-402.	1.3	12
65	Random polynomials and polynomial factorization. <i>Lecture Notes in Computer Science</i> , 1996, , 232-243.	1.3	12
66	The distribution of height and diameter in random non- \mathbb{R}^2 plane binary trees. <i>Random Structures and Algorithms</i> , 2012, 41, 215-252.	1.1	11
67	Pseudo-factorials, elliptic functions, and continued fractions. <i>Ramanujan Journal</i> , 2010, 21, 71-97.	0.7	10
68	Exact asymptotics of divide-and-conquer recurrences. <i>Lecture Notes in Computer Science</i> , 1993, , 137-149.	1.3	9
69	On Buffon Machines and Numbers. , 2011, , .		6
70	Elements of a general theory of combinatorial structures. , 1985, , 112-127.		5
71	Average cost of orthogonal range queries in multiattribute trees. <i>Information Systems</i> , 1989, 14, 341-350.	3.6	5
72	Isomorphism and Symmetries in Random Phylogenetic Trees. <i>Journal of Applied Probability</i> , 2009, 46, 1005-1019.	0.7	5

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73	The Ubiquitous Digital Tree. Lecture Notes in Computer Science, 2006, , 1-22.	1.3	5
74	The unusual asymptotics of three-sided prudent polygons. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 342001.	2.1	4
75	The enumeration of prudent polygons by area and its unusual asymptotics. Journal of Combinatorial Theory - Series A, 2011, 118, 2261-2290.	0.8	4
76	Some New Self-avoiding Walk and Polygon Models. Fundamenta Informaticae, 2012, 117, 19-33.	0.4	4
77	Search trees and bubble memories. RAIRO - Theoretical Informatics and Applications, 1985, 19, 137-164.	0.7	4
78	A calculus of random generation. Lecture Notes in Computer Science, 1993, , 169-180.	1.3	3
79	On the performance of orthogonal range queries in multiattribute and doubly chained trees. Lecture Notes in Computer Science, 1989, , 218-229.	1.3	2
80	D?E?K=(1000)8. Random Structures and Algorithms, 2001, 19, 150-162.	1.1	1
81	Patterns in random binary search trees. , 1997, 11, 223.		1
82	Multidimensional Divide-and-Conquer and Weighted Digital Sums (Extended Abstract). , 2009, , .		0