

Tomasz Ąuczak

List of Publications by Year in descending order

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156
papers

5,136
citations

126907

33
h-index

149698

56
g-index

160
all docs

160
docs citations

160
times ranked

1753
citing authors

#	ARTICLE	IF	CITATIONS
1	The birth of the giant component. <i>Random Structures and Algorithms</i> , 1993, 4, 233-358.	1.1	267
2	Edge weights and vertex colours. <i>Journal of Combinatorial Theory Series B</i> , 2004, 91, 151-157.	1.0	245
3	Unmodulated spin chains as universal quantum wires. <i>Physical Review A</i> , 2005, 72, .	2.5	213
4	Component behavior near the critical point of the random graph process. <i>Random Structures and Algorithms</i> , 1990, 1, 287-310.	1.1	157
5	The chromatic number of random graphs. <i>Combinatorica</i> , 1991, 11, 45-54.	1.2	150
6	Bootstrap percolation on the random graph $G_{n,p}$. <i>Annals of Applied Probability</i> , 2012, 22, .	1.3	100
7	Size and connectivity of the k -core of a random graph. <i>Discrete Mathematics</i> , 1991, 91, 61-68.	0.7	90
8	The structure of a random graph at the point of the phase transition. <i>Transactions of the American Mathematical Society</i> , 1994, 341, 721-748.	0.9	87
9	The phase transition in a random hypergraph. <i>Journal of Computational and Applied Mathematics</i> , 2002, 142, 125-135.	2.0	85
10	$R(C_n, C_n, C_n) \sim \frac{1}{2}(4+o(1))n$. <i>Journal of Combinatorial Theory Series B</i> , 1999, 75, 174-187.	1.0	76
11	A suboptimal lossy data compression based on approximate pattern matching. <i>IEEE Transactions on Information Theory</i> , 1997, 43, 1439-1451.	2.4	72
12	Multiuser quantum communication networks. <i>Physical Review A</i> , 2007, 75, .	2.5	71
13	A note on the sharp concentration of the chromatic number of random graphs. <i>Combinatorica</i> , 1991, 11, 295-297.	1.2	70
14	On the independence and chromatic numbers of random regular graphs. <i>Journal of Combinatorial Theory Series B</i> , 1992, 54, 123-132.	1.0	63
15	Quasiperiodic Dynamics of a Quantum Walk on the Line. <i>Physical Review Letters</i> , 2004, 93, 180601.	7.8	63
16	Trapping a particle of a quantum walk on the line. <i>Physical Review A</i> , 2012, 85, .	2.5	63
17	The Induced Size-Ramsey Number of Cycles. <i>Combinatorics Probability and Computing</i> , 1995, 4, 217-239.	1.3	60
18	Ramsey properties of random graphs. <i>Journal of Combinatorial Theory Series B</i> , 1992, 56, 55-68.	1.0	59

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19	Arithmetic progressions of length three in subsets of a random set. <i>Acta Arithmetica</i> , 1996, 75, 133-163.	0.4	58
20	The Ramsey number for a triple of long even cycles. <i>Journal of Combinatorial Theory Series B</i> , 2007, 97, 584-596.	1.0	57
21	Biased Positional Games for Which Random Strategies are Nearly Optimal. <i>Combinatorica</i> , 2000, 20, 477-488.	1.2	56
22	Quantum walks on cycles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 317, 21-25.	2.1	55
23	The Evolution of Random Subgraphs of the Cube. <i>Random Structures and Algorithms</i> , 1992, 3, 55-90.	1.1	51
24	On Random Generation of the Symmetric Group. <i>Combinatorics Probability and Computing</i> , 1993, 2, 505-512.	1.3	47
25	The Structure of a Random Graph at the Point of the Phase Transition. <i>Transactions of the American Mathematical Society</i> , 1994, 341, 721.	0.9	47
26	Limit measures of inhomogeneous discrete-time quantum walks in one dimension. <i>Quantum Information Processing</i> , 2013, 12, 33-53.	2.2	47
27	On the fractional dimension of sets of continued fractions. <i>Mathematika</i> , 1997, 44, 50-53.	0.5	46
28	Partitioning Two-Coloured Complete Graphs into Two Monochromatic Cycles. <i>Combinatorics Probability and Computing</i> , 1998, 7, 423-436.	1.3	45
29	Turán's Extremal Problem in Random Graphs: Forbidding Even Cycles. <i>Journal of Combinatorial Theory Series B</i> , 1995, 64, 273-287.	1.0	43
30	The Ramsey number for hypergraph cycles I. <i>Journal of Combinatorial Theory - Series A</i> , 2006, 113, 67-83.	0.8	43
31	Sum-free sets in abelian groups. <i>Israel Journal of Mathematics</i> , 2001, 125, 347-367.	0.8	42
32	Collapsibility and Vanishing of Top Homology in Random Simplicial Complexes. <i>Discrete and Computational Geometry</i> , 2013, 49, 317-334.	0.6	40
33	Cycles in a random graph near the critical point. <i>Random Structures and Algorithms</i> , 1991, 2, 421-439.	1.1	39
34	On the k -diameter of k -regular k -connected graphs. <i>Discrete Mathematics</i> , 1994, 133, 291-296.	0.7	37
35	On Erdős' extremal problem on matchings in hypergraphs. <i>Journal of Combinatorial Theory - Series A</i> , 2014, 124, 178-194.	0.8	33
36	Chasing robbers on random graphs: Zigzag theorem. <i>Random Structures and Algorithms</i> , 2010, 37, 516-524.	1.1	31

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37	Random trees and random graphs. <i>Random Structures and Algorithms</i> , 1998, 13, 485-500.	1.1	29
38	Large Cliques in a Power-Law Random Graph. <i>Journal of Applied Probability</i> , 2010, 47, 1124-1135.	0.7	29
39	The phase transition in the cluster-scaled model of a random graph. <i>Random Structures and Algorithms</i> , 2006, 28, 215-246.	1.1	28
40	The chromatic number of random graphs at the double-jump threshold. <i>Combinatorica</i> , 1989, 9, 39-49.	1.2	26
41	On the number of sparse connected graphs. <i>Random Structures and Algorithms</i> , 1990, 1, 171-173.	1.1	26
42	Perfect matchings in random intersection graphs. <i>Acta Mathematica Hungarica</i> , 2013, 138, 15-33.	0.5	25
43	On Matchings in Hypergraphs. <i>Electronic Journal of Combinatorics</i> , 2012, 19, .	0.4	25
44	The phase transition in the evolution of random digraphs. <i>Journal of Graph Theory</i> , 1990, 14, 217-223.	0.9	23
45	The Ramsey Number for 3-Uniform Tight Hypergraph Cycles. <i>Combinatorics Probability and Computing</i> , 2009, 18, 165-203.	1.3	23
46	On triangle-free random graphs. <i>Random Structures and Algorithms</i> , 2000, 16, 260-276.	1.1	22
47	Components of Random Forests. <i>Combinatorics Probability and Computing</i> , 1992, 1, 35-52.	1.3	21
48	Trophic levels in community food webs. <i>Evolutionary Ecology</i> , 1992, 6, 73-89.	1.2	21
49	On The Structure Of Triangle-Free Graphs Of Large Minimum Degree. <i>Combinatorica</i> , 2006, 26, 489-493.	1.2	20
50	Biased positional games and the phase transition. <i>Random Structures and Algorithms</i> , 2001, 18, 141-152.	1.1	19
51	Monochromatic Cycles in 2-Coloured Graphs. <i>Combinatorics Probability and Computing</i> , 2012, 21, 57-87.	1.3	19
52	Protean Graphs. <i>Internet Mathematics</i> , 2006, 3, 21-40.	0.7	18
53	Two critical periods in the evolution of random planar graphs. <i>Transactions of the American Mathematical Society</i> , 2012, 364, 4239-4265.	0.9	18
54	Integral Homology of Random Simplicial Complexes. <i>Discrete and Computational Geometry</i> , 2018, 59, 131-142.	0.6	18

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55	When does the zero-one law hold?. Journal of the American Mathematical Society, 1991, 4, 451-451.	3.9	17
56	Ramsey Numbers for Trees of Small Maximum Degree. Combinatorica, 2002, 22, 287-320.	1.2	17
57	Stable Kneser hypergraphs and ideals in \mathbb{N} with the Nikod $\frac{1}{2}m$ property. Proceedings of the American Mathematical Society, 2008, 137, 467-471.	0.8	17
58	Large Cliques in a Power-Law Random Graph. Journal of Applied Probability, 2010, 47, 1124-1135.	0.7	17
59	Tree-Matchings in Graph Processes. SIAM Journal on Discrete Mathematics, 1991, 4, 107-120.	0.8	16
60	A Parallel Randomized Algorithm for Finding a Maximal Independent Set in a Linear Hypergraph. Journal of Algorithms, 1997, 25, 311-320.	0.9	16
61	Claw-free 3-connected P_1 -free graphs are hamiltonian. Journal of Graph Theory, 2004, 47, 111-121.	0.9	16
62	On the multi-colored Ramsey numbers of cycles. Journal of Graph Theory, 2012, 69, 169-175.	0.9	16
63	The critical behavior of random digraphs. Random Structures and Algorithms, 2009, 35, 271-293.	1.1	15
64	EXAMPLES OF NON-UNIFORM LIMITING DISTRIBUTIONS FOR THE QUANTUM WALK ON EVEN CYCLES. International Journal of Quantum Information, 2004, 02, 453-459.	1.1	13
65	Asymmetry and structural information in preferential attachment graphs. Random Structures and Algorithms, 2019, 55, 696-718.	1.1	13
66	Maximal induced trees in sparse random graphs. Discrete Mathematics, 1988, 72, 257-265.	0.7	12
67	Cycles in random graphs. Discrete Mathematics, 1991, 98, 231-236.	0.7	11
68	On Infinite Sum-free Sets of Natural Numbers. Journal of Number Theory, 1997, 66, 211-224.	0.4	11
69	Note on projective graphs. Journal of Graph Theory, 2004, 47, 81-86.	0.9	11
70	The Ramsey Numbers for A Triple of Long Cycles. Combinatorica, 2018, 38, 827-845.	1.2	11
71	Cycles in a Uniform Graph Process. Combinatorics Probability and Computing, 1992, 1, 223-239.	1.3	10
72	Graphs without short odd cycles are nearly bipartite. Discrete Mathematics, 1997, 163, 279-284.	0.7	10

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73	Random triangular groups at density. <i>Compositio Mathematica</i> , 2015, 151, 167-178.	0.8	10
74	Manipulative Waiters with Probabilistic Intuition. <i>Combinatorics Probability and Computing</i> , 2016, 25, 823-849.	1.3	10
75	On the maximal density of sum-free sets. <i>Acta Arithmetica</i> , 2000, 95, 225-229.	0.4	10
76	The automorphism group of random graphs with a given number of edges. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1988, 104, 441-449.	0.4	9
77	The size of the largest hole in a random graph. <i>Discrete Mathematics</i> , 1993, 112, 151-163.	0.7	9
78	On the diameter and radius of random subgraphs of the cube. <i>Random Structures and Algorithms</i> , 1994, 5, 627-648.	1.1	9
79	Phase transition phenomena in random discrete structures. <i>Discrete Mathematics</i> , 1994, 136, 225-242.	0.7	9
80	On Induced Ramsey Numbers for Graphs with Bounded Maximum Degree. <i>Journal of Combinatorial Theory Series B</i> , 1996, 66, 324-333.	1.0	9
81	On minimal Folkman graphs. <i>Discrete Mathematics</i> , 2001, 236, 245-262.	0.7	9
82	Pancyclicity of 3-connected graphs: Pairs of forbidden subgraphs. <i>Journal of Graph Theory</i> , 2004, 47, 183-202.	0.9	9
83	A Probabilistic Approach to the Dichotomy Problem. <i>SIAM Journal on Computing</i> , 2006, 36, 835-843.	1.0	9
84	Conflict-Free Colourings of Uniform Hypergraphs With Few Edges. <i>Combinatorics Probability and Computing</i> , 2012, 21, 611-622.	1.3	9
85	The multipartite Ramsey number for the 3-path of length three. <i>Discrete Mathematics</i> , 2018, 341, 1270-1274.	0.7	9
86	Giant components in three-parameter random directed graphs. <i>Advances in Applied Probability</i> , 1992, 24, 845-857.	0.7	8
87	Independent Transversals in Sparse Partite Hypergraphs. <i>Combinatorics Probability and Computing</i> , 1994, 3, 293-296.	1.3	8
88	Compression of Preferential Attachment Graphs. , 2019, , .		8
89	Investigation of Rotation Forest Method Applied to Property Price Prediction. <i>Lecture Notes in Computer Science</i> , 2012, , 403-411.	1.3	8
90	First order properties of random posets. <i>Order</i> , 1991, 8, 291-297.	0.5	7

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91	Convergence in homogeneous random graphs. <i>Random Structures and Algorithms</i> , 1995, 6, 371-391.	1.1	7
92	The number of trees with large diameter. <i>Journal of the Australian Mathematical Society Series A Pure Mathematics and Statistics</i> , 1995, 58, 298-311.	0.3	7
93	On the evolution of a random tournament. <i>Discrete Mathematics</i> , 1996, 148, 311-316.	0.7	7
94	Torpid mixing of the Wang–Swendsen–Koteck $\frac{1}{2}$ algorithm for sampling colorings. <i>Journal of Discrete Algorithms</i> , 2005, 3, 92-100.	0.7	7
95	Stability of vertices in random boolean cellular automata. <i>Random Structures and Algorithms</i> , 1991, 2, 327-334.	1.1	6
96	A note on restricted vertex ramsey numbers. <i>Periodica Mathematica Hungarica</i> , 1996, 33, 101-103.	0.9	6
97	On induced Ramsey numbers. <i>Discrete Mathematics</i> , 2002, 251, 87-96.	0.7	6
98	The connectivity threshold for the min-degree random graph process. <i>Random Structures and Algorithms</i> , 2006, 29, 105-120.	1.1	6
99	Collapse of random triangular groups: a closer look. <i>Bulletin of the London Mathematical Society</i> , 2014, 46, 761-764.	0.8	6
100	Pickering–Chooser fixed graph games. <i>Journal of Combinatorial Theory Series B</i> , 2016, 119, 122-154.	1.0	6
101	Convex hulls of dense balanced graphs. <i>Journal of Computational and Applied Mathematics</i> , 1992, 41, 205-213.	2.0	5
102	Independent finite sums in graphs defined on the natural numbers. <i>Discrete Mathematics</i> , 1998, 181, 289-294.	0.7	5
103	On a problem of Konyagin. <i>Acta Arithmetica</i> , 2008, 134, 101-109.	0.4	5
104	How to deal with unlabeled random graphs. <i>Journal of Graph Theory</i> , 1991, 15, 303-316.	0.9	4
105	Changes of leadership in a random graph process. <i>Random Structures and Algorithms</i> , 1994, 5, 243-252.	1.1	4
106	On nonatomic submeasures on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \rangle \langle \text{mml:mi mathvariant="double-struck"} \rangle N \langle \text{mml:math} \rangle$. II. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 347, 442-449.	1.0	4
107	On Even-Degree Subgraphs of Linear Hypergraphs. <i>Combinatorics Probability and Computing</i> , 2012, 21, 113-127.	1.3	4
108	Anagram-Free Colourings of Graphs. <i>Combinatorics Probability and Computing</i> , 2018, 27, 623-642.	1.3	4

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109	On the connectivity of random subsets of projective spaces. <i>Discrete Mathematics</i> , 1999, 196, 207-217.	0.7	3
110	Vertex Ramsey Properties of Families of Graphs. <i>Journal of Combinatorial Theory Series B</i> , 2002, 84, 240-248.	1.0	3
111	On the discrepancy of combinatorial rectangles. <i>Random Structures and Algorithms</i> , 2002, 21, 205-215.	1.1	3
112	Solution-free sets for linear equations. <i>Journal of Number Theory</i> , 2003, 102, 11-22.	0.4	3
113	On maximal tail probability of sums of nonnegative, independent and identically distributed random variables. <i>Statistics and Probability Letters</i> , 2017, 129, 12-16.	0.7	3
114	On Schelp's problem for three odd long cycles. <i>Journal of Combinatorial Theory Series B</i> , 2020, 143, 1-15.	1.0	3
115	Random trees and random graphs. , 1998, 13, 485.		3
116	On the Multicolor Ramsey Number for 3-Paths of Length Three. <i>Electronic Journal of Combinatorics</i> , 2017, 24, .	0.4	3
117	On generalized shift graphs. <i>Fundamenta Mathematicae</i> , 2014, 226, 173-199.	0.5	3
118	Holes in random graphs. <i>Discrete Applied Mathematics</i> , 1991, 30, 213-219.	0.9	2
119	A note on the density of sum-free sets. <i>Journal of Combinatorial Theory - Series A</i> , 1995, 70, 334-336.	0.8	2
120	Ramsey-type results for oriented trees. <i>Journal of Graph Theory</i> , 1996, 22, 1-8.	0.9	2
121	Graphs in which each C_4 spans K_4 . <i>Discrete Mathematics</i> , 1996, 154, 263-268.	0.7	2
122	Sum-Free Subsets of Right Cancellative Semigroups. <i>European Journal of Combinatorics</i> , 2001, 22, 999-1002.	0.8	2
123	First-Order Definability of Trees and Sparse Random Graphs. <i>Combinatorics Probability and Computing</i> , 2007, 16, 375.	1.3	2
124	On nonatomic submeasures on \mathbb{N} . <i>Archiv Der Mathematik</i> , 2008, 91, 76-85.	0.5	2
125	Critical graphs for subpancyclicity of 3-connected claw-free graphs. <i>Journal of Graph Theory</i> , 2009, 62, 263-278.	0.9	2
126	Highly connected monochromatic subgraphs of two-colored complete graphs. <i>Journal of Combinatorial Theory Series B</i> , 2016, 117, 88-92.	1.0	2

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127	A sharp threshold for collapse of the random triangular group. <i>Groups, Geometry, and Dynamics</i> , 2017, 11, 879-890.	0.5	2
128	On triangle-free random graphs. <i>Random Structures and Algorithms</i> , 2000, 16, 260.	1.1	2
129	Dense Difference Sets and Their Combinatorial Structure. , 2013, , 133-146.		2
130	On Matchings and Hamiltonian Cycles in Subgraphs of Random Graphs. <i>North-Holland Mathematics Studies</i> , 1987, 144, 171-185.	0.2	1
131	Giant components in three-parameter random directed graphs. <i>Advances in Applied Probability</i> , 1992, 24, 845-857.	0.7	1
132	Sparse Anti-Ramsey Graphs. <i>Journal of Combinatorial Theory Series B</i> , 1995, 63, 146-152.	1.0	1
133	Convergence of probabilities for the second order monadic properties of a random mapping. <i>Random Structures and Algorithms</i> , 1997, 11, 277-295.	1.1	1
134	A Greedy Algorithm Estimating the Height of Random Trees. <i>SIAM Journal on Discrete Mathematics</i> , 1998, 11, 318-329.	0.8	1
135	Ramsey Properties of Families of Graphs. <i>Journal of Combinatorial Theory Series B</i> , 2002, 86, 413-419.	1.0	1
136	When is a random graph projective?. <i>European Journal of Combinatorics</i> , 2006, 27, 1147-1154.	0.8	1
137	Self-stabilizing population of mobile agents. , 2008, , .		1
138	Hamilton cycles in random lifts of graphs. <i>European Journal of Combinatorics</i> , 2015, 49, 105-116.	0.8	1
139	On multicolor Ramsey numbers for loosek-paths of length three. <i>European Journal of Combinatorics</i> , 2018, 71, 43-50.	0.8	1
140	A tale of stars and cliques. <i>Journal of Combinatorial Theory - Series A</i> , 2018, 160, 111-135.	0.8	1
141	On the diameter of Kronecker graphs. <i>Discrete Mathematics</i> , 2018, 341, 3165-3173.	0.7	1
142	Paths in Hypergraphs: A Rescaling Phenomenon. <i>SIAM Journal on Discrete Mathematics</i> , 2019, 33, 2251-2266.	0.8	1
143	AndrĀjsfai and Vega graphs in RamseyĀTurĀn theory. <i>Journal of Graph Theory</i> , 2021, 98, 57-80.	0.9	1
144	Random trees and random graphs. <i>Random Structures and Algorithms</i> , 1998, 13, 485-500.	1.1	1

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145	Long monochromatic even cycles in 3-edge-coloured graphs of large minimum degree. Journal of Graph Theory, 2022, 99, 691-714.	0.9	1
146	Maximal Induced Trees in Sparse Random Graphs. Annals of Discrete Mathematics, 1988, , 257-265.	1.4	0
147	Balanced Extensions of Sparse Graphs. Annals of Discrete Mathematics, 1992, , 191-203.	1.4	0
148	On the clique number of a random overlap graph. Journal of Applied Probability, 1994, 31, 582-588.	0.7	0
149	Endomorphisms of Partially Ordered Sets. Combinatorics Probability and Computing, 1998, 7, 33-46.	1.3	0
150	On the minimum degree forcing F-free graphs to be (nearly) bipartite. Discrete Mathematics, 2008, 308, 3998-4002.	0.7	0
151	Colorful Flowers. Electronic Notes in Discrete Mathematics, 2008, 31, 255-258.	0.4	0
152	On nonatomic submeasures on \mathbb{N} . III. Archiv Der Mathematik, 2009, 92, 377-382.	0.5	0
153	Vicarious Graphs. Combinatorics Probability and Computing, 2010, 19, 819-827.	1.3	0
154	Randomly generated groups. , 0, , 175-194.		0
155	Anagram-free colorings of graphs. Electronic Notes in Discrete Mathematics, 2017, 61, 671-677.	0.4	0
156	On the Ramsey-Turán Density of Triangles. Combinatorica, 0, , 1.	1.2	0