Svante Janson

List of Publications by Year
in descending order

182 papers	6,612 citations	109321 35 h-index	123424 61 g-index
186 all docs	186 docs citations	186 times ranked	2138 citing authors

#	Article	IF	Citations
1	The phase transition in inhomogeneous random graphs. Random Structures and Algorithms, 2007, 31, 3-122.	1.1	419
2	The birth of the giant component. Random Structures and Algorithms, 1993, 4, 233-358.	1.1	267
3	Functional limit theorems for multitype branching processes and generalized Pólya urns. Stochastic Processes and Their Applications, 2004, 110, 177-245.	0.9	218
4	Poisson approximation for large deviations. Random Structures and Algorithms, 1990, 1, 221-229.	1.1	153
5	Simply generated trees, conditioned Galton–Watson trees, random allocations and condensation. Probability Surveys, 2012, 9, .	1.3	127
6	The Probability That a Random Multigraph is Simple. Combinatorics Probability and Computing, 2009, 18, 205-225.	1.3	118
7	Limit theorems for triangular urn schemes. Probability Theory and Related Fields, 2006, 134, 417-452.	1.8	112
8	Bootstrap percolation on the random graph $G_{n,p}$. Annals of Applied Probability, 2012, 22, .	1.3	100
9	Random Regular Graphs: Asymptotic Distributions and Contiguity. Combinatorics Probability and Computing, 1995, 4, 369-405.	1.3	95
10	Brownian excursion area, Wright's constants in graph enumeration, and other Brownian areas. Probability Surveys, 2007, 4, .	1.3	93
11	One, Two and Three Times log n/n for Paths in a Complete Graph with Random Weights. Combinatorics Probability and Computing, 1999, 8, 347-361.	1.3	92
12	The infamous upper tail. Random Structures and Algorithms, 2002, 20, 317-342.	1.1	92
13	Large deviations for sums of partly dependent random variables. Random Structures and Algorithms, 2004, 24, 234-248.	1.1	87
14	Tail bounds for sums of geometric and exponential variables. Statistics and Probability Letters, 2018, 135, 1-6.	0.7	85
15	Upper tails for subgraph counts in random graphs. Israel Journal of Mathematics, 2004, 142, 61-92.	0.8	77
16	A simple solution to the k-core problem. Random Structures and Algorithms, 2007, 30, 50-62.	1.1	75
17	A new approach to the giant component problem. Random Structures and Algorithms, 2009, 34, 197-216.	1.1	70
18	Random coverings in several dimensions. Acta Mathematica, 1986, 156, 83-118.	3.9	67

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19	Random cutting and records in deterministic and random trees. Random Structures and Algorithms, 2006, 29, 139-179.	1.1	64
20	Law of large numbers for the SIR epidemic on a random graph with given degrees. Random Structures and Algorithms, 2014, 45, 726-763.	1.1	62
21	Asymptotic degree distribution in random recursive trees. Random Structures and Algorithms, 2005, 26, 69-83.	1.1	58
22	Graphs with specified degree distributions, simple epidemics, and local vaccination strategies. Advances in Applied Probability, 2007, 39, 922-948.	0.7	57
23	The Wiener Index of simply generated random trees. Random Structures and Algorithms, 2003, 22, 337-358.	1.1	54
24	The minimal spanning tree in a complete graph and a functional limit theorem for trees in a random graph. Random Structures and Algorithms, 1995, 7, 337-355.	1.1	50
25	New versions of Suen's correlation inequality. Random Structures and Algorithms, 1998, 13, 467-483.	1.1	49
26	FEYNMANâ€"KAC FORMULAS FOR BLACKâ€"SCHOLES-TYPE OPERATORS. Bulletin of the London Mathematical Society, 2006, 38, 269-282.	0.8	48
27	Threshold Graph Limits and Random Threshold Graphs. Internet Mathematics, 2008, 5, 267-320.	0.7	46
28	The Numbers of Spanning Trees, Hamilton Cycles and Perfect Matchings in a Random Graph. Combinatorics Probability and Computing, 1994, 3, 97-126.	1.3	45
29	Membership of Hankel Operators on the Ball in Unitary Ideals. Journal of the London Mathematical Society, 1991, s2-43, 485-508.	1.0	42
30	Quicksort asymptotics. Journal of Algorithms, 2002, 44, 4-28.	0.9	42
31	Convergence of Discrete Snakes. Journal of Theoretical Probability, 2005, 18, 615-645.	0.8	41
32	Local limit theorems for finite and infinite urn models. Annals of Probability, 2008, 36, .	1.8	40
33	Bounding the unsatisfiability threshold of random 3-SAT. Random Structures and Algorithms, 2000, 17, 103-116.	1.1	39
34	Asymptotic equivalence and contiguity of some random graphs. Random Structures and Algorithms, 2010, 36, 26-45.	1.1	39
35	Generalized Stirling permutations, families of increasing trees and urn models. Journal of Combinatorial Theory - Series A, 2011, 118, 94-114.	0.8	39
36	Asymptotic normality of the k-core in random graphs. Annals of Applied Probability, 2008, 18, .	1.3	37

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37	Asymptotic bias of some election methods. Annals of Operations Research, 2014, 215, 89-136.	4.1	36
38	Sub-Gaussian tail bounds for the width and height of conditioned Galton–Watson trees. Annals of Probability, 2013, 41, .	1.8	34
39	A functional limit theorem for random graphs with applications to subgraph count statistics. Random Structures and Algorithms, 1990, 1, 15-37.	1.1	33
40	The Deletion Method For Upper Tail Estimates. Combinatorica, 2004, 24, 615-640.	1.2	33
41	Graphs with specified degree distributions, simple epidemics, and local vaccination strategies. Advances in Applied Probability, 2007, 39, 922-948.	0.7	33
42	Asymptotic normality of fringe subtrees and additive functionals in conditioned Galton-Watson trees. Random Structures and Algorithms, 2016, 48, 57-101.	1.1	33
43	Volatility time and properties of option prices. Annals of Applied Probability, 2003, 13, 890.	1.3	32
44	Sparse random graphs with clustering. Random Structures and Algorithms, 2011, 38, 269-323.	1.1	32
45	Approximating the limiting Quicksort distribution. Random Structures and Algorithms, 2001, 19, 376-406.	1.1	31
46	Preservation of convexity of solutions to parabolic equations. Journal of Differential Equations, 2004, 206, 182-226.	2.2	31
47	Notes on Wolff's Note on Interpolation Spaces. Proceedings of the London Mathematical Society, 1984, s3-48, 283-299.	1.3	30
48	The asymptotic distributions of incomplete U-statistics. Zeitschrift Für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1984, 66, 495-505.	0.8	29
49	The Probability of the Alabama Paradox. Journal of Applied Probability, 2012, 49, 773-794.	0.7	29
50	Smoothness and Decay Properties of the Limiting Quicksort Density Function. , 2000, , 53-64.		29
51	Asymptotic distribution for the cost of linear probing hashing. Random Structures and Algorithms, 2001, 19, 438-471.	1.1	28
52	The Center of Mass of the ISE and the Wiener Index of Trees. Electronic Communications in Probability, 2004, 9, .	0.4	27
53	The phase transition in the uniformly grown random graph has infinite order. Random Structures and Algorithms, 2005, 26, 1-36.	1.1	24
54	The density of the ISE and local limit laws for embedded trees. Annals of Applied Probability, 2006, 16, 1597.	1.3	24

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55	Rounding of continuous random variables and oscillatory asymptotics. Annals of Probability, 2006, 34, 1807.	1.8	23
56	The probability that a random multigraph is simple. II. Journal of Applied Probability, 2014, 51, 123-137.	0.7	23
57	A Characterization of the Set of Fixed Points of the Quicksort Transformation. Electronic Communications in Probability, 2000, 5, 77.	0.4	22
58	Multicyclic components in a random graph process. Random Structures and Algorithms, 1993, 4, 71-84.	1.1	21
59	Protected nodes and fringe subtrees in some random trees. Electronic Communications in Probability, 2014, 19, .	0.4	21
60	Orthogonal decompositions and functional limit theorems for random graph statistics. Memoirs of the American Mathematical Society, 1994, 111, 0-0.	0.9	21
61	Perfect matchings in random s-uniform hypergraphs. Random Structures and Algorithms, 1995, 7, 41-57.	1.1	20
62	Susceptibility in subcritical random graphs. Journal of Mathematical Physics, 2008, 49, 125207.	1.1	20
63	Poset limits and exchangeable random posets. Combinatorica, 2011, 31, 529-563.	1.2	20
64	The lower tail: Poisson approximation revisited. Random Structures and Algorithms, 2016, 48, 219-246.	1.1	19
65	On the Length of a Random Minimum Spanning Tree. Combinatorics Probability and Computing, 2016, 25, 89-107.	1.3	19
66	Permutation Pseudographs and Contiguity. Combinatorics Probability and Computing, 2002, 11, 273-298.	1.3	18
67	The size of random fragmentation trees. Probability Theory and Related Fields, 2008, 142, 399-442.	1.8	17
68	Patterns in Random Permutations Avoiding the Pattern 132. Combinatorics Probability and Computing, 2017, 26, 24-51.	1.3	17
69	The Maximum of Brownian Motion with Parabolic Drift. Electronic Journal of Probability, 2010, 15, .	1.0	17
70	Upper tails for counting objects in randomly induced subhypergraphs and rooted random graphs. Arkiv for Matematik, 2011, 49, 79-96.	0.5	16
71	On the asymptotic statistics of the number of occurrences of multiple permutation patterns. Electronic Journal of Combinatorics, 2015, 6, 117-143.	0.1	16
72	A Vervaat-like path transformation for the reflected brownian bridge conditioned on its local time at 0. Annals of Probability, 2001, 29, 1755.	1.8	15

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73	Individual displacements for linear probing hashing with different insertion policies. ACM Transactions on Algorithms, 2005, 1, 177-213.	1.0	15
74	On the Number of Perfect Matchings in Random Lifts. Combinatorics Probability and Computing, 2010, 19, 791-817.	1.3	15
75	Interval Graph Limits. Annals of Combinatorics, 2013, 17, 27-52.	0.6	15
76	Left and Right Pathlengths in Random Binary Trees. Algorithmica, 2006, 46, 419-429.	1.3	14
77	Dismantling Sparse Random Graphs. Combinatorics Probability and Computing, 2008, 17, 259-264.	1.3	14
78	A Point Process Describing the Component Sizes in the Critical Window of the Random Graph Evolution. Combinatorics Probability and Computing, 2007, 16, 631.	1.3	13
79	ABSOLUTELY CONTINUOUS COMPENSATORS. International Journal of Theoretical and Applied Finance, 2011, 14, 335-351.	0.5	13
80	Can time-homogeneous diffusions produce any distribution?. Probability Theory and Related Fields, 2013, 155, 493-520.	1.8	13
81	Superreplication of Options on Several Underlying Assets. Journal of Applied Probability, 2005, 42, 27-38.	0.7	13
82	Small cliques in random graphs. Random Structures and Algorithms, 1990, 1, 403-434.	1.1	12
83	CONVERGENCE OF COINED QUANTUM WALKS ON â„¤. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2005, 08, 129-140.	0.5	12
84	The Cut Metric, Random Graphs, and Branching Processes. Journal of Statistical Physics, 2010, 140, 289-335.	1.2	12
85	Quasi-random graphs and graph limits. European Journal of Combinatorics, 2011, 32, 1054-1083.	0.8	12
86	Random Recursive Trees and Preferential Attachment Trees are Random Split Trees. Combinatorics Probability and Computing, 2019, 28, 81-99.	1.3	12
87	Cycles and Unicyclic Components in Random Graphs. Combinatorics Probability and Computing, 2003, 12, .	1.3	11
88	Rainbow Hamilton cycles in random regular graphs. Random Structures and Algorithms, 2007, 30, 35-49.	1.1	11
89	Spread-out percolation inâ„¤. Random Structures and Algorithms, 2007, 31, 239-246.	1.1	11
90	Line-of-Sight Percolation. Combinatorics Probability and Computing, 2009, 18, 83-106.	1.3	11

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91	Precise Logarithmic Asymptotics for the Right Tails of Some Limit Random Variables for Random Trees. Annals of Combinatorics, 2009, 12, 403-416.	0.6	11
92	On the tails of the limiting Quicksort distribution. Electronic Communications in Probability, 2015, 20, .	0.4	11
93	On a representation theorem for finitely exchangeable random vectors. Journal of Mathematical Analysis and Applications, 2016, 442, 703-714.	1.0	11
94	Susceptibility of random graphs with given vertex degrees. Electronic Journal of Combinatorics, 2010, 1, 357-387.	0.1	11
95	Proportional graphs. Random Structures and Algorithms, 1991, 2, 209-224.	1.1	10
96	Shellsort with three increments. Random Structures and Algorithms, 1997, 10, 125-142.	1.1	10
97	Superreplication of Options on Several Underlying Assets. Journal of Applied Probability, 2005, 42, 27-38.	0.7	10
98	On a Random Graph Related to Quantum Theory. Combinatorics Probability and Computing, 2007, 16, 757.	1.3	10
99	Long and short paths in uniform random recursive dags. Arkiv for Matematik, 2011, 49, 61-77.	0.5	10
100	On covering by translates of a set. Random Structures and Algorithms, 2011, 38, 33-67.	1.1	10
101	Phase transitions for modified ErdÅ's–RÃ©nyi processes. Arkiv for Matematik, 2012, 50, 305-329.	0.5	10
102	On Edge Exchangeable Random Graphs. Journal of Statistical Physics, 2018, 173, 448-484.	1.2	10
103	Graph limits and hereditary properties. European Journal of Combinatorics, 2016, 52, 321-337.	0.8	9
104	Limit Theorems for Certain Branching Random Walks on Compact Groups and Homogeneous Spaces. Annals of Probability, 1983, 11, 909.	1.8	8
105	Probabilistic construction of proportional graphs. Random Structures and Algorithms, 1992, 3, 127-137.	1.1	8
106	Quicksort with Unreliable Comparisons: A Probabilistic Analysis. Combinatorics Probability and Computing, 2004, 13, 419-449.	1.3	8
107	Distances between pairs of vertices and vertical profile in conditioned Galton–Watson trees. Random Structures and Algorithms, 2011, 38, 381-395.	1.1	8
108	Note on a partition limit theorem for rank and crank. Bulletin of the London Mathematical Society, 2013, 45, 551-553.	0.8	8

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109	Component structure of the configuration model: Barely supercritical case. Random Structures and Algorithms, 2019, 55, 3-55.	1.1	8
110	Patterns in random permutations avoiding the pattern 321. Random Structures and Algorithms, 2019, 55, 249-270.	1.1	8
111	Patterns in Random Permutations Avoiding Some Sets of Multiple Patterns. Algorithmica, 2020, 82, 616-641.	1.3	8
112	Growth of components in random graphs. Random Structures and Algorithms, 2000, 17, 343-356.	1.1	7
113	Moment convergence in conditional limit theorems. Journal of Applied Probability, 2001, 38, 421-437.	0.7	7
114	The probability that a random multigraph is simple. II. Journal of Applied Probability, 2014, 51, 123-137.	0.7	7
115	The Greedy Independent Set in a Random Graph with Given Degrees. Random Structures and Algorithms, 2017, 51, 565-586.	1.1	7
116	Random trees in a graph and trees in a random graph. Mathematical Proceedings of the Cambridge Philosophical Society, 1986, 100, 319-330.	0.4	6
117	Random dyadic tilings of the unit square. Random Structures and Algorithms, 2002, 21, 225-251.	1.1	6
118	Some Remarks on the Combinatorics of ISn. Semigroup Forum, 2005, 70, 391-405.	0.6	6
119	The First Eigenvalue of Random Graphs. Combinatorics Probability and Computing, 2005, 14, 815.	1.3	6
120	Sorting Using Complete Subintervals and the Maximum Number of Runs in a Randomly Evolving Sequence. Annals of Combinatorics, 2009, 12, 417-447.	0.6	6
121	On degenerate sums of m-dependent variables. Journal of Applied Probability, 2015, 52, 1146-1155.	0.7	6
122	A modified bootstrap percolation on a random graph coupled with a lattice. Discrete Applied Mathematics, 2019, 258, 152-165.	0.9	6
123	Moment convergence in conditional limit theorems. Journal of Applied Probability, 2001, 38, 421-437.	0.7	5
124	Tightness and weak convergence for jump processes. Statistics and Probability Letters, 2001, 52, 101-107.	0.7	5
125	Duality in inhomogeneous random graphs, and the cut metric. Random Structures and Algorithms, 2011, 39, 399-411.	1.1	5
126	Networkingâ€"Smoothly Does It. Science, 2011, 333, 298-299.	12.6	5

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127	Inversions in Split Trees and Conditional Galton–Watson Trees. Combinatorics Probability and Computing, 2019, 28, 335-364.	1.3	5
128	Mean and variance of balanced PÃ³lya urns. Advances in Applied Probability, 2020, 52, 1224-1248.	0.7	5
129	Tree limits and limits of random trees. Combinatorics Probability and Computing, 2021, 30, 849-893.	1.3	5
130	On the probability that a binomial variable is at most its expectation. Statistics and Probability Letters, 2021, 171, 109020.	0.7	5
131	A graph Fourier transform and proportional graphs. Random Structures and Algorithms, 1995, 6, 341-351.	1.1	4
132	On smallest triangles. Random Structures and Algorithms, 2003, 23, 206-223.	1.1	4
133	Addendum to "The Minimal Spanning Tree in a Complete Graph and a Functional Limit Theorem for Trees in a Random Graph". Random Structures and Algorithms, 2006, 28, 511-512.	1.1	4
134	Weighted Random Staircase Tableaux. Combinatorics Probability and Computing, 2014, 23, 1114-1147.	1.3	4
135	On String Graph Limits and the Structure of a Typical String Graph. Journal of Graph Theory, 2017, 84, 386-407.	0.9	4
136	Graph properties, graph limits, and entropy. Journal of Graph Theory, 2018, 87, 208-229.	0.9	4
137	Competition in growth and urns. Random Structures and Algorithms, 2019, 54, 211-227.	1.1	4
138	Long Term Behaviour of a Reversible System of Interacting Random Walks. Journal of Statistical Physics, 2019, 175, 71-96.	1.2	4
139	Random graphs with given vertex degrees and switchings. Random Structures and Algorithms, 2020, 57, 3-31.	1.1	4
140	Preferential attachment without vertex growth: Emergence of the giant component. Annals of Applied Probability, 2021, 31, .	1.3	4
141	Random coverings of the circle by arcs with restricted endpoints. Journal of Applied Probability, 1988, 25, 215-219.	0.7	3
142	Erratum to ?Bounding the Unsatisfiability Threshold of Random 3-SAT?. Random Structures and Algorithms, 2001, 18, 99-100.	1.1	3
143	The Integral of the Supremum Process of Brownian Motion. Journal of Applied Probability, 2009, 46, 593-600.	0.7	3
144	Monotone Graph Limits and Quasimonotone Graphs. Internet Mathematics, 2012, 8, 187-231.	0.7	3

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145	Renewal theory in the analysis of tries and strings. Theoretical Computer Science, 2012, 416, 33-54.	0.9	3
146	More on quasi-random graphs, subgraph counts and graph limits. European Journal of Combinatorics, 2015, 46, 134-160.	0.8	3
147	A Unified Approach to Linear Probing Hashing with Buckets. Algorithmica, 2016, 75, 724-781.	1.3	3
148	Near-critical SIR epidemic on a random graph with given degrees. Journal of Mathematical Biology, 2017, 74, 843-886.	1.9	3
149	Packing random graphs and hypergraphs. Random Structures and Algorithms, 2017, 51, 3-13.	1.1	3
150	Strong convergence of infinite color balanced urns under uniform ergodicity. Journal of Applied Probability, 2020, 57, 853-865.	0.7	3
151	Bounding the unsatisfiability threshold of random 3â€‘SAT. Random Structures and Algorithms, 2000, 17, 103-116.	1.1	3
152	Hamilton cycles in a random tournament. Random Structures and Algorithms, 1995, 6, 213-220.	1.1	2
153	On Generalized Random Railways. Combinatorics Probability and Computing, 2004, 13, 31-35.	1.3	2
154	On the asymptotic joint distribution of height and width in random trees. Studia Scientiarum Mathematicarum Hungarica, 2008, 45, 451-467.	0.1	2
155	Random graphs with forbidden vertex degrees. Random Structures and Algorithms, 2010, 37, 137-175.	1.1	2
156	Sesqui-type branching processes. Stochastic Processes and Their Applications, 2018, 128, 3628-3655.	0.9	2
157	Asymptotics of fluctuations in Crumpâ€‘Modeâ€‘Jagers processes: the lattice case. Advances in Applied Probability, 2018, 50, 141-171.	0.7	2
158	On general subtrees of a conditioned Galtonâ€"Watson tree. Electronic Communications in Probability, 2021, 26, .	0.4	2
159	A.s. convergence for infinite colour PÃ³lya urns associated with random walks. Arkiv for Matematik, 2021, 59, 87-123.	0.5	2
160	Can smooth graphons in several dimensions be represented by smooth graphons on $[0,1$ Examples and Counterexamples, 2021, 1, 100011.	0.6	2
161	Bounding the unsatisfiability threshold of random 3-SAT. , 2000, 17, 103.		2
162	An example of graph limits of growing sequences of random graphs. Electronic Journal of Combinatorics, 2013, 4, 67-80.	0.1	2

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163	Correlations for paths in random orientations of G(n,p) and G(n,m). Random Structures and Algorithms, 2011, 39, 486-506.	1.1	1
164	ABSOLUTELY CONTINUOUS COMPENSATORS. , 2012, , 433-449.		1
165	Competing first passage percolation on random graphs with finite variance degrees. Random Structures and Algorithms, 2019, 55, 545-559.	1.1	1
166	The distance profile of rooted and unrooted simply generated trees. Combinatorics Probability and Computing, 0, , 1-43.	1.3	1
167	To fixate or not to fixate in two-type annihilating branching random walks. Annals of Probability, 2021, 49, .	1.8	1
168	New versions of Suen's correlation inequality. Random Structures and Algorithms, 1998, 13, 467-483.	1.1	1
169	Growth of components in random graphs. Random Structures and Algorithms, 2000, 17, 343-356.	1.1	1
170	On the Typical Structure of Graphs in a Monotone Property. Electronic Journal of Combinatorics, 2014, 21, .	0.4	1
171	Limits of interval orders and semiorders. Electronic Journal of Combinatorics, 2012, 3, 163-183.	0.1	1
172	Asymptotic normality in random graphs with given vertex degrees. Random Structures and Algorithms, 2020, 56, 1070-1116.	1.1	1
173	Central limit theorems for additive functionals and fringe trees in tries. Electronic Journal of Probability, 2022, 27, .	1.0	1
174	Individual Displacements in Hashing with Coalesced Chains. Combinatorics Probability and Computing, 2008, 17, 799-814.	1.3	0
175	The Integral of the Supremum Process of Brownian Motion. Journal of Applied Probability, 2009, 46, 593-600.	0.7	0
176	On the Spread of Random Graphs. Combinatorics Probability and Computing, 2014, 23, 477-504.	1.3	0
177	Feynman–Kac theorems for generalized diffusions. Transactions of the American Mathematical Society, 2015, 367, 8051-8070.	0.9	0
178	Tensor norms on ordered normed spaces, polarization constants, and exchangeable distributions. Mathematische Nachrichten, 2021, 294, 1484-1522.	0.8	0
179	Successive minimum spanning trees. Random Structures and Algorithms, 0, , .	1.1	0
180	Non-Fringe Subtrees in Conditioned Galton—Watson Trees. Electronic Journal of Combinatorics, 2018, 25, .	0.4	0

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181	Rate of convergence for traditional Pólya urns. Journal of Applied Probability, 2020, 57, 1029-1044.	0.7	0
182	On convergence for graphexes. European Journal of Combinatorics, 2022, 104, 103549.	0.8	0