

Will Perkins

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

445
citations

840776

11
h-index

888059

17
g-index

43
all docs

43
docs citations

43
times ranked

157
citing authors

#	ARTICLE	IF	CITATIONS
1	Information-theoretic thresholds from the cavity method. <i>Advances in Mathematics</i> , 2018, 333, 694-795.	1.1	44
2	Independent sets, matchings, and occupancy fractions. <i>Journal of the London Mathematical Society</i> , 2017, 96, 47-66.	1.0	24
3	ON THE HARD SPHERE MODEL AND SPHERE PACKINGS IN HIGH DIMENSIONS. <i>Forum of Mathematics, Sigma</i> , 2019, 7, .	0.7	24
4	Algorithmic Pirogov-Sinai theory. <i>Probability Theory and Related Fields</i> , 2020, 176, 851-895.	1.8	24
5	Storage capacity in symmetric binary perceptrons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 294003.	2.1	23
6	On the Complexity of Random Satisfiability Problems with Planted Solutions. , 2015, , .		21
7	On the average size of independent sets in triangle-free graphs. <i>Proceedings of the American Mathematical Society</i> , 2017, 146, 111-124.	0.8	18
8	Algorithmic Pirogov-Sinai theory. , 2019, , .		17
9	Algorithms for #BIS-Hard Problems on Expander Graphs. <i>SIAM Journal on Computing</i> , 2020, 49, 681-710.	1.0	17
10	Fast algorithms at low temperatures via Markov chains. <i>Random Structures and Algorithms</i> , 2021, 58, 294-321.	1.1	17
11	Counting independent sets in unbalanced bipartite graphs. , 2020, , 1456-1466.		16
12	Efficient sampling and counting algorithms for the Potts model on $\hat{\mu}$ at all temperatures. , 2020, , .		15
13	On the Complexity of Random Satisfiability Problems with Planted Solutions. <i>SIAM Journal on Computing</i> , 2018, 47, 1294-1338.	1.0	14
14	On kissing numbers and spherical codes in high dimensions. <i>Advances in Mathematics</i> , 2018, 335, 307-321.	1.1	14
15	Independent sets in the hypercube revisited. <i>Journal of the London Mathematical Society</i> , 2020, 102, 645-669.	1.0	14
16	Frozen 1-RSB structure of the symmetric Ising perceptron. , 2021, , .		14
17	Information-theoretic thresholds from the cavity method. , 2017, , .		13
18	Extremes of the internal energy of the Potts model on cubic graphs. <i>Random Structures and Algorithms</i> , 2018, 53, 59-75.	1.1	11

#	ARTICLE	IF	CITATIONS
19	Algorithms for #BIS-hard problems on expander graphs. , 2019, , 2235-2247.		11
20	Bethe States of Random Factor Graphs. Communications in Mathematical Physics, 2019, 366, 173-201.	2.2	10
21	Counting independent sets in cubic graphs of given girth. Journal of Combinatorial Theory Series B, 2018, 133, 211-242.	1.0	9
22	Hardness of Finding Independent Sets in Almost 3-Colorable Graphs. , 2010, , .		8
23	Spin Systems on Bethe Lattices. Communications in Mathematical Physics, 2019, 372, 441-523.	2.2	8
24	On the Widomâ€™Rowlinson Occupancy Fraction in Regular Graphs. Combinatorics Probability and Computing, 2017, 26, 183-194.	1.3	7
25	Belief propagation on replica symmetric random factor graph models. Annales De L'Institut Henri Poincare (D) Combinatorics, Physics and Their Interactions, 2018, 5, 211-249.	1.1	7
26	The Bohmanâ€™Frieze process near criticality. Random Structures and Algorithms, 2013, 43, 221-250.	1.1	6
27	Birthday inequalities, repulsion, and hard spheres. Proceedings of the American Mathematical Society, 2016, 144, 2635-2649.	0.8	6
28	Large deviations for the empirical distribution in the branching random walk. Electronic Journal of Probability, 2015, 20, .	1.0	5
29	A proof of the upper matching conjecture for large graphs. Journal of Combinatorial Theory Series B, 2021, 151, 393-416.	1.0	4
30	Independent sets of a given size and structure in the hypercube. Combinatorics Probability and Computing, 2022, 31, 702-720.	1.3	4
31	Approximate counting and sampling via local central limit theorems. , 2022, , .		4
32	The Widomâ€™Rowlinson model, the hard-core model and the extremality of the complete graph. European Journal of Combinatorics, 2017, 62, 70-76.	0.8	3
33	Tight bounds on the coefficients of partition functions via stability. Journal of Combinatorial Theory - Series A, 2018, 160, 1-30.	0.8	3
34	Three simple scenarios for high-dimensional sphere packings. Physical Review E, 2021, 104, 064612.	2.1	3
35	Correlation decay for hard spheres via Markov chains. Annals of Applied Probability, 2022, 32, .	1.3	3
36	Some deficiencies of χ^2 and classical exact tests of significance. Applied and Computational Harmonic Analysis, 2014, 36, 361-386.	2.2	1

#	ARTICLE	IF	CITATIONS
37	Random k -SAT and the power of two choices. Random Structures and Algorithms, 2015, 47, 163-173.	1.1	1
38	On the number of independent sets in uniform, regular, linear hypergraphs. European Journal of Combinatorics, 2022, 99, 103401.	0.8	1
39	The forgetfulness of balls and bins. Random Structures and Algorithms, 2013, 42, 250-267.	1.1	0
40	Tight bounds on the coefficients of partition functions via stability. Electronic Notes in Discrete Mathematics, 2017, 61, 317-321.	0.4	0
41	On the Resilience of Bipartite Networks. , 2018, , .		0
42	Computational thresholds for the fixed-magnetization Ising model. , 2022, , .		0