Deryk Osthus

List of Publications by Year
in descending order

101 papers	1,649 citations	304743 22 h-index	361022 35 g-index
102 all docs	102 docs citations	102 times ranked	389 citing authors

#	Article	IF	Citations
1	The minimum degree threshold for perfect graph packings. Combinatorica, 2009, 29, 65-107.	1.2	91
2	Popularity based random graph models leading to a scale-free degree sequence. Discrete Mathematics, 2004, 282, 53-68.	0.7	88
3	Loose Hamilton cycles in 3-uniform hypergraphs of high minimum degree. Journal of Combinatorial Theory Series B, 2006, 96, 767-821.	1.0	84
4	Hamilton decompositions of regular expanders: A proof of Kellyâ€™s conjecture for large tournaments. Advances in Mathematics, 2013, 237, 62-146.	1.1	74
5	Matchings in hypergraphs of large minimum degree. Journal of Graph Theory, 2006, 51, 269-280.	0.9	55
6	Matchings in 3-uniform hypergraphs. Journal of Combinatorial Theory Series B, 2013, 103, 291-305.	1.0	55
7	Hamilton â„“-cycles in uniform hypergraphs. Journal of Combinatorial Theory - Series A, 2010, 117, 910-927.	0.8	47
8	Loose Hamilton cycles in hypergraphs. Discrete Mathematics, 2011, 311, 544-559.	0.7	47
9	A survey on Hamilton cycles in directed graphs. European Journal of Combinatorics, 2012, 33, 750-766.	0.8	42
10	On random planar graphs, the number of planar graphs and their triangulations. Journal of Combinatorial Theory Series B, 2003, 88, 119-134.	1.0	39
11	Hamilton decompositions of regular expanders: Applications. Journal of Combinatorial Theory Series B, 2014, 104, 1-27.	1.0	39
12	Hamiltonian degree sequences in digraphs. Journal of Combinatorial Theory Series B, 2010, 100, 367-380.	1.0	38
13	Random maximalH-free graphs. Random Structures and Algorithms, 2001, 18, 61-82.	1.1	37
14	An exact minimum degree condition for Hamilton cycles in oriented graphs. Journal of the London Mathematical Society, 2009, 79, 144-166.	1.0	37
15	Edge-decompositions of graphs with high minimum degree. Advances in Mathematics, 2016, 288, 337-385.	1.1	35
16	Induced Subdivisions In K s,s -Free Graphs of Large Average Degree. Combinatorica, 2004, 24, 287-304.	1.2	34
17	Embeddings and Ramsey numbers of sparse Î²-uniform hypergraphs. Combinatorica, 2009, 29, 263-297.	1.2	33
18	Edge-disjoint Hamilton cycles in random graphs. Random Structures and Algorithms, 2015, 46, 397-445.	1.1	33

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19	On PÃ³sa's Conjecture for Random Graphs. SIAM Journal on Discrete Mathematics, 2012, 26, 1440-1457.	0.8	25
20	Forcing unbalanced complete bipartite minors. European Journal of Combinatorics, 2005, 26, 75-81.	0.8	24
21	Large planar subgraphs in dense graphs. Journal of Combinatorial Theory Series B, 2005, 95, 263-282.	1.0	23
22	Edge-disjoint Hamilton cycles in graphs. Journal of Combinatorial Theory Series B, 2012, 102, 1035-1060.	1.0	23
23	For Which Densities are Random Triangle-Free Graphs Almost Surely Bipartite?. Combinatorica, 2003, 23, 105-150.	1.2	22
24	Minors in graphs of large girth. Random Structures and Algorithms, 2003, 22, 213-225.	1.1	22
25	Topological Minors in Graphs of Large Girth. Journal of Combinatorial Theory Series B, 2002, 86, 364-380.	1.0	21
26	A Dirac-Type Result on Hamilton Cycles in Oriented Graphs. Combinatorics Probability and Computing, 2008, 17, .	1.3	21
27	A proof of Sumner's universal tournament conjecture for large tournaments. Proceedings of the London Mathematical Society, 2011, 102, 731-766.	1.3	21
28	A blow-up lemma for approximate decompositions. Transactions of the American Mathematical Society, 2019, 371, 4655-4742.	0.9	20
29	3-Uniform hypergraphs of bounded degree have linear Ramsey numbers. Journal of Combinatorial Theory Series B, 2008, 98, 484-505.	1.0	18
30	Proof of a conjecture of Thomassen on Hamilton cycles in highly connected tournaments. Proceedings of the London Mathematical Society, 2014, 109, 733-762.	1.3	18
31	Fractional and integer matchings in uniform hypergraphs. European Journal of Combinatorics, 2014, 38, 83-96.	0.8	18
32	Every Graph of Sufficiently Large Average Degree Contains a C 4 -Free Subgraph of Large Average Degree. Combinatorica, 2004, 24, 155-162.	1.2	17
33	Optimal path and cycle decompositions of dense quasirandom graphs. Journal of Combinatorial Theory Series B, 2016, 118, 88-108.	1.0	17
34	Partitions of graphs with high minimum degree or connectivity. Journal of Combinatorial Theory Series B, 2003, 88, 29-43.	1.0	16
35	Clique decompositions of multipartite graphs and completion of Latin squares. Journal of Combinatorial Theory - Series A, 2017, 151, 146-201.	0.8	16
36	An Ore-type Theorem for Perfect Packings in Graphs. SIAM Journal on Discrete Mathematics, 2009, 23, 1335-1355.	0.8	15

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37	An approximate version of SumnerÊ¼s universal tournament conjecture. Journal of Combinatorial Theory Series B, 2011, 101, 415-447.	1.0	15
38	Optimal Packings of Hamilton Cycles in Graphs of High Minimum Degree. Combinatorics Probability and Computing, 2013, 22, 394-416.	1.3	15
39	Hamilton decompositions of regular tournaments. Proceedings of the London Mathematical Society, 2010, 101, 303-335.	1.3	13
40	The order of the largest complete minor in a random graph. Random Structures and Algorithms, 2008, 33, 127-141.	1.1	12
41	Approximate Hamilton decompositions of random graphs. Random Structures and Algorithms, 2012, 40, 133-149.	1.1	12
42	Decompositions of complete uniform hypergraphs into Hamilton Berge cycles. Journal of Combinatorial Theory - Series A, 2014, 126, 128-135.	0.8	12
43	The robust component structure of dense regular graphs and applications. Proceedings of the London Mathematical Society, 2015, 110, 19-56.	1.3	12
44	Optimal packings of bounded degree trees. Journal of the European Mathematical Society, 2019, 21, 3573-3647.	1.4	12
45	Complete Minors In K s,s -Free Graphs. Combinatorica, 2004, 25, 49-64.	1.2	11
46	Four-cycles in graphs without a given even cycle. Journal of Graph Theory, 2005, 48, 147-156.	0.9	11
47	Improved Bounds for Topological Cliques in Graphs of Large Girth. SIAM Journal on Discrete Mathematics, 2006, 20, 62-78.	0.8	11
48	Proof of a tournament partition conjecture and an application to 1-factors with prescribed cycle lengths. Combinatorica, 2016, 36, 451-469.	1.2	11
49	On the structure of oriented graphs and digraphs with forbidden tournaments or cycles. Journal of Combinatorial Theory Series B, 2017, 124, 88-127.	1.0	11
50	Fractional clique decompositions of dense graphs and hypergraphs. Journal of Combinatorial Theory Series B, 2017, 127, 148-186.	1.0	11
51	On the decomposition threshold of a given graph. Journal of Combinatorial Theory Series B, 2019, 139, 47-127.	1.0	11
52	Rainbow structures in locally bounded colorings of graphs. Random Structures and Algorithms, 2020, 56, 1171-1204.	1.1	10
53	Large Topological Cliques in Graphs Without a 4-Cycle. Combinatorics Probability and Computing, 2004, 13, 93-102.	1.3	9
54	Spanning triangulations in graphs. Journal of Graph Theory, 2005, 49, 205-233.	0.9	9

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55	Multicolored Hamilton Cycles and Perfect Matchings in Pseudorandom Graphs. SIAM Journal on Discrete Mathematics, 2006, 20, 273-286.	0.8	9
56	Perfect packings with complete graphs minus an edge. European Journal of Combinatorics, 2007, 28, 2143-2155.	0.8	9
57	Cycles of given length in oriented graphs. Journal of Combinatorial Theory Series B, 2010, 100, 251-264.	1.0	9
58	A bandwidth theorem for approximate decompositions. Proceedings of the London Mathematical Society, 2019, 118, 1393-1449.	1.3	9
59	Maximizing Several Cuts Simultaneously. Combinatorics Probability and Computing, 2007, 16, 277.	1.3	8
60	A Semiexact Degree Condition for Hamilton Cycles in Digraphs. SIAM Journal on Discrete Mathematics, 2010, 24, 709-756.	0.8	8
61	Minimalist designs. Random Structures and Algorithms, 2020, 57, 47-63.	1.1	8
62	On a Conjecture of ErdÅ‘s on Locally Sparse Steiner Triple Systems. Combinatorica, 2020, 40, 363-403.	1.2	8
63	Decompositions into isomorphic rainbow spanning trees. Journal of Combinatorial Theory Series B, 2021, 146, 439-484.	1.0	8
64	Maximum Antichains in Random Subsets of a Finite Set. Journal of Combinatorial Theory - Series A, 2000, 90, 336-346.	0.8	7
65	Minors in random regular graphs. Random Structures and Algorithms, 2009, 35, 444-463.	1.1	7
66	Arbitrary Orientations of Hamilton Cycles in Digraphs. SIAM Journal on Discrete Mathematics, 2015, 29, 1553-1584.	0.8	7
67	Euler Tours in Hypergraphs. Combinatorica, 2020, 40, 679-690.	1.2	7
68	Finding Hamilton cycles in robustly expanding digraphs. Journal of Graph Algorithms and Applications, 2012, 16, 335-358.	0.4	7
69	Extremal connectivity for topological cliques in bipartite graphs. Journal of Combinatorial Theory Series B, 2006, 96, 73-99.	1.0	5
70	A note on complete subdivisions in digraphs of large outdegree. Journal of Graph Theory, 2008, 57, 1-6.	0.9	5
71	Bipartitions of Highly Connected Tournaments. SIAM Journal on Discrete Mathematics, 2016, 30, 895-911.	0.8	5
72	Packings in Dense Regular Graphs. Combinatorics Probability and Computing, 2005, 14, 325.	1.3	4

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73	Linkedness and Ordered Cycles in Digraphs. Combinatorics Probability and Computing, 2008, 17, 411-422.	1.3	4
74	Approximate Hamilton Decompositions of Robustly Expanding Regular Digraphs. SIAM Journal on Discrete Mathematics, 2013, 27, 1372-1409.	0.8	4
75	Optimal covers with Hamilton cycles in random graphs. Combinatorica, 2014, 34, 573-596.	1.2	4
76	Solution to a problem of BollobÃ¡s and HÃ¤ggkvist on Hamilton cycles in regular graphs. Journal of Combinatorial Theory Series B, 2016, 121, 85-145.	1.0	4
77	Path and cycle decompositions of dense graphs. Journal of the London Mathematical Society, 2021, 104, 1085-1134.	1.0	4
78	Subdivisions of K_{r+2} in Graphs of Average Degree at Least $r+varepsilon$ and Large but Constant Girth. Combinatorics Probability and Computing, 2004, 13, 361-371.	1.3	3
79	k-Ordered Hamilton cycles in digraphs. Journal of Combinatorial Theory Series B, 2008, 98, 1165-1180.	1.0	3
80	Edge-decompositions of graphs with high minimum degree. Electronic Notes in Discrete Mathematics, 2015, 49, 115-121.	0.4	3
81	A domination algorithm for {0,1}â€instances of the travelling salesman problem. Random Structures and Algorithms, 2016, 48, 427-453.	1.1	2
82	On the Random Greedy F-Free Hypergraph Process. SIAM Journal on Discrete Mathematics, 2016, 30, 1343-1350.	0.8	2
83	A Characterization of Testable Hypergraph Properties. , 2017, , .		2
84	Forbidding induced even cycles in a graph: Typical structure and counting. Journal of Combinatorial Theory Series B, 2018, 131, 170-219.	1.0	2
85	Edge Correlations in Random Regular Hypergraphs and Applications to Subgraph Testing. SIAM Journal on Discrete Mathematics, 2019, 33, 1837-1863.	0.8	2
86	Ramsey numbers of sparse hypergraphs. Electronic Notes in Discrete Mathematics, 2007, 29, 29-33.	0.4	1
87	Matchings in 3-uniform hypergraphs of large minimum vertex degree. Electronic Notes in Discrete Mathematics, 2011, 38, 813-818.	0.4	1
88	Embedding cycles of given length in oriented graphs. European Journal of Combinatorics, 2013, 34, 495-501.	0.8	1
89	The robust component structure of dense regular graphs. , 2013, , 85-90.		1
90	Diracâ€™s theorem for random regular graphs. Combinatorics Probability and Computing, 2021, 30, 17-36.	1.3	1

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91	A proof of the ErdÃ¶s-Faber-LovÃ¡sz conjecture: Algorithmic aspects. , 2022, , .		1
92	Almost all optimally coloured complete graphs contain a rainbow Hamilton path. Journal of Combinatorial Theory Series B, 2022, 156, 57-100.	1.0	1
93	Almost all graphs with high girth and suitable density have high chromatic number. Journal of Graph Theory, 2001, 37, 220-226.	0.9	0
94	A minimum degree condition forcing a digraph to be k-linked. Electronic Notes in Discrete Mathematics, 2007, 29, 35-39.	0.4	0
95	Degree sequences forcing Hamilton cycles in directed graphs. Electronic Notes in Discrete Mathematics, 2009, 34, 347-351.	0.4	0
96	Short cycles in oriented graphs. Electronic Notes in Discrete Mathematics, 2009, 34, 369-373.	0.4	0
97	A proof of SumnerÊ¼s universal tournament conjecture for large tournaments. Electronic Notes in Discrete Mathematics, 2011, 38, 687-692.	0.4	0
98	Bipartitions of highly connected tournaments. Electronic Notes in Discrete Mathematics, 2015, 49, 79-84.	0.4	0
99	Optimal path and cycle decompositions of dense quasirandom graphs. Electronic Notes in Discrete Mathematics, 2015, 49, 65-72.	0.4	0
100	On the random greedy F -free hypergraph process. Electronic Notes in Discrete Mathematics, 2015, 49, 73-77.	0.4	0
101	Counting Hamilton cycles in Dirac hypergraphs. Combinatorics Probability and Computing, 2021, 30, 631-653.	1.3	0