

# Brendan D Mckay

## List of Publications by Year in descending order

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61  
papers

2,408  
citations

304743

22  
h-index

214800

47  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1419  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast fully dynamic labelling for distance queries. <i>VLDB Journal</i> , 2022, 31, 483-506.	4.1	4
2	Enumeration of Latin squares with conjugate symmetry. <i>Journal of Combinatorial Designs</i> , 2022, 30, 105.	0.6	2
3	Surge: a fast open-source chemical graph generator. <i>Journal of Cheminformatics</i> , 2022, 14, 24.	6.1	10
4	Addressing Johnson Graphs, Complete Multipartite Graphs, Odd Cycles, and Random Graphs. <i>Experimental Mathematics</i> , 2021, 30, 372-382.	0.7	1
5	Subgraph counts for dense random graphs with specified degrees. <i>Combinatorics Probability and Computing</i> , 2021, 30, 460-497.	1.3	2
6	Asymptotic enumeration of linear hypergraphs with given number of vertices and edges. <i>Advances in Applied Mathematics</i> , 2020, 115, 102000.	0.7	3
7	The $r$ -switching-stable graphs. <i>Discrete Applied Mathematics</i> , 2019, 266, 16-29.	0.9	0
8	Complex martingales and asymptotic enumeration. <i>Random Structures and Algorithms</i> , 2018, 52, 617-661.	1.1	12
9	Hypohamiltonian Planar Cubic Graphs with Girth 5. <i>Journal of Graph Theory</i> , 2017, 85, 7-11.	0.9	4
10	Planar Hypohamiltonian Graphs on 40 Vertices. <i>Journal of Graph Theory</i> , 2017, 84, 121-133.	0.9	18
11	The average number of spanning trees in sparse graphs with given degrees. <i>European Journal of Combinatorics</i> , 2017, 63, 6-25.	0.8	16
12	On a bound of Hoeffding in the complex case. <i>Electronic Communications in Probability</i> , 2016, 21, .	0.4	2
13	Degree sequences of random digraphs and bipartite graphs. <i>Electronic Journal of Combinatorics</i> , 2016, 7, 21-49.	0.1	1
14	The Order of Automorphisms of Quasigroups. <i>Journal of Combinatorial Designs</i> , 2015, 23, 275-288.	0.6	11
15	Recursive generation of IPR fullerenes. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 1702-1724.	1.5	14
16	Practical graph isomorphism, II. <i>Journal of Symbolic Computation</i> , 2014, 60, 94-112.	0.8	758
17	Switching Reconstruction of Digraphs. <i>Journal of Graph Theory</i> , 2014, 76, 279-296.	0.9	2
18	Asymptotic Enumeration of Sparse Multigraphs with Given Degrees. <i>SIAM Journal on Discrete Mathematics</i> , 2013, 27, 2064-2089.	0.8	8

#	ARTICLE	IF	CITATIONS
19	ASYMPTOTIC ENUMERATION OF SYMMETRIC INTEGER MATRICES WITH UNIFORM ROW SUMS. Journal of the Australian Mathematical Society, 2012, 92, 367-384.	0.4	4
20	Counting loopy graphs with given degrees. Linear Algebra and Its Applications, 2012, 436, 901-926.	0.9	2
21	Subgraphs of Dense Random Graphs with Specified Degrees. Combinatorics Probability and Computing, 2011, 20, 413-433.	1.3	19
22	Subgraphs of Random Graphs with Specified Degrees. , 2011, , .		16
23	Asymptotic enumeration of integer matrices with large equal row and column sums. Combinatorica, 2010, 30, 655-680.	1.2	18
24	Asymptotic enumeration of correlation-immune boolean functions. Cryptography and Communications, 2010, 2, 111-126.	1.4	23
25	Graph approach to quantum systems. Journal of Mathematical Physics, 2010, 51, 102103.	1.1	15
26	Subgraphs of Random $k$ -Edge-Coloured $k$ -Regular Graphs. Combinatorics Probability and Computing, 2009, 18, 533-549.	1.3	5
27	Random dense bipartite graphs and directed graphs with specified degrees. Random Structures and Algorithms, 2009, 35, 222-249.	1.1	13
28	Asymptotic enumeration of dense $0$ - $1$ matrices with specified line sums. Journal of Combinatorial Theory - Series A, 2008, 115, 32-66.	0.8	32
29	Asymptotic enumeration of sparse nonnegative integer matrices with specified row and column sums. Advances in Applied Mathematics, 2008, 41, 459-481.	0.7	33
30	Small latin squares, quasigroups, and loops. Journal of Combinatorial Designs, 2007, 15, 98-119.	0.6	107
31	Asymptotic enumeration of sparse $0$ - $1$ matrices with irregular row and column sums. Journal of Combinatorial Theory - Series A, 2006, 113, 291-324.	0.8	50
32	The number of transversals in a Latin square. Designs, Codes, and Cryptography, 2006, 40, 269-284.	1.6	50
33	A Linear Time Algorithm for Constructing Maximally Symmetric Straight Line Drawings of Triconnected Planar Graphs. Discrete and Computational Geometry, 2006, 36, 283-311.	0.6	4
34	On the Number of Latin Squares. Annals of Combinatorics, 2005, 9, 335-344.	0.6	117
35	Asymptotic Enumeration of Graphs with a Given Upper Bound on the Maximum Degree. Combinatorics Probability and Computing, 2002, 11, 373-392.	1.3	5
36	Posets on up to 16 Points. Order, 2002, 19, 147-179.	0.5	40

#	ARTICLE	IF	CITATIONS
37	Collective Choice and Mutual Knowledge Structures. , 2002, , 273-289.		0
38	Asymptotic enumeration of tournaments with a given score sequence containing a specified digraph. Random Structures and Algorithms, 2000, 16, 47-57.	1.1	7
39	Algorithms for Greechie Diagrams. International Journal of Theoretical Physics, 2000, 39, 2381-2406.	1.2	29
40	Cycles Through 23 Vertices in 3-Connected Cubic Planar Graphs. Graphs and Combinatorics, 1999, 15, 373-376.	0.4	14
41	Isomorph-Free Exhaustive Generation. Journal of Algorithms, 1998, 26, 306-324.	0.9	316
42	Collective Choice and Mutual Knowledge Structures. International Journal of Modeling, Simulation, and Scientific Computing, 1998, 01, 221-236.	1.4	15
43	Asymptotic Enumeration of Eulerian Circuits in the Complete Graph. Combinatorics Probability and Computing, 1998, 7, 437-449.	1.3	16
44	The degree sequence of a random graph. I. The models. Random Structures and Algorithms, 1997, 11, 97-117.	1.1	26
45	Subgraph Counting Identities and Ramsey Numbers. Journal of Combinatorial Theory Series B, 1997, 69, 193-209.	1.0	28
46	Vertex-transitive graphs that are not Cayley graphs. II. Journal of Graph Theory, 1996, 22, 321-334.	0.9	32
47	Asymptotic Enumeration of Tournaments with a Given Score Sequence. Journal of Combinatorial Theory - Series A, 1996, 73, 77-90.	0.8	12
48	The Smallest Cubic Graphs of Girth Nine. Combinatorics Probability and Computing, 1995, 4, 317-329.	1.3	27
49	$R(4, 5) = 25$ . Journal of Graph Theory, 1995, 19, 309-322.	0.9	49
50	Vertex-transitive graphs which are not Cayley graphs, I. Journal of the Australian Mathematical Society Series A Pure Mathematics and Statistics, 1994, 56, 53-63.	0.3	54
51	Multicolored trees in random graphs. Random Structures and Algorithms, 1994, 5, 45-56.	1.1	6
52	There are 526,915,620 nonisomorphic one-factorizations of $K_{12}$ . Journal of Combinatorial Designs, 1994, 2, 273-285.	0.6	39
53	On Subgraph Sizes in Random Graphs. Combinatorics Probability and Computing, 1992, 1, 123-134.	1.3	7
54	Asymptotic properties of labeled connected graphs. Random Structures and Algorithms, 1992, 3, 183-202.	1.1	16

#	ARTICLE	IF	CITATIONS
55	The asymptotic numbers of regular tournaments, Eulerian digraphs and Eulerian oriented graphs. <i>Combinatorica</i> , 1990, 10, 367-377.	1.2	38
56	The asymptotic number of labeled connected graphs with a given number of vertices and edges. <i>Random Structures and Algorithms</i> , 1990, 1, 127-169.	1.1	65
57	Asymptotic Enumeration by Degree Sequence of Graphs of High Degree. <i>European Journal of Combinatorics</i> , 1990, 11, 565-580.	0.8	83
58	On the shape of a random acyclic digraph. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1989, 106, 459-465.	0.4	6
59	Generating function methods for macromolecules at surfaces. II. One molecule between two planes. <i>Journal of Chemical Physics</i> , 1988, 88, 5171-5180.	3.0	4
60	Generating function methods for macromolecules at surfaces. I. One molecule at a plane surface. <i>Journal of Chemical Physics</i> , 1986, 85, 5299-5305.	3.0	9
61	Spanning Trees in Regular Graphs. <i>European Journal of Combinatorics</i> , 1983, 4, 149-160.	0.8	59