

# Chris Godsil

## List of Publications by Year in descending order

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91  
papers

6,405  
citations

147801

31  
h-index

64796

79  
g-index

91  
all docs

91  
docs citations

91  
times ranked

3209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Algebraic Graph Theory. Graduate Texts in Mathematics, 2001, , .	0.5	3,666
2	On the full automorphism group of a graph. Combinatorica, 1981, 1, 243-256.	1.2	220
3	On the theory of the matching polynomial. Journal of Graph Theory, 1981, 5, 137-144.	0.9	177
4	Constructing cospectral graphs. Aequationes Mathematicae, 1982, 25, 257-268.	0.8	170
5	A new graph product and its spectrum. Bulletin of the Australian Mathematical Society, 1978, 18, 21-28.	0.5	127
6	State transfer on graphs. Discrete Mathematics, 2012, 312, 129-147.	0.7	122
7	Feasibility conditions for the existence of walk-regular graphs. Linear Algebra and Its Applications, 1980, 30, 51-61.	0.9	93
8	Equiangular lines, mutually unbiased bases, and spin models. European Journal of Combinatorics, 2009, 30, 246-262.	0.8	90
9	Matchings and walks in graphs. Journal of Graph Theory, 1981, 5, 285-297.	0.9	81
10	Number-Theoretic Nature of Communication in Quantum Spin Systems. Physical Review Letters, 2012, 109, 050502.	7.8	73
11	Distance regular covers of the complete graph. Journal of Combinatorial Theory Series B, 1992, 56, 205-238.	1.0	64
12	Inverses of trees. Combinatorica, 1985, 5, 33-39.	1.2	62
13	Quantum networks on cubelike graphs. Physical Review A, 2008, 78, .	2.5	57
14	When can perfect state transfer occur?. Electronic Journal of Linear Algebra, 0, 23, .	0.6	57
15	A new proof of the Erdős-Ko��Rado theorem for intersecting families of permutations. European Journal of Combinatorics, 2009, 30, 404-414.	0.8	55
16	Perfect state transfer in cubelike graphs. Linear Algebra and Its Applications, 2011, 435, 2468-2474.	0.9	55
17	On the Automorphism Groups of almost all Cayley Graphs. European Journal of Combinatorics, 1982, 3, 9-15.	0.8	47
18	Eigenvalue bounds for independent sets. Journal of Combinatorial Theory Series B, 2008, 98, 721-734.	1.0	47

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19	Hermite polynomials and a duality relation for matchings polynomials. <i>Combinatorica</i> , 1981, 1, 257-262.	1.2	43
20	Controllable Subsets in Graphs. <i>Annals of Combinatorics</i> , 2012, 16, 733-744.	0.6	42
21	Periodic Graphs. <i>Electronic Journal of Combinatorics</i> , 2011, 18, .	0.4	42
22	Compact graphs and equitable partitions. <i>Linear Algebra and Its Applications</i> , 1997, 255, 259-266.	0.9	41
23	Spectral conditions for the reconstructibility of a graph. <i>Journal of Combinatorial Theory Series B</i> , 1981, 30, 285-289.	1.0	40
24	Asymptotic enumeration of Latin rectangles. <i>Journal of Combinatorial Theory Series B</i> , 1990, 48, 19-44.	1.0	40
25	Perfect state transfer on distance-regular graphs and association schemes. <i>Linear Algebra and Its Applications</i> , 2015, 478, 108-130.	0.9	40
26	Antipodal Distance Transitive Covers of Complete Graphs. <i>European Journal of Combinatorics</i> , 1998, 19, 455-478.	0.8	39
27	Distance-regularised graphs are distance-regular or distance-biregular. <i>Journal of Combinatorial Theory Series B</i> , 1987, 43, 14-24.	1.0	38
28	Control by quantum dynamics on graphs. <i>Physical Review A</i> , 2010, 81, .	2.5	36
29	Pretty good state transfer in qubit chains – The Heisenberg Hamiltonian. <i>Journal of Mathematical Physics</i> , 2017, 58, .	1.1	35
30	The Automorphism Groups of Some Cubic Cayley Graphs. <i>European Journal of Combinatorics</i> , 1983, 4, 25-32.	0.8	33
31	Bounding the diameter of distance-regular graphs. <i>Combinatorica</i> , 1988, 8, 333-343.	1.2	33
32	Matching behaviour is asymptotically normal. <i>Combinatorica</i> , 1981, 1, 369-376.	1.2	31
33	Symmetric squares of graphs. <i>Journal of Combinatorial Theory Series B</i> , 2007, 97, 74-90.	1.0	31
34	Chromatic Number and the 2-Rank of a Graph. <i>Journal of Combinatorial Theory Series B</i> , 2001, 81, 142-149.	1.0	30
35	Walk generating functions and spectral measures of infinite graphs. <i>Linear Algebra and Its Applications</i> , 1988, 107, 191-206.	0.9	27
36	Width and dual width of subsets in polynomial association schemes. <i>Journal of Combinatorial Theory - Series A</i> , 2003, 102, 255-271.	0.8	27

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37	Connectivity and minimal distance spectral radius of graphs. <i>Linear and Multilinear Algebra</i> , 2011, 59, 745-754.	1.0	25
38	A note on bounded automorphisms of infinite graphs. <i>Graphs and Combinatorics</i> , 1989, 5, 333-338.	0.4	22
39	Pretty good state transfer on double stars. <i>Linear Algebra and Its Applications</i> , 2013, 438, 2346-2358.	0.9	22
40	Connectivity of minimal Cayley graphs. <i>Archiv Der Mathematik</i> , 1981, 37, 473-476.	0.5	20
41	Coloring an Orthogonality Graph. <i>SIAM Journal on Discrete Mathematics</i> , 2008, 22, 683-692.	0.8	19
42	Cores of Geometric Graphs. <i>Annals of Combinatorics</i> , 2011, 15, 267-276.	0.6	19
43	Perfect state transfer in products and covers of graphs. <i>Linear and Multilinear Algebra</i> , 2016, 64, 235-246.	1.0	18
44	Independent Sets In Association Schemes. <i>Combinatorica</i> , 2006, 26, 431-443.	1.2	17
45	Polynomial spaces. <i>Discrete Mathematics</i> , 1988, 73, 71-88.	0.7	16
46	Representations of directed strongly regular graphs. <i>European Journal of Combinatorics</i> , 2007, 28, 1980-1993.	0.8	16
47	Equiangular lines and covers of the complete graph. <i>Linear Algebra and Its Applications</i> , 2016, 488, 264-283.	0.9	16
48	Discrete-time quantum walks and graph structures. <i>Journal of Combinatorial Theory - Series A</i> , 2019, 167, 181-212.	0.8	16
49	Constructing graphs with pairs of pseudo-similar vertices. <i>Journal of Combinatorial Theory Series B</i> , 1982, 32, 146-155.	1.0	15
50	Average mixing of continuous quantum walks. <i>Journal of Combinatorial Theory - Series A</i> , 2013, 120, 1649-1662.	0.8	14
51	Second neighbourhoods of strongly regular graphs. <i>Discrete Mathematics</i> , 1992, 103, 161-170.	0.7	13
52	Equiarboreal graphs. <i>Combinatorica</i> , 1981, 1, 163-167.	1.2	12
53	Eigenvalues of graphs and digraphs. <i>Linear Algebra and Its Applications</i> , 1982, 46, 43-50.	0.9	12
54	Colouring lines in projective space. <i>Journal of Combinatorial Theory - Series A</i> , 2006, 113, 39-52.	0.8	12

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55	On the number of subgroups of given index in the modular group. Monatshefte Fur Mathematik, 1979, 87, 273-280.	0.9	11
56	The inertia of distance matrices of some graphs. Discrete Mathematics, 2013, 313, 1655-1664.	0.7	11
57	Some graphs with characteristic polynomials which are not solvable by radicals. Journal of Graph Theory, 1982, 6, 211-214.	0.9	10
58	Spectra of Trees. North-Holland Mathematics Studies, 1984, 87, 151-159.	0.2	10
59	Quotients of association schemes. Journal of Combinatorial Theory - Series A, 1995, 69, 185-199.	0.8	10
60	Type-II matrices and combinatorial structures. Combinatorica, 2010, 30, 1-24.	1.2	10
61	Sabidussi versus Hedetniemi for three variations of the chromatic number. Combinatorica, 2016, 36, 395-415.	1.2	10
62	Reconstructing graphs from their k-edge deleted subgraphs. Journal of Combinatorial Theory Series B, 1987, 43, 360-363.	1.0	9
63	Multiplicity-Free Permutation Representations of the Symmetric Group. Annals of Combinatorics, 2010, 13, 463-490.	0.6	8
64	Pair state transfer. Quantum Information Processing, 2020, 19, 1.	2.2	8
65	Perfect state transfer on oriented graphs. Linear Algebra and Its Applications, 2020, 604, 278-292.	0.9	8
66	Intersection Graphs for Families of Balls in $R^n$ . European Journal of Combinatorics, 1988, 9, 501-505.	0.8	7
67	Eigenpolytopes of Distance Regular Graphs. Canadian Journal of Mathematics, 1998, 50, 739-755.	0.6	7
68	Neighbourhoods of transitive graphs and GRR's. Journal of Combinatorial Theory Series B, 1980, 29, 116-140.	1.0	6
69	Embedding graphs in Cayley graphs. Graphs and Combinatorics, 1987, 3, 39-43.	0.4	5
70	Walk Generating Functions, Christoffel-Darboux Identities and the Adjacency Matrix of a Graph. Combinatorics Probability and Computing, 1992, 1, 13-25.	1.3	5
71	Hardness of computing clique number and chromatic number for Cayley graphs. European Journal of Combinatorics, 2017, 62, 147-166.	0.8	5
72	State transfer in strongly regular graphs with an edge perturbation. Journal of Combinatorial Theory - Series A, 2020, 172, 105181.	0.8	5

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73	The chromatic connectivity of graphs. <i>Graphs and Combinatorics</i> , 1988, 4, 229-233.	0.4	4
74	Graphs with polynomial growth are covering graphs. <i>Graphs and Combinatorics</i> , 1992, 8, 233-241.	0.4	4
75	Four-weight spin models and Jones pairs. <i>Transactions of the American Mathematical Society</i> , 2003, 355, 2305-2325.	0.9	4
76	Two Characterizations of Crooked Functions. <i>IEEE Transactions on Information Theory</i> , 2008, 54, 864-866.	2.4	4
77	Tournaments with prescribed regular automorphism group. <i>Aequationes Mathematicae</i> , 1986, 30, 55-64.	0.8	3
78	Bose-Mesner algebras attached to invertible Jones pairs. <i>Journal of Combinatorial Theory - Series A</i> , 2004, 106, 165-191.	0.8	3
79	Universal Completability, Least Eigenvalue Frameworks, and Vector Colorings. <i>Discrete and Computational Geometry</i> , 2017, 58, 265-292.	0.6	3
80	Sedentary quantum walks. <i>Linear Algebra and Its Applications</i> , 2021, 614, 356-375.	0.9	3
81	Graphs with three mutually pseudo-similar vertices. <i>Journal of Combinatorial Theory Series B</i> , 1983, 35, 240-246.	1.0	2
82	Distance-regular antipodal covering graphs. <i>Journal of Combinatorial Theory Series B</i> , 1988, 45, 127-134.	1.0	2
83	A permutation group determined by an ordered set. <i>Discrete Mathematics</i> , 2003, 269, 273-279.	0.7	2
84	Graph Cores via Universal Completability. <i>Electronic Notes in Discrete Mathematics</i> , 2015, 49, 337-344.	0.4	2
85	Entropy of symmetric graphs. <i>Discrete Mathematics</i> , 2016, 339, 475-483.	0.7	2
86	Graph homomorphisms via vector colorings. <i>European Journal of Combinatorics</i> , 2019, 79, 244-261.	0.8	2
87	Vector coloring the categorical product of graphs. <i>Mathematical Programming</i> , 2020, 182, 275-314.	2.4	2
88	Graph covers with two new eigenvalues. <i>European Journal of Combinatorics</i> , 2021, 93, 103280.	0.8	2
89	Using the existence of $t$ -designs to prove Erdős-Ko-Rado. <i>Discrete Mathematics</i> , 2019, 342, 2846-2849.	0.7	1
90	On the $p$ -rank of incidence matrices and a bound of Bruen and Ott. <i>Designs, Codes, and Cryptography</i> , 1992, 2, 391-394.	1.6	0

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91	Algebras, Graphs and Thetas. <i>Electronic Notes in Theoretical Computer Science</i> , 2019, 346, 275-283.	0.9	0