Chris Godsil

List of Publications by Year
in descending order

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	Graph covers with two new eigenvalues. European Journal of Combinatorics, 2021, 93, 103280.	0.8	2
2	Sedentary quantum walks. Linear Algebra and Its Applications, 2021, 614, 356-375.	0.9	3
3	Vector coloring the categorical product of graphs. Mathematical Programming, 2020, 182, 275-314.	2.4	2
4	Pair state transfer. Quantum Information Processing, 2020, 19, 1.	2.2	8
5	State transfer in strongly regular graphs with an edge perturbation. Journal of Combinatorial Theory - Series A, 2020, 172, 105181.	0.8	5
6	Perfect state transfer on oriented graphs. Linear Algebra and Its Applications, 2020, 604, 278-292.	0.9	8
7	Algebras, Graphs and Thetas. Electronic Notes in Theoretical Computer Science, 2019, 346, 275-283.	0.9	0
8	Using the existence of t-designs to prove Erdős–Ko–Rado. Discrete Mathematics, 2019, 342, 2846-2849.	0.7	1
9	Graph homomorphisms via vector colorings. European Journal of Combinatorics, 2019, 79, 244-261.	0.8	2
10	Discrete-time quantum walks and graph structures. Journal of Combinatorial Theory - Series A, 2019, 167, 181-212.	0.8	16
11	Pretty good state transfer in qubit chains—The Heisenberg Hamiltonian. Journal of Mathematical Physics, 2017, 58, .	1.1	35
12	Hardness of computing clique number and chromatic number for Cayley graphs. European Journal of Combinatorics, 2017, 62, 147-166.	0.8	5
13	Universal Completability, Least Eigenvalue Frameworks, and Vector Colorings. Discrete and Computational Geometry, 2017, 58, 265-292.	0.6	3
14	Entropy of symmetric graphs. Discrete Mathematics, 2016, 339, 475-483.	0.7	2
15	Equiangular lines and covers of the complete graph. Linear Algebra and Its Applications, 2016, 488, 264-283.	0.9	16
16	Sabidussi versus Hedetniemi for three variations of the chromatic number. Combinatorica, 2016, 36, 395-415.	1.2	10
17	Perfect state transfer in products and covers of graphs. Linear and Multilinear Algebra, 2016, 64, 235-246.	1.0	18
18	Perfect state transfer on distance-regular graphs and association schemes. Linear Algebra and Its Applications, 2015, 478, 108-130.	0.9	40

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19	Graph Cores via Universal Completability. Electronic Notes in Discrete Mathematics, 2015, 49, 337-344.	0.4	2
20	Pretty good state transfer on double stars. Linear Algebra and Its Applications, 2013, 438, 2346-2358.	0.9	22
21	Average mixing of continuous quantum walks. Journal of Combinatorial Theory - Series A, 2013, 120, 1649-1662.	0.8	14
22	The inertia of distance matrices of some graphs. Discrete Mathematics, 2013, 313, 1655-1664.	0.7	11
23	Controllable Subsets in Graphs. Annals of Combinatorics, 2012, 16, 733-744.	0.6	42
24	Number-Theoretic Nature of Communication in Quantum Spin Systems. Physical Review Letters, 2012, 109, 050502.	7.8	73
25	State transfer on graphs. Discrete Mathematics, 2012, 312, 129-147.	0.7	122
26	Connectivity and minimal distance spectral radius of graphs. Linear and Multilinear Algebra, 2011, 59, 745-754.	1.0	25
27	Cores of Geometric Graphs. Annals of Combinatorics, 2011, 15, 267-276.	0.6	19
28	Perfect state transfer in cubelike graphs. Linear Algebra and Its Applications, 2011, 435, 2468-2474.	0.9	55
29	Periodic Graphs. Electronic Journal of Combinatorics, 2011, 18, .	0.4	42
30	Multiplicity-Free Permutation Representations of the Symmetric Group. Annals of Combinatorics, 2010, 13, 463-490.	0.6	8
31	Type-II matrices and combinatorial structures. Combinatorica, 2010, 30, 1-24.	1.2	10
32	Control by quantum dynamics on graphs. Physical Review A, 2010, 81, .	2.5	36
33	Equiangular lines, mutually unbiased bases, and spin models. European Journal of Combinatorics, 2009, 30, 246-262.	0.8	90
34	A new proof of the ErdÅ'sâ€"Koâ€"Rado theorem for intersecting families of permutations. European Journal of Combinatorics, 2009, 30, 404-414.	0.8	55
35	Eigenvalue bounds for independent sets. Journal of Combinatorial Theory Series B, 2008, 98, 721-734.	1.0	47
36	Two Characterizations of Crooked Functions. IEEE Transactions on Information Theory, 2008, 54, 864-866.	2.4	4

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37	Quantum networks on cubelike graphs. Physical Review A, 2008, 78, .	2.5	57
38	Coloring an Orthogonality Graph. SIAM Journal on Discrete Mathematics, 2008, 22, 683-692.	0.8	19
39	Representations of directed strongly regular graphs. European Journal of Combinatorics, 2007, 28, 1980-1993.	0.8	16
40	Symmetric squares of graphs. Journal of Combinatorial Theory Series B, 2007, 97, 74-90.	1.0	31
41	Independent Sets In Association Schemes. Combinatorica, 2006, 26, 431-443.	1.2	17
42	Colouring lines in projective space. Journal of Combinatorial Theory - Series A, 2006, 113, 39-52.	0.8	12
43	Boseâ€"Mesner algebras attached to invertible Jones pairs. Journal of Combinatorial Theory - Series A, 2004, 106, 165-191.	0.8	3
44	Width and dual width of subsets in polynomial association schemes. Journal of Combinatorial Theory - Series A, 2003, 102, 255-271.	0.8	27
45	A permutation group determined by an ordered set. Discrete Mathematics, 2003, 269, 273-279.	0.7	2
46	Four-weight spin models and Jones pairs. Transactions of the American Mathematical Society, 2003, 355, 2305-2325.	0.9	4
47	Algebraic Graph Theory. Graduate Texts in Mathematics, 2001, , .	0.5	3,666
48	Chromatic Number and the 2-Rank of a Graph. Journal of Combinatorial Theory Series B, 2001, 81, 142-149.	1.0	30
49	Antipodal Distance Transitive Covers of Complete Graphs. European Journal of Combinatorics, 1998, 19, 455-478.	0.8	39
50	Eigenpolytopes of Distance Regular Graphs. Canadian Journal of Mathematics, 1998, 50, 739-755.	0.6	7
51	Compact graphs and equitable partitions. Linear Algebra and Its Applications, 1997, 255, 259-266.	0.9	41
52	Quotients of association schemes. Journal of Combinatorial Theory - Series A, 1995, 69, 185-199.	0.8	10
53	Walk Generating Functions, Christoffel-Darboux Identities and the Adjacency Matrix of a Graph. Combinatorics Probability and Computing, 1992, 1, 13-25.	1.3	5
54	On the p-rank of incidence matrices and a bound of Bruen and Ott. Designs, Codes, and Cryptography, 1992, 2, 391-394.	1.6	0

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55	Distance regular covers of the complete graph. Journal of Combinatorial Theory Series B, 1992, 56, 205-238.	1.0	64
56	Graphs with polynomial growth are covering graphs. Graphs and Combinatorics, 1992, 8, 233-241.	0.4	4
57	Second neighbourhoods of strongly regular graphs. Discrete Mathematics, 1992, 103, 161-170.	0.7	13
58	Asymptotic enumeration of Latin rectangles. Journal of Combinatorial Theory Series B, 1990, 48, 19-44.	1.0	40
59	A note on bounded automorphisms of infinite graphs. Graphs and Combinatorics, 1989, 5, 333-338.	0.4	22
60	Polynomial spaces. Discrete Mathematics, 1988, 73, 71-88.	0.7	16
61	The chromatic connectivity of graphs. Graphs and Combinatorics, 1988, 4, 229-233.	0.4	4
62	Bounding the diameter of distance-regular graphs. Combinatorica, 1988, 8, 333-343.	1.2	33
63	Distance-regular antipodai covering graphs. Journal of Combinatorial Theory Series B, 1988, 45, 127-134.	1.0	2
64	Walk generating functions and spectral measures of infinite graphs. Linear Algebra and Its Applications, 1988, 107, 191-206.	0.9	27
65	Intersection Graphs for Families of Balls in Rn. European Journal of Combinatorics, 1988, 9, 501-505.	0.8	7
66	Reconstructing graphs from their k-edge deleted subgraphs. Journal of Combinatorial Theory Series B, 1987, 43, 360-363.	1.0	9
67	Embedding graphs in Cayley graphs. Graphs and Combinatorics, 1987, 3, 39-43.	0.4	5
68	Distance-regularised graphs are distance-regular or distance-biregular. Journal of Combinatorial Theory Series B, 1987, 43, 14-24.	1.0	38
69	Tournaments with prescribed regular automorphism group. Aequationes Mathematicae, 1986, 30, 55-64.	0.8	3
70	Inverses of trees. Combinatorica, 1985, 5, 33-39.	1.2	62
71	Spectra of Trees. North-Holland Mathematics Studies, 1984, 87, 151-159.	0.2	10
72	Graphs with three mutually pseudo-similar vertices. Journal of Combinatorial Theory Series B, 1983, 35, 240-246.	1.0	2

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73	The Automorphism Groups of Some Cubic Cayley Graphs. European Journal of Combinatorics, 1983, 4, 25-32.	0.8	33
74	On the Automorphism Groups of almost all Cayley Graphs. European Journal of Combinatorics, 1982, 3, 9-15.	0.8	47
75	Constructing cospectral graphs. Aequationes Mathematicae, 1982, 25, 257-268.	0.8	170
76	Eigenvalues of graphs and digraphs. Linear Algebra and Its Applications, 1982, 46, 43-50.	0.9	12
77	Some graphs with characteristic polynomials which are not solvable by radicals. Journal of Graph Theory, 1982, 6, 211-214.	0.9	10
78	Constructing graphs with pairs of pseudo-similar vertices. Journal of Combinatorial Theory Series B, 1982, 32, 146-155.	1.0	15
79	On the theory of the matching polynomial. Journal of Graph Theory, 1981, 5, 137-144.	0.9	177
80	Matchings and walks in graphs. Journal of Graph Theory, 1981, 5, 285-297.	0.9	81
81	Equiarboreal graphs. Combinatorica, 1981, 1, 163-167.	1.2	12
82	On the full automorphism group of a graph. Combinatorica, 1981, 1, 243-256.	1.2	220
83	Hermite polynomials and a duality relation for matchings polynomials. Combinatorica, 1981, 1, 257-262.	1.2	43
84	Matching behaviour is asymptotically normal. Combinatorica, 1981, 1, 369-376.	1.2	31
85	Spectral conditions for the reconstructibility of a graph. Journal of Combinatorial Theory Series B, 1981, 30, 285-289.	1.0	40
86	Connectivity of minimal Cayley graphs. Archiv Der Mathematik, 1981, 37, 473-476.	0.5	20
87	Feasibility conditions for the existence of walk-regular graphs. Linear Algebra and Its Applications, 1980, 30, 51-61.	0.9	93
88	Neighbourhoods of transitive graphs and GRR's. Journal of Combinatorial Theory Series B, 1980, 29, 116-140.	1.0	6
89	On the number of subgroups of given index in the modular group. Monatshefte Fur Mathematik, 1979, 87, 273-280.	0.9	11
90	A new graph product and its spectrum. Bulletin of the Australian Mathematical Society, 1978, 18, 21-28.	0.5	127

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91	When can perfect state transfer occur?. Electronic Journal of Linear Algebra, 0, 23, .	0.6	57