Xiao-dong Zhang

List of Publications by Year
in descending order

95 papers	1,072 citations	430442 18 h-index	500791 28 g-index
95 all docs	95 docs citations	95 times ranked	374 citing authors

#	Article	IF	Citations
1	On the Laplacian eigenvalues of a graph. Linear Algebra and Its Applications, 1998, 285, 305-307.	0.4	91
2	The Laplacian spectral radii of trees with degree sequences. Discrete Mathematics, 2008, 308, 3143-3150.	0.4	62
3	The signless Laplacian spectral radius of graphs with given degree sequences. Discrete Applied Mathematics, 2009, 157, 2928-2937.	0.5	51
4	Spectral radius of graphs with given matching number. Linear Algebra and Its Applications, 2007, 422, 133-138.	0.4	49
5	The Number of Subtrees of Trees with Given Degree Sequence. Journal of Graph Theory, 2013, 73, 280-295.	0.5	46
6	Eigenvectors and eigenvalues of non-regular graphs. Linear Algebra and Its Applications, 2005, 409, 79-86.	0.4	40
7	The Turán number of disjoint copies of paths. Discrete Mathematics, 2017, 340, 132-139.	0.4	35
8	The Laplacian spectrum of a mixed graph. Linear Algebra and Its Applications, 2002, 353, 11-20.	0.4	34
9	Two sharp upper bounds for the Laplacian eigenvalues. Linear Algebra and Its Applications, 2004, 376, 207-213.	0.4	32
10	Complete multipartite graphs are determined by their distance spectra. Linear Algebra and Its Applications, 2014, 448, 285-291.	0.4	32
11	The Laplacian eigenvalues of mixed graphs. Linear Algebra and Its Applications, 2003, 362, 109-119.	0.4	28
12	Minimizing the Laplacian spectral radius of trees with given matching number. Linear and Multilinear Algebra, 2007, 55, 199-207.	0.5	28
13	Sharp bounds for the signless Laplacian spectral radius in terms of clique number. Linear Algebra and Its Applications, 2013, 438, 3851-3861.	0.4	28
14	Ordering trees by the Laplacian coefficients. Linear Algebra and Its Applications, 2009, 431, 2414-2424.	0.4	24
15	The Minimal Number of Subtrees with a Given Degree Sequence. Graphs and Combinatorics, 2015, 31, 309-318.	0.2	22
16	The expected subtree number index in random polyphenylene and spiro chains. Discrete Applied Mathematics, 2020, 285, 483-492.	0.5	22
17	The clustering coefficient and the diameter of small-world networks. Acta Mathematica Sinica, English Series, 2013, 29, 199-208.	0.2	21
18	Consensus and synchronization problems on small-world networks. Journal of Mathematical Physics, 2010, 51, 082701.	0.5	18

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19	Maximum atom-bond connectivity index with given graph parameters. Discrete Applied Mathematics, 2016, 215, 208-217.	0.5	18
20	Spectral Extremal Results with Forbidding Linear Forests. Graphs and Combinatorics, 2019, 35, 335-351.	0.2	18
21	On the two conjectures of Graffiti. Linear Algebra and Its Applications, 2004, 385, 369-379.	0.4	16
22	The Maximum Spectral Radius of Graphs Without Friendship Subgraphs. Electronic Journal of Combinatorics, 2020, 27, .	0.2	16
23	Ordering trees with algebraic connectivity and diameter. Linear Algebra and Its Applications, 2007, 427, 301-312.	0.4	15
24	Vertex degrees and doubly stochastic graph matrices. Journal of Graph Theory, 2011, 66, 104-114.	0.5	14
25	The second Zagreb indices of graphs with given degree sequences. Discrete Applied Mathematics, 2015, 185, 230-238.	0.5	14
26	Enumeration of subtrees and BC-subtrees with maximum degree no more than k in trees. Theoretical Computer Science, 2021, 892, 258-278.	0.5	13
27	Finding overlapping communities using seed set. Physica A: Statistical Mechanics and Its Applications, 2017, 467, 96-106.	1.2	12
28	Fast Block Center Weighted Hadamard Transform. IEEE Transactions on Circuits and Systems I: Regular Papers, 2007, 54, 2741-2745.	3.5	11
29	Spectral radius of uniform hypergraphs and degree sequences. Frontiers of Mathematics in China, 2017, 12, 1279-1288.	0.4	10
30	On the number of vertices of the stochastic tensor polytope. Linear and Multilinear Algebra, 2017, 65, 2064-2075.	0.5	10
31	Extremal graphs for vertex-degree-based invariants with given degree sequences. Discrete Applied Mathematics, 2019, 255, 267-277.	0.5	9
32	On the spectral radius of graphs without a star forest. Discrete Mathematics, 2021, 344, 112269.	0.4	9
33	A note on doubly stochastic graph matrices. Linear Algebra and Its Applications, 2005, 407, 196-200.	0.4	8
34	Fast Reciprocal Jacket Transform With Many Parameters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1472-1481.	3.5	8
35	Automorphism groups of the Pancake graphs. Information Processing Letters, 2012, 112, 264-266.	0.4	8
36	The signless Laplacian coefficients and incidence energy of bicyclic graphs. Linear Algebra and Its Applications, 2013, 439, 3859-3869.	0.4	8

#	ARTICLE	IF	CITATIONS
37	Ordering connected graphs by their Kirchhoff indices. International Journal of Computer Mathematics, 2016, 93, 1741-1755.	1.0	8
38	The number of edges, spectral radius and Hamilton-connectedness of graphs. Journal of Combinatorial Optimization, 2018, 35, 1104-1127.	0.8	8
39	Extreme Wiener indices of trees with given number of vertices of maximum degree. Discrete Applied Mathematics, 2021, 304, 23-31.	0.5	8
40	A Note on degree antiregular graphs. Linear and Multilinear Algebra, 2000, 47, 307-311.	0.5	7
41	TWO SHARP UPPER BOUNDS FOR THE SIGNLESS LAPLACIAN SPECTRAL RADIUS OF GRAPHS. Discrete Mathematics, Algorithms and Applications, 2011, 03, 185-191.	0.4	7
42	Revealing how network structure affects accuracy of link prediction. European Physical Journal B, 2017, 90, 1.	0.6	7
43	On the ABC index of connected graphs with given degree sequences. Journal of Mathematical Chemistry, 2018, 56, 568-582.	0.7	7
44	Graphs with Three Distinct Î±-Eigenvalues. Acta Mathematica Vietnamica, 2018, 43, 649-659.	0.2	7
45	Complete multipartite graphs that are determined, up to switching, by their Seidel spectrum. Linear Algebra and Its Applications, 2019, 564, 58-71.	0.4	7
46	Graphs with fourth Laplacian eigenvalue less than two. European Journal of Combinatorics, 2003, 24, 617-630.	0.5	6
47	Doubly stochastic matrices of trees. Applied Mathematics Letters, 2005, 18, 339-343.	1.5	6
48	A sharp upper bound for the spectral radius of a nonnegative matrix and applications. Czechoslovak Mathematical Journal, 2016, 66, 701-715.	0.3	6
49	Coronae Graphs and Their $$alpha $$-Eigenvalues. Bulletin of the Malaysian Mathematical Sciences Society, 2020, 43, 2911-2927.	0.4	6
50	Trees with the most subtrees: an algorithmic approach. Electronic Journal of Combinatorics, 2012, 3, 207-223.	0.1	6
51	On enumerating algorithms of novel multiple leaf-distance granular regular Î±-subtrees of trees. Information and Computation, 2022, , 104942.	0.5	6
52	Bipartite graphs with small third Laplacian eigenvalue. Discrete Mathematics, 2004, 278, 241-253.	0.4	5
53	A Class ofM-matrices whose Graphs are Trees. Linear and Multilinear Algebra, 2004, 52, 335-347.	0.5	5
54	Determination of double quasi-star tree from its Laplacian spectrum. Journal of Shanghai University, 2010, 14, 163-166.	0.1	5

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55	On the spectral radius and the energy of a digraph. Linear and Multilinear Algebra, 2015, 63, 2009-2016.	0.5	5
56	The hitting time of random walk on unicyclic graphs. Linear and Multilinear Algebra, 2021, 69, 573-592.	0.5	5
57	Turán numbers for disjoint paths. Journal of Graph Theory, 2021, 98, 499-524.	0.5	5
58	Disjoint Triangles of a Cubic Line Graph. Graphs and Combinatorics, 2004, 20, 275-280.	0.2	4
59	A family of graphs that are determined by their normalized Laplacian spectra. Linear Algebra and Its Applications, 2018, 548, 66-76.	0.4	4
60	The signless Laplacian spectral radius of graphs with forbidding linear forests. Linear Algebra and Its Applications, 2020, 591, 25-43.	0.4	4
61	On the eccentric subtree number in trees. Discrete Applied Mathematics, 2021, 290, 123-132.	0.5	4
62	The Hitting Times of Random Walks on Bicyclic Graphs. Graphs and Combinatorics, 0, , 1.	0.2	4
63	Upper bound for the non-maximal eigenvalues of irreducible nonnegative matrices. Czechoslovak Mathematical Journal, 2002, 52, 537-544.	0.3	3
64	The equality cases for the inequalities of Oppenheim and Schur for positive semi-definite matrices. Czechoslovak Mathematical Journal, 2009, 59, 197-206.	0.3	3
65	Laplacian coefficient, matching polynomial and incidence energy of trees with described maximum degree. Journal of Combinatorial Optimization, 2016, 31, 1345-1372.	0.8	3
66	Multi-distance granularity structural α-subtree index of generalized Bethe trees. Applied Mathematics and Computation, 2019, 359, 107-120.	1.4	3
67	Erdős–Gallai stability theorem for linear forests. Discrete Mathematics, 2019, 342, 904-916.	0.4	3
68	Algebraic connectivity and doubly stochastic tree matrices. Linear Algebra and Its Applications, 2009, 430, 1656-1664.	0.4	2
69	Potential distribution on random electrical networks. Acta Mathematicae Applicatae Sinica, 2011, 27, 549-559.	0.4	2
70	Signless Laplacian coefficients and incidence energy of unicyclic graphs with the matching number. Linear and Multilinear Algebra, 2015, 63, 1981-2008.	0.5	2
71	Equitable partition theorem of tensors and spectrum of generalized power hypergraphs. Linear Algebra and Its Applications, 2018, 555, 21-38.	0.4	2
72	Peripheral Wiener index of trees and related questions. Discrete Applied Mathematics, 2018, 251, 135-145.	0.5	2

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73	The normality and sum of normalities of trees. Discrete Mathematics, 2020, 343, 111635.	0.4	2
74	On the signless Laplacian spectral radius of $K_{s,t}$-minor free graphs. Linear and Multilinear Algebra, 2021, 69, 1922-1934.	0.5	2
75	Each (n,m)-graph having the i-th minimal Laplacian coefficient is a threshold graph. Linear Algebra and Its Applications, 2021, 631, 398-406.	0.4	2
76	A sharp upper bound on the spectral radius of a nonnegative k-uniform tensor and its applications to (directed) hypergraphs. Journal of Inequalities and Applications, 2020, 2020, .	0.5	2
77	Fast Block Center Weighted Hadamard Transform. , 2006, , .		1
78	A note on Laplacian eigenmaps. Journal of Shanghai Jiaotong University (Science), 2009, 14, 632-634.	0.5	1
79	Faberâ€"Krahn type inequality for unicyclic graphs. Linear and Multilinear Algebra, 2012, 60, 1355-1364.	0.5	1
80	Laplacian coefficients of unicyclic graphs with the number of leaves and girth. Applicable Analysis and Discrete Mathematics, 2014, 8, 330-345.	0.3	1
81	A Variation of the ErdÅ‹sâ€"SÃ³s Conjecture in Bipartite Graphs. Graphs and Combinatorics, 2017, 33, 503-526.	0.2	1
82	The Steiner Wiener index of trees with a given segment sequence. Applied Mathematics and Computation, 2019, 344-345, 20-29.	1.4	1
83	On the ErdÅ‹s-SÃ³s Conjecture for graphs on n = k + 4 vertices. Ars Mathematica Contemporanea, 2017, 13, 49-61.	0.3	1
84	The first Dirichlet eigenvalue of bicyclic graphs. Czechoslovak Mathematical Journal, 2012, 62, 441-451.	0.3	0
85	Construction of multiple-rate quasi-cyclic LDPC codes with girth eight. , 2016, , .		0
86	Recursive construction of quasi-cyclic cycle LDPC codes based on replacement products. , 2016, , .		0
87	The number of maximal cliques and spectral radius of graphs with certain forbidden subgraphs. Discrete Mathematics, Algorithms and Applications, 2018, 10, 1850071.	0.4	0
88	On majorization of closed walk vectors of trees with given degree sequences. Applied Mathematics and Computation, 2018, 336, 326-337.	1.4	0
89	Block-Circulant Inverse Orthogonal Jacket Matrices and Its Applications to the Kronecker MIMO Channel. Circuits, Systems, and Signal Processing, 2019, 38, 1847-1875.	1.2	0
90	Enumerating extreme points of the polytopes of stochastic tensors: an optimization approach. Optimization, 2020, 69, 729-741.	1.0	0

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91	The Spectral Radii of Intersecting Uniform Hypergraphs. Communications on Applied Mathematics and Computation, 2021, 3, 243-256.	0.7	0
92	Design of Nonbinary LDPC Cycle Codes with Large Girth from Circulants and Finite Fields. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	0.8	0
93	Variations of the eccentricity and their properties in trees. Applied Mathematics and Computation, 2021, 405, 126258.	1.4	0
94	The Laplacian eigenvalues and invariants of graphs. Filomat, 2014, 28, 429-434.	0.2	0
95	On the combinatorics of derangements and related permutations. Applied Mathematics and Computation, 2022, 431, 127341.	1.4	0