

Laszlo Lovasz

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

6,167
citations

126858

33
h-index

88593

70
g-index

83
all docs

83
docs citations

83
times ranked

2289
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometric Algorithms and Combinatorial Optimization. Algorithms and Combinatorics, 1988, , .	0.6	1,689
2	Limits of dense graph sequences. Journal of Combinatorial Theory Series B, 2006, 96, 933-957.	0.6	489
3	Chip-firing Games on Graphs. European Journal of Combinatorics, 1991, 12, 283-291.	0.5	196
4	Random walks and an $O^*(n^5)$ volume algorithm for convex bodies. Random Structures and Algorithms, 1997, 11, 1-50.	0.6	178
5	Convergent sequences of dense graphs II. Multiway cuts and statistical physics. Annals of Mathematics, 2012, 176, 151-219.	2.1	176
6	Hit-and-run mixes fast. Mathematical Programming, 1999, 86, 443-461.	1.6	166
7	The geometry of logconcave functions and sampling algorithms. Random Structures and Algorithms, 2007, 30, 307-358.	0.6	157
8	Subgraphs with prescribed valencies. Journal of Combinatorial Theory, 1970, 8, 391-416.	0.4	155
9	Szemerédi's Lemma for the Analyst. Geometric and Functional Analysis, 2007, 17, 252-270.	0.6	148
10	Simulated annealing in convex bodies and an  overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.e. Journal of C	0.9	137
11	Hit-and-Run from a Corner. SIAM Journal on Computing, 2006, 35, 985-1005.	0.8	121
12	Matching structure and the matching lattice. Journal of Combinatorial Theory Series B, 1987, 43, 187-222.	0.6	115
13	Counting Graph Homomorphisms. , 2006, , 315-371.		96
14	Graph limits and parameter testing. , 2006, , .		95
15	Reflection positivity, rank connectivity, and homomorphism of graphs. Journal of the American Mathematical Society, 2006, 20, 37-51.	1.9	94
16	Moments of Two-Variable Functions and the Uniqueness of Graph Limits. Geometric and Functional Analysis, 2010, 19, 1597-1619.	0.6	84
17	The Generalized Basis Reduction Algorithm. Mathematics of Operations Research, 1992, 17, 751-764.	0.8	82
18	Chip-Firing Games on Directed Graphs. Journal of Algebraic Combinatorics, 1992, 1, 305-328.	0.4	78

#	ARTICLE	IF	CITATIONS
19	Multifractal network generator. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7640-7645.	3.3	67
20	Title is missing!. Theory of Computing, 2006, 2, 19-51.	0.3	62
21	Generalized quasirandom graphs. Journal of Combinatorial Theory Series B, 2008, 98, 146-163.	0.6	57
22	Left and right convergence of graphs with bounded degree. Random Structures and Algorithms, 2013, 42, 1-28.	0.6	53
23	Limits of locally "globally convergent graph sequences. Geometric and Functional Analysis, 2014, 24, 269-296.	0.6	50
24	A Borsuk theorem for antipodal links and a spectral characterization of linklessly embeddable graphs. Proceedings of the American Mathematical Society, 1998, 126, 1275-1285.	0.4	49
25	Structural properties of greedoids. Combinatorica, 1983, 3, 359-374.	0.6	48
26	Homotopy properties of greedoids. Advances in Applied Mathematics, 1985, 6, 447-494.	0.4	45
27	Testing properties of graphs and functions. Israel Journal of Mathematics, 2010, 178, 113-156.	0.4	45
28	Limits of randomly grown graph sequences. European Journal of Combinatorics, 2011, 32, 985-999.	0.5	40
29	The Colin de Verdière number and sphere representations of a graph. Combinatorica, 1997, 17, 483-521.	0.6	39
30	The Membership Problem in Jump Systems. Journal of Combinatorial Theory Series B, 1997, 70, 45-66.	0.6	39
31	Mixing times. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 1998, , 85-133.	0.0	39
32	The rank and size of graphs. Journal of Graph Theory, 1996, 23, 185-189.	0.5	38
33	Regularity Partitions and The Topology of Graphons. Bolyai Society Mathematical Studies, 2010, , 415-446.	0.3	38
34	Hit-and-run from a corner. , 2004, , .		37
35	Mixing times for uniformly ergodic Markov chains. Stochastic Processes and Their Applications, 1997, 71, 165-185.	0.4	36
36	Mixing of random walks and other diffusions on a graph. , 1995, , 119-154.		36

#	ARTICLE	IF	CITATIONS
37	On the null space of a Colin de Verdière matrix. <i>Annales De L'Institut Fourier</i> , 1999, 49, 1017-1026.	0.2	33
38	Very Large Graphs. <i>Current Developments in Mathematics</i> , 2008, 2008, 67-128.	0.1	32
39	Deterministic and randomized polynomial-time approximation of radii. <i>Mathematika</i> , 2001, 48, 63-105.	0.3	30
40	Disks, Balls, and Walls: Analysis of a Combinatorial Game. <i>American Mathematical Monthly</i> , 1989, 96, 481-493.	0.2	29
41	Greedoids and Linear Objective Functions. <i>SIAM Journal on Algebraic and Discrete Methods</i> , 1984, 5, 229-238.	0.8	28
42	The rank of connection matrices and the dimension of graph algebras. <i>European Journal of Combinatorics</i> , 2006, 27, 962-970.	0.5	28
43	Steinitz Representations of Polyhedra and the Colin de Verdière Number. <i>Journal of Combinatorial Theory Series B</i> , 2001, 82, 223-236.	0.6	27
44	Characterizing partition functions of the vertex model. <i>Journal of Algebra</i> , 2012, 350, 197-206.	0.4	19
45	Homomorphisms and Ramsey properties of antimatroids. <i>Discrete Applied Mathematics</i> , 1986, 15, 283-290.	0.5	17
46	The Shapes of Polyhedra. <i>Mathematics of Operations Research</i> , 1990, 15, 364-380.	0.8	17
47	Efficient stopping rules for Markov chains. , 1995, , .		17
48	Random walks and an $O^*(n^5)$ volume algorithm for convex bodies. , 1997, 11, 1.		17
49	Polymatroid greedoids. <i>Journal of Combinatorial Theory Series B</i> , 1985, 38, 41-72.	0.6	14
50	Random graphons and a weak Positivstellensatz for graphs. <i>Journal of Graph Theory</i> , 2012, 70, 214-225.	0.5	13
51	On the invariance of Colin de Verdière's graph parameter under clique sums. <i>Linear Algebra and Its Applications</i> , 1995, 226-228, 509-517.	0.4	12
52	Contractors and connectors of graph algebras. <i>Journal of Graph Theory</i> , 2009, 60, 11-30.	0.5	12
53	Measures on the square as sparse graph limits. <i>Journal of Combinatorial Theory Series B</i> , 2019, 138, 1-40.	0.6	12
54	Reversal of Markov Chains and the Forget Time. <i>Combinatorics Probability and Computing</i> , 1998, 7, 189-204.	0.8	10

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55	Polyhedral Results for Antimatroids. <i>Annals of the New York Academy of Sciences</i> , 1989, 555, 283-295.	1.8	9
56	The automorphism group of a graphon. <i>Journal of Algebra</i> , 2015, 421, 136-166.	0.4	9
57	Non-Deterministic Graph Property Testing. <i>Combinatorics Probability and Computing</i> , 2013, 22, 749-762.	0.8	8
58	Non-interval greedoids and the transposition property. <i>Discrete Mathematics</i> , 1986, 59, 297-314.	0.4	7
59	The Cocycle Lattice of Binary Matroids. <i>European Journal of Combinatorics</i> , 1993, 14, 241-250.	0.5	7
60	Facets with fixed defect of the stable set polytope. <i>Mathematical Programming</i> , 2000, 88, 33-44.	1.6	7
61	Local Versus Global Properties of Metric Spaces. <i>SIAM Journal on Computing</i> , 2012, 41, 250-271.	0.8	6
62	CONNECTION MATRICES. , 2007, , 179-190.		6
63	A Note on Selectors and Greedoids. <i>European Journal of Combinatorics</i> , 1985, 6, 59-67.	0.5	5
64	Positive graphs. <i>European Journal of Combinatorics</i> , 2016, 52, 290-301.	0.5	5
65	Switchover phenomenon induced by epidemic seeding on geometric networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	5
66	Graph parameters and semigroup functions. <i>European Journal of Combinatorics</i> , 2008, 29, 987-1002.	0.5	4
67	The rank and size of graphs. <i>Journal of Graph Theory</i> , 1996, 23, 185-189.	0.5	4
68	Discrete and Continuous: Two Sides of the Same?. , 2010, , 359-382.		3
69	Random walks and the regeneration time. <i>Journal of Graph Theory</i> , 1998, 29, 57-62.	0.5	2
70	Dual graph homomorphism functions. <i>Journal of Combinatorial Theory - Series A</i> , 2010, 117, 216-222.	0.5	2
71	Exit Frequency Matrices for Finite Markov Chains. <i>Combinatorics Probability and Computing</i> , 2010, 19, 541-560.	0.8	2
72	Multigraph limits, unbounded kernels, and Banach space decorated graphs. <i>Journal of Functional Analysis</i> , 2022, 282, 109284.	0.7	2

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73	The intersection of matroids and antimatroids. <i>Discrete Mathematics</i> , 1988, 73, 143-157.	0.4	1
74	The cocycle lattice of binary matroids, II. <i>Linear Algebra and Its Applications</i> , 1995, 226-228, 553-565.	0.4	1
75	Flows on measurable spaces. <i>Geometric and Functional Analysis</i> , 2021, 31, 402.	0.6	1
76	The rank and size of graphs. , 1996, 23, 185.		1
77	Trends in Mathematics: How They Could Change Education. <i>Notices of the International Congress of Chinese Mathematicians</i> , 2013, 1, 79-84.	0.0	1
78	Longer-term seeding effects on epidemic processes: a network approach. <i>Scientia Et Securitas</i> , 2022, 2, 409-417.	0.1	1
79	Positive graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2016, 54, 355-360.	0.4	0
80	Nullspace Embeddings for Outerplanar Graphs. , 2017, , 571-591.		0