

# Laszlo Lovasz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10885376/publications.pdf>

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	Multigraph limits, unbounded kernels, and Banach space decorated graphs. <i>Journal of Functional Analysis</i> , 2022, 282, 109284.	0.7	2
2	Longer-term seeding effects on epidemic processes: a network approach. <i>Scientia Et Securitas</i> , 2022, 2, 409-417.	0.1	1
3	Flows on measurable spaces. <i>Geometric and Functional Analysis</i> , 2021, 31, 402.	0.6	1
4	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
5	Measures on the square as sparse graph limits. <i>Journal of Combinatorial Theory Series B</i> , 2019, 138, 1-40.	0.6	12
6	Nullspace Embeddings for Outerplanar Graphs. , 2017, , 571-591.		0
7	Positive graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2016, 54, 355-360.	0.4	0
8	Positive graphs. <i>European Journal of Combinatorics</i> , 2016, 52, 290-301.	0.5	5
9	The automorphism group of a graphon. <i>Journal of Algebra</i> , 2015, 421, 136-166.	0.4	9
10	Limits of locally“globally convergent graph sequences. <i>Geometric and Functional Analysis</i> , 2014, 24, 269-296.	0.6	50
11	Left and right convergence of graphs with bounded degree. <i>Random Structures and Algorithms</i> , 2013, 42, 1-28.	0.6	53
12	Non-Deterministic Graph Property Testing. <i>Combinatorics Probability and Computing</i> , 2013, 22, 749-762.	0.8	8
13	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
14	Local Versus Global Properties of Metric Spaces. <i>SIAM Journal on Computing</i> , 2012, 41, 250-271.	0.8	6
15	Characterizing partition functions of the vertex model. <i>Journal of Algebra</i> , 2012, 350, 197-206.	0.4	19
16	Random graphons and a weak Positivstellensatz for graphs. <i>Journal of Graph Theory</i> , 2012, 70, 214-225.	0.5	13
17	Convergent sequences of dense graphs II. Multiway cuts and statistical physics. <i>Annals of Mathematics</i> , 2012, 176, 151-219.	2.1	176
18	Limits of randomly grown graph sequences. <i>European Journal of Combinatorics</i> , 2011, 32, 985-999.	0.5	40

#	ARTICLE	IF	CITATIONS
19	Discrete and Continuous: Two Sides of the Same?. , 2010, , 359-382.		3
20	Moments of Two-Variable Functions and the Uniqueness of Graph Limits. Geometric and Functional Analysis, 2010, 19, 1597-1619.	0.6	84
21	Testing properties of graphs and functions. Israel Journal of Mathematics, 2010, 178, 113-156.	0.4	45
22	Dual graph homomorphism functions. Journal of Combinatorial Theory - Series A, 2010, 117, 216-222.	0.5	2
23	Multifractal network generator. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7640-7645.	3.3	67
24	Exit Frequency Matrices for Finite Markov Chains. Combinatorics Probability and Computing, 2010, 19, 541-560.	0.8	2
25	Regularity Partitions and The Topology of Graphons. Bolyai Society Mathematical Studies, 2010, , 415-446.	0.3	38
26	Contractors and connectors of graph algebras. Journal of Graph Theory, 2009, 60, 11-30.	0.5	12
27	Generalized quasirandom graphs. Journal of Combinatorial Theory Series B, 2008, 98, 146-163.	0.6	57
28	Graph parameters and semigroup functions. European Journal of Combinatorics, 2008, 29, 987-1002.	0.5	4
29	Very Large Graphs. Current Developments in Mathematics, 2008, 2008, 67-128.	0.1	32
30	The geometry of logconcave functions and sampling algorithms. Random Structures and Algorithms, 2007, 30, 307-358.	0.6	157
31	Szemerédi's Lemma for the Analyst. Geometric and Functional Analysis, 2007, 17, 252-270.	0.6	148
32	CONNECTION MATRICES. , 2007, , 179-190.		6
33	Hit-and-Run from a Corner. SIAM Journal on Computing, 2006, 35, 985-1005.	0.8	121
34	Reflection positivity, rank connectivity, and homomorphism of graphs. Journal of the American Mathematical Society, 2006, 20, 37-51.	1.9	94
35	The rank of connection matrices and the dimension of graph algebras. European Journal of Combinatorics, 2006, 27, 962-970.	0.5	28
36	Simulated annealing in convex bodies and an $\epsilon$ -approximation algorithm. Journal of the American Mathematical Society, 2006, 19, 1015-1055.	0.9	137

#	ARTICLE	IF	CITATIONS
37	Limits of dense graph sequences. Journal of Combinatorial Theory Series B, 2006, 96, 933-957.	0.6	489
38	Graph limits and parameter testing. , 2006, , .		95
39	Counting Graph Homomorphisms. , 2006, , 315-371.		96
40	Title is missing!. Theory of Computing, 2006, 2, 19-51.	0.3	62
41	Hit-and-run from a corner. , 2004, , .		37
42	Deterministic and randomized polynomial-time approximation of radii. Mathematika, 2001, 48, 63-105.	0.3	30
43	Steinitz Representations of Polyhedra and the Colin de Verdière Number. Journal of Combinatorial Theory Series B, 2001, 82, 223-236.	0.6	27
44	Facets with fixed defect of the stable set polytope. Mathematical Programming, 2000, 88, 33-44.	1.6	7
45	Hit-and-run mixes fast. Mathematical Programming, 1999, 86, 443-461.	1.6	166
46	On the null space of a Colin de Verdière matrix. Annales De L'Institut Fourier, 1999, 49, 1017-1026.	0.2	33
47	Random walks and the regeneration time. Journal of Graph Theory, 1998, 29, 57-62.	0.5	2
48	Reversal of Markov Chains and the Forget Time. Combinatorics Probability and Computing, 1998, 7, 189-204.	0.8	10
49	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
50	Mixing times. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 1998, , 85-133.	0.0	39
51	Mixing times for uniformly ergodic Markov chains. Stochastic Processes and Their Applications, 1997, 71, 165-185.	0.4	36
52	The Colin de Verdière number and sphere representations of a graph. Combinatorica, 1997, 17, 483-521.	0.6	39
53	Random walks and an $O^*(n^5)$ volume algorithm for convex bodies. Random Structures and Algorithms, 1997, 11, 1-50.	0.6	178
54	The Membership Problem in Jump Systems. Journal of Combinatorial Theory Series B, 1997, 70, 45-66.	0.6	39

#	ARTICLE	IF	CITATIONS
55	Random walks and an $O^*(n^5)$ volume algorithm for convex bodies. , 1997, 11, 1.		17
56	The rank and size of graphs. Journal of Graph Theory, 1996, 23, 185-189.	0.5	38
57	The rank and size of graphs. , 1996, 23, 185.		1
58	The rank and size of graphs. Journal of Graph Theory, 1996, 23, 185-189.	0.5	4
59	On the invariance of Colin de Verdière's graph parameter under clique sums. Linear Algebra and Its Applications, 1995, 226-228, 509-517.	0.4	12
60	The cocycle lattice of binary matroids, II. Linear Algebra and Its Applications, 1995, 226-228, 553-565.	0.4	1
61	Efficient stopping rules for Markov chains. , 1995, , .		17
62	Mixing of random walks and other diffusions on a graph. , 1995, , 119-154.		36
63	The Cocycle Lattice of Binary Matroids. European Journal of Combinatorics, 1993, 14, 241-250.	0.5	7
64	The Generalized Basis Reduction Algorithm. Mathematics of Operations Research, 1992, 17, 751-764.	0.8	82
65	Chip-Firing Games on Directed Graphs. Journal of Algebraic Combinatorics, 1992, 1, 305-328.	0.4	78
66	Chip-firing Games on Graphs. European Journal of Combinatorics, 1991, 12, 283-291.	0.5	196
67	The Shapes of Polyhedra. Mathematics of Operations Research, 1990, 15, 364-380.	0.8	17
68	Disks, Balls, and Walls: Analysis of a Combinatorial Game. American Mathematical Monthly, 1989, 96, 481-493.	0.2	29
69	Polyhedral Results for Antimatroids. Annals of the New York Academy of Sciences, 1989, 555, 283-295.	1.8	9
70	The intersection of matroids and antimatroids. Discrete Mathematics, 1988, 73, 143-157.	0.4	1
71	Geometric Algorithms and Combinatorial Optimization. Algorithms and Combinatorics, 1988, , .	0.6	1,689
72	Matching structure and the matching lattice. Journal of Combinatorial Theory Series B, 1987, 43, 187-222.	0.6	115

#	ARTICLE	IF	CITATIONS
73	Non-interval greedoids and the transposition property. <i>Discrete Mathematics</i> , 1986, 59, 297-314.	0.4	7
74	Homomorphisms and Ramsey properties of antimatroids. <i>Discrete Applied Mathematics</i> , 1986, 15, 283-290.	0.5	17
75	Homotopy properties of greedoids. <i>Advances in Applied Mathematics</i> , 1985, 6, 447-494.	0.4	45
76	Polymatroid greedoids. <i>Journal of Combinatorial Theory Series B</i> , 1985, 38, 41-72.	0.6	14
77	A Note on Selectors and Greedoids. <i>European Journal of Combinatorics</i> , 1985, 6, 59-67.	0.5	5
78	Greedoids and Linear Objective Functions. <i>SIAM Journal on Algebraic and Discrete Methods</i> , 1984, 5, 229-238.	0.8	28
79	Structural properties of greedoids. <i>Combinatorica</i> , 1983, 3, 359-374.	0.6	48
80	Subgraphs with prescribed valencies. <i>Journal of Combinatorial Theory</i> , 1970, 8, 391-416.	0.4	155