

# Leslie Hogben

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7981954/publications.pdf>

Version: 2024-02-01

51  
papers

1,111  
citations

623734

14  
h-index

477307

29  
g-index

53  
all docs

53  
docs citations

53  
times ranked

355  
citing authors

#	ARTICLE	IF	CITATIONS
1	The minimum rank of symmetric matrices described by a graph: A survey. <i>Linear Algebra and Its Applications</i> , 2007, 426, 558-582.	0.9	154
2	Zero forcing parameters and minimum rank problems. <i>Linear Algebra and Its Applications</i> , 2010, 433, 401-411.	0.9	117
3	Parameters Related to Treeâ€™s Width, Zero Forcing, and Maximum Nullity of a Graph. <i>Journal of Graph Theory</i> , 2013, 72, 146-177.	0.9	76
4	Computation of minimal rank and path cover number for certain graphs. <i>Linear Algebra and Its Applications</i> , 2004, 392, 289-303.	0.9	67
5	Vertex and edge spread of zero forcing number, maximum nullity, and minimum rank of a graph. <i>Linear Algebra and Its Applications</i> , 2012, 436, 4352-4372.	0.9	66
6	Propagation time for zero forcing on a graph. <i>Discrete Applied Mathematics</i> , 2012, 160, 1994-2005.	0.9	58
7	Minimum rank problems. <i>Linear Algebra and Its Applications</i> , 2010, 432, 1961-1974.	0.9	51
8	Zero Forcing, Linear and Quantum Controllability for Systems Evolving on Networks. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 2349-2354.	5.7	41
9	An upper bound for the minimum rank of a graph. <i>Linear Algebra and Its Applications</i> , 2008, 429, 1629-1638.	0.9	39
10	On the minimum rank of not necessarily symmetric matrices: A preliminary study. <i>Electronic Journal of Linear Algebra</i> , 0, 18, .	0.6	34
11	A variant on the graph parameters of Colin de Verdiere: Implications to the minimum rank of graphs. <i>Electronic Journal of Linear Algebra</i> , 0, 13, .	0.6	29
12	Positive semidefinite zero forcing. <i>Linear Algebra and Its Applications</i> , 2013, 439, 1862-1874.	0.9	28
13	Logic circuits from zero forcing. <i>Natural Computing</i> , 2015, 14, 485-490.	3.0	27
14	Forbidden minors for the class of graphs $G$ with  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://w. <i>Linear Algebra and Its Applications</i> , 2008, 428, 2560-2568.	0.9	26
15	Orthogonal representations, minimum rank, and graph complements. <i>Linear Algebra and Its Applications</i> , 2008, 428, 2560-2568.	0.9	19
16	On the distance spectra of graphs. <i>Linear Algebra and Its Applications</i> , 2016, 497, 66-87.	0.9	18
17	Minimum rank and maximum eigenvalue multiplicity of symmetric tree sign patterns. <i>Linear Algebra and Its Applications</i> , 2006, 418, 394-415.	0.9	17
18	On the graph complement conjecture for minimum rank. <i>Linear Algebra and Its Applications</i> , 2012, 436, 4373-4391.	0.9	17

#	ARTICLE	IF	CITATIONS
19	Techniques for determining the minimum rank of a small graph. <i>Linear Algebra and Its Applications</i> , 2010, 432, 2995-3001.	0.9	16
20	Expected values of parameters associated with the minimum rank of a graph. <i>Linear Algebra and Its Applications</i> , 2010, 433, 101-117.	0.9	15
21	The inverse eigenvalue problem of a graph: Multiplicities and minors. <i>Journal of Combinatorial Theory Series B</i> , 2020, 142, 276-306.	1.0	14
22	Restricted power domination and zero forcing problems. <i>Journal of Combinatorial Optimization</i> , 2019, 37, 935-956.	1.3	13
23	The principal rank characteristic sequence over various fields. <i>Linear Algebra and Its Applications</i> , 2014, 459, 222-236.	0.9	12
24	Note on von Neumann and Rényi entropies of a graph. <i>Linear Algebra and Its Applications</i> , 2017, 521, 240-253.	0.9	11
25	On Crossing Numbers of Complete Tripartite and Balanced Complete Multipartite Graphs. <i>Journal of Graph Theory</i> , 2017, 84, 552-565.	0.9	10
26	Note on power propagation time and lower bounds for the power domination number. <i>Journal of Combinatorial Optimization</i> , 2017, 34, 736-741.	1.3	10
27	The relationship between $k$ -forcing and $k$ -power domination. <i>Discrete Mathematics</i> , 2018, 341, 1789-1797.	0.7	10
28	Generalizations of the Strong Arnold Property and the Minimum Number of Distinct Eigenvalues of a Graph. <i>Electronic Journal of Combinatorics</i> , 2017, 24, .	0.4	10
29	The enhanced principal rank characteristic sequence. <i>Linear Algebra and Its Applications</i> , 2016, 498, 181-200.	0.9	9
30	Throttling positive semidefinite zero forcing propagation time on graphs. <i>Discrete Applied Mathematics</i> , 2019, 254, 33-46.	0.9	9
31	Minimum rank with zero diagonal. <i>Electronic Journal of Linear Algebra</i> , 0, 27, .	0.6	9
32	Spectra of Variants of Distance Matrices of Graphs and Digraphs: A Survey. <i>La Matematica</i> , 2022, 1, 186-224.	0.7	9
33	Zero forcing propagation time on oriented graphs. <i>Discrete Applied Mathematics</i> , 2017, 224, 45-59.	0.9	8
34	Minimum rank, maximum nullity, and zero forcing number of simple digraphs. <i>Electronic Journal of Linear Algebra</i> , 0, 26, .	0.6	8
35	Graphs that are cospectral for the distance Laplacian. <i>Electronic Journal of Linear Algebra</i> , 2020, 36, 334-351.	0.6	7
36	Fractional zero forcing via three-color forcing games. <i>Discrete Applied Mathematics</i> , 2016, 213, 114-129.	0.9	6

#	ARTICLE	IF	CITATIONS
37	Throttling for the game of Cops and Robbers on graphs. <i>Discrete Mathematics</i> , 2018, 341, 2418-2430.	0.7	6
38	Nordhaus's Gaddum problems for power domination. <i>Discrete Applied Mathematics</i> , 2018, 251, 103-113.	0.9	5
39	Radicals and semi-prime ideals of Jordan triple systems. <i>Communications in Algebra</i> , 1979, 7, 1313-1328.	0.6	4
40	Minimum rank, maximum nullity and zero forcing number for selected graph families. <i>Involve</i> , 2010, 3, 371-392.	0.2	4
41	Path cover number, maximum nullity, and zero forcing number of oriented graphs and other simple digraphs. <i>Involve</i> , 2015, 8, 147-167.	0.2	4
42	Families of graphs with maximum nullity equal to zero forcing number. <i>Special Matrices</i> , 2018, 6, 56-67.	0.5	3
43	Using Markov Chains to Determine Expected Propagation Time for Probabilistic Zero Forcing. <i>Electronic Journal of Linear Algebra</i> , 2020, 36, 318-333.	0.6	3
44	Radicals and homotopes of Jordan algebras. <i>Communications in Algebra</i> , 1981, 9, 179-194.	0.6	2
45	Maximum generic nullity of a graph. <i>Linear Algebra and Its Applications</i> , 2010, 432, 857-866.	0.9	2
46	The sepr-sets of sign patterns. <i>Linear and Multilinear Algebra</i> , 2020, 68, 2044-2068.	1.0	2
47	Zero forcing and maximum nullity for hypergraphs. <i>Discrete Applied Mathematics</i> , 2020, 282, 122-135.	0.9	2
48	Proof of a Conjecture of Graham and Lovasz concerning Unimodality of Coefficients of the Distance Characteristic Polynomial of a Tree. <i>Electronic Journal of Linear Algebra</i> , 0, 34, 373-380.	0.6	2
49	Spectra of products of digraphs. <i>Electronic Journal of Linear Algebra</i> , 2020, 36, 744-763.	0.6	1
50	Optimizing the trade-off between number of cops and capture time in Cops and Robbers. <i>Electronic Journal of Combinatorics</i> , 2022, 13, 79-203.	0.1	1
51	Upper bounds for positive semidefinite propagation time. <i>Discrete Mathematics</i> , 2022, 345, 112967.	0.7	0