

Thomas Zaslavsky

List of Publications by Year in descending order

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89
papers

2,400
citations

304368

22
h-index

214527

47
g-index

90
all docs

90
docs citations

90
times ranked

712
citing authors

#	ARTICLE	IF	CITATIONS
1	Signed graphs. <i>Discrete Applied Mathematics</i> , 1982, 4, 47-74.	0.5	431
2	Facing up to arrangements: face-count formulas for partitions of space by hyperplanes. <i>Memoirs of the American Mathematical Society</i> , 1975, 1, 0-0.	0.5	239
3	Averaging sets: A generalization of mean values and spherical designs. <i>Advances in Mathematics</i> , 1984, 52, 213-240.	0.5	174
4	On the interpretation of Whitney numbers through arrangements of hyperplanes, zonotopes, non-Radon partitions, and orientations of graphs. <i>Transactions of the American Mathematical Society</i> , 1983, 280, 97-126.	0.5	144
5	Biased graphs. I. Bias, balance, and gains. <i>Journal of Combinatorial Theory Series B</i> , 1989, 47, 32-52.	0.6	143
6	Signed graph coloring. <i>Discrete Mathematics</i> , 1982, 39, 215-228.	0.4	114
7	Biased graphs. II. The three matroids. <i>Journal of Combinatorial Theory Series B</i> , 1991, 51, 46-72.	0.6	90
8	Orientation of Signed Graphs. <i>European Journal of Combinatorics</i> , 1991, 12, 361-375.	0.5	73
9	Characterizations of signed graphs. <i>Journal of Graph Theory</i> , 1981, 5, 401-406.	0.5	65
10	On products and line graphs of signed graphs, their eigenvalues and energy. <i>Linear Algebra and Its Applications</i> , 2011, 435, 2432-2450.	0.4	63
11	Signed graphs. <i>Discrete Applied Mathematics</i> , 1983, 5, 248.	0.5	55
12	The Geometry of Root Systems and Signed Graphs. <i>American Mathematical Monthly</i> , 1981, 88, 88-105.	0.2	51
13	A combinatorial analysis of topological dissections. <i>Advances in Mathematics</i> , 1977, 25, 267-285.	0.5	44
14	Inside-out polytopes. <i>Advances in Mathematics</i> , 2006, 205, 134-162.	0.5	42
15	Asymptotic Expansions of Ratios of Coefficients of Orthogonal Polynomials with Exponential Weights. <i>Transactions of the American Mathematical Society</i> , 1985, 287, 495.	0.5	38
16	The number of cladistic characters. <i>Mathematical Biosciences</i> , 1981, 54, 3-10.	0.9	35
17	Chromatic invariants of signed graphs. <i>Discrete Mathematics</i> , 1982, 42, 287-312.	0.4	31
18	Strong Tutte functions of matroids and graphs. <i>Transactions of the American Mathematical Society</i> , 1992, 334, 317-347.	0.5	31

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19	Biased graphs IV: Geometrical realizations. <i>Journal of Combinatorial Theory Series B</i> , 2003, 89, 231-297.	0.6	31
20	The Geometry of Root Systems and Signed Graphs. <i>American Mathematical Monthly</i> , 1981, 88, 88.	0.2	26
21	The number of nowhere-zero flows on graphs and signed graphs. <i>Journal of Combinatorial Theory Series B</i> , 2006, 96, 901-918.	0.6	24
22	Frame Matroids and Biased Graphs. <i>European Journal of Combinatorics</i> , 1994, 15, 303-307.	0.5	23
23	An Enumerative Geometry for Magic and Magilatin Labellings. <i>Annals of Combinatorics</i> , 2006, 10, 395-413.	0.3	20
24	Biased Graphs .III. Chromatic and Dichromatic Invariants. <i>Journal of Combinatorial Theory Series B</i> , 1995, 64, 17-88.	0.6	19
25	Signed analogs of bipartite graphs. <i>Discrete Mathematics</i> , 1998, 179, 205-216.	0.4	19
26	Homomorphisms of signed graphs: An update. <i>European Journal of Combinatorics</i> , 2021, 91, 103222.	0.5	19
27	Biased graphs whose matroids are special binary matroids. <i>Graphs and Combinatorics</i> , 1990, 6, 77-93.	0.2	16
28	The covering radius of the cycle code of a graph. <i>Discrete Applied Mathematics</i> , 1993, 45, 63-70.	0.5	16
29	BICIRCULAR GEOMETRY AND THE LATTICE OF FORESTS OF A GRAPH. <i>Quarterly Journal of Mathematics</i> , 1982, 33, 493-511.	0.3	15
30	Asymptotic expansions of ratios of coefficients of orthogonal polynomials with exponential weights. <i>Transactions of the American Mathematical Society</i> , 1985, 287, 495-495.	0.5	15
31	A Coding Approach to Signed Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 1994, 7, 544-553.	0.4	15
32	Counting the faces of cut-up spaces. <i>Bulletin of the American Mathematical Society</i> , 1975, 81, 916-918.	3.0	14
33	How colorful the signed graph?. <i>Discrete Mathematics</i> , 1984, 52, 279-284.	0.4	14
34	Vertices of localized imbalance in a biased graph. <i>Proceedings of the American Mathematical Society</i> , 1987, 101, 199-204.	0.4	14
35	Balanced decompositions of a signed graph. <i>Journal of Combinatorial Theory Series B</i> , 1987, 43, 1-13.	0.6	14
36	Orientation embedding of signed graphs. <i>Journal of Graph Theory</i> , 1992, 16, 399-422.	0.5	13

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37	The slimmest arrangements of hyperplanes: II. Basepointed geometric lattices and Euclidean arrangements. <i>Mathematika</i> , 1981, 28, 169-190.	0.3	11
38	Supersolvable Frame-matroid and Graphic-lift Lattices. <i>European Journal of Combinatorics</i> , 2001, 22, 119-133.	0.5	11
39	Perpendicular Dissections of Space. <i>Discrete and Computational Geometry</i> , 2002, 27, 303-351.	0.4	11
40	Complementary Matching Vectors and the Uniform Matching Extension Property. <i>European Journal of Combinatorics</i> , 1981, 2, 91-103.	0.5	10
41	The projective-planar signed graphs. <i>Discrete Mathematics</i> , 1993, 113, 223-247.	0.4	10
42	Maximal dissections of a simplex. <i>Journal of Combinatorial Theory - Series A</i> , 1976, 20, 244-257.	0.5	9
43	A simple algorithm that proves half-integrality of bidirected network programming. <i>Networks</i> , 2006, 48, 36-38.	1.6	8
44	Consistency in the Naturally Vertex-Signed Line Graph of a Signed Graph. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2016, 39, 307-314.	0.4	8
45	Signed distance in signed graphs. <i>Linear Algebra and Its Applications</i> , 2021, 608, 236-247.	0.4	8
46	The biased graphs whose matroids are binary. <i>Journal of Combinatorial Theory Series B</i> , 1987, 42, 337-347.	0.6	7
47	Maximality of the cycle code of a graph. <i>Discrete Mathematics</i> , 1994, 128, 401-405.	0.4	7
48	Criteria for Balance in Abelian Gain Graphs, with Applications to Piecewise-Linear Geometry. <i>Discrete and Computational Geometry</i> , 2005, 34, 251-268.	0.4	7
49	Lattice point counts for the Shi arrangement and other affinographic hyperplane arrangements. <i>Journal of Combinatorial Theory - Series A</i> , 2007, 114, 97-109.	0.5	7
50	A q -Queens Problem. II. The square board. <i>Journal of Algebraic Combinatorics</i> , 2015, 41, 619-642.	0.4	6
51	Negative (and positive) circles in signed graphs: A problem collection. <i>AKCE International Journal of Graphs and Combinatorics</i> , 2018, 15, 31-48.	0.4	6
52	The slimmest arrangements of hyperplanes. <i>Geometriae Dedicata</i> , 1983, 14, 243.	0.1	5
53	The Order Upper Bound on Parity Embedding of a Graph. <i>Journal of Combinatorial Theory Series B</i> , 1996, 68, 149-160.	0.6	5
54	A Shorter, Simpler, Stronger Proof of the Meshalkin-Hochberg-Hirsch Bounds on Componentwise Antichains. <i>Journal of Combinatorial Theory - Series A</i> , 2002, 100, 196-199.	0.5	5

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55	Associativity in multiary quasigroups: the way of biased expansions. <i>Aequationes Mathematicae</i> , 2012, 83, 1-66.	0.4	5
56	Lattice points in orthotopes and a huge polynomial Tutte invariant of weighted gain graphs. <i>Journal of Combinatorial Theory Series B</i> , 2016, 118, 186-227.	0.6	5
57	The Largest Parity Demigenus of a Simple Graph. <i>Journal of Combinatorial Theory Series B</i> , 1997, 70, 325-345.	0.6	4
58	Biased graphs. VII. Contrabalance and antivoltages. <i>Journal of Combinatorial Theory Series B</i> , 2007, 97, 1019-1040.	0.6	4
59	Totally frustrated states in the chromatic theory of gain graphs. <i>European Journal of Combinatorics</i> , 2009, 30, 133-156.	0.5	4
60	Resolution of indecomposable integral flows on signed graphs. <i>Discrete Mathematics</i> , 2017, 340, 1271-1286.	0.4	4
61	Mock threshold graphs. <i>Discrete Mathematics</i> , 2018, 341, 2159-2178.	0.4	4
62	EXTREMAL ARRANGEMENTS OF HYPERPLANES. <i>Annals of the New York Academy of Sciences</i> , 1985, 440, 69-87.	1.8	3
63	On the division of space by topological hyperplanes. <i>European Journal of Combinatorics</i> , 2009, 30, 1835-1845.	0.5	3
64	Six signed Petersen graphs, and their automorphisms. <i>Discrete Mathematics</i> , 2012, 312, 1558-1583.	0.4	3
65	A Unifying Generalization of Sperner's Theorem. <i>Bolyai Society Mathematical Studies</i> , 2006, , 9-24.	0.3	3
66	A q -Queens Problem. I. General Theory. <i>Electronic Journal of Combinatorics</i> , 2014, 21, .	0.2	3
67	The Signed Chromatic Number of the Projective Plane and Klein Bottle and Antipodal Graph Coloring. <i>Journal of Combinatorial Theory Series B</i> , 1995, 63, 136-145.	0.6	2
68	The largest demigenus of a bipartite signed graph. <i>Discrete Mathematics</i> , 2001, 232, 189-193.	0.4	2
69	A Meshalkin theorem for projective geometries. <i>Journal of Combinatorial Theory - Series A</i> , 2003, 102, 433-441.	0.5	2
70	Cycle and circle tests of balance in gain graphs: Forbidden minors and their groups. <i>Journal of Graph Theory</i> , 2006, 51, 1-21.	0.5	2
71	Forbidden Induced Subgraphs. <i>Electronic Notes in Discrete Mathematics</i> , 2017, 63, 3-10.	0.4	2
72	Transitive closure and transitive reduction in bidirected graphs. , 2019, 69, 295-315.		2

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73	The characteristic polynomial of a graph containing loops. <i>Discrete Applied Mathematics</i> , 2021, 300, 97-106.	0.5	2
74	A q-queens problem. VI. The bishops' period. <i>Ars Mathematica Contemporanea</i> , 2019, 16, 549-561.	0.3	2
75	Characterization of line-consistent signed graphs. <i>Discussiones Mathematicae - Graph Theory</i> , 2015, 35, 589.	0.2	2
76	Correction to "Complementary Matching Vectors and the Uniform Matching Extension Property". <i>European Journal of Combinatorics</i> , 1981, 2, 305.	0.5	1
77	Avoiding the Identity: 10606. <i>American Mathematical Monthly</i> , 1999, 106, 590.	0.2	1
78	Title is missing!. <i>Geometriae Dedicata</i> , 2003, 98, 63-80.	0.1	1
79	Negative Circles in Signed Graphs: A Problem Collection. <i>Electronic Notes in Discrete Mathematics</i> , 2017, 63, 41-47.	0.4	1
80	A $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1280" altimg="si703.svg"} \rangle \langle \text{mml:mi} \rangle q \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Queens Problem IV. Attacking configurations and their denominators. <i>Discrete Mathematics</i> , 2020, 343, 111649.	0.4	1
81	Two Hamiltonian cycles. <i>Discrete Mathematics</i> , 2022, 345, 112797.	0.4	1
82	Uniform Distribution of a Subgraph in a Graph. <i>North-Holland Mathematics Studies</i> , 1983, 75, 657-664.	0.2	0
83	Quasigroup associativity and biased expansion graphs. <i>Electronic Research Announcements in Mathematical Sciences</i> , 2006, 12, 13-18.	0.7	0
84	Nonattacking Queens in a Rectangular Strip. <i>Annals of Combinatorics</i> , 2010, 14, 419-441.	0.3	0
85	Determinants in the Kronecker product of matrices: the incidence matrix of a complete graph. <i>Linear and Multilinear Algebra</i> , 2011, 59, 399-411.	0.5	0
86	Biased graphs. VI. synthetic geometry. <i>European Journal of Combinatorics</i> , 2019, 81, 119-141.	0.5	0
87	The Tutte decomposition. , 1986, , 267-331.		0
88	The dynamic of the forest graph operator. <i>Discussiones Mathematicae - Graph Theory</i> , 2016, 36, 899.	0.2	0
89	Matroids determine the embeddability of graphs in surfaces. <i>Proceedings of the American Mathematical Society</i> , 1989, 106, 1131-1131.	0.4	0