Gil Kalai

List of Publications by Year
in descending order

57 papers	1,958 citations	304743 22 h-index	254184 43 g-index
58 all docs	58 docs citations	58 times ranked	603 citing authors

#	Article	IF	Citations
1	Every monotone graph property has a sharp threshold. Proceedings of the American Mathematical Society, 1996, 124, 2993-3002.	0.8	253
2	Rigidity and the lower bound theorem 1. Inventiones Mathematicae, 1987, 88, 125-151.	2.5	130
3	Noise sensitivity of Boolean functions and applications to percolation. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 1999, 90, 5-43.	4.3	129
4	Intersection patterns of convex sets. Israel Journal of Mathematics, 1984, 48, 161-174.	0.8	122
5	A quasi-polynomial bound for the diameter\of graphs of polyhedra. Bulletin of the American Mathematical Society, 1992, 26, 315-317.	1.5	122
6	The influence of variables in product spaces. Israel Journal of Mathematics, 1992, 77, 55-64.	0.8	106
7	Rationalizing Choice Functions By Multiple Rationales. Econometrica, 2002, 70, 2481-2488.	4.2	101
8	Enumeration ofQ-acyclic simplicial complexes. Israel Journal of Mathematics, 1983, 45, 337-351.	0.8	88
9	Transversal numbers for hypergraphs arising in geometry. Advances in Applied Mathematics, 2002, 29, 79-101.	0.7	88
10	An extended Euler-PoincarÃ© theorem. Acta Mathematica, 1988, 161, 279-303.	3.9	64
11	A simple way to tell a simple polytope from its graph. Journal of Combinatorial Theory - Series A, 1988, 49, 381-383.	0.8	61
12	A topological colorful Helly theorem. Advances in Mathematics, 2005, 191, 305-311.	1.1	54
13	Many triangulated spheres. Discrete and Computational Geometry, 1988, 3, 1-14.	0.6	53
14	Characterization off-vectors of families of convex sets inR d Part I: Necessity of Eckhoffâ€™s conditions. Israel Journal of Mathematics, 1984, 48, 175-195.	0.8	48
15	Influences of Variables and Threshold Intervals under Group Symmetries. Geometric and Functional Analysis, 1997, 7, 438-461.	1.8	48
16	Intersections of Leray complexes and regularity of monomial ideals. Journal of Combinatorial Theory - Series A, 2006, 113, 1586-1592.	0.8	45
17	A new basis of polytopes. Journal of Combinatorial Theory - Series A, 1988, 49, 191-209.	0.8	42
18	Thresholds and Expectation Thresholds. Combinatorics Probability and Computing, 2007, 16, 495.	1.3	40

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19	Hyperconnectivity of graphs. Graphs and Combinatorics, 1985, 1, 65-79.	0.4	38
20	Linear programming, the simplex algorithm and simple polytopes. Mathematical Programming, 1997, 79, 217-233.	2.4	32
21	Upper bounds for the diameter and height of graphs of convex polyhedra. Discrete and Computational Geometry, 1992, 8, 363-372.	0.6	24
22	Characterization of f-vectors of families of convex sets in Rd part II: Sufficiency of Eckhoff's conditions. Journal of Combinatorial Theory - Series A, 1986, 41, 167-188.	0.8	22
23	The number of faces of centrally-symmetric polytopes. Graphs and Combinatorics, 1989, 5, 389-391.	0.4	22
24	Solving the Bible Code Puzzle. Statistical Science, 1999, 14, 150.	2.8	21
25	Social Indeterminacy. Econometrica, 2004, 72, 1565-1581.	4.2	21
26	On f-Vectors and Homology. Annals of the New York Academy of Sciences, 1989, 555, 63-80.	3.8	20
27	Learnability and rationality of choice. Journal of Economic Theory, 2003, 113, 104-117.	1.1	19
28	Leray numbers of projections and a topological Helly-type theorem. Journal of Topology, 2008, 1, 551-556.	0.5	19
29	A Quantitative Version of the Gibbardâ€“Satterthwaite Theorem for Three Alternatives. SIAM Journal on Computing, 2011, 40, 934-952.	1.0	19
30	Guarding galleries where every point sees a large area. Israel Journal of Mathematics, 1997, 101, 125-139.	0.8	17
31	Symmetric matroids. Journal of Combinatorial Theory Series B, 1990, 50, 54-64.	1.0	10
32	The Quantum Computer Puzzle. Notices of the American Mathematical Society, 2016, 63, 508-516.	0.2	8
33	The Argument Against Quantum Computers. Jerusalem Studies in Philosophy and History of Science, 2020, , 399-422.	0.8	8
34	A problem of FÃ¼redi and Seymour on covering intersecting families by pairs. Journal of Combinatorial Theory - Series A, 1994, 68, 317-339.	0.8	7
35	A new approach to TurÃ¡n's conjecture. Graphs and Combinatorics, 1985, 1, 107-109.	0.4	6
36	A law of large numbers for weighted majority. Advances in Applied Mathematics, 2006, 37, 112-123.	0.7	6

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37	Bidding games and efficient allocations. Games and Economic Behavior, 2018, 112, 166-193.	0.8	6
38	Neighborly Embedded Manifolds. Discrete and Computational Geometry, 2008, 40, 319-324.	0.6	5
39	Bipartite minors. Journal of Combinatorial Theory Series B, 2016, 116, 219-228.	1.0	5
40	Helly-type problems. Bulletin of the American Mathematical Society, 2022, 59, 471-502.	1.5	5
41	On the correlation of increasing families. Journal of Combinatorial Theory - Series A, 2016, 144, 250-276.	0.8	3
42	ChvÃ¡tal's conjecture and correlation inequalities. Journal of Combinatorial Theory - Series A, 2018, 156, 22-43.	0.8	3
43	On symmetric intersecting families. European Journal of Combinatorics, 2020, 86, 103094.	0.8	3
44	Statistical Aspects of the Quantum Supremacy Demonstration. Statistical Science, 2022, 37, .	2.8	3
45	Contagious error sources would need time travel to prevent quantum computation. Physical Review A, 2015, 92, .	2.5	2
46	Quasi-random multilinear polynomials. Israel Journal of Mathematics, 2019, 230, 195-211.	0.8	2
47	Geometric and Algebraic Combinatorics. Oberwolfach Reports, 2015, 12, 285-368.	0.0	2
48	Three Theorems, with Computer-Aided Proofs, on Three-Dimensional Faces and Quotients of Polytopes. Discrete and Computational Geometry, 2000, 24, 413-420.	0.6	1
49	Sharp Thresholds for Monotone Non-Boolean Functions and Social Choice Theory. Mathematics of Operations Research, 2015, 40, 915-925.	1.3	1
50	Guest Editors' Foreword. Discrete and Computational Geometry, 2000, 24, 149-150.	0.6	0
51	Topological and Geometric Combinatorics. Oberwolfach Reports, 2011, , 349-423.	0.0	0
52	Around two theorems and a lemma by Lucio Russo. Mathematics and Mechanics of Complex Systems, 2018, 6, 69-75.	0.9	0
53	Intersection Patterns of Planar Sets. Discrete and Computational Geometry, 2020, 64, 304-323.	0.6	0
54	Guest Editorsâ€™ Foreword. Discrete and Computational Geometry, 2020, 64, 229-232.	0.6	0

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55	RELATIVE LERAY NUMBERS VIA SPECTRAL SEQUENCES. Mathematika, 2021, 67, 730-737.	0.5	0
56	A Multiperversity Generalization of Intersection Homology. Pure and Applied Mathematics Quarterly, 2007, 3, 205-224.	0.4	0
57	TurÃ¡n, involution and shifting. Algebraic Combinatorics, 2019, 2, 367-378.	0.3	0