Asaf Shapira

List of Publications by Year
in descending order

58 papers	977 citations	516710 16 h-index
59 all docs	59 docs citations	59 times ranked

501196 28 g-index
286 citing authors

#	Article	IF	Citations
1	A Characterization of the (Natural) Graph Properties Testable with One-Sided Error. SIAM Journal on Computing, 2008, 37, 1703-1727.	1.0	96
2	A Combinatorial Characterization of the Testable Graph Properties: It's All About Regularity. SIAM Journal on Computing, 2009, 39, 143-167.	1.0	91
3	Sublinear Time Algorithms. SIAM Journal on Discrete Mathematics, 2011, 25, 1562-1588.	0.8	66
4	Testing subgraphs in directed graphs. Journal of Computer and System Sciences, 2004, 69, 354-382.	1.2	62
5	A Characterization of Easily Testable Induced Subgraphs. Combinatorics Probability and Computing, 2006, 15, 791.	1.3	54
6	Every Monotone Graph Property Is Testable. SIAM Journal on Computing, 2008, 38, 505-522.	1.0	52
7	Testing Hereditary Properties of Nonexpanding Bounded-Degree Graphs. SIAM Journal on Computing, 2009, 38, 2499-2510.	1.0	44
8	Every monotone graph property is testable. , 2005, , .		40
9	Every minor-closed property of sparse graphs is testable. Advances in Mathematics, 2010, 223, 2200-2218.	1.1	33
10	A proof of Green's conjecture regarding the removal properties of sets of linear equations. Journal of the London Mathematical Society, 2010, 81, 355-373.	1.0	29
11	On An Extremal Hypergraph Problem Of Brown, Erdǒs And Sǒs. Combinatorica, 2006, 26, 627-645.	1.2	27
12	Finding cycles and trees in sublinear time. Random Structures and Algorithms, 2014, 45, 139-184.	1.1	23
13	Green's conjecture and testing linear-invariant properties. , 2009, , .		22
14	Testing satisfiability. Journal of Algorithms, 2003, 47, 87-103.	0.9	21
15	A separation theorem in property testing. Combinatorica, 2008, 28, 261-281.	1.2	21
16	Additive approximation for edge-deletion problems. Annals of Mathematics, 2009, 170, 371-411.	4.2	20
17	A Unified Framework for Testing Linear-Invariant Properties. , 2010, , .		19
18	Quasi-randomness and the distribution of copies of a fixed graph. Combinatorica, 2008, 28, 735-745.	1.2	18

#	ARTICLE	IF	CITATIONS
19	An Elementary Construction of Constant-Degree Expanders. Combinatorics Probability and Computing, 2008, 17, 319-327.	1.3	17
20	Testing the expansion of a graph. Information and Computation, 2010, 208, 309-314.	0.7	17
21	Small complete minors above the extremal edge density. Combinatorica, 2015, 35, 75-94.	1.2	17
22	A Generalized Turán Problem and its Applications. International Mathematics Research Notices, 2020, 2020, 3417-3452.	1.0	16
23	A short proof of Gowers' lower bound for the regularity lemma. Combinatorica, 2016, 36, 187-194.	1.2	15
24	A unified framework for testing linear-invariant properties. Random Structures and Algorithms, 2015, 46, 232-260.	1.1	13
25	All-Pairs Bottleneck Paths in Vertex Weighted Graphs. Algorithmica, 2011, 59, 621-633.	1.3	9
26	Removal lemmas with polynomial bounds. , 2017, , .		9
27	A Deterministic Algorithm for the Frieze–Kannan Regularity Lemma. SIAM Journal on Discrete Mathematics, 2012, 26, 15-29.	0.8	8
28	An Optimal Algorithm for Finding Frieze–Kannan Regular Partitions. Combinatorics Probability and Computing, 2015, 24, 407-437.	1.3	8
29	The effect of induced subgraphs on quasi-randomness. Random Structures and Algorithms, 2010, 36, 90-109.	1.1	7
30	A Note on Even Cycles and Quasirandom Tournaments. Journal of Graph Theory, 2013, 73, 260-266.	0.9	7
31	A Wowzer-type lower bound for the strong regularity lemma. Proceedings of the London Mathematical Society, 2013, 106, 621-649.	1.3	7
32	Tournament Quasirandomness from Local Counting. Combinatorica, 2021, 41, 175-208.	1.2	7
33	The quasi-randomness of hypergraph cut properties. Random Structures and Algorithms, 2012, 40, 105-131.	1.1	6
34	Large Feedback Arc Sets, High Minimum Degree Subgraphs, and Long Cycles in Eulerian Digraphs. Combinatorics Probability and Computing, 2013, 22, 859-873.	1.3	6
35	Can a Graph Have Distinct Regular Partitions?. SIAM Journal on Discrete Mathematics, 2009, 23, 278-287.	0.8	5
36	Testing Odd-Cycle-Freeness in Boolean Functions. Combinatorics Probability and Computing, 2012, 21, 835-855.	1.3	5

#	Article	IF	Citations
37	Constructing near spanning trees with few local inspections. Random Structures and Algorithms, 2017, 50, 183-200.	1.1	5
38	Decomposing a graph into expanding subgraphs. Random Structures and Algorithms, 2018, 52, 158-178.	1.1	5
39	A generalized Turán problem and its applications. , 2018, , .		5
40	Efficient Removal Without Efficient Regularity. Combinatorica, 2019, 39, 639-658.	1.2	5
41	A sparse regular approximation lemma. Transactions of the American Mathematical Society, 2019, 371, 6779-6814.	0.9	5
42	An improved lower bound for arithmetic regularity. Mathematical Proceedings of the Cambridge Philosophical Society, 2016, 161, 193-197.	0.4	4
43	A Tight Bound for Hyperaph Regularity. Geometric and Functional Analysis, 2019, 29, 1531-1578.	1.8	4
44	The removal lemma for tournaments. Journal of Combinatorial Theory Series B, 2019, 136, 110-134.	1.0	4
45	Deterministic vs non-deterministic graph property testing. Israel Journal of Mathematics, 2014, 204, 397-416.	0.8	3
46	Unavoidable tournaments. Journal of Combinatorial Theory Series B, 2016, 116, 191-207.	1.0	3
47	On randomizing two derandomized greedy algorithms. Electronic Journal of Combinatorics, 2010, 1, 265-283.	0.1	3
48	Counting Subgraphs in Degenerate Graphs. Journal of the ACM, 2022, 69, 1-21.	2.2	3
49	Decomposing a Graph Into Expanding Subgraphs. , 2015, , .		2
50	Removal Lemmas with Polynomial Bounds. International Mathematics Research Notices, 2019, , .	1.0	1
51	A Ramsey variant of the Brown–Erdős–Sós conjecture. Bulletin of the London Mathematical Society, 2021, 53, 1453.	0.8	1
52	Testing Odd-Cycle-Freeness in Boolean Functions. , 2012, , .		1
53	A tournament approach to pattern avoiding matrices. Israel Journal of Mathematics, 2017, 217, 477-505.	0.8	0
54	Testing graphs against an unknown distribution. , 2019, , .		0

#	Article	IF	Citations
55	The Induced Removal Lemma in Sparse Graphs. Combinatorics Probability and Computing, 2020, 29, 153-162.	1.3	0
56	A quantitative Lovász criterion for Property B. Combinatorics Probability and Computing, 2020, 29, 956-960.	1.3	0
57	Green's Conjecture and Testing Linear Invariant Properties. Lecture Notes in Computer Science, 2010, , 355-358.	1.3	0
58	Testing graphs against an unknown distribution. Israel Journal of Mathematics, 0, , 1.	0.8	0