

Raphael Yuster

List of Publications by Year in descending order

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86
papers

1,848
citations

566801

15
h-index

276539

41
g-index

86
all docs

86
docs citations

86
times ranked

790
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Color-coding. <i>Journal of the ACM</i> , 1995, 42, 844-856. | 1.8 | 807 |
| 2 | On Rainbow Connection. <i>Electronic Journal of Combinatorics</i> , 2008, 15, . | 0.2 | 117 |
| 3 | H-Factors in Dense Graphs. <i>Journal of Combinatorial Theory Series B</i> , 1996, 66, 269-282. | 0.6 | 112 |
| 4 | Hardness and algorithms for rainbow connection. <i>Journal of Combinatorial Optimization</i> , 2011, 21, 330-347. | 0.8 | 110 |
| 5 | Finding Even Cycles Even Faster. <i>SIAM Journal on Discrete Mathematics</i> , 1997, 10, 209-222. | 0.4 | 57 |
| 6 | Combinatorial and computational aspects of graph packing and graph decomposition. <i>Computer Science Review</i> , 2007, 1, 12-26. | 10.2 | 48 |
| 7 | The number of edge colorings with no monochromatic triangle. <i>Journal of Graph Theory</i> , 1996, 21, 441-452. | 0.5 | 38 |
| 8 | The rainbow connection of a graph is (at most) reciprocal to its minimum degree. <i>Journal of Graph Theory</i> , 2010, 63, 185-191. | 0.5 | 31 |
| 9 | Threshold Functions for H -factors. <i>Combinatorics Probability and Computing</i> , 1993, 2, 137-144. | 0.8 | 26 |
| 10 | Asymptotically optimal k -packings of dense graphs via fractional k -decompositions. <i>Journal of Combinatorial Theory Series B</i> , 2005, 95, 1-11. | 0.6 | 23 |
| 11 | Integer and fractional packing of families of graphs. <i>Random Structures and Algorithms</i> , 2005, 26, 110-118. | 0.6 | 23 |
| 12 | The Number Of Orientations Having No Fixed Tournament. <i>Combinatorica</i> , 2006, 26, 1-16. | 0.6 | 23 |
| 13 | On a Hypergraph Matching Problem. <i>Graphs and Combinatorics</i> , 2005, 21, 377-384. | 0.2 | 21 |
| 14 | Finding heaviest H -subgraphs in real weighted graphs, with applications. <i>ACM Transactions on Algorithms</i> , 2010, 6, 1-23. | 0.9 | 21 |
| 15 | Replacement Paths via Fast Matrix Multiplication. , 2010, , . | | 18 |
| 16 | Second Neighborhood via First Neighborhood in Digraphs. <i>Annals of Combinatorics</i> , 2003, 7, 15-20. | 0.3 | 17 |
| 17 | Dense Graphs With a Large Triangle Cover Have a Large Triangle Packing. <i>Combinatorics Probability and Computing</i> , 2012, 21, 952-962. | 0.8 | 16 |
| 18 | Maximum Matching in Regular and Almost Regular Graphs. <i>Algorithmica</i> , 2013, 66, 87-92. | 1.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Packing Graphs: The Packing Problem Solved. <i>Electronic Journal of Combinatorics</i> , 1997, 4, . | 0.2 | 14 |
| 20 | Dominating a Family of Graphs with Small Connected Subgraphs. <i>Combinatorics Probability and Computing</i> , 2000, 9, 309-313. | 0.8 | 13 |
| 21 | Packing and Decomposition of Graphs with Trees. <i>Journal of Combinatorial Theory Series B</i> , 2000, 78, 123-140. | 0.6 | 13 |
| 22 | Approximation algorithms and hardness results for the clique packing problem. <i>Discrete Applied Mathematics</i> , 2009, 157, 1396-1406. | 0.5 | 13 |
| 23 | A shortest cycle for each vertex of a graph. <i>Information Processing Letters</i> , 2011, 111, 1057-1061. | 0.4 | 13 |
| 24 | Efficient algorithms on sets of permutations, dominance, and real-weighted APSP. , 2009, , . | | 13 |
| 25 | Large Monotone Paths in Graphs with Bounded Degree. <i>Graphs and Combinatorics</i> , 2001, 17, 579-587. | 0.2 | 12 |
| 26 | A Comment on Ryser's Conjecture for Intersecting Hypergraphs. <i>Graphs and Combinatorics</i> , 2009, 25, 101-109. | 0.2 | 12 |
| 27 | Packing and covering dense graphs. <i>Journal of Combinatorial Designs</i> , 1998, 6, 451-472. | 0.3 | 11 |
| 28 | The characterization of zero-sum (mod 2) bipartite Ramsey numbers. <i>Journal of Graph Theory</i> , 1998, 29, 151-166. | 0.5 | 10 |
| 29 | Tree decomposition of graphs. <i>Random Structures and Algorithms</i> , 1998, 12, 237-251. | 0.6 | 10 |
| 30 | The decomposition threshold for bipartite graphs with minimum degree one. <i>Random Structures and Algorithms</i> , 2002, 21, 121-134. | 0.6 | 10 |
| 31 | Perfect sequence covering arrays. <i>Designs, Codes, and Cryptography</i> , 2020, 88, 585-593. | 1.0 | 10 |
| 32 | All-Pairs Bottleneck Paths in Vertex Weighted Graphs. <i>Algorithmica</i> , 2011, 59, 621-633. | 1.0 | 9 |
| 33 | Approximate shortest paths in weighted graphs. <i>Journal of Computer and System Sciences</i> , 2012, 78, 632-637. | 0.9 | 9 |
| 34 | Almost Exact Matchings. <i>Algorithmica</i> , 2012, 63, 39-50. | 1.0 | 9 |
| 35 | Quasi-randomness is determined by the distribution of copies of a fixed graph in equicardinal large sets. <i>Combinatorica</i> , 2010, 30, 239-246. | 0.6 | 8 |
| 36 | Reconstructing Approximate Phylogenetic Trees from Quartet Samples. <i>SIAM Journal on Computing</i> , 2012, 41, 1466-1480. | 0.8 | 8 |

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|----|---|-----|-----------|
| 37 | On Zero-Sum and Almost Zero-Sum Subgraphs Over \mathbb{Z} . <i>Graphs and Combinatorics</i> , 2016, 32, 49-63. | 0.2 | 8 |
| 38 | On the exact maximum induced density of almost all graphs and their inducibility. <i>Journal of Combinatorial Theory Series B</i> , 2019, 136, 81-109. | 0.6 | 8 |
| 39 | Packing directed cycles efficiently. <i>Discrete Applied Mathematics</i> , 2007, 155, 82-91. | 0.5 | 7 |
| 40 | Large disjoint subgraphs with the same order and size. <i>European Journal of Combinatorics</i> , 2009, 30, 813-821. | 0.5 | 7 |
| 41 | The effect of induced subgraphs on quasi-randomness. <i>Random Structures and Algorithms</i> , 2010, 36, 90-109. | 0.6 | 7 |
| 42 | Decomposing Hypergraphs into Simple Hypertrees. <i>Combinatorica</i> , 2000, 20, 119-140. | 0.6 | 6 |
| 43 | Solving Linear Systems through Nested Dissection. , 2010, , . | | 6 |
| 44 | The quasi-randomness of hypergraph cut properties. <i>Random Structures and Algorithms</i> , 2012, 40, 105-131. | 0.6 | 6 |
| 45 | Large Feedback Arc Sets, High Minimum Degree Subgraphs, and Long Cycles in Eulerian Digraphs. <i>Combinatorics Probability and Computing</i> , 2013, 22, 859-873. | 0.8 | 6 |
| 46 | Independent Transversals and Independent Coverings in Sparse Partite Graphs. <i>Combinatorics Probability and Computing</i> , 1997, 6, 115-125. | 0.8 | 5 |
| 47 | Zero-sum Square Matrices. <i>European Journal of Combinatorics</i> , 2002, 23, 489-497. | 0.5 | 5 |
| 48 | On Minimum Witnesses for Boolean Matrix Multiplication. <i>Algorithmica</i> , 2014, 69, 431-442. | 1.0 | 5 |
| 49 | Tiling Transitive Tournaments and Their Blow-ups. <i>Order</i> , 2003, 20, 121-133. | 0.3 | 4 |
| 50 | Fractional decompositions of dense hypergraphs. <i>Bulletin of the London Mathematical Society</i> , 2007, 39, 156-166. | 0.4 | 4 |
| 51 | A Linear Time Approximation Scheme for Maximum Quartet Consistency on Sparse Sampled Inputs. <i>SIAM Journal on Discrete Mathematics</i> , 2011, 25, 1722-1736. | 0.4 | 4 |
| 52 | On the Compatibility of Quartet Trees. <i>SIAM Journal on Discrete Mathematics</i> , 2014, 28, 1493-1507. | 0.4 | 4 |
| 53 | The removal lemma for tournaments. <i>Journal of Combinatorial Theory Series B</i> , 2019, 136, 110-134. | 0.6 | 4 |
| 54 | Packing Transitive Triples in a Tournament. <i>Annals of Combinatorics</i> , 2008, 12, 291-306. | 0.3 | 3 |

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|----|--|-----|-----------|
| 55 | Unavoidable tournaments. <i>Journal of Combinatorial Theory Series B</i> , 2016, 116, 191-207. | 0.6 | 3 |
| 56 | A Ramsey type result for oriented trees. <i>European Journal of Combinatorics</i> , 2017, 60, 1-9. | 0.5 | 3 |
| 57 | Packing 4-Cycles in Eulerian and Bipartite Eulerian Tournaments with an Application to Distances in Interchange Graphs. <i>Annals of Combinatorics</i> , 2005, 9, 117-124. | 0.3 | 2 |
| 58 | Packing Cliques in Graphs with Independence Number 2. <i>Combinatorics Probability and Computing</i> , 2007, 16, 805. | 0.8 | 2 |
| 59 | Disjoint Color-Avoiding Triangles. <i>SIAM Journal on Discrete Mathematics</i> , 2009, 23, 195-204. | 0.4 | 2 |
| 60 | Single source shortest paths in H -minor free graphs. <i>Theoretical Computer Science</i> , 2010, 411, 3042-3047. | 0.5 | 2 |
| 61 | Packing Triangles in Regular Tournaments. <i>Journal of Graph Theory</i> , 2013, 74, 58-66. | 0.5 | 2 |
| 62 | Forcing k -Repetitions in Degree Sequences. <i>Electronic Journal of Combinatorics</i> , 2014, 21, . | 0.2 | 2 |
| 63 | The Effect of Local Majority on Global Majority in Connected Graphs. <i>Graphs and Combinatorics</i> , 2018, 34, 1469-1487. | 0.2 | 2 |
| 64 | Decomposing large graphs with small graphs of high density. <i>Journal of Graph Theory</i> , 1999, 32, 27-40. | 0.5 | 1 |
| 65 | Families of Trees Decompose the Random Graph in an Arbitrary Way. <i>Combinatorics Probability and Computing</i> , 2004, 13, 893-910. | 0.8 | 1 |
| 66 | Approximation algorithms and hardness results for the clique packing problem. <i>Electronic Notes in Discrete Mathematics</i> , 2007, 29, 397-401. | 0.4 | 1 |
| 67 | Almost Given Length Cycles in Digraphs. <i>Graphs and Combinatorics</i> , 2008, 24, 59-65. | 0.2 | 1 |
| 68 | Packing edge-disjoint triangles in regular and almost regular tournaments. <i>Discrete Mathematics</i> , 2015, 338, 217-228. | 0.4 | 1 |
| 69 | On the Maximum Number of Spanning Copies of an Orientation in a Tournament. <i>Combinatorics Probability and Computing</i> , 2017, 26, 775-796. | 0.8 | 1 |
| 70 | Acyclic subgraphs with high chromatic number. <i>European Journal of Combinatorics</i> , 2019, 75, 11-18. | 0.5 | 1 |
| 71 | Induced subgraphs with many repeated degrees. <i>Discrete Mathematics</i> , 2020, 343, 111828. | 0.4 | 1 |
| 72 | Paths with many shortcuts in tournaments. <i>Discrete Mathematics</i> , 2021, 344, 112168. | 0.4 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Packing without some pieces. <i>Electronic Journal of Combinatorics</i> , 2019, 10, 1-25. | 0.1 | 1 |
| 74 | A Coding Theory Bound and Zero-Sum Square Matrices. <i>Graphs and Combinatorics</i> , 2003, 19, 449-457. | 0.2 | 0 |
| 75 | Mean Ramsey-Turán numbers. <i>Journal of Graph Theory</i> , 2006, 53, 126-134. | 0.5 | 0 |
| 76 | On graphs and algebraic graphs that do not contain cycles of length 4. <i>Journal of Graph Theory</i> , 2011, 68, 91-102. | 0.5 | 0 |
| 77 | On the compatibility of quartet trees. , 2014, , . | | 0 |
| 78 | The effect of edge weights on clique weights. <i>Linear Algebra and Its Applications</i> , 2017, 515, 298-312. | 0.4 | 0 |
| 79 | On the longest path of a randomly weighted tournament. <i>Discrete Applied Mathematics</i> , 2017, 230, 121-132. | 0.5 | 0 |
| 80 | A tournament approach to pattern avoiding matrices. <i>Israel Journal of Mathematics</i> , 2017, 217, 477-505. | 0.4 | 0 |
| 81 | A 2^n algorithm for k-cycle in minor-closed graph families. <i>Theoretical Computer Science</i> , 2020, 842, 74-85. | 0.5 | 0 |
| 82 | Perfect and nearly perfect separation dimension of complete and random graphs. <i>Journal of Combinatorial Designs</i> , 2021, 29, 786-805. | 0.3 | 0 |
| 83 | Dominant tournament families. <i>Electronic Journal of Combinatorics</i> , 2021, 12, 269-282. | 0.1 | 0 |
| 84 | Generating a d-dimensional linear subspace efficiently. , 2010, , . | | 0 |
| 85 | On the quartet distance given partial information. <i>Journal of Graph Theory</i> , 0, , . | 0.5 | 0 |
| 86 | Hamiltonian cycles above expectation in r-graphs and quasi-random r-graphs. <i>Journal of Combinatorial Theory Series B</i> , 2022, 153, 195-222. | 0.6 | 0 |