

Alexandr V Kostochka

List of Publications by Year in descending order

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165
papers

1,990
citations

331670

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times ranked

571
citing authors

#	ARTICLE	IF	CITATIONS
1	Monochromatic paths and cycles in 2-edge-coloured graphs with large minimum degree. <i>Combinatorics Probability and Computing</i> , 2022, 31, 109-122.	1.3	0
2	Defective DP-colorings of sparse simple graphs. <i>Discrete Mathematics</i> , 2022, 345, 112637.	0.7	4
3	Monochromatic connected matchings in 2-edge-colored multipartite graphs. <i>Journal of Graph Theory</i> , 2022, 100, 578-607.	0.9	1
4	On Reconstruction of Graphs From the Multiset of Subgraphs Obtained by Deleting \hat{a} Vertices. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 3278-3286.	2.4	3
5	Partitioning ordered hypergraphs. <i>Journal of Combinatorial Theory - Series A</i> , 2021, 177, 105300.	0.8	2
6	Defective DP-colorings of sparse multigraphs. <i>European Journal of Combinatorics</i> , 2021, 93, 103267.	0.8	6
7	3-regular graphs are 2-reconstructible. <i>European Journal of Combinatorics</i> , 2021, 91, 103216.	0.8	1
8	On 2-defective DP-colorings of sparse graphs. <i>European Journal of Combinatorics</i> , 2021, 91, 103217.	0.8	5
9	Cut-Edges and Regular Factors in Regular Graphs of Odd Degree. <i>Graphs and Combinatorics</i> , 2021, 37, 199-207.	0.4	0
10	Injective edge-coloring of graphs with given maximum degree. <i>European Journal of Combinatorics</i> , 2021, 96, 103355.	0.8	18
11	On Sizes of 1-Cross Intersecting Set Pair Systems. <i>Siberian Mathematical Journal</i> , 2021, 62, 842-849.	0.6	1
12	Packing of subcubic outerplanar graphs. <i>Discrete Applied Mathematics</i> , 2021, 302, 8-15.	0.9	1
13	On r -uniform hypergraphs with circumference less than r . <i>Discrete Applied Mathematics</i> , 2020, 276, 69-91.	0.9	10
14	Fractional DP-colorings of sparse graphs. <i>Journal of Graph Theory</i> , 2020, 93, 203-221.	0.9	5
15	Ordered and Convex Geometric Trees with Linear Extremal Function. <i>Discrete and Computational Geometry</i> , 2020, 64, 324-338.	0.6	6
16	Hypergraphs not containing a tight tree with a bounded trunk II: 3-trees with a trunk of size 2. <i>Discrete Applied Mathematics</i> , 2020, 276, 50-59.	0.9	2
17	The minimum spectral radius of K_{r-1} -free graphs. <i>Discrete Mathematics</i> , 2020, 343, 112068.	0.7	2
18	Super-pancyclic hypergraphs and bipartite graphs. <i>Journal of Combinatorial Theory Series B</i> , 2020, 145, 450-465.	1.0	4

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19	The Minimum Number of Edges in 4-Critical Digraphs of Given Order. <i>Graphs and Combinatorics</i> , 2020, 36, 703-718.	0.4	6
20	On-line DP-coloring of graphs. <i>Discrete Applied Mathematics</i> , 2020, 285, 443-453.	0.9	5
21	Degree Lists and Connectedness are 3-Reconstructible for Graphs with At Least Seven Vertices. <i>Graphs and Combinatorics</i> , 2020, 36, 491-501.	0.4	3
22	Disjoint Chorded Cycles in Graphs with High Ore-Degree. <i>Springer Optimization and Its Applications</i> , 2020, , 259-304.	0.9	1
23	Extremal Union-Closed Set Families. <i>Graphs and Combinatorics</i> , 2019, 35, 1495-1502.	0.4	0
24	Largest 2-Regular Subgraphs in 3-Regular Graphs. <i>Graphs and Combinatorics</i> , 2019, 35, 805-813.	0.4	0
25	A variation of a theorem by PÅ³sa. <i>Discrete Mathematics</i> , 2019, 342, 1919-1923.	0.7	4
26	Packing Chromatic Number of Subdivisions of Cubic Graphs. <i>Graphs and Combinatorics</i> , 2019, 35, 513-537.	0.4	10
27	DP-colorings of hypergraphs. <i>European Journal of Combinatorics</i> , 2019, 78, 134-146.	0.8	5
28	Hypergraphs Not Containing a Tight Tree with a Bounded Trunk. <i>SIAM Journal on Discrete Mathematics</i> , 2019, 33, 862-873.	0.8	4
29	Directed Intersection Representations and the Information Content of Digraphs. , 2019, , .		2
30	Avoiding long Berge cycles. <i>Journal of Combinatorial Theory Series B</i> , 2019, 137, 55-64.	1.0	13
31	Stability in the ErdÅ’sâ€“Gallai Theorem on cycles and paths, II. <i>Discrete Mathematics</i> , 2018, 341, 1253-1263.	0.7	10
32	A Sharp Diracâ€“ErdÅ’s Type Bound for Large Graphs. <i>Combinatorics Probability and Computing</i> , 2018, 27, 387-397.	1.3	0
33	Extensions of a theorem of ErdÅ’s on nonhamiltonian graphs. <i>Journal of Graph Theory</i> , 2018, 89, 176-193.	0.9	9
34	Sharp Dirac’s theorem for DPâ€“critical graphs. <i>Journal of Graph Theory</i> , 2018, 88, 521-546.	0.9	18
35	A Brooks-Type Result for Sparse Critical Graphs. <i>Combinatorica</i> , 2018, 38, 887-934.	1.2	9
36	Packing chromatic number of cubic graphs. <i>Discrete Mathematics</i> , 2018, 341, 474-483.	0.7	22

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37	Strong edge-colorings of sparse graphs with large maximum degree. European Journal of Combinatorics, 2018, 67, 21-39.	0.8	10
38	Many cliques in H -free subgraphs of random graphs. Electronic Journal of Combinatorics, 2018, 9, 567-597.	0.1	3
39	The $(2k-1)$ -connected multigraphs with at most $k-1$ disjoint cycles. Combinatorica, 2017, 37, 77-86.	1.2	6
40	Cycles in triangle-free graphs of large chromatic number. Combinatorica, 2017, 37, 481-494.	1.2	10
41	Tight Descriptions of Paths in Normal Plane Maps. Journal of Graph Theory, 2017, 85, 115-132.	0.9	7
42	A stability version for a theorem of Erdős's on nonhamiltonian graphs. Discrete Mathematics, 2017, 340, 2688-2690.	0.7	9
43	Strengthening Theorems of Dirac and Erdős's on Disjoint Cycles. Journal of Graph Theory, 2017, 85, 788-802.	0.9	2
44	DP-colorings of graphs with high chromatic number. European Journal of Combinatorics, 2017, 65, 122-129.	0.8	20
45	On the Corrádi-Hajnal theorem and a question of Dirac. Journal of Combinatorial Theory Series B, 2017, 122, 121-148.	1.0	8
46	Turán problems and shadows II: Trees. Journal of Combinatorial Theory Series B, 2017, 122, 457-478.	1.0	14
47	Decomposition of sparse graphs into forests: The Nine Dragon Tree Conjecture for $k \geq 2$. Journal of Combinatorial Theory Series B, 2017, 122, 741-756.	1.0	5
48	Improper Coloring of Sparse Graphs with a Given Girth, II: Constructions. Journal of Graph Theory, 2016, 81, 403-413.	0.9	12
49	Stability in the Erdős-Gallai Theorems on cycles and paths. Journal of Combinatorial Theory Series B, 2016, 121, 197-228.	1.0	19
50	Coloring, sparseness and girth. Israel Journal of Mathematics, 2016, 214, 315-331.	0.8	8
51	On a packing problem of Alon and Yuster. Discrete Mathematics, 2016, 339, 2785-2792.	0.7	1
52	Adding Edges to Increase the Chromatic Number of a Graph. Combinatorics Probability and Computing, 2016, 25, 592-594.	1.3	0
53	A list version of graph packing. Discrete Mathematics, 2016, 339, 2178-2185.	0.7	1
54	On the number of edges in a graph with no K_{k+1} subgraphs. Discrete Mathematics, 2016, 339, 682-688.	0.7	6

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55	Strong chromatic index of subcubic planar multigraphs. European Journal of Combinatorics, 2016, 51, 380-397.	0.8	20
56	The minimum number of edges in a 4-critical graph that is bipartite plus 3 edges. European Journal of Combinatorics, 2015, 46, 89-94.	0.8	2
57	A refinement of a result of Corrádi and Hajnal. Combinatorica, 2015, 35, 497-512.	1.2	8
58	Turán Problems and Shadows III: Expansions of Graphs. SIAM Journal on Discrete Mathematics, 2015, 29, 868-876.	0.8	14
59	Turán problems and shadows I: Paths and cycles. Journal of Combinatorial Theory - Series A, 2015, 129, 57-79.	0.8	42
60	Choosability with Separation of Complete Multipartite Graphs and Hypergraphs. Journal of Graph Theory, 2014, 76, 129-137.	0.9	10
61	On independent sets in hypergraphs. Random Structures and Algorithms, 2014, 44, 224-239.	1.1	30
62	$K_{s,t}$ Minors in $(s+t)$ -Chromatic Graphs, II. Journal of Graph Theory, 2014, 75, 377-386.	0.9	4
63	A new tool for proving Vizing's Theorem. Discrete Mathematics, 2014, 326, 1-3.	0.7	2
64	Short proofs of coloring theorems on planar graphs. European Journal of Combinatorics, 2014, 36, 314-321.	0.8	10
65	Ore's conjecture on color-critical graphs is almost true. Journal of Combinatorial Theory Series B, 2014, 109, 73-101.	1.0	36
66	Ore's conjecture for $k=4$ and Grötzsch's Theorem. Combinatorica, 2014, 34, 323-329.	1.2	21
67	Planar 4-critical graphs with four triangles. European Journal of Combinatorics, 2014, 41, 138-151.	0.8	12
68	Describing faces in plane triangulations. Discrete Mathematics, 2014, 319, 47-61.	0.7	20
69	Improper coloring of sparse graphs with a given girth, I: $(0,1)$ -colorings of triangle-free graphs. European Journal of Combinatorics, 2014, 42, 26-48.	0.8	20
70	On almost 1 -improper coloring of sparse graphs. Discrete Mathematics, 2013, 313, 2638-2649.	0.7	32
71	Describing 3-paths in normal plane maps. Discrete Mathematics, 2013, 313, 2702-2711.	0.7	19
72	On almost 1 -improper coloring of sparse graphs and hypergraphs. Discrete Mathematics, 2013, 313, 366-374.	0.7	

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73	Hypergraph Ramsey numbers: Triangles versus cliques. <i>Journal of Combinatorial Theory - Series A</i> , 2013, 120, 1491-1507.	0.8	13
74	A Hypergraph Version of a Graph Packing Theorem by Bollobás and Eldridge. <i>Journal of Graph Theory</i> , 2013, 74, 222-235.	0.9	1
75	Decomposition of Sparse Graphs into Forests and a Graph with Bounded Degree. <i>Journal of Graph Theory</i> , 2013, 74, 369-391.	0.9	17
76	Equitable List Coloring of Graphs with Bounded Degree. <i>Journal of Graph Theory</i> , 2013, 74, 309-334.	0.9	7
77	Decomposition of cartesian products of regular graphs into isomorphic trees. <i>Electronic Journal of Combinatorics</i> , 2013, 4, 469-490.	0.1	5
78	Conflict-Free Colourings of Uniform Hypergraphs With Few Edges. <i>Combinatorics Probability and Computing</i> , 2012, 21, 611-622.	1.3	9
79	Large Rainbow Matchings in Edge-Coloured Graphs. <i>Combinatorics Probability and Computing</i> , 2012, 21, 255-263.	1.3	23
80	Graphs Containing Every 2-Factor. <i>Graphs and Combinatorics</i> , 2012, 28, 687-716.	0.4	7
81	Packing and Covering Triangles in K_4 -free Planar Graphs. <i>Graphs and Combinatorics</i> , 2012, 28, 653-662.	0.4	18
82	Dense uniform hypergraphs have high list chromatic number. <i>Discrete Mathematics</i> , 2012, 312, 2119-2125.	0.7	3
83	Graphs with chromatic number close to maximum degree. <i>Discrete Mathematics</i> , 2012, 312, 1273-1281.	0.7	20
84	Harmonious coloring of trees with large maximum degree. <i>Discrete Mathematics</i> , 2012, 312, 1633-1637.	0.7	3
85	A stability theorem on fractional covering of triangles by edges. <i>European Journal of Combinatorics</i> , 2012, 33, 799-806.	0.8	12
86	Every 4-Colorable Graph With Maximum Degree 4 Has an Equitable 4-Coloring. <i>Journal of Graph Theory</i> , 2012, 71, 31-48.	0.9	18
87	Large minors in graphs with given independence number. <i>Discrete Mathematics</i> , 2011, 311, 2203-2215.	0.7	8
88	Ohba's conjecture for graphs with independence number five. <i>Discrete Mathematics</i> , 2011, 311, 996-1005.	0.7	7
89	Hypergraph list coloring and Euclidean Ramsey theory. <i>Random Structures and Algorithms</i> , 2011, 39, 377-390.	1.1	13
90	Minors in Graphs with High Chromatic Number. <i>Combinatorics Probability and Computing</i> , 2011, 20, 513-518.	1.3	1

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91	Graphs with maximum degree 5 are acyclically 7-colorable. <i>Ars Mathematica Contemporanea</i> , 2011, 4, 153-164.	0.6	17
92	Equitable versus nearly equitable coloring and the Chen-Lih-Wu conjecture. <i>Combinatorica</i> , 2010, 30, 201-216.	1.2	15
93	A fast algorithm for equitable coloring. <i>Combinatorica</i> , 2010, 30, 217-224.	1.2	55
94	On $K_{s,t}$ minors in $(s+t)$ -chromatic graphs. <i>Journal of Graph Theory</i> , 2010, 65, 343-350.	0.9	5
95	Some constructive bounds on Ramsey numbers. <i>Journal of Combinatorial Theory Series B</i> , 2010, 100, 439-445.	1.0	7
96	Graphs with bounded tree-width and large odd-girth are almost bipartite. <i>Journal of Combinatorial Theory Series B</i> , 2010, 100, 554-559.	1.0	1
97	Hadwiger numbers and over-dominating colourings. <i>Discrete Mathematics</i> , 2010, 310, 2662-2665.	0.7	4
98	Dense graphs have χ bounded by $\frac{3}{2} \log n$. <i>Discrete Mathematics</i> , 2009, 309, 997-1000.	0.7	18
99	Disc Constructions of sparse uniform hypergraphs with high chromatic number. <i>Random Structures and Algorithms</i> , 2010, 36, 46-56.	1.1	25
100	Sizes of Induced Subgraphs of Ramsey Graphs. <i>Combinatorics Probability and Computing</i> , 2009, 18, 459-476.	1.3	7
101	χ of M -degrees of quadrangle-free planar graphs. <i>Journal of Graph Theory</i> , 2009, 60, 80-85.	0.9	9
102	Planar graphs decomposable into a forest and a matching. <i>Discrete Mathematics</i> , 2009, 309, 277-279.	0.7	4
103	Many disjoint dense subgraphs versus large χ of k -connected subgraphs in large graphs with given edge density. <i>Discrete Mathematics</i> , 2009, 309, 997-1000.	0.7	2
104	A Brooks-type bound for squares of K -graphs. <i>Discrete Mathematics</i> , 2009, 309, 6572-6584.	0.7	2
105	Induced subgraphs with distinct sizes. <i>Random Structures and Algorithms</i> , 2009, 34, 45-53.	1.1	9
106	Coloring uniform hypergraphs with few edges. <i>Random Structures and Algorithms</i> , 2009, 35, 348-368.	1.1	27
107	Ore-type versions of Brooks' theorem. <i>Journal of Combinatorial Theory Series B</i> , 2009, 99, 298-305.	1.0	21
108	An upper bound on the domination number of n -vertex graphs. <i>Journal of Combinatorial Theory Series B</i> , 2009, 99, 298-305.	0.7	18

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109	Ore-type conditions implying 2-factors consisting of short cycles. Discrete Mathematics, 2009, 309, 4762-4771.	0.7	3
110	The Erdős Lovász Tihany conjecture for quasi-line graphs. Discrete Mathematics, 2009, 309, 3985-3991.	0.7	12
111	Efficient Graph Packing via Game Colouring. Combinatorics Probability and Computing, 2009, 18, 765-774.	1.3	22
112	Packing d-degenerate graphs. Journal of Combinatorial Theory Series B, 2008, 98, 85-94.	1.0	14
113	On k -detour subgraphs of the hypercube. Graphs and Combinatorics, 2008, 24, 265-272.	0.7	23
114	On 2-Detour Subgraphs of the Hypercube. Graphs and Combinatorics, 2008, 24, 265-272.	0.4	2
115	Hadwiger Number and the Cartesian Product of Graphs. Graphs and Combinatorics, 2008, 24, 291-301.	0.4	8
116	On a graph packing conjecture by Bollobás, Eldridge and Catlin. Combinatorica, 2008, 28, 469-485.	1.2	12
117	k -detour subgraphs of hypercubes. Journal of Graph Theory, 2008, 57, 55-64.	0.9	4
118	Ore-type degree conditions for a graph to be H -linked. Journal of Graph Theory, 2008, 58, 14-26.	0.9	9
119	An Ore-type theorem on equitable coloring. Journal of Combinatorial Theory Series B, 2008, 98, 226-234.	1.0	52
120	Packing of graphs with small product of sizes. Journal of Combinatorial Theory Series B, 2008, 98, 1411-1415.	1.0	1
121	Minimum degree conditions for k -detour subgraphs of the hypercube. Graphs and Combinatorics, 2008, 24, 265-272.	0.9	13
122	Decomposing a planar graph with girth 9 into a forest and a matching. European Journal of Combinatorics, 2008, 29, 1235-1241.	0.8	19
123	A Short Proof of the Hajnal-Szemerédi Theorem on Equitable Colouring. Combinatorics Probability and Computing, 2008, 17, 265-270.	1.3	72
124	When is an Almost Monochromatic K_{2k} Guaranteed?. Combinatorics Probability and Computing, 2008, 17, 823-830.	1.3	11
125	Partitions and Edge Colourings of Multigraphs. Electronic Journal of Combinatorics, 2008, 15, .	0.4	10
126	Ore-type graph packing problems. Combinatorics Probability and Computing, 2007, 16, 167.	1.3	13

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127	Extremal Graphs for a Graph Packing Theorem of Sauer and Spencer. <i>Combinatorics Probability and Computing</i> , 2007, 16, 409.	1.3	9
128	Tree representations of graphs. <i>European Journal of Combinatorics</i> , 2007, 28, 1087-1098.	0.8	3
129	An Ore-type analogue of the Sauer-Spencer Theorem. <i>Graphs and Combinatorics</i> , 2007, 23, 419-424.	0.4	5
130	On Minimum Degree Implying That a Graph is H -linked. <i>SIAM Journal on Discrete Mathematics</i> , 2006, 20, 829-840.	0.8	20
131	Dominating sets in k -majority tournaments. <i>Journal of Combinatorial Theory Series B</i> , 2006, 96, 374-387.	1.0	28
132	On Sufficient Degree Conditions for a Graph to be k -linked. <i>Combinatorics Probability and Computing</i> , 2006, 15, 685.	1.3	39
133	Color-Critical Graphs and Hypergraphs with Few Edges: A Survey. <i>Bolyai Society Mathematical Studies</i> , 2006, , 175-197.	0.3	37
134	Even cycles in hypergraphs. <i>Journal of Combinatorial Theory Series B</i> , 2005, 94, 173-182.	1.0	2
135	Smaller planar triangle-free graphs that are not 3-list-colorable. <i>Discrete Mathematics</i> , 2005, 290, 269-274.	0.7	5
136	Disjoint K_r -minors in large graphs with given average degree. <i>European Journal of Combinatorics</i> , 2005, 26, 289-292.	0.8	6
137	Irreducible hypergraphs for Hall-type conditions, and arc-minimal digraph expanders. <i>European Journal of Combinatorics</i> , 2005, 26, 1119-1138.	0.8	1
138	Nordhaus-Gaddum-type Theorems for decompositions into many parts. <i>Journal of Graph Theory</i> , 2005, 50, 273-292.	0.9	14
139	An extremal problem for H -linked graphs. <i>Journal of Graph Theory</i> , 2005, 50, 321-339.	0.9	24
140	On domination in connected cubic graphs. <i>Discrete Mathematics</i> , 2005, 304, 45-50.	0.7	26
141	On Two Conjectures on Packing of Graphs. <i>Combinatorics Probability and Computing</i> , 2005, 14, 723.	1.3	7
142	On Graphs With Small Ramsey Numbers, II. <i>Combinatorica</i> , 2004, 24, 389-401.	1.2	17
143	Homomorphisms from sparse graphs with large girth. <i>Journal of Combinatorial Theory Series B</i> , 2004, 90, 147-159.	1.0	44
144	Coloring uniform hypergraphs with few colors. <i>Random Structures and Algorithms</i> , 2004, 24, 1-10.	1.1	24

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145	Precoloring Extensions of Brooks' Theorem. SIAM Journal on Discrete Mathematics, 2004, 18, 542-553.	0.8	19
146	Decomposing Graphs into Long Paths. Order, 2003, 20, 239-253.	0.5	0
147	Degree conditions fork-ordered hamiltonian graphs. Journal of Graph Theory, 2003, 42, 199-210.	0.9	34
148	A new lower bound on the number of edges in colour-critical graphs and hypergraphs. Journal of Combinatorial Theory Series B, 2003, 87, 374-402.	1.0	15
149	Total choosability of multicircuits I. Journal of Graph Theory, 2002, 40, 26-43.	0.9	3
150	Total choosability of multicircuits II. Journal of Graph Theory, 2002, 40, 44-67.	0.9	4
151	A list version of Dirac's theorem on the number of edges in colour-critical graphs. Journal of Graph Theory, 2002, 39, 165-177.	0.9	14
152	Transversals in Uniform Hypergraphs with Property $(p,2)$. Combinatorica, 2002, 22, 275-285.	1.2	4
153	Density Conditions for Panchromatic Colourings of Hypergraphs. Combinatorica, 2001, 21, 515-541.	1.2	15
154	On the chromatic number of set systems. Random Structures and Algorithms, 2001, 19, 87-98.	1.1	28
155	Choosability conjectures and multicircuits. Discrete Mathematics, 2001, 240, 123-143.	0.7	38
156	On the Number of Edges in Hypergraphs Critical with Respect to Strong Colourings. European Journal of Combinatorics, 2000, 21, 249-255.	0.8	1
157	On the Number of Edges in Colour-Critical Graphs and Hypergraphs. Combinatorica, 2000, 20, 521-530.	1.2	23
158	Transversals in uniform hypergraphs with property $(7,2)$. Discrete Mathematics, 1999, 207, 277-284.	0.7	3
159	Regular Honest Graphs, Isoperimetric Numbers, and Bisection of Weighted Graphs. European Journal of Combinatorics, 1999, 20, 469-481.	0.8	2
160	Hypercube subgraphs with local detours. Journal of Graph Theory, 1999, 30, 101-111.	0.9	4
161	Graphs without short odd cycles are nearly bipartite. Discrete Mathematics, 1997, 163, 279-284.	0.7	10
162	Covering and coloring polygon-circle graphs. Discrete Mathematics, 1997, 163, 299-305.	0.7	81

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163	Matchings in random spanning subgraphs of cubelike graphs. <i>Random Structures and Algorithms</i> , 1990, 1, 277-285.	1.1	2
164	Extremal problems for convex geometric hypergraphs and ordered hypergraphs. <i>Canadian Journal of Mathematics</i> , 0, , 1-19.	0.6	3
165	Longest cycles in \mathbb{Z}_2 -connected hypergraphs and bipartite graphs. <i>Journal of Graph Theory</i> , 0, , .	0.9	0