

Daniel Kral

List of Publications by Year in descending order

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177
papers

1,818
citations

331670

21
h-index

434195

31
g-index

178
all docs

178
docs citations

178
times ranked

690
citing authors

#	ARTICLE	IF	CITATIONS
1	A Theorem about the Channel Assignment Problem. SIAM Journal on Discrete Mathematics, 2003, 16, 426-437.	0.8	91
2	On the number of pentagons in triangle-free graphs. Journal of Combinatorial Theory - Series A, 2013, 120, 722-732.	0.8	81
3	Recent developments in graph Ramsey theory. , 2015, , 49-118.		67
4	Coloring squares of planar graphs with girth six. European Journal of Combinatorics, 2008, 29, 838-849.	0.8	57
5	Testing first-order properties for subclasses of sparse graphs. Journal of the ACM, 2013, 60, 1-24.	2.2	47
6	Steinberg's Conjecture is false. Journal of Combinatorial Theory Series B, 2017, 122, 452-456.	1.0	47
7	A combinatorial proof of the Removal Lemma for Groups. Journal of Combinatorial Theory - Series A, 2009, 116, 971-978.	0.8	42
8	Deciding First-Order Properties for Sparse Graphs. , 2010, , .		34
9	A removal lemma for systems of linear equations over finite fields. Israel Journal of Mathematics, 2012, 187, 193-207.	0.8	33
10	Quasirandom permutations are characterized by 4-point densities. Geometric and Functional Analysis, 2013, 23, 570-579.	1.8	33
11	Exponentially many perfect matchings in cubic graphs. Advances in Mathematics, 2011, 227, 1646-1664.	1.1	32
12	Non-Three-Colourable Common Graphs Exist. Combinatorics Probability and Computing, 2012, 21, 734-742.	1.3	32
13	Coloring Powers of Chordal Graphs. SIAM Journal on Discrete Mathematics, 2004, 18, 451-461.	0.8	31
14	Finitely forcible graphons and permutons. Journal of Combinatorial Theory Series B, 2015, 110, 112-135.	1.0	31
15	A New Lower Bound Based on Gromov's Method of Selecting Heavily Covered Points. Discrete and Computational Geometry, 2012, 48, 487-498.	0.6	28
16	Rank of divisors on tropical curves. Journal of Combinatorial Theory - Series A, 2013, 120, 1521-1538.	0.8	27
17	Graph labellings with variable weights, a survey. Discrete Applied Mathematics, 2009, 157, 2646-2658.	0.9	26
18	Edge-disjoint odd cycles in planar graphs. Journal of Combinatorial Theory Series B, 2004, 90, 107-120.	1.0	25

#	ARTICLE	IF	CITATIONS
19	An exact algorithm for the channel assignment problem. <i>Discrete Applied Mathematics</i> , 2005, 145, 326-331.	0.9	25
20	Coloring plane graphs with independent crossings. <i>Journal of Graph Theory</i> , 2010, 64, 184-205.	0.9	25
21	Brooks's Theorem via the Alon's Tarsi Theorem. <i>Discrete Mathematics</i> , 2010, 310, 3426-3428.	0.7	25
22	A problem of Erdős and Sós on 3-graphs. <i>Israel Journal of Mathematics</i> , 2016, 211, 349-366.	0.8	24
23	Monochromatic triangles in three-coloured graphs. <i>Journal of Combinatorial Theory Series B</i> , 2013, 103, 489-503.	1.0	23
24	A note on group colorings. <i>Journal of Graph Theory</i> , 2005, 50, 123-129.	0.9	22
25	Classes of graphs with small rank decompositions are \mathbb{F}_2 -bounded. <i>European Journal of Combinatorics</i> , 2012, 33, 679-683.	0.8	22
26	On Feasible Sets of Mixed Hypergraphs. <i>Electronic Journal of Combinatorics</i> , 2004, 11, .	0.4	22
27	The Channel Assignment Problem with Variable Weights. <i>SIAM Journal on Discrete Mathematics</i> , 2006, 20, 690-704.	0.8	21
28	Fullerene graphs have exponentially many perfect matchings. <i>Journal of Mathematical Chemistry</i> , 2009, 46, 443-447.	1.5	21
29	A revival of the girth conjecture. <i>Journal of Combinatorial Theory Series B</i> , 2004, 92, 41-53.	1.0	20
30	Colorings Of Plane Graphs With No Rainbow Faces. <i>Combinatorica</i> , 2006, 26, 169-182.	1.2	18
31	Cyclic, diagonal and facial colorings. <i>European Journal of Combinatorics</i> , 2005, 26, 473-490.	0.8	17
32	Short Cycle Covers of Graphs with Minimum Degree Three. <i>SIAM Journal on Discrete Mathematics</i> , 2010, 24, 330-355.	0.8	17
33	Hamilton cycles in prisms. <i>Journal of Graph Theory</i> , 2007, 56, 249-269.	0.9	16
34	Labeling planar graphs with a condition at distance two. <i>European Journal of Combinatorics</i> , 2007, 28, 2201-2239.	0.8	16
35	Projective, affine, and abelian colorings of cubic graphs. <i>European Journal of Combinatorics</i> , 2009, 30, 53-69.	0.8	16
36	Counting flags in triangle-free digraphs. <i>Combinatorica</i> , 2017, 37, 49-76.	1.2	15

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37	On Planar Mixed Hypergraphs. <i>Electronic Journal of Combinatorics</i> , 2001, 8, .	0.4	15
38	Mixed hypercacti. <i>Discrete Mathematics</i> , 2004, 286, 99-113.	0.7	14
39	Mixed hypergraphs and other coloring problems. <i>Discrete Mathematics</i> , 2007, 307, 923-938.	0.7	14
40	A New Bound for the $2/3$ Conjecture. <i>Combinatorics Probability and Computing</i> , 2013, 22, 384-393.	1.3	14
41	6-Critical Graphs on the Klein Bottle. <i>SIAM Journal on Discrete Mathematics</i> , 2009, 23, 372-383.	0.8	13
42	Permutations with fixed pattern densities. <i>Random Structures and Algorithms</i> , 2020, 56, 220-250.	1.1	13
43	The Circular Chromatic Index of Flower Snarks. <i>Electronic Journal of Combinatorics</i> , 2006, 13, .	0.4	12
44	Tough spiders. <i>Journal of Graph Theory</i> , 2007, 56, 23-40.	0.9	11
45	The circular chromatic index of graphs of high girth. <i>Journal of Combinatorial Theory Series B</i> , 2007, 97, 1-13.	1.0	11
46	On the removal lemma for linear systems over Abelian groups. <i>European Journal of Combinatorics</i> , 2013, 34, 248-259.	0.8	11
47	Coloring face hypergraphs on surfaces. <i>European Journal of Combinatorics</i> , 2005, 26, 95-110.	0.8	10
48	Coloring mixed hypertrees. <i>Discrete Applied Mathematics</i> , 2006, 154, 660-672.	0.9	10
49	Cyclic, diagonal and facial coloringsâ€”a missing case. <i>European Journal of Combinatorics</i> , 2007, 28, 1637-1639.	0.8	10
50	Characterization of affine Steiner triple systems and Hall triple systems. <i>Electronic Notes in Discrete Mathematics</i> , 2007, 29, 17-21.	0.4	10
51	Probabilistic strategies for the partition and plurality problems. <i>Random Structures and Algorithms</i> , 2007, 30, 63-77.	1.1	10
52	Counting flags in triangle-free digraphs. <i>Electronic Notes in Discrete Mathematics</i> , 2009, 34, 621-625.	0.4	10
53	Markov bases of binary graph models of $K_{4,4}$ -minor free graphs. <i>Journal of Combinatorial Theory - Series A</i> , 2010, 117, 759-765.	0.8	10
54	Maximum edge-cuts in cubic graphs with large girth and in random cubic graphs. <i>Random Structures and Algorithms</i> , 2012, 41, 506-520.	1.1	10

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55	Finitely forcible graph limits are universal. <i>Advances in Mathematics</i> , 2018, 340, 819-854.	1.1	10
56	A bound on the inducibility of cycles. <i>Journal of Combinatorial Theory - Series A</i> , 2019, 161, 359-363.	0.8	10
57	Mixed hypergraphs with bounded degree: edge-coloring of mixed multigraphs. <i>Theoretical Computer Science</i> , 2003, 295, 263-278.	0.9	9
58	On maximum face-constrained coloring of plane graphs with no short face cycles. <i>Discrete Mathematics</i> , 2004, 277, 301-307.	0.7	9
59	Group Coloring and List Group Coloring Are $\hat{=}$ P-Complete. <i>Lecture Notes in Computer Science</i> , 2004, , 274-286.	1.3	9
60	Bounds for the Real Number Graph Labellings and Application to Labellings of the Triangular Lattice. <i>SIAM Journal on Discrete Mathematics</i> , 2008, 22, 1559-1569.	0.8	9
61	A New Lower Bound on the Number of Perfect Matchings in Cubic Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2009, 23, 1465-1483.	0.8	9
62	Characterisation Results for Steiner Triple Systems and Their Application to Edge-Colourings of Cubic Graphs. <i>Canadian Journal of Mathematics</i> , 2010, 62, 355-381.	0.6	9
63	First order convergence of matroids. <i>European Journal of Combinatorics</i> , 2017, 59, 150-168.	0.8	9
64	The step Sidorenko property and non-norming edge-transitive graphs. <i>Journal of Combinatorial Theory - Series A</i> , 2019, 162, 34-54.	0.8	9
65	Characterization of quasirandom permutations by a pattern sum. <i>Random Structures and Algorithms</i> , 2020, 57, 920-939.	1.1	9
66	Coloring Mixed Hypertrees. <i>Lecture Notes in Computer Science</i> , 2000, , 279-289.	1.3	9
67	A Brooks-Type Theorem for the Generalized List T-Coloring. <i>SIAM Journal on Discrete Mathematics</i> , 2005, 19, 588-609.	0.8	8
68	Randomized strategies for the plurality problem. <i>Discrete Applied Mathematics</i> , 2008, 156, 3305-3311.	0.9	8
69	Coloring even-faced graphs in the torus and the Klein bottle. <i>Combinatorica</i> , 2008, 28, 325-341.	1.2	8
70	Distance constrained labelings of planar graphs with no short cycles. <i>Discrete Applied Mathematics</i> , 2009, 157, 2634-2645.	0.9	8
71	Circular edge-colorings of cubic graphs with girth six. <i>Journal of Combinatorial Theory Series B</i> , 2010, 100, 351-358.	1.0	8
72	Facial colorings using Hall's Theorem. <i>European Journal of Combinatorics</i> , 2010, 31, 1001-1019.	0.8	8

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73	Construction of Large Graphs with No Optimal Surjective $L(2,1)$ -Labelings. <i>SIAM Journal on Discrete Mathematics</i> , 2006, 20, 536-543.	0.8	7
74	Fractional colorings of cubic graphs with large girth. <i>SIAM Journal on Discrete Mathematics</i> , 2011, 25, 1454-1476.	0.8	7
75	Domination number of cubic graphs with large girth. <i>Journal of Graph Theory</i> , 2012, 69, 131-142.	0.9	7
76	Weak regularity and finitely forcible graph limits. <i>Transactions of the American Mathematical Society</i> , 2018, 370, 3833-3864.	0.9	7
77	Three-coloring triangle-free graphs on surfaces III. Graphs of girth five. <i>Journal of Combinatorial Theory Series B</i> , 2020, 145, 376-432.	1.0	7
78	Coloring triangle-free graphs on surfaces. , 2009, , .		7
79	HajÅ³'s theorem for list coloring. <i>Discrete Mathematics</i> , 2004, 287, 161-163.	0.7	6
80	Unions of perfect matchings in cubic graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2005, 22, 341-345.	0.4	6
81	List coloring of Cartesian products of graphs. <i>Discrete Mathematics</i> , 2006, 306, 1955-1958.	0.7	6
82	An improved linear bound on the number of perfect matchings in cubic graphs. <i>European Journal of Combinatorics</i> , 2010, 31, 1316-1334.	0.8	6
83	Min-Max Relations for Odd Cycles in Planar Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2012, 26, 884-895.	0.8	6
84	Packing six T-joins in plane graphs. <i>Journal of Combinatorial Theory Series B</i> , 2016, 116, 287-305.	1.0	6
85	Densities in large permutations and parameter testing. <i>European Journal of Combinatorics</i> , 2017, 60, 89-99.	0.8	6
86	Three-coloring triangle-free graphs on surfaces II. 4-critical graphs in a disk. <i>Journal of Combinatorial Theory Series B</i> , 2018, 132, 1-46.	1.0	6
87	Decomposing Graphs into Edges and Triangles. <i>Combinatorics Probability and Computing</i> , 2019, 28, 465-472.	1.3	6
88	Three-coloring triangle-free graphs on surfaces V. Coloring planar graphs with distant anomalies. <i>Journal of Combinatorial Theory Series B</i> , 2021, 150, 244-269.	1.0	6
89	An Algorithm for Cyclic Edge Connectivity of Cubic Graphs. <i>Lecture Notes in Computer Science</i> , 2004, , 236-247.	1.3	6
90	Algorithms for Classes of Graphs with Bounded Expansion. <i>Lecture Notes in Computer Science</i> , 2010, , 17-32.	1.3	6

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91	FO Model Checking of Interval Graphs. Lecture Notes in Computer Science, 2013, , 250-262.	1.3	6
92	Quasirandom Latin squares. Random Structures and Algorithms, 0, , .	1.1	6
93	Pancyclicity of Strong Products of Graphs. Graphs and Combinatorics, 2004, 20, 91-104.	0.4	5
94	Coloring graphs from lists with bounded size of their union. Journal of Graph Theory, 2005, 49, 177-186.	0.9	5
95	The last excluded case of Dirac's map-color theorem for choosability. Journal of Graph Theory, 2006, 51, 319-354.	0.9	5
96	Labelings of Graphs with Fixed and Variable Edge-Weights. SIAM Journal on Discrete Mathematics, 2007, 21, 688-706.	0.8	5
97	Cyclic colorings of plane graphs with independent faces. European Journal of Combinatorics, 2012, 33, 294-301.	0.8	5
98	Third Case of the Cyclic Coloring Conjecture. SIAM Journal on Discrete Mathematics, 2016, 30, 525-548.	0.8	5
99	Walk entropy and walk-regularity. Linear Algebra and Its Applications, 2018, 546, 115-121.	0.9	5
100	Scaling of quadratic and linear magneto-optic Kerr effect spectra with L21 ordering of Co ₂ MnSi Heusler compound. Applied Physics Letters, 2020, 116, .	3.3	5
101	Magnetic and Magneto-Optical Properties of Fe ₇₅ ~xMn ₂₅ Gax Heusler-like Compounds. Materials, 2020, 13, 703.	2.9	5
102	On Complexity of Colouring Mixed Hypertrees. Lecture Notes in Computer Science, 2001, , 516-524.	1.3	5
103	Three Optimal Algorithms for Balls of Three Colors. Lecture Notes in Computer Science, 2005, , 206-217.	1.3	5
104	Computing Representations of Matroids of Bounded Branch-Width. , 2007, , 224-235.		5
105	FO Model Checking of Interval Graphs. Logical Methods in Computer Science, 2015, 11, .	0.4	5
106	Hamilton cycles in strong products of graphs. Journal of Graph Theory, 2005, 48, 299-321.	0.9	4
107	Equipartite graphs. Israel Journal of Mathematics, 2008, 168, 431-444.	0.8	4
108	Hamiltonian threshold for strong products of graphs. Journal of Graph Theory, 2008, 58, 314-328.	0.9	4

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109	Long cycles in fullerene graphs. <i>Journal of Mathematical Chemistry</i> , 2009, 45, 1021-1031.	1.5	4
110	Optimal Real Number Graph Labellings of a Subfamily of Kneser Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2009, 23, 1372-1381.	0.8	4
111	Decomposition width of matroids. <i>Discrete Applied Mathematics</i> , 2012, 160, 913-923.	0.9	4
112	Hereditary properties of permutations are strongly testable. , 2014, , .		4
113	Three-coloring triangle-free graphs on surfaces I. Extending a coloring to a disk with one triangle. <i>Journal of Combinatorial Theory Series B</i> , 2016, 120, 1-17.	1.0	4
114	Elusive extremal graphs. <i>Proceedings of the London Mathematical Society</i> , 2020, 121, 1685-1736.	1.3	4
115	Three-coloring triangle-free graphs on surfaces IV. Bounding face sizes of 4-critical graphs. <i>Journal of Combinatorial Theory Series B</i> , 2021, 150, 270-304.	1.0	4
116	It is tough to be a plumber. <i>Theoretical Computer Science</i> , 2004, 313, 473-484.	0.9	3
117	Closure for the property of having a hamiltonian prism. <i>Journal of Graph Theory</i> , 2007, 54, 209-220.	0.9	3
118	Edge-colorings of cubic graphs with elements of point-transitive Steiner triple systems. <i>Electronic Notes in Discrete Mathematics</i> , 2007, 29, 23-27.	0.4	3
119	Matchings and Nonrainbow Colorings. <i>SIAM Journal on Discrete Mathematics</i> , 2009, 23, 344-348.	0.8	3
120	Cubic bridgeless graphs have more than a linear number of perfect matchings. <i>Electronic Notes in Discrete Mathematics</i> , 2009, 34, 411-415.	0.4	3
121	Toughness threshold for the existence of 2-walks in K_{2k+1} graphs. <i>Discrete Mathematics</i> , 2010, 310, 642-651.	0.7	3
122	Coloring Eulerian Triangulations of the Klein Bottle. <i>Graphs and Combinatorics</i> , 2012, 28, 499-530.	0.4	3
123	The fractional chromatic number of triangle-free subcubic graphs. <i>European Journal of Combinatorics</i> , 2014, 35, 184-220.	0.8	3
124	First order limits of sparse graphs: Plane trees and path-width. <i>Random Structures and Algorithms</i> , 2017, 50, 612-635.	1.1	3
125	Infinite-dimensional finitely forcible graphon. <i>Proceedings of the London Mathematical Society</i> , 2019, 118, 826-856.	1.3	3
126	Cycles of length three and four in tournaments. <i>Journal of Combinatorial Theory - Series A</i> , 2020, 175, 105276.	0.8	3

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127	Cyclic coloring of plane graphs with maximum face size 16 and 17. <i>European Journal of Combinatorics</i> , 2021, 94, 103287.	0.8	3
128	Three-coloring triangle-free graphs on surfaces VII. A linear-time algorithm. <i>Journal of Combinatorial Theory Series B</i> , 2022, 152, 483-504.	1.0	3
129	Locally Consistent Constraint Satisfaction Problems with Binary Constraints. <i>Lecture Notes in Computer Science</i> , 2005, , 295-306.	1.3	3
130	Complexity Note on Mixed Hypergraphs. <i>Lecture Notes in Computer Science</i> , 2001, , 474-485.	1.3	3
131	Decomposition Width of Matroids. <i>Lecture Notes in Computer Science</i> , 2010, , 55-66.	1.3	3
132	Non-Bipartite K-Common Graphs. <i>Combinatorica</i> , 2022, 42, 87-114.	1.2	3
133	Non-rainbow colorings of 3- and 5-connected plane graphs. <i>Journal of Graph Theory</i> , 2010, 63, 129-145.	0.9	2
134	Distance constrained labelings of K -free graphs. <i>Discrete Mathematics</i> , 2009, 309, 5745-5756.	0.7	2
135	A note on antisymmetric flows in graphs. <i>European Journal of Combinatorics</i> , 2010, 31, 320-324.	0.8	2
136	The Last Fraction of a Fractional Conjecture. <i>SIAM Journal on Discrete Mathematics</i> , 2010, 24, 699-707.	0.8	2
137	Fractional total colourings of graphs of high girth. <i>Journal of Combinatorial Theory Series B</i> , 2011, 101, 383-402.	1.0	2
138	Triangles in arrangements of points and lines in the plane. <i>Journal of Combinatorial Theory - Series A</i> , 2011, 118, 1140-1142.	0.8	2
139	Extending Fractional Precolorings. <i>SIAM Journal on Discrete Mathematics</i> , 2012, 26, 647-660.	0.8	2
140	A superlinear bound on the number of perfect matchings in cubic bridgeless graphs. <i>European Journal of Combinatorics</i> , 2012, 33, 767-798.	0.8	2
141	An application of flag algebras to a problem of Erdős's and Sós's. <i>Electronic Notes in Discrete Mathematics</i> , 2013, 43, 171-177.	0.4	2
142	First-Order Convergence and Roots. <i>Combinatorics Probability and Computing</i> , 2016, 25, 213-221.	1.3	2
143	Using Kerr Microscopy for Direct Observation of Magnetic Domains in Ni-Mn-Ga Magnetic Shape Memory Alloy. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	2.1	2
144	Locally Consistent Constraint Satisfaction Problems. <i>Lecture Notes in Computer Science</i> , 2004, , 469-480.	1.3	2

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163	List colorings with measurable sets. <i>Journal of Graph Theory</i> , 2008, 59, 229-238.	0.9	0
164	Six-Critical Graphs on the Klein Bottle. <i>Electronic Notes in Discrete Mathematics</i> , 2008, 31, 235-240.	0.4	0
165	Polynomial-Size Binary Decision Diagrams for the Exactly Half-d-Hyperclique Problem Reading Each Input Bit Twice. <i>Theory of Computing Systems</i> , 2009, 45, 27-42.	1.1	0
166	Circular edge-colorings of cubic graphs with girth six. <i>Electronic Notes in Discrete Mathematics</i> , 2009, 34, 525-529.	0.4	0
167	Equipartite polytopes. <i>Israel Journal of Mathematics</i> , 2010, 179, 235-252.	0.8	0
168	Limit Behavior of Locally Consistent Constraint Satisfaction Problems. <i>SIAM Journal on Discrete Mathematics</i> , 2011, 25, 916-933.	0.8	0
169	Extensions of Fractional Precolorings Show Discontinuous Behavior. <i>Journal of Graph Theory</i> , 2014, 77, 299-329.	0.9	0
170	Third case of the Cyclic Coloring Conjecture. <i>Electronic Notes in Discrete Mathematics</i> , 2015, 49, 11-15.	0.4	0
171	Weak regularity and finitely forcible graph limits. <i>Electronic Notes in Discrete Mathematics</i> , 2015, 49, 139-143.	0.4	0
172	Extremal graph theory and finite forcibility. <i>Electronic Notes in Discrete Mathematics</i> , 2017, 61, 541-547.	0.4	0
173	Strong Modeling Limits of Graphs with Bounded Tree-Width. <i>Trends in Mathematics</i> , 2021, , 273-279.	0.1	0
174	Coloring graphs by translates in the circle. <i>European Journal of Combinatorics</i> , 2021, 96, 103346.	0.8	0
175	Complexity of Pattern Coloring of Cycle Systems. <i>Lecture Notes in Computer Science</i> , 2002, , 164-175.	1.3	0
176	An Asymptotically Optimal Linear-Time Algorithm for Locally Consistent Constraint Satisfaction Problems. <i>Lecture Notes in Computer Science</i> , 2005, , 603-614.	1.3	0
177	Coloring Triangle-Free Graphs on Surfaces. , 2007, , 2-4.		0