Stanislav Jendrol

List of Publications by Year
in descending order

119	1,228	430874 18	477307 29
papers	citations	h-index	g-index

126	126	126	244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On irregular total labellings. Discrete Mathematics, 2007, 307, 1378-1388.	0.7	195
2	Light subgraphs of graphs embedded in the planeâ€”A survey. Discrete Mathematics, 2013, 313, 406-421.	0.7	64
3	Total edge irregularity strength of complete graphs and complete bipartite graphs. Discrete Mathematics, 2010, 310, 400-407.	0.7	61
4	Subgraphs with Restricted Degrees of Their Vertices in Planar 3-Connected Graphs. Graphs and Combinatorics, 1997, 13, 245-250.	0.4	41
5	Total Edge Irregularity Strength of Complete Graphs and Complete Bipartite Graphs. Electronic Notes in Discrete Mathematics, 2007, 28, 281-285.	0.4	37
6	Rainbow numbers for matchings in plane triangulations. Discrete Mathematics, 2014, 331, 158-164.	0.7	29
7	Cyclic Chromatic Number of 3-Connected Plane Graphs. SIAM Journal on Discrete Mathematics, 2001, 14, 121-137.	0.8	27
8	Rainbow Numbers for Cycles in Plane Triangulations. Journal of Graph Theory, 2015, 78, 248-257.	0.9	26
9	A Structural Property of Convex 3-Polytopes. Geometriae Dedicata, 1997, 68, 91-99.	0.3	25
10	Triangles with restricted degrees of their boundary vertices in plane triangulations. Discrete Mathematics, 1999, 196, 177-196.	0.7	24
11	Paths with restricted degrees of their vertices in planar graphs. Czechoslovak Mathematical Journal, 1999, 49, 481-490.	0.3	23
12	On vertex-degree restricted paths in polyhedral graphs. Discrete Mathematics, 2000, 212, 61-73.	0.7	23
13	Describing short paths in plane graphs of girth at least 5. Discrete Mathematics, 2015, 338, 149-158.	0.7	22
14	Nonrepetitive vertex colorings of graphs. Discrete Mathematics, 2012, 312, 374-380.	0.7	20
15	Facially-constrained colorings of plane graphs: A survey. Discrete Mathematics, 2017, 340, 2691-2703.	0.7	20
16	Conflict-free connections of graphs. Discussiones Mathematicae - Graph Theory, 2018, 38, 911.	0.3	20
17	Subgraphs with restricted degrees of their vertices in planar graphs. Discrete Mathematics, 1998, 191, 83-90.	0.7	18
18	On light cycles in plane triangulations. Discrete Mathematics, 1999, 197-198, 453-467.	0.7	18

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19	The irregularity strength and cost of the union of cliques. Discrete Mathematics, 1996, 150, 179-186.	0.7	16
20	On the Existence of Specific Stars in Planar Graphs. Graphs and Combinatorics, 2007, 23, 529-543.	0.4	15
21	Facial non-repetitive edge-coloring of plane graphs. Journal of Graph Theory, 2011, 66, 38-48.	0.9	15
22	Colouring vertices of plane graphs under restrictions given by faces. Discussiones Mathematicae - Graph Theory, 2009, 29, 521.	0.3	15
23	On 3-Connected Plane Graphs without Triangular Faces. Journal of Combinatorial Theory Series B, 1999, 77, 150-161.	1.0	14
24	On the simplicial 3-polytopes with only two types of edges. Discrete Mathematics, 1984, 48, 229-241.	0.7	13
25	A Survey of Irregularity Strength. Electronic Notes in Discrete Mathematics, 2015, 48, 19-26.	0.4	13
26	Note on 3-paths in plane graphs of girth 4. Discrete Mathematics, 2015, 338, 1643-1648.	0.7	13
27	A non-involutory selfduality. Discrete Mathematics, 1989, 74, 325-326.	0.7	12
28	On vertex types and cyclic colourings of 3-connected plane graphs. Discrete Mathematics, 2000, 212, 101-109.	0.7	12
29	Local structures in plane maps and distance colourings. Discrete Mathematics, 2001, 236, 167-177.	0.7	12
30	On Light Graphs in 3-Connected Plane Graphs Without Triangular or Quadrangular Faces. Graphs and Combinatorics, 2001, 17, 659-680.	0.4	11
31	Facial parity edge colouring of plane pseudographs. Discrete Mathematics, 2012, 312, 2735-2740.	0.7	11
32	Entire Labeling of Plane Graphs. Applied Mathematics and Information Sciences, 2015, 9, 263-267.	0.5	11
33	On a conjecture by B. GrÃ¼nbaum. Discrete Mathematics, 1972, 2, 35-49.	0.7	10
34	A local property of polyhedral maps on compact two-dimensional manifolds. Discrete Mathematics, 2000, 212, 111-120.	0.7	10
35	On a Max-min Problem Concerning Weights of Edges. Combinatorica, 2001, 21, 351-359.	1.2	10
36	Rainbowness of cubic plane graphs. Discrete Mathematics, 2006, 306, 3321-3326.	0.7	10

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37	Unique-maximum edge-colouring of plane graphs with respect to faces. Discrete Applied Mathematics, 2015, 185, 239-243.	0.9	10
38	Graphs with Conflict-Free Connection Number Two. Graphs and Combinatorics, 2018, 34, 1553-1563.	0.4	10
39	Longest cycles in generalized Buckminsterfullerene graphs. Journal of Mathematical Chemistry, 1995, 18, 83-90.	1.5	9
40	A Local Property of Large Polyhedral Maps on Compact 2-Dimensional Manifolds. Graphs and Combinatorics, 1999, 15, 303-313.	0.4	9
41	Rainbow faces in edgeâ€colored plane graphs. Journal of Graph Theory, 2009, 62, 84-99.	0.9	9
42	On the crossing numbers of $S_m imes P_n$ and $S_m imes C_n$. ÄŒasopis Pro PÄ›stovÃ¡nÃ-Matematiky, 1982, 107, 225-230.	0.1	9
43	Convex 3-polytopes with exactly two types of edges. Discrete Mathematics, 1990, 84, 143-160.	0.7	8
44	On some properties of 4-regular plane graphs. Journal of Graph Theory, 1995, 20, 163-175.	0.9	8
45	The irregularity strength of tKp. Discrete Mathematics, 1995, 145, 301-305.	0.7	8
46	On rainbowness of semiregular polyhedra. Czechoslovak Mathematical Journal, 2008, 58, 359-380.	0.3	8
47	Facial packing edge-coloring of plane graphs. Discrete Applied Mathematics, 2016, 213, 71-75.	0.9	8
48	On the Toroidal Analogue of Eberhard's Theorem. Proceedings of the London Mathematical Society, 1972, s3-25, 385-398.	1.3	7
49	On a class of Hamiltonian polytopes. Discrete Mathematics, 1988, 71, 233-241.	0.7	7
50	On face vectors and vertex vectors of convex polyhedra. Discrete Mathematics, 1993, 118, 119-144.	0.7	7
51	Light subgraphs of order at most 3 in large maps of minimum degree 5 on compact 2-manifolds. European Journal of Combinatorics, 2005, 26, 457-471.	0.8	7
52	Parity vertex colouring of plane graphs. Discrete Mathematics, 2011, 311, 512-520.	0.7	7
53	On vertices enforcing a Hamiltonian cycle. Discussiones Mathematicae - Graph Theory, 2013, 33, 71.	0.3	7
54	Facial list colourings of plane graphs. Discrete Mathematics, 2016, 339, 2826-2831.	0.7	7

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55	Facial parity edge colouring. Ars Mathematica Contemporanea, 2011, 4, 255-269.	0.6	7
56	Parity vertex colouring of graphs. Discussiones Mathematicae - Graph Theory, 2011, 31, 183.	0.3	7
57	Exact Numbers of Longest Cycles with Empty Intersection. European Journal of Combinatorics, 1997, 18, 575-578.	0.8	6
58	On the d-distance face chromatic number of plane graphs. Discrete Mathematics, 1997, 164, 171-174.	0.7	6
59	More Icosahedral Fulleroids. Journal of Mathematical Chemistry, 2001, 29, 235-243.	1.5	6
60	List coloring of Cartesian products of graphs. Discrete Mathematics, 2006, 306, 1955-1958.	0.7	6
61	Independence number and vertex-disjoint cycles. Discrete Mathematics, 2007, 307, 1493-1498.	0.7	6
62	On octahedral fulleroids. Discrete Applied Mathematics, 2007, 155, 2181-2186.	0.9	6
63	Upper bounds on the sum of powers of the degrees of a simple planar graph. Journal of Graph Theory, 2011, 67, 112-123.	0.9	6
64	Optimal unavoidable sets of types of 3-paths for planar graphs of given girth. Discrete Mathematics, 2016, 339, 780-789.	0.7	6
65	On graphs whose line graphs have crossing number one. Journal of Graph Theory, 2001, 37, 181-188.	0.9	5
66	Facial entire colouring of plane graphs. Discrete Mathematics, 2016, 339, 626-631.	0.7	5
67	On rainbow matchings in plane triangulations. Discrete Mathematics, 2019, 342, 111624.	0.7	5
68	3-path in graphs with bounded average degree. Discussiones Mathematicae - Graph Theory, 2016, 36, 339.	0.3	5
69	Conflict-free vertex-connections of graphs. Discussiones Mathematicae - Graph Theory, 2020, 40, 51.	0.3	5
70	Subgraphs with Restricted Degrees of their Vertices in Large Polyhedral Maps on Compact Two-manifolds. European Journal of Combinatorics, 1999, 20, 821-832.	0.8	4
71	Light paths with an odd number of vertices in polyhedral maps. Czechoslovak Mathematical Journal, 2000, 50, 555-564.	0.3	4
72	Light subgraphs of multigraphs on compact 2-dimensional manifolds. Discrete Mathematics, 2001, 233, 329-351.	0.7	4

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73	On Specific Factors in Graphs. Graphs and Combinatorics, 2020, 36, 1391-1399.	0.4	4
74	On quadrangular convex 3-polytopes with at most two types of edges. Discrete Mathematics, 1989, 78, 297-305.	0.7	3
75	Pentagonal 3-polytopal graphs with edges of only two types and shortness parameters. Discrete Mathematics, 1995, 137, 251-263.	0.7	3
76	Matchings and Nonrainbow Colorings. SIAM Journal on Discrete Mathematics, 2009, 23, 344-348.	0.8	3
77	On maximum weight of a bipartite graph of given order and size. Discussiones Mathematicae - Graph Theory, 2013, 33, 147.	0.3	3
78	A note on face coloring entire weightings of plane graphs. Discussiones Mathematicae - Graph Theory, 2014, 34, 421.	0.3	3
79	Odd connection and odd vertex-connection of graphs. Discrete Mathematics, 2018, 341, 3500-3512.	0.7	3
80	Facial Colorings of Plane Graphs. Journal of Interconnection Networks, 2019, 19, 1940003.	1.0	3
81	Facial packing vertex-coloring of subdivided plane graphs. Discrete Applied Mathematics, 2019, 257, 95-100.	0.9	3
82	On graphs with given neighbourhoods. ÄŒasopis Pro PÄ›stovÃ¡nÃ-Matematiky, 1989, 114, 146-154.	0.1	3
83	WORM colorings of planar graphs. Discussiones Mathematicae - Graph Theory, 2017, 37, 353.	0.3	3
84	On a problem of J. Zaks concerning 5-valent 3-connected planar graphs. Discrete Mathematics, 1984, 50, 231-237.	0.7	2
85	On weights of induced paths and cycles in claw-free andK1,r-free graphs. Journal of Graph Theory, 2001, 36, 131-143.	0.9	2
86	Two local and one global properties of 3-connected graphs on compact 2-dimensional manifolds. Journal of Combinatorial Theory Series B, 2005, 93, 1-21.	1.0	2
87	Looseness of Plane Graphs. Graphs and Combinatorics, 2011, 27, 73-85.	0.4	2
88	A Dirac theorem for trestles. Discrete Mathematics, 2012, 312, 2000-2004.	0.7	2
89	A note on vertex colorings of plane graphs. Discussiones Mathematicae - Graph Theory, 2014, 34, 849.	0.3	2
90	On a conjecture by Plummer and Toft. Journal of Graph Theory, 1999, 30, 177-189.	0.9	2

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91	On longest cycles in essentially 4-connected planar graphs. Discussiones Mathematicae - Graph Theory, 2016, 36, 565.	0.3	2
92	Facial rainbow coloring of plane graphs. Discussiones Mathematicae - Graph Theory, 2019, 39, 889.	0.3	2
93	Zig-zag facial total-coloring of plane graphs. Opuscula Mathematica, 2018, 38, 819.	0.8	2
94	W v cycles in plane graphs. Geometriae Dedicata, 1995, 55, 293-303.	0.3	1
95	Light subgraphs of multigraphs embedded in compact 2-manifolds. Electronic Notes in Discrete Mathematics, 2000, 5, 189-192.	0.4	1
96	Light Paths in Large Polyhedral Maps with Prescribed Minimum Degree. Electronic Notes in Discrete Mathematics, 2002, 11, 386-409.	0.4	1
97	Facial edge ranking of plane graphs. Discrete Applied Mathematics, 2015, 194, 60-64.	0.9	1
98	On the Maximum Weight of a Sparse Connected Graph of Given Order and Size. Graphs and Combinatorics, 2016, 32, 997-1012.	0.4	1
99	On the maximum weight of a dense connected graph of given order and size. Discrete Mathematics, 2016, 339, 1978-1984.	0.7	1
100	Facial anagram-free edge-coloring of plane graphs. Discrete Applied Mathematics, 2017, 230, 151-155.	0.9	1
101	Facial Rainbow Edge-Coloring of Plane Graphs. Graphs and Combinatorics, 2018, 34, 669-676.	0.4	1
102	Facial L(2,1)-edge-labelings of trees. Discrete Applied Mathematics, 2018, 247, 357-366.	0.9	1
103	Edge-coloring of plane multigraphs with many colors on facial cycles. Discrete Applied Mathematics, 2020, 282, 80-85.	0.9	1
104	A survey on the cyclic coloring and its relaxations. Discussiones Mathematicae - Graph Theory, 2021, 41, 5.	0.3	1
105	From Colourful to Rainbow Paths in Graphs: Colouring the Vertices. Graphs and Combinatorics, 2021, 37, 1823.	0.4	1
106	On the strong parity chromatic number. Discussiones Mathematicae - Graph Theory, 2011, 31, 587.	0.3	1
107	Maximum edge-colorings of graphs. Discussiones Mathematicae - Graph Theory, 2016, 36, 117.	0.3	1
108	On face-vectors of 5-valent convex 3-polytopes. Journal of Geometry, 1994, 50, 100-110.	0.4	0

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109	Rainbowness of plane graphs. Electronic Notes in Discrete Mathematics, 2007, 28, 125-129.	0.4	0
110	On Longest Cycles in Essentially 4-connected Planar Graphs. Electronic Notes in Discrete Mathematics, 2016, 55, 143-146.	0.4	0
111	Colourings of graphs by labellings. Electronic Notes in Discrete Mathematics, 2017, 60, 25-31.	0.4	0
112	On caterpillar factors in graphs. Theoretical Computer Science, 2020, 846, 82-90.	0.9	0
113	On the cyclic coloring conjecture. Discrete Mathematics, 2021, 344, 112204.	0.7	0
114	Colorings of plane graphs without long monochromatic facial paths. Discussiones Mathematicae - Graph Theory, 2021, 41, 801.	0.3	0
115	Lightweight paths in graphs. Opuscula Mathematica, 2019, 39, 829-837.	0.8	0
116	Facial [r.s,t]-colorings of plane graphs. Discussiones Mathematicae - Graph Theory, 2019, 39, 629.	0.3	0
117	Facial incidence colorings of embedded multigraphs. Discussiones Mathematicae - Graph Theory, 2019, 39, 81.	0.3	0
118	Graph polynomials and paintability of plane graphs. Discrete Applied Mathematics, 2022, 313, 71-79.	0.9	0
119	Facial Visibility in Edge Colored Plane Graphs. Graphs and Combinatorics, 2022, 38, 1.	0.4	0