

# Vadim Lozin

## List of Publications by Year in descending order

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121  
papers

1,872  
citations

257101

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315357

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125  
docs citations

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times ranked

476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deciding $k$ -Colorability of $P_5$ -Free Graphs in Polynomial Time. <i>Algorithmica</i> , 2010, 57, 74-81.	1.0	115
2	Recent developments on graphs of bounded clique-width. <i>Discrete Applied Mathematics</i> , 2009, 157, 2747-2761.	0.5	85
3	A polynomial algorithm to find an independent set of maximum weight in a fork-free graph. <i>Journal of Discrete Algorithms</i> , 2008, 6, 595-604.	0.7	82
4	On maximum induced matchings in bipartite graphs. <i>Information Processing Letters</i> , 2002, 81, 7-11.	0.4	78
5	Some results on graphs without long induced paths. <i>Information Processing Letters</i> , 2003, 88, 167-171.	0.4	68
6	NP-hard graph problems and boundary classes of graphs. <i>Theoretical Computer Science</i> , 2007, 389, 219-236.	0.5	59
7	On the Band-, Tree-, and Clique-Width of Graphs with Bounded Vertex Degree. <i>SIAM Journal on Discrete Mathematics</i> , 2004, 18, 195-206.	0.4	55
8	Clique-Width for 4-Vertex Forbidden Subgraphs. <i>Theory of Computing Systems</i> , 2006, 39, 561-590.	0.7	53
9	Independent sets in extensions of $K_4$ . <i>Journal of Discrete Algorithms</i> , 2008, 6, 595-604.	0.5	46
10	Independent Sets of Maximum Weight in Apple-Free Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2010, 24, 239-254.	0.4	42
11	Colouring vertices of triangle-free graphs without forests. <i>Discrete Mathematics</i> , 2012, 312, 1372-1385.	0.4	40
12	Two forbidden induced subgraphs and well-quasi-ordering. <i>Discrete Mathematics</i> , 2011, 311, 1813-1822.	0.4	36
13	On the Clique-Width of Graphs in Hereditary Classes. <i>Lecture Notes in Computer Science</i> , 2002, , 44-54.	1.0	35
14	Boundary classes of graphs for the dominating set problem. <i>Discrete Mathematics</i> , 2004, 285, 1-6.	0.4	34
15	On the stable set problem in special $P_5$ -free graphs. <i>Discrete Applied Mathematics</i> , 2003, 125, 215-224.	0.5	33
16	Maximum $k$ -regular induced subgraphs. <i>Journal of Combinatorial Optimization</i> , 2007, 14, 455-463.	0.8	33
17	On the complexity of the dominating induced matching problem in hereditary classes of graphs. <i>Discrete Applied Mathematics</i> , 2011, 159, 521-531.	0.5	33
18	THE CLIQUE-WIDTH OF BIPARTITE GRAPHS IN MONOGENIC CLASSES. <i>International Journal of Foundations of Computer Science</i> , 2008, 19, 477-494.	0.8	32

#	ARTICLE	IF	CITATIONS
19	Vertex coloring of graphs with few obstructions. <i>Discrete Applied Mathematics</i> , 2017, 216, 273-280.	0.5	31
20	Stability in P5- and banner-free graphs. <i>European Journal of Operational Research</i> , 2000, 125, 292-297.	3.5	30
21	Recent advances in the theory and practice of Logical Analysis of Data. <i>European Journal of Operational Research</i> , 2019, 275, 1-15.	3.5	30
22	Three Approaches to Data Analysis. <i>Intelligent Systems Reference Library</i> , 2013, , .	1.0	29
23	A note on $\hat{L}$ -redundant vertices in graphs. <i>Discrete Applied Mathematics</i> , 2001, 108, 301-308.	0.5	28
24	Minimal Classes of Graphs of Unbounded Clique-Width. <i>Annals of Combinatorics</i> , 2011, 15, 707-722.	0.3	28
25	The 3-Colorability Problem on Graphs with Maximum Degree Four. <i>SIAM Journal on Computing</i> , 2003, 32, 1128-1139.	0.8	24
26	Chordal bipartite graphs of bounded tree- and clique-width. <i>Discrete Mathematics</i> , 2004, 283, 151-158.	0.4	24
27	Augmenting graphs for independent sets. <i>Discrete Applied Mathematics</i> , 2004, 145, 3-10.	0.5	24
28	On Independent Vertex Sets in Subclasses of $\hat{A}$ -Free Graphs. <i>Algorithmica</i> , 2010, 56, 383-393.	1.0	24
29	Words and Graphs. <i>Monographs in Theoretical Computer Science</i> , 2015, , .	0.6	23
30	Stable sets in two subclasses of banner-free graphs. <i>Discrete Applied Mathematics</i> , 2003, 132, 121-136.	0.5	22
31	Bisplit graphs. <i>Discrete Mathematics</i> , 2005, 299, 11-32.	0.4	22
32	The relative clique-width of a graph. <i>Journal of Combinatorial Theory Series B</i> , 2007, 97, 846-858.	0.6	21
33	Maximum independent sets in subclasses of $\hat{A}$ -free graphs. <i>Information Processing Letters</i> , 2009, 109, 319-324.	0.4	20
34	Labelled Induced Subgraphs and Well-Quasi-Ordering. <i>Order</i> , 2015, 32, 313-328.	0.3	20
35	Graphs Without Large Apples and the Maximum Weight Independent Set Problem. <i>Graphs and Combinatorics</i> , 2014, 30, 395-410.	0.2	18
36	On the Maximum Independent Set Problem in Subclasses of Planar Graphs. <i>Journal of Graph Algorithms and Applications</i> , 2010, 14, 269-286.	0.4	18

#	ARTICLE	IF	CITATIONS
37	On the maximum independent set problem in subclasses of subcubic graphs. <i>Journal of Discrete Algorithms</i> , 2015, 31, 104-112.	0.7	16
38	Bipartite induced subgraphs and well-quasi-ordering. <i>Journal of Graph Theory</i> , 2011, 67, 235-249.	0.5	15
39	Boundary Properties of Well-Quasi-Ordered Sets of Graphs. <i>Order</i> , 2013, 30, 723-735.	0.3	15
40	An augmenting graph approach to the stable set problem in P5-free graphs. <i>Discrete Applied Mathematics</i> , 2003, 131, 567-575.	0.5	14
41	On finding augmenting graphs. <i>Discrete Applied Mathematics</i> , 2008, 156, 2517-2529.	0.5	14
42	Implicit representations and factorial properties of graphs. <i>Discrete Mathematics</i> , 2015, 338, 164-179.	0.4	14
43	Struction revisited. <i>Discrete Applied Mathematics</i> , 2003, 132, 27-46.	0.5	13
44	Parameterized complexity of the weighted independent set problem beyond graphs of bounded clique number. <i>Journal of Discrete Algorithms</i> , 2012, 14, 207-213.	0.7	13
45	Boundary Classes of Planar Graphs. <i>Combinatorics Probability and Computing</i> , 2008, 17, 287-295.	0.8	12
46	Clique-Width and the Speed of Hereditary Properties. <i>Electronic Journal of Combinatorics</i> , 2009, 16, .	0.2	12
47	Robust Algorithms for the Stable Set Problem. <i>Graphs and Combinatorics</i> , 2003, 19, 347-356.	0.2	11
48	Finding augmenting chains in extensions of claw-free graphs. <i>Information Processing Letters</i> , 2003, 86, 311-316.	0.4	11
49	Dominating induced matchings in graphs without a skew star. <i>Journal of Discrete Algorithms</i> , 2014, 26, 45-55.	0.7	11
50	The Maximum Independent Set Problem in Planar Graphs. <i>Lecture Notes in Computer Science</i> , 2008, , 96-107.	1.0	11
51	Parameterized Algorithms for the Independent Set Problem in Some Hereditary Graph Classes. <i>Lecture Notes in Computer Science</i> , 2011, , 1-9.	1.0	10
52	Boundary Properties of Factorial Classes of Graphs. <i>Journal of Graph Theory</i> , 2015, 78, 207-218.	0.5	9
53	New results on word-representable graphs. <i>Discrete Applied Mathematics</i> , 2017, 216, 136-141.	0.5	9
54	Independent sets of maximum weight in $(p,q)$ -colorable graphs. <i>Discrete Mathematics</i> , 2003, 265, 351-356.	0.4	8

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55	Polar graphs and maximal independent sets. <i>Discrete Mathematics</i> , 2006, 306, 2901-2908.	0.4	8
56	From matchings to independent sets. <i>Discrete Applied Mathematics</i> , 2017, 231, 4-14.	0.5	8
57	Dominating induced matchings in graphs containing no long claw. <i>Journal of Graph Theory</i> , 2018, 88, 18-39.	0.5	8
58	Tree-width dichotomy. <i>European Journal of Combinatorics</i> , 2022, 103, 103517.	0.5	8
59	Local transformations of graphs preserving independence number. <i>Discrete Applied Mathematics</i> , 2004, 135, 17-30.	0.5	7
60	A decidability result for the dominating set problem. <i>Theoretical Computer Science</i> , 2010, 411, 4023-4027.	0.5	7
61	Colouring Vertices of Triangle-Free Graphs. <i>Lecture Notes in Computer Science</i> , 2010, , 184-195.	1.0	7
62	Canonical Antichains of Unit Interval and Bipartite Permutation Graphs. <i>Order</i> , 2011, 28, 513-522.	0.3	7
63	Critical properties of graphs of bounded clique-width. <i>Discrete Mathematics</i> , 2013, 313, 1035-1044.	0.4	7
64	Split Permutation Graphs. <i>Graphs and Combinatorics</i> , 2014, 30, 633-646.	0.2	7
65	Infinitely many minimal classes of graphs of unbounded clique-width. <i>Discrete Applied Mathematics</i> , 2018, 248, 145-152.	0.5	7
66	Graph functionality. <i>Journal of Combinatorial Theory Series B</i> , 2021, 147, 139-158.	0.6	7
67	A Note on $k$ -Colorability of $P_5$ -Free Graphs. <i>Lecture Notes in Computer Science</i> , 2008, , 387-394.	1.0	7
68	Boundary properties of the satisfiability problems. <i>Information Processing Letters</i> , 2013, 113, 313-317.	0.4	6
69	Independent domination in finitely defined classes of graphs: Polynomial algorithms. <i>Discrete Applied Mathematics</i> , 2015, 182, 2-14.	0.5	6
70	Well-quasi-ordering versus clique-width. <i>Journal of Combinatorial Theory Series B</i> , 2018, 130, 1-18.	0.6	6
71	Graph Parameters and Ramsey Theory. <i>Lecture Notes in Computer Science</i> , 2018, , 185-194.	1.0	6
72	Letter graphs and geometric grid classes of permutations: Characterization and recognition. <i>Discrete Applied Mathematics</i> , 2020, 283, 482-494.	0.5	6

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73	Stability preserving transformations of graphs. <i>Annals of Operations Research</i> , 2011, 188, 331-341.	2.6	5
74	On factorial properties of chordal bipartite graphs. <i>Discrete Mathematics</i> , 2012, 312, 2457-2465.	0.4	5
75	Locally bounded coverings and factorial properties of graphs. <i>European Journal of Combinatorics</i> , 2012, 33, 534-543.	0.5	5
76	Sparse regular induced subgraphs in $2P_3$ -free graphs. <i>Discrete Optimization</i> , 2013, 10, 304-309.	0.6	5
77	Well quasi-order in combinatorics: embeddings and homomorphisms. , 2015, , 261-294.		5
78	Deciding the Bell Number for Hereditary Graph Properties. <i>SIAM Journal on Discrete Mathematics</i> , 2016, 30, 1015-1031.	0.4	5
79	Combinatorics and Algorithms for Augmenting Graphs. <i>Graphs and Combinatorics</i> , 2016, 32, 1339-1352.	0.2	5
80	The structure and the number of $P$ $\times$ $7$ bipartite graphs. <i>European Journal of Combinatorics</i> , 2017, 65, 143-153.	0.5	5
81	Upper Domination: Towards a Dichotomy Through Boundary Properties. <i>Algorithmica</i> , 2018, 80, 2799-2817.	1.0	5
82	A Dichotomy for Upper Domination in Monogenic Classes. <i>Lecture Notes in Computer Science</i> , 2014, , 258-267.	1.0	5
83	Augmenting chains in graphs without a skew star. <i>Journal of Combinatorial Theory Series B</i> , 2006, 96, 352-366.	0.6	4
84	Clique-Width for Graph Classes Closed under Complementation. <i>SIAM Journal on Discrete Mathematics</i> , 2020, 34, 1107-1147.	0.4	4
85	Graph classes with linear Ramsey numbers. <i>Discrete Mathematics</i> , 2021, 344, 112307.	0.4	4
86	On the Maximum Independent Set Problem in Subclasses of Subcubic Graphs. <i>Lecture Notes in Computer Science</i> , 2013, , 314-326.	1.0	4
87	An attractive class of bipartite graphs. <i>Discussiones Mathematicae - Graph Theory</i> , 2001, 21, 293.	0.2	4
88	Tree-Width and Optimization in Bounded Degree Graphs. , 2007, , 45-54.		3
89	Gearing optimization. <i>Optimization and Engineering</i> , 2008, 9, 201-211.	1.3	3
90	Efficient domination through eigenvalues. <i>Discrete Applied Mathematics</i> , 2016, 214, 54-62.	0.5	3

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91	More results on weighted independent domination. Theoretical Computer Science, 2017, 700, 63-74.	0.5	3
92	WQO is decidable for factorial languages. Information and Computation, 2017, 256, 321-333.	0.5	3
93	Well-Quasi-Ordering versus Clique-Width: New Results on Bigenic Classes. Order, 2018, 35, 253-274.	0.3	3
94	Linear read-once and related Boolean functions. Discrete Applied Mathematics, 2018, 250, 16-27.	0.5	3
95	Linear Ramsey Numbers. Lecture Notes in Computer Science, 2018, , 26-38.	1.0	3
96	Well-Quasi-Order for Permutation Graphs Omitting a Path and a Clique. Electronic Journal of Combinatorics, 2015, 22, .	0.2	3
97	The micro-world of cographs. Discrete Applied Mathematics, 2022, 312, 3-14.	0.5	3
98	Between 2- and 3-colorability. Information Processing Letters, 2005, 94, 179-182.	0.4	2
99	Parameterized complexity of the maximum independent set problem and the speed of hereditary properties. Electronic Notes in Discrete Mathematics, 2009, 34, 127-131.	0.4	2
100	On hereditary properties of the class of graphs with convex quadratic stability number. Journal of Mathematical Sciences, 2012, 182, 227-232.	0.1	2
101	Coloring vertices of claw-free graphs in three colors. Journal of Combinatorial Optimization, 2014, 28, 462-479.	0.8	2
102	A Boundary Property for Upper Domination. Lecture Notes in Computer Science, 2016, , 229-240.	1.0	2
103	Perfect edge domination: hard and solvable cases. Annals of Operations Research, 2018, 264, 287-305.	2.6	2
104	Independent domination versus weighted independent domination. Information Processing Letters, 2020, 156, 105914.	0.4	2
105	Between clique-width and linear clique-width of bipartite graphs. Discrete Mathematics, 2020, 343, 111926.	0.4	2
106	Letter Graphs and Geometric Grid Classes of Permutations: Characterization and Recognition. Lecture Notes in Computer Science, 2018, , 195-205.	1.0	2
107	Stable- $\hat{1}$ partitions of graphs. Discrete Applied Mathematics, 2015, 182, 104-114.	0.5	1
108	Bichain graphs: Geometric model and universal graphs. Discrete Applied Mathematics, 2016, 199, 16-29.	0.5	1

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109	The structure and the number of $P_7$ -free bipartite graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2017, 61, 827-833.	0.4	1
110	New Results on Weighted Independent Domination. <i>Lecture Notes in Computer Science</i> , 2017, , 399-411.	1.0	1
111	Linear Clique-Width of Bi-complement Reducible Graphs. <i>Lecture Notes in Computer Science</i> , 2018, , 14-25.	1.0	1
112	From Words to Graphs, and Back. <i>Lecture Notes in Computer Science</i> , 2019, , 43-54.	1.0	1
113	Combinatorics and Algorithms for Quasi-chain Graphs. <i>Lecture Notes in Computer Science</i> , 2021, , 49-62.	1.0	1
114	Graph Functionality. <i>Lecture Notes in Computer Science</i> , 2019, , 135-147.	1.0	1
115	Maximum Independent Sets in Subcubic Graphs: New Results. <i>Lecture Notes in Computer Science</i> , 2019, , 40-52.	1.0	1
116	Graph Parameters, Implicit Representations and Factorial Properties. <i>Lecture Notes in Computer Science</i> , 2022, , 60-72.	1.0	1
117	DIMAP Workshop on Algorithmic Graph Theory. <i>Electronic Notes in Discrete Mathematics</i> , 2009, 32, 1.	0.4	0
118	GO VII Meeting, Ovronnaz (CH), June 13–17, 2010. <i>Discrete Applied Mathematics</i> , 2013, 161, 453.	0.5	0
119	Deciding WQO for Factorial Languages. <i>Lecture Notes in Computer Science</i> , 2013, , 68-79.	1.0	0
120	Critical Properties and Complexity Measures of Read-Once Boolean Functions. <i>Annals of Mathematics and Artificial Intelligence</i> , 2021, 89, 595.	0.9	0
121	Graphs without large bicliques and well-quasi-orderability by the induced subgraph relation. <i>Electronic Journal of Combinatorics</i> , 2019, 10, 327-337.	0.1	0