

Vadim Lozin

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

1,872
citations

257101

24
h-index

315357

38
g-index

125
all docs

125
docs citations

125
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	The micro-world of cographs. <i>Discrete Applied Mathematics</i> , 2022, 312, 3-14.	0.5	3
2	Tree-width dichotomy. <i>European Journal of Combinatorics</i> , 2022, 103, 103517.	0.5	8
3	Graph Parameters, Implicit Representations and Factorial Properties. <i>Lecture Notes in Computer Science</i> , 2022, , 60-72.	1.0	1
4	Graph functionality. <i>Journal of Combinatorial Theory Series B</i> , 2021, 147, 139-158.	0.6	7
5	Combinatorics and Algorithms for Quasi-chain Graphs. <i>Lecture Notes in Computer Science</i> , 2021, , 49-62.	1.0	1
6	Critical Properties and Complexity Measures of Read-Once Boolean Functions. <i>Annals of Mathematics and Artificial Intelligence</i> , 2021, 89, 595.	0.9	0
7	Graph classes with linear Ramsey numbers. <i>Discrete Mathematics</i> , 2021, 344, 112307.	0.4	4
8	Clique-Width for Graph Classes Closed under Complementation. <i>SIAM Journal on Discrete Mathematics</i> , 2020, 34, 1107-1147.	0.4	4
9	Independent domination versus weighted independent domination. <i>Information Processing Letters</i> , 2020, 156, 105914.	0.4	2
10	Between clique-width and linear clique-width of bipartite graphs. <i>Discrete Mathematics</i> , 2020, 343, 111926.	0.4	2
11	Letter graphs and geometric grid classes of permutations: Characterization and recognition. <i>Discrete Applied Mathematics</i> , 2020, 283, 482-494.	0.5	6
12	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
13	From Words to Graphs, and Back. <i>Lecture Notes in Computer Science</i> , 2019, , 43-54.	1.0	1
14	Graph Functionality. <i>Lecture Notes in Computer Science</i> , 2019, , 135-147.	1.0	1
15	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
16	Maximum Independent Sets in Subcubic Graphs: New Results. <i>Lecture Notes in Computer Science</i> , 2019, , 40-52.	1.0	1
17	Infinitely many minimal classes of graphs of unbounded clique-width. <i>Discrete Applied Mathematics</i> , 2018, 248, 145-152.	0.5	7
18	Well-quasi-ordering versus clique-width. <i>Journal of Combinatorial Theory Series B</i> , 2018, 130, 1-18.	0.6	6

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19	Perfect edge domination: hard and solvable cases. <i>Annals of Operations Research</i> , 2018, 264, 287-305.	2.6	2
20	Dominating induced matchings in graphs containing no long claw. <i>Journal of Graph Theory</i> , 2018, 88, 18-39.	0.5	8
21	Upper Domination: Towards a Dichotomy Through Boundary Properties. <i>Algorithmica</i> , 2018, 80, 2799-2817.	1.0	5
22	Well-Quasi-Ordering versus Clique-Width: New Results on Bigenic Classes. <i>Order</i> , 2018, 35, 253-274.	0.3	3
23	Linear read-once and related Boolean functions. <i>Discrete Applied Mathematics</i> , 2018, 250, 16-27.	0.5	3
24	Linear Clique-Width of Bi-complement Reducible Graphs. <i>Lecture Notes in Computer Science</i> , 2018, , 14-25.	1.0	1
25	Graph Parameters and Ramsey Theory. <i>Lecture Notes in Computer Science</i> , 2018, , 185-194.	1.0	6
26	Letter Graphs and Geometric Grid Classes of Permutations: Characterization and Recognition. <i>Lecture Notes in Computer Science</i> , 2018, , 195-205.	1.0	2
27	Linear Ramsey Numbers. <i>Lecture Notes in Computer Science</i> , 2018, , 26-38.	1.0	3
28	Vertex coloring of graphs with few obstructions. <i>Discrete Applied Mathematics</i> , 2017, 216, 273-280.	0.5	31
29	New results on word-representable graphs. <i>Discrete Applied Mathematics</i> , 2017, 216, 136-141.	0.5	9
30	From matchings to independent sets. <i>Discrete Applied Mathematics</i> , 2017, 231, 4-14.	0.5	8
31	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
32	More results on weighted independent domination. <i>Theoretical Computer Science</i> , 2017, 700, 63-74.	0.5	3
33	The structure and the number of P_7 -free bipartite graphs. <i>European Journal of Combinatorics</i> , 2017, 65, 143-153.	0.5	5
34	WQO is decidable for factorial languages. <i>Information and Computation</i> , 2017, 256, 321-333.	0.5	3
35	New Results on Weighted Independent Domination. <i>Lecture Notes in Computer Science</i> , 2017, , 399-411.	1.0	1
36	Efficient domination through eigenvalues. <i>Discrete Applied Mathematics</i> , 2016, 214, 54-62.	0.5	3

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37	A Boundary Property for Upper Domination. Lecture Notes in Computer Science, 2016, , 229-240.	1.0	2
38	Deciding the Bell Number for Hereditary Graph Properties. SIAM Journal on Discrete Mathematics, 2016, 30, 1015-1031.	0.4	5
39	Combinatorics and Algorithms for Augmenting Graphs. Graphs and Combinatorics, 2016, 32, 1339-1352.	0.2	5
40	Bichain graphs: Geometric model and universal graphs. Discrete Applied Mathematics, 2016, 199, 16-29.	0.5	1
41	Well quasi-order in combinatorics: embeddings and homomorphisms. , 2015, , 261-294.		5
42	Labelled Induced Subgraphs and Well-Quasi-Ordering. Order, 2015, 32, 313-328.	0.3	20
43	Boundary Properties of Factorial Classes of Graphs. Journal of Graph Theory, 2015, 78, 207-218.	0.5	9
44	On the maximum independent set problem in subclasses of subcubic graphs. Journal of Discrete Algorithms, 2015, 31, 104-112.	0.7	16
45	Words and Graphs. Monographs in Theoretical Computer Science, 2015, , .	0.6	23
46	Independent domination in finitely defined classes of graphs: Polynomial algorithms. Discrete Applied Mathematics, 2015, 182, 2-14.	0.5	6
47	Stable- $\hat{1}$ partitions of graphs. Discrete Applied Mathematics, 2015, 182, 104-114.	0.5	1
48	Implicit representations and factorial properties of graphs. Discrete Mathematics, 2015, 338, 164-179.	0.4	14
49	Well-Quasi-Order for Permutation Graphs Omitting a Path and a Clique. Electronic Journal of Combinatorics, 2015, 22, .	0.2	3
50	Coloring vertices of claw-free graphs in three colors. Journal of Combinatorial Optimization, 2014, 28, 462-479.	0.8	2
51	Split Permutation Graphs. Graphs and Combinatorics, 2014, 30, 633-646.	0.2	7
52	Graphs Without Large Apples and the Maximum Weight Independent Set Problem. Graphs and Combinatorics, 2014, 30, 395-410.	0.2	18
53	Dominating induced matchings in graphs without a skew star. Journal of Discrete Algorithms, 2014, 26, 45-55.	0.7	11
54	A Dichotomy for Upper Domination in Monogenic Classes. Lecture Notes in Computer Science, 2014, , 258-267.	1.0	5

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55	Boundary Properties of Well-Quasi-Ordered Sets of Graphs. <i>Order</i> , 2013, 30, 723-735.	0.3	15
56	Critical properties of graphs of bounded clique-width. <i>Discrete Mathematics</i> , 2013, 313, 1035-1044.	0.4	7
57	Three Approaches to Data Analysis. <i>Intelligent Systems Reference Library</i> , 2013, , .	1.0	29
58	GO VII Meeting, Ovronnaz (CH), June 13â€“17, 2010. <i>Discrete Applied Mathematics</i> , 2013, 161, 453.	0.5	0
59	Sparse regular induced subgraphs in P_3 -free graphs. <i>Discrete Optimization</i> , 2013, 10, 304-309.	0.6	5
60	Boundary properties of the satisfiability problems. <i>Information Processing Letters</i> , 2013, 113, 313-317.	0.4	6
61	Deciding WQO for Factorial Languages. <i>Lecture Notes in Computer Science</i> , 2013, , 68-79.	1.0	0
62	On the Maximum Independent Set Problem in Subclasses of Subcubic Graphs. <i>Lecture Notes in Computer Science</i> , 2013, , 314-326.	1.0	4
63	On hereditary properties of the class of graphs with convex quadratic stability number. <i>Journal of Mathematical Sciences</i> , 2012, 182, 227-232.	0.1	2
64	Colouring vertices of triangle-free graphs without forests. <i>Discrete Mathematics</i> , 2012, 312, 1372-1385.	0.4	40
65	On factorial properties of chordal bipartite graphs. <i>Discrete Mathematics</i> , 2012, 312, 2457-2465.	0.4	5
66	Locally bounded coverings and factorial properties of graphs. <i>European Journal of Combinatorics</i> , 2012, 33, 534-543.	0.5	5
67	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
68	Canonical Antichains of Unit Interval and Bipartite Permutation Graphs. <i>Order</i> , 2011, 28, 513-522.	0.3	7
69	Stability preserving transformations of graphs. <i>Annals of Operations Research</i> , 2011, 188, 331-341.	2.6	5
70	Minimal Classes of Graphs of Unbounded Clique-Width. <i>Annals of Combinatorics</i> , 2011, 15, 707-722.	0.3	28
71	Bipartite induced subgraphs and well-quasi-ordering. <i>Journal of Graph Theory</i> , 2011, 67, 235-249.	0.5	15
72	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

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73	Two forbidden induced subgraphs and well-quasi-ordering. <i>Discrete Mathematics</i> , 2011, 311, 1813-1822.	0.4	36
74	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
75	On Independent Vertex Sets in Subclasses of \hat{A} -Free Graphs. <i>Algorithmica</i> , 2010, 56, 383-393.	1.0	24
76	Deciding k -Colorability of P_5 -Free Graphs in \hat{A} -Polynomial Time. <i>Algorithmica</i> , 2010, 57, 74-81.	1.0	115
77	A decidability result for the dominating set problem. <i>Theoretical Computer Science</i> , 2010, 411, 4023-4027.	0.5	7
78	Independent Sets of Maximum Weight in \hat{A} -Free Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2010, 24, 239-254.	0.4	42
79	Colouring Vertices of Triangle-Free Graphs. <i>Lecture Notes in Computer Science</i> , 2010, , 184-195.	1.0	7
80	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
81	Recent developments on graphs of bounded clique-width. <i>Discrete Applied Mathematics</i> , 2009, 157, 2747-2761.	0.5	85
82	Parameterized complexity of the maximum independent set problem and the speed of hereditary properties. <i>Electronic Notes in Discrete Mathematics</i> , 2009, 34, 127-131.	0.4	2
83	Maximum independent sets in subclasses of \hat{A} -free graphs. <i>Information Processing Letters</i> , 2009, 109, 319-324.	0.4	20
84	DIMAP Workshop on Algorithmic Graph Theory. <i>Electronic Notes in Discrete Mathematics</i> , 2009, 32, 1.	0.4	0
85	Clique-Width and the Speed of Hereditary Properties. <i>Electronic Journal of Combinatorics</i> , 2009, 16, .	0.2	12
86	Gearing optimization. <i>Optimization and Engineering</i> , 2008, 9, 201-211.	1.3	3
87	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
88	On finding augmenting graphs. <i>Discrete Applied Mathematics</i> , 2008, 156, 2517-2529.	0.5	14
89	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
90	Boundary Classes of Planar Graphs. <i>Combinatorics Probability and Computing</i> , 2008, 17, 287-295.	0.8	12

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91	A Note on k -Colorability of P_5 -Free Graphs. Lecture Notes in Computer Science, 2008, , 387-394.	1.0	7
92	The Maximum Independent Set Problem in Planar Graphs. Lecture Notes in Computer Science, 2008, , 96-107.	1.0	11
93	Tree-Width and Optimization in Bounded Degree Graphs. , 2007, , 45-54.		3
94	NP-hard graph problems and boundary classes of graphs. Theoretical Computer Science, 2007, 389, 219-236.	0.5	59
95	The relative clique-width of a graph. Journal of Combinatorial Theory Series B, 2007, 97, 846-858.	0.6	21
96	Maximum k -regular induced subgraphs. Journal of Combinatorial Optimization, 2007, 14, 455-463.	0.8	33
97	Augmenting chains in graphs without a skew star. Journal of Combinatorial Theory Series B, 2006, 96, 352-366.	0.6	4
98	Clique-Width for 4-Vertex Forbidden Subgraphs. Theory of Computing Systems, 2006, 39, 561-590.	0.7	53
99	Polar graphs and maximal independent sets. Discrete Mathematics, 2006, 306, 2901-2908.	0.4	8
100	Between 2- and 3-colorability. Information Processing Letters, 2005, 94, 179-182.	0.4	2
101	Independent sets in extensions of K_4 . <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.co. Dis</small>	0.5	46
102	Bisplit graphs. Discrete Mathematics, 2005, 299, 11-32.	0.4	22
103	Chordal bipartite graphs of bounded tree- and clique-width. Discrete Mathematics, 2004, 283, 151-158.	0.4	24
104	Boundary classes of graphs for the dominating set problem. Discrete Mathematics, 2004, 285, 1-6.	0.4	34
105	Local transformations of graphs preserving independence number. Discrete Applied Mathematics, 2004, 135, 17-30.	0.5	7
106	Augmenting graphs for independent sets. Discrete Applied Mathematics, 2004, 145, 3-10.	0.5	24
107	On the Band-, Tree-, and Clique-Width of Graphs with Bounded Vertex Degree. SIAM Journal on Discrete Mathematics, 2004, 18, 195-206.	0.4	55
108	Robust Algorithms for the Stable Set Problem. Graphs and Combinatorics, 2003, 19, 347-356.	0.2	11

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109	Some results on graphs without long induced paths. Information Processing Letters, 2003, 88, 167-171.	0.4	68
110	Independent sets of maximum weight in (p,q)-colorable graphs. Discrete Mathematics, 2003, 265, 351-356.	0.4	8
111	Finding augmenting chains in extensions of claw-free graphs. Information Processing Letters, 2003, 86, 311-316.	0.4	11
112	On the stable set problem in special P5-free graphs. Discrete Applied Mathematics, 2003, 125, 215-224.	0.5	33
113	An augmenting graph approach to the stable set problem in P5-free graphs. Discrete Applied Mathematics, 2003, 131, 567-575.	0.5	14
114	Struction revisited. Discrete Applied Mathematics, 2003, 132, 27-46.	0.5	13
115	Stable sets in two subclasses of banner-free graphs. Discrete Applied Mathematics, 2003, 132, 121-136.	0.5	22
116	The 3-Colorability Problem on Graphs with Maximum Degree Four. SIAM Journal on Computing, 2003, 32, 1128-1139.	0.8	24
117	On maximum induced matchings in bipartite graphs. Information Processing Letters, 2002, 81, 7-11.	0.4	78
118	On the Clique-Width of Graphs in Hereditary Classes. Lecture Notes in Computer Science, 2002, , 44-54.	1.0	35
119	A note on \hat{L}_\pm -redundant vertices in graphs. Discrete Applied Mathematics, 2001, 108, 301-308.	0.5	28
120	An attractive class of bipartite graphs. Discussiones Mathematicae - Graph Theory, 2001, 21, 293.	0.2	4
121	Stability in P5- and banner-free graphs. European Journal of Operational Research, 2000, 125, 292-297.	3.5	30