

Michał, Pilipczuk

List of Publications by Year in descending order

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109
papers

2,327
citations

489802

18
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511568

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all docs

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docs citations

113
times ranked

782
citing authors

#	ARTICLE	IF	CITATIONS
1	Degeneracy of P -free and C_4 -free graphs with no large complete bipartite subgraphs. <i>Journal of Combinatorial Theory Series B</i> , 2022, 152, 353-378.	0.6	3
2	Optimal Parameterized Algorithms for Planar Facility Location Problems Using Voronoi Diagrams. <i>ACM Transactions on Algorithms</i> , 2022, 18, 1-64.	0.9	4
3	Fixed-parameter tractability of graph isomorphism in graphs with an excluded minor. , 2022, , .		1
4	Subexponential-Time Algorithms for Finding Large Induced Sparse Subgraphs. <i>Algorithmica</i> , 2021, 83, 2634-2650.	1.0	3
5	Randomized Contractions Meet Lean Decompositions. <i>ACM Transactions on Algorithms</i> , 2021, 17, 1-30.	0.9	13
6	Linear Kernels for Edge Deletion Problems to Immersion-Closed Graph Classes. <i>SIAM Journal on Discrete Mathematics</i> , 2021, 35, 105-151.	0.4	4
7	Kernelization and approximation of distance- r independent sets on nowhere dense graphs. <i>European Journal of Combinatorics</i> , 2021, 94, 103309.	0.5	3
8	Finding large induced sparse subgraphs in C -free graphs in quasipolynomial time. , 2021, , .		3
9	Polynomial bounds for centered colorings on proper minor-closed graph classes. <i>Journal of Combinatorial Theory Series B</i> , 2021, 151, 111-147.	0.6	4
10	Finding Large H -Colorable Subgraphs in Hereditary Graph Classes. <i>SIAM Journal on Discrete Mathematics</i> , 2021, 35, 2357-2386.	0.4	1
11	On low rank-width colorings. <i>European Journal of Combinatorics</i> , 2020, 83, 103002.	0.5	3
12	Special Issue Dedicated to the 13th International Symposium on Parameterized and Exact Computation. <i>Algorithmica</i> , 2020, 82, 2133-2134.	1.0	0
13	On the Maximum Weight Independent Set Problem in Graphs without Induced Cycles of Length at Least Five. <i>SIAM Journal on Discrete Mathematics</i> , 2020, 34, 1472-1483.	0.4	7
14	Quasi-Polynomial Time Approximation Schemes for Packing and Covering Problems in Planar Graphs. <i>Algorithmica</i> , 2020, 82, 1703-1739.	1.0	2
15	An exponential time parameterized algorithm for planar disjoint paths. , 2020, , .		6
16	Lower Bounds for the Parameterized Complexity of Minimum Fill-in and Other Completion Problems. <i>ACM Transactions on Algorithms</i> , 2020, 16, 1-31.	0.9	2
17	First-Order Interpretations of Bounded Expansion Classes. <i>ACM Transactions on Computational Logic</i> , 2020, 21, 1-41.	0.7	13
18	Computing Tree Decompositions. <i>Lecture Notes in Computer Science</i> , 2020, , 189-213.	1.0	2

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19	Hamiltonian Cycle Parameterized by Treedepth in Single Exponential Time and Polynomial Space. Lecture Notes in Computer Science, 2020, , 27-39.	1.0	4
20	Model-Checking on Ordered Structures. ACM Transactions on Computational Logic, 2020, 21, 1-28.	0.7	0
21	On width measures and topological problems on semi-complete digraphs. Journal of Combinatorial Theory Series B, 2019, 138, 78-165.	0.6	4
22	Minimum Bisection Is Fixed-Parameter Tractable. SIAM Journal on Computing, 2019, 48, 417-450.	0.8	12
23	Tight Lower Bounds for the Complexity of Multicoloring. ACM Transactions on Computation Theory, 2019, 11, 1-19.	0.4	4
24	Edge Bipartization Faster than 2^{2k} . Algorithmica, 2019, 81, 917-966.	1.0	3
25	Cutwidth: Obstructions and Algorithmic Aspects. Algorithmica, 2019, 81, 557-588.	1.0	6
26	Polynomial bounds for centered colorings on proper minor-closed graph classes. , 2019, , 1501-1520.		5
27	A Polynomial Kernel for Trivially Perfect Editing. Algorithmica, 2018, 80, 3481-3524.	1.0	10
28	Definable decompositions for graphs of bounded linear cliquewidth. , 2018, , .		2
29	On Subexponential Parameterized Algorithms for Steiner Tree and Directed Subset TSP on Planar Graphs. , 2018, , .		14
30	Network Sparsification for Steiner Problems on Planar and Bounded-Genus Graphs. ACM Transactions on Algorithms, 2018, 14, 1-73.	0.9	14
31	Below All Subsets for Minimal Connected Dominating Set. SIAM Journal on Discrete Mathematics, 2018, 32, 2332-2345.	0.4	2
32	Parameterized circuit complexity of model-checking on sparse structures. , 2018, , .		5
33	Hardness of Approximation for H -free Edge Modification Problems. ACM Transactions on Computation Theory, 2018, 10, 1-32.	0.4	4
34	On the number of types in sparse graphs. , 2018, , .		6
35	Subexponential Parameterized Algorithm for Interval Completion. ACM Transactions on Algorithms, 2018, 14, 1-62.	0.9	5
36	Exploring the Complexity of Layout Parameters in Tournaments and Semicomplete Digraphs. ACM Transactions on Algorithms, 2018, 14, 1-31.	0.9	3

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37	Fully Polynomial-Time Parameterized Computations for Graphs and Matrices of Low Treewidth. ACM Transactions on Algorithms, 2018, 14, 1-45.	0.9	28
38	On Directed Feedback Vertex Set Parameterized by Treewidth. Lecture Notes in Computer Science, 2018, , 65-78.	1.0	6
39	Planar Digraphs. Springer Monographs in Mathematics, 2018, , 207-243.	0.1	0
40	Fixed-Parameter Tractable Canonization and Isomorphism Test for Graphs of Bounded Treewidth. SIAM Journal on Computing, 2017, 46, 161-189.	0.8	24
41	Linear Kernels for Outbranching Problems in Sparse Digraphs. Algorithmica, 2017, 79, 159-188.	1.0	0
42	Hardness of Approximation for Strip Packing. ACM Transactions on Computation Theory, 2017, 9, 1-7.	0.4	7
43	Hitting forbidden subgraphs in graphs of bounded treewidth. Information and Computation, 2017, 256, 62-82.	0.5	5
44	Polynomial Kernelization for Removing Induced Claws and Diamonds. Theory of Computing Systems, 2017, 60, 615-636.	0.7	8
45	Fully polynomial-time parameterized computations for graphs and matrices of low treewidth. , 2017, , .		6
46	On Space Efficiency of Algorithms Working on Structural Decompositions of Graphs. ACM Transactions on Computation Theory, 2017, 9, 1-36.	0.4	8
47	On Low Rank-Width Colorings. Lecture Notes in Computer Science, 2017, , 372-385.	1.0	2
48	Subexponential Parameterized Algorithms for Planar and Apex-Minor-Free Graphs via Low Treewidth Pattern Covering. , 2016, , .		15
49	Schema Validation via Streaming Circuits. , 2016, , .		1
50	Definability equals recognizability for graphs of bounded treewidth. , 2016, , .		11
51	A $c^k n^5$ -Approximation Algorithm for Treewidth. SIAM Journal on Computing, 2016, 45, 317-378.	0.8	146
52	Known Algorithms for Edge Clique Cover are Probably Optimal. SIAM Journal on Computing, 2016, 45, 67-83.	0.8	42
53	Polynomial Kernelization for Removing Induced Claws and Diamonds. Lecture Notes in Computer Science, 2016, , 440-455.	1.0	1
54	Designing FPT Algorithms for Cut Problems Using Randomized Contractions. SIAM Journal on Computing, 2016, 45, 1171-1229.	0.8	39

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55	Largest Chordal and Interval Subgraphs Faster than 2^{2n} . <i>Algorithmica</i> , 2016, 76, 569-594.	1.0	7
56	On Group Feedback Vertex Set Parameterized by the Size of the Cutset. <i>Algorithmica</i> , 2016, 74, 630-642.	1.0	8
57	How to hunt an invisible rabbit on a graph. <i>European Journal of Combinatorics</i> , 2016, 52, 12-26.	0.5	7
58	Computing Cutwidth and Pathwidth of Semi-complete Digraphs. , 2016, , 412-415.		1
59	Subexponential parameterized algorithm for Interval Completion. , 2016, , .		13
60	Shortest Paths in One-Counter Systems. <i>Lecture Notes in Computer Science</i> , 2016, , 462-478.	1.0	6
61	Exact Algorithms for Induced Subgraph Problems. , 2016, , 674-678.		0
62	Exploring the Subexponential Complexity of Completion Problems. <i>ACM Transactions on Computation Theory</i> , 2015, 7, 1-38.	0.4	19
63	Minimizing Rosenthal Potential in Multicast Games. <i>Theory of Computing Systems</i> , 2015, 57, 81-96.	0.7	0
64	Computing Tree-Depth Faster Than $2^{\sqrt{n}}$. <i>Algorithmica</i> , 2015, 73, 202-216.	1.0	5
65	A Subexponential Parameterized Algorithm for Proper Interval Completion. <i>SIAM Journal on Discrete Mathematics</i> , 2015, 29, 1961-1987.	0.4	11
66	A Polynomial Kernel for Trivially Perfect Editing. <i>Lecture Notes in Computer Science</i> , 2015, , 424-436.	1.0	13
67	Optimal Parameterized Algorithms for Planar Facility Location Problems Using Voronoi Diagrams. <i>Lecture Notes in Computer Science</i> , 2015, , 865-877.	1.0	43
68	Sitting Closer to Friends than Enemies, Revisited. <i>Theory of Computing Systems</i> , 2015, 56, 394-405.	0.7	7
69	Parameterized Algorithms. , 2015, , .		991
70	Fixed-Parameter Tractability of Multicut in Directed Acyclic Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2015, 29, 122-144.	0.4	27
71	Fast Algorithms for Parameterized Problems with Relaxed Disjointness Constraints. <i>Lecture Notes in Computer Science</i> , 2015, , 545-556.	1.0	5
72	Kernelization. , 2015, , 17-49.		3

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73	Modifying a Graph Using Vertex Elimination. <i>Algorithmica</i> , 2015, 72, 99-125.	1.0	0
74	A Subexponential Parameterized Algorithm for Proper Interval Completion. <i>Lecture Notes in Computer Science</i> , 2014, , 173-184.	1.0	12
75	Clique Cover and Graph Separation. <i>ACM Transactions on Computation Theory</i> , 2014, 6, 1-19.	0.4	50
76	Minimum bisection is fixed parameter tractable. , 2014, , .		19
77	On the Hardness of Losing Width. <i>Theory of Computing Systems</i> , 2014, 54, 73-82.	0.7	12
78	Solving the 2-Disjoint Connected Subgraphs Problem Faster than 2^n . <i>Algorithmica</i> , 2014, 70, 195-207.	1.0	38
79	On Cutwidth Parameterized by Vertex Cover. <i>Algorithmica</i> , 2014, 68, 940-953.	1.0	9
80	Scheduling Partially Ordered Jobs Faster than 2^n . <i>Algorithmica</i> , 2014, 68, 692-714.	1.0	4
81	Parameterized Complexity of Eulerian Deletion Problems. <i>Algorithmica</i> , 2014, 68, 41-61.	1.0	30
82	Preprocessing subgraph and minor problems: When does a small vertex cover help?. <i>Journal of Computer and System Sciences</i> , 2014, 80, 468-495.	0.9	51
83	Tight bounds for parameterized complexity of Cluster Editing with a small number of clusters. <i>Journal of Computer and System Sciences</i> , 2014, 80, 1430-1447.	0.9	35
84	On multiway cut parameterized above lower bounds. <i>ACM Transactions on Computation Theory</i> , 2013, 5, 1-11.	0.4	54
85	Subset Feedback Vertex Set Is Fixed-Parameter Tractable. <i>SIAM Journal on Discrete Mathematics</i> , 2013, 27, 290-309.	0.4	49
86	Computing Tree-Depth Faster Than 2^n . <i>Lecture Notes in Computer Science</i> , 2013, , 137-149.	1.0	3
87	Largest Chordal and Interval Subgraphs Faster Than 2^n . <i>Lecture Notes in Computer Science</i> , 2013, , 193-204.	1.0	5
88	Subexponential Parameterized Algorithm for Computing the Cutwidth of a Semi-complete Digraph. <i>Lecture Notes in Computer Science</i> , 2013, , 505-516.	1.0	10
89	A Polynomial Algorithm for 3-Compatible Coloring and the Stubborn List Partition Problem (The Tj ETQq1 1 0.784314 rgBT /Overlock	0.8	2
90	Kernelization hardness of connectivity problems in d-degenerate graphs. <i>Discrete Applied Mathematics</i> , 2012, 160, 2131-2141.	0.5	48

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91	Some results on Vizing's conjecture and related problems. <i>Discrete Applied Mathematics</i> , 2012, 160, 2484-2490.	0.5	8
92	An Improved FPT Algorithm and a Quadratic Kernel for Pathwidth One Vertex Deletion. <i>Algorithmica</i> , 2012, 64, 170-188.	1.0	11
93	On Multiway Cut Parameterized above Lower Bounds. <i>Lecture Notes in Computer Science</i> , 2012, , 1-12.	1.0	23
94	On the Hardness of Losing Width. <i>Lecture Notes in Computer Science</i> , 2012, , 159-168.	1.0	8
95	On Cutwidth Parameterized by Vertex Cover. <i>Lecture Notes in Computer Science</i> , 2012, , 246-258.	1.0	6
96	Solving the 2-Disjoint Connected Subgraphs Problem Faster Than $2n$. <i>Lecture Notes in Computer Science</i> , 2012, , 195-206.	1.0	3
97	Clique Cover and Graph Separation: New Incompressibility Results. <i>Lecture Notes in Computer Science</i> , 2012, , 254-265.	1.0	15
98	Fixed-Parameter Tractability of Multicut in Directed Acyclic Graphs. <i>Lecture Notes in Computer Science</i> , 2012, , 581-593.	1.0	9
99	Sitting Closer to Friends Than Enemies, Revisited. <i>Lecture Notes in Computer Science</i> , 2012, , 296-307.	1.0	18
100	Finding a Maximum Induced Degenerate Subgraph Faster Than $2n$. <i>Lecture Notes in Computer Science</i> , 2012, , 3-12.	1.0	13
101	On Group Feedback Vertex Set Parameterized by the Size of the Cutset. <i>Lecture Notes in Computer Science</i> , 2012, , 194-205.	1.0	6
102	How to Eliminate a Graph. <i>Lecture Notes in Computer Science</i> , 2012, , 320-331.	1.0	0
103	Dominating set is fixed parameter tractable in claw-free graphs. <i>Theoretical Computer Science</i> , 2011, 412, 6982-7000.	0.5	22
104	Problems Parameterized by Treewidth Tractable in Single Exponential Time: A Logical Approach. <i>Lecture Notes in Computer Science</i> , 2011, , 520-531.	1.0	15
105	Parameterized Complexity of Eulerian Deletion Problems. <i>Lecture Notes in Computer Science</i> , 2011, , 131-142.	1.0	5
106	Subset Feedback Vertex Set Is Fixed-Parameter Tractable. <i>Lecture Notes in Computer Science</i> , 2011, , 449-461.	1.0	10
107	Kernelization Hardness of Connectivity Problems in d -Degenerate Graphs. <i>Lecture Notes in Computer Science</i> , 2010, , 147-158.	1.0	9
108	An Improved FPT Algorithm and Quadratic Kernel for Pathwidth One Vertex Deletion. <i>Lecture Notes in Computer Science</i> , 2010, , 95-106.	1.0	6

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109	On Polynomial Recursive Sequences. Theory of Computing Systems, 0, , 1.	0.7	2