

Marcin Pilipczuk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

1,727
citations

17
h-index

38
g-index

119
ext. papers

2,057
ext. citations

0.8
avg, IF

4.98
L-index

#	Paper	IF	Citations
107	Solving Connectivity Problems Parameterized by Treewidth in Single Exponential Time. <i>ACM Transactions on Algorithms</i> , 2022 , 18, 1-31	1.2	1
106	A Subexponential Parameterized Algorithm for Directed Subset Traveling Salesman Problem on Planar Graphs. <i>SIAM Journal on Computing</i> , 2022 , 51, 254-289	1.1	1
105	Constant Congestion Brambles in Directed Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2022 , 36, 922-938		
104	A Deterministic Polynomial Kernel for Odd Cycle Transversal and Vertex Multiway Cut in Planar Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2021 , 35, 2387-2429	0.7	
103	(Theta, triangle)-free and (even hole, K 4)-free graphs. Part 2: Bounds on treewidth. <i>Journal of Graph Theory</i> , 2021 , 97, 624-641	0.8	1
102	Polynomial Treedepth Bounds in Linear Colorings. <i>Algorithmica</i> , 2021 , 83, 361-386	0.9	
101	Randomized Contractions Meet Lean Decompositions. <i>ACM Transactions on Algorithms</i> , 2021 , 17, 1-30	1.2	3
100	Improved Bounds for the Excluded-Minor Approximation of Treedepth. <i>SIAM Journal on Discrete Mathematics</i> , 2021 , 35, 934-947	0.7	1
99	Quasi-polynomial-time algorithm for Independent Set in P_t -free graphs via shrinking the space of induced paths 2021 , 204-209		3
98	Quasi-polynomial time approximation schemes for the Maximum Weight Independent Set Problem in H -free graphs 2020 , 2260-2278		2
97	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	0.7	3
96	An Improved FPT Algorithm for Independent Feedback Vertex Set. <i>Theory of Computing Systems</i> , 2020 , 64, 1317-1330	0.6	
95	Multi-budgeted Directed Cuts. <i>Algorithmica</i> , 2020 , 82, 2135-2155	0.9	0
94	Turing Kernelization for Finding Long Paths in Graph Classes Excluding a Topological Minor. <i>Algorithmica</i> , 2019 , 81, 3936-3967	0.9	1
93	Minimum Bisection Is Fixed-Parameter Tractable. <i>SIAM Journal on Computing</i> , 2019 , 48, 417-450	1.1	6
92	Caterpillars in Erdős Hajnal. <i>Journal of Combinatorial Theory Series B</i> , 2019 , 136, 33-43	1.1	6
91	Subexponential-Time Algorithms for Maximum Independent Set in (P_t) -Free and Broom-Free Graphs. <i>Algorithmica</i> , 2019 , 81, 421-438	0.9	9

90	Deleting Vertices to Graphs of Bounded Genus. <i>Algorithmica</i> , 2019 , 81, 3655-3691	0.9	3
89	Polynomial-time algorithm for Maximum Weight Independent Set on P6-free graphs 2019 , 1257-1271		16
88	Finding Hamiltonian Cycle in Graphs of Bounded Treewidth. <i>Journal of Experimental Algorithmics</i> , 2019 , 24, 1-18	1.1	1
87	An Exponential Lower Bound for Cut Sparsifiers in Planar Graphs. <i>Algorithmica</i> , 2019 , 81, 4029-4042	0.9	2
86	Edge Bipartization Faster than (2^k) . <i>Algorithmica</i> , 2019 , 81, 917-966	0.9	1
85	Independence and Efficient Domination on P 6 -free Graphs. <i>ACM Transactions on Algorithms</i> , 2018 , 14, 1-30	1.2	4
84	Subexponential Parameterized Algorithm for Interval Completion. <i>ACM Transactions on Algorithms</i> , 2018 , 14, 1-62	1.2	3
83	Directed Multicut is W[1]-hard, Even for Four Terminal Pairs. <i>ACM Transactions on Computation Theory</i> , 2018 , 10, 1-18	0.6	7
82	Excluding Hooks and their Complements. <i>Electronic Journal of Combinatorics</i> , 2018 , 25,	1.1	3
81	Planar Digraphs. <i>Springer Monographs in Mathematics</i> , 2018 , 207-243	1.3	
80	An Improved FPT Algorithm for Independent Feedback Vertex Set. <i>Lecture Notes in Computer Science</i> , 2018 , 344-355	0.9	2
79	On Subexponential Parameterized Algorithms for Steiner Tree and Directed Subset TSP on Planar Graphs 2018 ,		7
78	Network Sparsification for Steiner Problems on Planar and Bounded-Genus Graphs. <i>ACM Transactions on Algorithms</i> , 2018 , 14, 1-73	1.2	8
77	Constant Congestion Routing of Symmetric Demands in Planar Directed Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2018 , 32, 2134-2160	0.7	2
76	Approximation and Kernelization for Chordal Vertex Deletion. <i>SIAM Journal on Discrete Mathematics</i> , 2018 , 32, 2258-2301	0.7	11
75	Approximation and Kernelization for Chordal Vertex Deletion 2017 ,		6
74	Fixed-Parameter Tractable Canonization and Isomorphism Test for Graphs of Bounded Treewidth. <i>SIAM Journal on Computing</i> , 2017 , 46, 161-189	1.1	15
73	Polynomial Kernelization for Removing Induced Claws and Diamonds. <i>Theory of Computing Systems</i> , 2017 , 60, 615-636	0.6	5

72	A tight lower bound for Vertex Planarization on graphs of bounded treewidth. <i>Discrete Applied Mathematics</i> , 2017 , 231, 211-216	1	4
71	Independence and Efficient Domination on P6-free Graphs 2016 ,		13
70	On Group Feedback Vertex Set Parameterized by the Size of the Cutset. <i>Algorithmica</i> , 2016 , 74, 630-642	0.9	5
69	A Fast Branching Algorithm for Cluster Vertex Deletion. <i>Theory of Computing Systems</i> , 2016 , 58, 357-376	0.6	26
68	Subexponential parameterized algorithm for Interval Completion 2016 ,		8
67	Directed multicut is W[1]-hard, even for four terminal pairs 2016 ,		3
66	Subexponential Parameterized Algorithms for Planar and Apex-Minor-Free Graphs via Low Treewidth Pattern Covering 2016 ,		8
65	Known Algorithms for Edge Clique Cover are Probably Optimal. <i>SIAM Journal on Computing</i> , 2016 , 45, 67-83	1.1	18
64	Polynomial Kernelization for Removing Induced Claws and Diamonds. <i>Lecture Notes in Computer Science</i> , 2016 , 440-455	0.9	1
63	Designing FPT Algorithms for Cut Problems Using Randomized Contractions. <i>SIAM Journal on Computing</i> , 2016 , 45, 1171-1229	1.1	27
62	Sitting Closer to Friends than Enemies, Revisited. <i>Theory of Computing Systems</i> , 2015 , 56, 394-405	0.6	5
61	Parameterized Algorithms 2015 ,		650
60	Fixed-Parameter Tractability of Multicut in Directed Acyclic Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2015 , 29, 122-144	0.7	17
59	Kernel Lower Bounds using Co-Nondeterminism: Finding Induced Hereditary Subgraphs. <i>ACM Transactions on Computation Theory</i> , 2015 , 7, 1-18	0.6	2
58	Faster exponential-time algorithms in graphs of bounded average degree. <i>Information and Computation</i> , 2015 , 243, 75-85	0.8	7
57	A Subexponential Parameterized Algorithm for Proper Interval Completion. <i>SIAM Journal on Discrete Mathematics</i> , 2015 , 29, 1961-1987	0.7	9
56	Faster deterministic Feedback Vertex Set. <i>Information Processing Letters</i> , 2014 , 114, 556-560	0.8	53
55	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	1	28

54	A Subexponential Parameterized Algorithm for Proper Interval Completion. <i>Lecture Notes in Computer Science</i> , 2014 , 173-184	0.9	5
53	2014 ,		14
52	Clique Cover and Graph Separation. <i>ACM Transactions on Computation Theory</i> , 2014 , 6, 1-19	0.6	37
51	Fixed-Parameter Tractable Canonization and Isomorphism Test for Graphs of Bounded Treewidth 2014 ,		12
50	Minimum bisection is fixed parameter tractable 2014 ,		17
49	On the Hardness of Losing Width. <i>Theory of Computing Systems</i> , 2014 , 54, 73-82	0.6	10
48	Solving the 2-Disjoint Connected Subgraphs Problem Faster than $2n$. <i>Algorithmica</i> , 2014 , 70, 195-207	0.9	27
47	On Cutwidth Parameterized by Vertex Cover. <i>Algorithmica</i> , 2014 , 68, 940-953	0.9	7
46	Scheduling Partially Ordered Jobs Faster than $2n$. <i>Algorithmica</i> , 2014 , 68, 692-714	0.9	1
45	Parameterized Complexity of Eulerian Deletion Problems. <i>Algorithmica</i> , 2014 , 68, 41-61	0.9	20
44	A Fast Branching Algorithm for Cluster Vertex Deletion. <i>Lecture Notes in Computer Science</i> , 2014 , 111-124.	0.9	7
43	Hitting Forbidden Subgraphs in Graphs of Bounded Treewidth. <i>Lecture Notes in Computer Science</i> , 2014 , 189-200	0.9	
42	The Planar Directed K-Vertex-Disjoint Paths Problem Is Fixed-Parameter Tractable 2013 ,		17
41	Split Vertex Deletion meets Vertex Cover: New fixed-parameter and exact exponential-time algorithms. <i>Information Processing Letters</i> , 2013 , 113, 179-182	0.8	16
40	Known algorithms for Edge Clique Cover are probably optimal 2013 ,		4
39	Towards optimal kernel for connected vertex cover in planar graphs. <i>Discrete Applied Mathematics</i> , 2013 , 161, 1154-1161	1	5
38	On multiway cut parameterized above lower bounds. <i>ACM Transactions on Computation Theory</i> , 2013 , 5, 1-11	0.6	42
37	Subset Feedback Vertex Set Is Fixed-Parameter Tractable. <i>SIAM Journal on Discrete Mathematics</i> , 2013 , 27, 290-309	0.7	38

36	Faster Exponential-Time Algorithms in Graphs of Bounded Average Degree. <i>Lecture Notes in Computer Science</i> , 2013 , 364-375	0.9	3
35	Bandwidth and distortion revisited. <i>Discrete Applied Mathematics</i> , 2012 , 160, 494-504	1	5
34	A Polynomial Algorithm for 3-Compatible Coloring and the Stubborn List Partition Problem (The Stubborn Problem Is Stubborn No More). <i>SIAM Journal on Computing</i> , 2012 , 41, 815-828	1.1	2
33	Designing FPT Algorithms for Cut Problems Using Randomized Contractions 2012 ,		10
32	Kernelization hardness of connectivity problems in d-degenerate graphs. <i>Discrete Applied Mathematics</i> , 2012 , 160, 2131-2141	1	35
31	Some results on Vizing's conjecture and related problems. <i>Discrete Applied Mathematics</i> , 2012 , 160, 2484-2490		5
30	An Improved FPT Algorithm and a Quadratic Kernel for Pathwidth One Vertex Deletion. <i>Algorithmica</i> , 2012 , 64, 170-188	0.9	5
29	Even Faster Exact Bandwidth. <i>ACM Transactions on Algorithms</i> , 2012 , 8, 1-14	1.2	4
28	On Multiway Cut Parameterized above Lower Bounds. <i>Lecture Notes in Computer Science</i> , 2012 , 1-12	0.9	18
27	On the Hardness of Losing Width. <i>Lecture Notes in Computer Science</i> , 2012 , 159-168	0.9	7
26	On Cutwidth Parameterized by Vertex Cover. <i>Lecture Notes in Computer Science</i> , 2012 , 246-258	0.9	6
25	Solving the 2-Disjoint Connected Subgraphs Problem Faster Than $2n$. <i>Lecture Notes in Computer Science</i> , 2012 , 195-206	0.9	3
24	Kernel Lower Bounds Using Co-nondeterminism: Finding Induced Hereditary Subgraphs. <i>Lecture Notes in Computer Science</i> , 2012 , 364-375	0.9	5
23	Clique Cover and Graph Separation: New Incompressibility Results. <i>Lecture Notes in Computer Science</i> , 2012 , 254-265	0.9	8
22	Fixed-Parameter Tractability of Multicut in Directed Acyclic Graphs. <i>Lecture Notes in Computer Science</i> , 2012 , 581-593	0.9	7
21	Sitting Closer to Friends Than Enemies, Revisited. <i>Lecture Notes in Computer Science</i> , 2012 , 296-307	0.9	11
20	A Path-Decomposition Theorem with Applications to Pricing and Covering on Trees. <i>Lecture Notes in Computer Science</i> , 2012 , 349-360	0.9	2
19	Finding a Maximum Induced Degenerate Subgraph Faster Than $2n$. <i>Lecture Notes in Computer Science</i> , 2012 , 3-12	0.9	9

18	On Group Feedback Vertex Set Parameterized by the Size of the Cutset. <i>Lecture Notes in Computer Science</i> , 2012 , 194-205	0.9	3
17	Dominating set is fixed parameter tractable in claw-free graphs. <i>Theoretical Computer Science</i> , 2011 , 412, 6982-7000	1.1	19
16	Capacitated domination faster than $O(2n)$. <i>Information Processing Letters</i> , 2011 , 111, 1099-1103	0.8	7
15	On the Zagreb index inequality of graphs with prescribed vertex degrees. <i>Discrete Applied Mathematics</i> , 2011 , 159, 852-858	1	5
14	Solving Connectivity Problems Parameterized by Treewidth in Single Exponential Time 2011 ,		127
13	Breaking the . <i>Journal of Discrete Algorithms</i> , 2011 , 9, 214-230		17
12	The stubborn problem is stubborn no more (a polynomial algorithm for 3-compatible colouring and the stubborn list partition problem) 2011 ,		4
11	Scheduling Partially Ordered Jobs Faster Than $2n$. <i>Lecture Notes in Computer Science</i> , 2011 , 299-310	0.9	6
10	Parameterized Complexity of Eulerian Deletion Problems. <i>Lecture Notes in Computer Science</i> , 2011 , 131-142	1.1	4
9	Subset Feedback Vertex Set Is Fixed-Parameter Tractable. <i>Lecture Notes in Computer Science</i> , 2011 , 449-461	0.9	9
8	Exact and approximate bandwidth. <i>Theoretical Computer Science</i> , 2010 , 411, 3701-3713	1.1	42
7	Irredundant Set Faster Than $O(2n)$. <i>Lecture Notes in Computer Science</i> , 2010 , 288-298	0.9	1
6	Capacitated Domination Faster Than $O(2n)$. <i>Lecture Notes in Computer Science</i> , 2010 , 74-80	0.9	7
5	Kernelization Hardness of Connectivity Problems in d -Degenerate Graphs. <i>Lecture Notes in Computer Science</i> , 2010 , 147-158	0.9	8
4	An Improved FPT Algorithm and Quadratic Kernel for Pathwidth One Vertex Deletion. <i>Lecture Notes in Computer Science</i> , 2010 , 95-106	0.9	5
3	Exact and Approximate Bandwidth. <i>Lecture Notes in Computer Science</i> , 2009 , 304-315	0.9	3
2	The negative association property for the absolute values of random variables equidistributed on a generalized Orlicz ball. <i>Positivity</i> , 2008 , 12, 421-474	0.6	6
1	Faster Exact Bandwidth. <i>Lecture Notes in Computer Science</i> , 2008 , 101-109	0.9	8

