Marcin Pilipczuk

List of Publications by Citations

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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	Parameterized Algorithms **2015**,		650
106	Solving Connectivity Problems Parameterized by Treewidth in Single Exponential Time **2011**,		127
105	Faster deterministic Feedback Vertex Set. *Information Processing Letters*, **2014**, 114, 556-560	0.8	53
104	On multiway cut parameterized above lower bounds. *ACM Transactions on Computation Theory*, **2013**, 5, 1-11	0.6	42
103	Exact and approximate bandwidth. *Theoretical Computer Science*, **2010**, 411, 3701-3713	1.1	42
102	Subset Feedback Vertex Set Is Fixed-Parameter Tractable. *SIAM Journal on Discrete Mathematics*, **2013**, 27, 290-309	0.7	38
101	Clique Cover and Graph Separation. *ACM Transactions on Computation Theory*, **2014**, 6, 1-19	0.6	37
100	Kernelization hardness of connectivity problems in d-degenerate graphs. *Discrete Applied Mathematics*, **2012**, 160, 2131-2141	1	35
99	Tight bounds for parameterized complexity of Cluster Editing with a small number of clusters. *Journal of Computer and System Sciences*, **2014**, 80, 1430-1447	1	28
98	Solving the 2-Disjoint Connected Subgraphs Problem Faster than 2n. *Algorithmica*, **2014**, 70, 195-207	0.9	27
97	Designing FPT Algorithms for Cut Problems Using Randomized Contractions. *SIAM Journal on Computing*, **2016**, 45, 1171-1229	1.1	27
96	A Fast Branching Algorithm for Cluster Vertex Deletion. *Theory of Computing Systems*, **2016**, 58, 357-376	0.6	26
95	Parameterized Complexity of Eulerian Deletion Problems. *Algorithmica*, **2014**, 68, 41-61	0.9	20
94	Dominating set is fixed parameter tractable in claw-free graphs. *Theoretical Computer Science*, **2011** , 412, 6982-7000	1.1	19
93	On Multiway Cut Parameterized above Lower Bounds. *Lecture Notes in Computer Science*, **2012**, 1-12	0.9	18
92	Known Algorithms for Edge Clique Cover are Probably Optimal. *SIAM Journal on Computing*, **2016**, 45, 67-83	1.1	18
91	Fixed-Parameter Tractability of Multicut in Directed Acyclic Graphs. *SIAM Journal on Discrete Mathematics*, **2015**, 29, 122-144	0.7	17

90	The Planar Directed K-Vertex-Disjoint Paths Problem Is Fixed-Parameter Tractable **2013**,		17
89	Minimum bisection is fixed parameter tractable **2014**,		17
88	Breaking the . *Journal of Discrete Algorithms*, **2011**, 9, 214-230		17
87	Split Vertex Deletion meets Vertex Cover: New fixed-parameter and exact exponential-time algorithms. *Information Processing Letters*, **2013**, 113, 179-182	0.8	16
86	Polynomial-time algorithm for Maximum Weight Independent Set on P6-free graphs **2019**, 1257-1271		16
85	Fixed-Parameter Tractable Canonization and Isomorphism Test for Graphs of Bounded Treewidth. *SIAM Journal on Computing*, **2017**, 46, 161-189	1.1	15
84	**2014**,		14
83	Independence and Efficient Domination on P6-free Graphs **2016**,		13
82	Fixed-Parameter Tractable Canonization and Isomorphism Test for Graphs of Bounded Treewidth **2014**,		12
81	Sitting Closer to Friends Than Enemies, Revisited. *Lecture Notes in Computer Science*, **2012**, 296-307	0.9	11
80	Approximation and Kernelization for Chordal Vertex Deletion. *SIAM Journal on Discrete Mathematics*, **2018**, 32, 2258-2301	0.7	11
79	On the Hardness of Losing Width. *Theory of Computing Systems*, **2014**, 54, 73-82	0.6	10
78	Designing FPT Algorithms for Cut Problems Using Randomized Contractions **2012**,		10
77	Subexponential-Time Algorithms for Maximum Independent Set in (P_t)-Free and Broom-Free Graphs. *Algorithmica*, **2019**, 81, 421-438	0.9	9
76	A Subexponential Parameterized Algorithm for Proper Interval Completion. *SIAM Journal on Discrete Mathematics*, **2015**, 29, 1961-1987	0.7	9
75	Finding a Maximum Induced Degenerate Subgraph Faster Than 2n. *Lecture Notes in Computer Science*, **2012**, 3-12	0.9	9
74	Subset Feedback Vertex Set Is Fixed-Parameter Tractable. *Lecture Notes in Computer Science*, **2011**, 449-461	0.9	9
73	Subexponential parameterized algorithm for Interval Completion **2016**,		8

72	Faster Exact Bandwidth. *Lecture Notes in Computer Science*, **2008**, 101-109	0.9	8
71	Kernelization Hardness of Connectivity Problems in d-Degenerate Graphs. *Lecture Notes in Computer Science*, **2010**, 147-158	0.9	8
70	Clique Cover and Graph Separation: New Incompressibility Results. *Lecture Notes in Computer Science*, **2012**, 254-265	0.9	8
69	Subexponential Parameterized Algorithms for Planar and Apex-Minor-Free Graphs via Low Treewidth Pattern Covering **2016**,		8
68	Network Sparsification for Steiner Problems on Planar and Bounded-Genus Graphs. *ACM Transactions on Algorithms*, **2018**, 14, 1-73	1.2	8
67	Directed Multicut is W[1]-hard, Even for Four Terminal Pairs. *ACM Transactions on Computation Theory*, **2018**, 10, 1-18	0.6	7
66	Faster exponential-time algorithms in graphs of bounded average degree. *Information and Computation*, **2015**, 243, 75-85	0.8	7
65	On Cutwidth Parameterized by Vertex Cover. *Algorithmica*, **2014**, 68, 940-953	0.9	7
64	Capacitated domination faster than O(2n). *Information Processing Letters*, **2011**, 111, 1099-1103	0.8	7
63	A Fast Branching Algorithm for Cluster Vertex Deletion. *Lecture Notes in Computer Science*, **2014**, 111-124	0.9	7
62	Capacitated Domination Faster Than O(2n). *Lecture Notes in Computer Science*, **2010**, 74-80	0.9	7
61	On the Hardness of Losing Width. *Lecture Notes in Computer Science*, **2012**, 159-168	0.9	7
60	Fixed-Parameter Tractability of Multicut in Directed Acyclic Graphs. *Lecture Notes in Computer Science*, **2012**, 581-593	0.9	7
59	On Subexponential Parameterized Algorithms for Steiner Tree and Directed Subset TSP on Planar Graphs **2018**,		7
58	Approximation and Kernelization for Chordal Vertex Deletion **2017**,		6
57	Minimum Bisection Is Fixed-Parameter Tractable. *SIAM Journal on Computing*, **2019**, 48, 417-450	1.1	6
56	Caterpillars in Erd□Hajnal. *Journal of Combinatorial Theory Series B*, **2019**, 136, 33-43	1.1	6
55	The negative association property for the absolute values of random variables equidistributed on a generalized Orlicz ball. *Positivity*, **2008**, 12, 421-474	0.6	6

54	Scheduling Partially Ordered Jobs Faster Than 2n. *Lecture Notes in Computer Science*, **2011**, 299-310	0.9	6
53	On Cutwidth Parameterized by Vertex Cover. *Lecture Notes in Computer Science*, **2012**, 246-258	0.9	6
52	Sitting Closer to Friends than Enemies, Revisited. *Theory of Computing Systems*, **2015**, 56, 394-405	0.6	5
51	On Group Feedback Vertex Set Parameterized by the Size of the Cutset. *Algorithmica*, **2016**, 74, 630-642	0.9	5
50	Bandwidth and distortion revisited. *Discrete Applied Mathematics*, **2012**, 160, 494-504	1	5
49	Polynomial Kernelization for Removing Induced Claws and Diamonds. *Theory of Computing Systems*, **2017**, 60, 615-636	0.6	5
48	A Subexponential Parameterized Algorithm for Proper Interval Completion. *Lecture Notes in Computer Science*, **2014**, 173-184	0.9	5
47	Some results on Vizing's conjecture and related problems. *Discrete Applied Mathematics*, **2012**, 160, 2484-2490	1	5
46	An Improved FPT Algorithm and a Quadratic Kernel for Pathwidth One Vertex Deletion. *Algorithmica*, **2012**, 64, 170-188	0.9	5
45	Towards optimal kernel for connected vertex cover in planar graphs. *Discrete Applied Mathematics*, **2013**, 161, 1154-1161	1	5
44	On the Zagreb index inequality of graphs with prescribed vertex degrees. *Discrete Applied Mathematics*, **2011**, 159, 852-858	1	5
43	An Improved FPT Algorithm and Quadratic Kernel for Pathwidth One Vertex Deletion. *Lecture Notes in Computer Science*, **2010**, 95-106	0.9	5
42	Kernel Lower Bounds Using Co-nondeterminism: Finding Induced Hereditary Subgraphs. *Lecture Notes in Computer Science*, **2012**, 364-375	0.9	5
41	Independence and Efficient Domination on P 6 -free Graphs. *ACM Transactions on Algorithms*, **2018**, 14, 1-30	1.2	4
40	A tight lower bound for Vertex Planarization on graphs of bounded treewidth. *Discrete Applied Mathematics*, **2017**, 231, 211-216	1	4
39	Known algorithms for Edge Clique Cover are probably optimal **2013**,		4
38	The stubborn problem is stubborn no more (a polynomial algorithm for 3-compatible colouring and the stubborn list partition problem) **2011**,		4
37	Even Faster Exact Bandwidth. *ACM Transactions on Algorithms*, **2012**, 8, 1-14	1.2	4

36	Parameterized Complexity of Eulerian Deletion Problems. *Lecture Notes in Computer Science*, **2011**, 131-142	0.9	4
35	On the Maximum Weight Independent Set Problem in Graphs without Induced Cycles of Length at Least Five. *SIAM Journal on Discrete Mathematics*, **2020**, 34, 1472-1483	0.7	3
34	Subexponential Parameterized Algorithm for I nterval C ompletion. *ACM Transactions on Algorithms* , **2018**, 14, 1-62	1.2	3
33	Deleting Vertices to Graphs of Bounded Genus. *Algorithmica*, **2019**, 81, 3655-3691	0.9	3
32	Excluding Hooks and their Complements. *Electronic Journal of Combinatorics*, **2018**, 25,	1.1	3
31	Exact and Approximate Bandwidth. *Lecture Notes in Computer Science*, **2009**, 304-315	0.9	3
30	Solving the 2-Disjoint Connected Subgraphs Problem Faster Than 2n. *Lecture Notes in Computer Science*, **2012**, 195-206	0.9	3
29	On Group Feedback Vertex Set Parameterized by the Size of the Cutset. *Lecture Notes in Computer Science*, **2012**, 194-205	0.9	3
28	Faster Exponential-Time Algorithms in Graphs of Bounded Average Degree. *Lecture Notes in Computer Science*, **2013**, 364-375	0.9	3
27	Directed multicut is W[1]-hard, even for four terminal pairs **2016**,		3
26	Randomized Contractions Meet Lean Decompositions. *ACM Transactions on Algorithms*, **2021**, 17, 1-30	1.2	3
25	Quasi-polynomial-time algorithm for Independent Set in Pt-free graphs via shrinking the space of induced paths **2021**, 204-209		3
24	Kernel Lower Bounds using Co-Nondeterminism: Finding Induced Hereditary Subgraphs. *ACM Transactions on Computation Theory*, **2015**, 7, 1-18	0.6	2
23	Quasi-polynomial time approximation schemes for the Maximum Weight Independent Set Problem in H-free graphs **2020**, 2260-2278		2
22	A Polynomial Algorithm for 3-Compatible Coloring and the Stubborn List Partition Problem (The Stubborn Problem Is Stubborn No More). *SIAM Journal on Computing*, **2012**, 41, 815-828	1.1	2
21	An Improved FPT Algorithm for Independent Feedback Vertex Set. *Lecture Notes in Computer Science*, **2018**, 344-355	0.9	2
20	A Path-Decomposition Theorem with Applications to Pricing and Covering on Trees. *Lecture Notes in Computer Science*, **2012**, 349-360	0.9	2
19	An Exponential Lower Bound for Cut Sparsifiers in Planar Graphs. *Algorithmica*, **2019**, 81, 4029-4042	0.9	2

18	Constant Congestion Routing of Symmetric Demands in Planar Directed Graphs. *SIAM Journal on Discrete Mathematics*, **2018**, 32, 2134-2160	0.7	2
17	Turing Kernelization for Finding Long Paths in Graph Classes Excluding a Topological Minor. *Algorithmica*, **2019**, 81, 3936-3967	0.9	1
16	Scheduling Partially Ordered Jobs Faster than 2n. *Algorithmica*, **2014**, 68, 692-714	0.9	1
15	Irredundant Set Faster Than O(2n). *Lecture Notes in Computer Science*, **2010**, 288-298	0.9	1
14	(Theta, triangle)-free and (even hole, K 4)-free graphs. Part 2: Bounds on treewidth. *Journal of Graph Theory*, **2021**, 97, 624-641	0.8	1
13	Polynomial Kernelization for Removing Induced Claws and Diamonds. *Lecture Notes in Computer Science*, **2016**, 440-455	0.9	1
12	Finding Hamiltonian Cycle in Graphs of Bounded Treewidth. *Journal of Experimental Algorithmics*, **2019**, 24, 1-18	1.1	1
11	Edge Bipartization Faster than (2^k). *Algorithmica*, **2019**, 81, 917-966	0.9	1
10	Improved Bounds for the Excluded-Minor Approximation of Treedepth. *SIAM Journal on Discrete Mathematics*, **2021**, 35, 934-947	0.7	1
9	Solving Connectivity Problems Parameterized by Treewidth in Single Exponential Time. *ACM Transactions on Algorithms*, **2022**, 18, 1-31	1.2	1
8	A Subexponential Parameterized Algorithm for Directed Subset Traveling Salesman Problem on Planar Graphs. *SIAM Journal on Computing*, **2022**, 51, 254-289	1.1	1
7	Multi-budgeted Directed Cuts. *Algorithmica*, **2020**, 82, 2135-2155	0.9	0
6	An Improved FPT Algorithm for Independent Feedback Vertex Set. *Theory of Computing Systems*, **2020**, 64, 1317-1330	0.6	
5	A Deterministic Polynomial Kernel for Odd Cycle Transversal and Vertex Multiway Cut in Planar Graphs. *SIAM Journal on Discrete Mathematics*, **2021**, 35, 2387-2429	0.7	
4	Planar Digraphs. *Springer Monographs in Mathematics*, **2018**, 207-243	1.3	
3	Hitting Forbidden Subgraphs in Graphs of Bounded Treewidth. *Lecture Notes in Computer Science*, **2014**, 189-200	0.9	
2	Polynomial Treedepth Bounds in Linear Colorings. *Algorithmica*, **2021**, 83, 361-386	0.9	
1	Constant Congestion Brambles in Directed Graphs. *SIAM Journal on Discrete Mathematics*, **2022**, 36, 922-938	0.8	