

# Jianer Chen

## List of Publications by Year in descending order

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122  
papers

3,045  
citations

236925

25  
h-index

182427

51  
g-index

126  
all docs

126  
docs citations

126  
times ranked

898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertex Cover: Further Observations and Further Improvements. Journal of Algorithms, 2001, 41, 280-301.	0.9	401
2	Improved upper bounds for vertex cover. Theoretical Computer Science, 2010, 411, 3736-3756.	0.9	276
3	Strong computational lower bounds via parameterized complexity. Journal of Computer and System Sciences, 2006, 72, 1346-1367.	1.2	175
4	A fixed-parameter algorithm for the directed feedback vertex set problem. Journal of the ACM, 2008, 55, 1-19.	2.2	175
5	Parametric Duality and Kernelization: Lower Bounds and Upper Bounds on Kernel Size. SIAM Journal on Computing, 2007, 37, 1077-1106.	1.0	130
6	Tight lower bounds for certain parameterized NP-hard problems. Information and Computation, 2005, 201, 216-231.	0.7	123
7	Improved algorithms for feedback vertex set problems. Journal of Computer and System Sciences, 2008, 74, 1188-1198.	1.2	98
8	An Improved Parameterized Algorithm for the Minimum Node Multiway Cut Problem. Algorithmica, 2009, 55, 1-13.	1.3	86
9	General multiprocessor task scheduling. Naval Research Logistics, 1999, 46, 57-74.	2.2	75
10	Improved Parameterized Upper Bounds for Vertex Cover. Lecture Notes in Computer Science, 2006, , 238-249.	1.3	74
11	On Fixed-Parameter Tractability and Approximability of NP Optimization Problems. Journal of Computer and System Sciences, 1997, 54, 465-474.	1.2	68
12	Cluster Editing: Kernelization Based on Edge Cuts. Algorithmica, 2012, 64, 152-169.	1.3	67
13	An efficient parameterized algorithm for m-set packing. Journal of Algorithms, 2004, 50, 106-117.	0.9	64
14	Linear FPT reductions and computational lower bounds. , 2004, , .		61
15	On the parameterized complexity of short computation and factorization. Archive for Mathematical Logic, 1997, 36, 321-337.	0.3	60
16	Constrained minimum vertex cover in bipartite graphs: complexity and parameterized algorithms. Journal of Computer and System Sciences, 2003, 67, 833-847.	1.2	58
17	Improved exact algorithms for MAX-SAT. Discrete Applied Mathematics, 2004, 142, 17-27.	0.9	52
18	Improved Parameterized Set Splitting Algorithms: A Probabilistic Approach. Algorithmica, 2009, 54, 472-489.	1.3	51

#	ARTICLE	IF	CITATIONS
19	Nearly optimal one-to-many parallel routing in star networks. IEEE Transactions on Parallel and Distributed Systems, 1997, 8, 1196-1202.	5.6	48
20	An Efficient Algorithm for Constructing Maximum lifetime Tree for Data Gathering Without Aggregation in Wireless Sensor Networks. , 2010, , .		46
21	Using Nondeterminism to Design Efficient Deterministic Algorithms. Algorithmica, 2004, 40, 83-97.	1.3	43
22	Labeled Search Trees and Amortized Analysis: Improved Upper Bounds for NP-Hard Problems. Algorithmica, 2005, 43, 245-273.	1.3	38
23	On Feedback Vertex Set: New Measure and New Structures. Algorithmica, 2015, 73, 63-86.	1.3	37
24	A fixed-parameter algorithm for the directed feedback vertex set problem. , 2008, , .		35
25	On Feedback Vertex Set New Measure and New Structures. Lecture Notes in Computer Science, 2010, , 93-104.	1.3	32
26	Improvement on vertex cover for low-degree graphs. Networks, 2000, 35, 253-259.	2.7	31
27	On the computational hardness based on linear FPT-reductions. Journal of Combinatorial Optimization, 2006, 11, 231-247.	1.3	30
28	Optimal parallel routing in star networks. IEEE Transactions on Computers, 1997, 46, 1293-1303.	3.4	29
29	Locally subcube-connected hypercube networks: theoretical analysis and experimental results. IEEE Transactions on Computers, 2002, 51, 530-540.	3.4	25
30	Tuning the Aggressive TCP Behavior for Highly Concurrent HTTP Connections in Intra-Datcenter. IEEE/ACM Transactions on Networking, 2017, 25, 3808-3822.	3.8	24
31	Randomized parameterized algorithms for $P_2$ -Packing and Co-Path Packing problems. Journal of Combinatorial Optimization, 2015, 29, 125-140.	1.3	23
32	Two methods for creating chinese painting. , 0, , .		20
33	Utilization-based admission control for real-time applications. , 0, , .		17
34	Characterizing parallel hierarchies by reducibilities. Information Processing Letters, 1991, 39, 303-307.	0.6	16
35	Efficient flooding in Wireless Sensor Networks secured with neighborhood keys. , 2011, , .		16
36	Improved Exact Algorithms for Max-Sat. Lecture Notes in Computer Science, 2002, , 341-355.	1.3	16

#	ARTICLE	IF	CITATIONS
37	Separability and topology control of quasi unit disk graphs. <i>Wireless Networks</i> , 2011, 17, 53-67.	3.0	15
38	Polynomial time approximation schemes and parameterized complexity. <i>Discrete Applied Mathematics</i> , 2007, 155, 180-193.	0.9	14
39	On input read-modes of alternating Turing machines. <i>Theoretical Computer Science</i> , 1995, 148, 33-55.	0.9	13
40	Genus characterizes the complexity of certain graph problems: Some tight results. <i>Journal of Computer and System Sciences</i> , 2007, 73, 892-907.	1.2	13
41	General multiprocessor task scheduling. <i>Naval Research Logistics</i> , 1999, 46, 57-74.	2.2	13
42	Approximating Maximum Agreement Forest on Multiple Binary Trees. <i>Algorithmica</i> , 2016, 76, 867-889.	1.3	12
43	An improved FPT algorithm for Almost Forest Deletion problem. <i>Information Processing Letters</i> , 2018, 136, 30-36.	0.6	12
44	On product covering in 3-tier supply chain models: Natural complete problems for	0.9	11
45	A simple linear time approximation algorithm for multi-processor job scheduling on four processors. <i>Journal of Combinatorial Optimization</i> , 2006, 13, 33-45.	1.3	11
46	A Practical Exact Algorithm for the Individual Haplotyping Problem MEC/GI. <i>Algorithmica</i> , 2010, 56, 283-296.	1.3	11
47	A parameterized algorithm for the Maximum Agreement Forest problem on multiple rooted multifurcating trees. <i>Journal of Computer and System Sciences</i> , 2018, 97, 28-44.	1.2	11
48	Information Processing Letters, 2014, 114, 167-173.		
49	Finding Pathway Structures in Protein Interaction Networks. <i>Algorithmica</i> , 2007, 48, 363-374.	1.3	9
50	On parameterized exponential time complexity. <i>Theoretical Computer Science</i> , 2009, 410, 2641-2648.	0.9	9
51	Extended graph rotation systems as a model for cyclic weaving on orientable surfaces. <i>Discrete Applied Mathematics</i> , 2015, 193, 61-79.	0.9	9
52	Regular Mesh Construction Algorithms using Regular Handles. , 0, , .		8
53	A Delay-Constrained and Maximum Lifetime Data Gathering Algorithm for Wireless Sensor Networks. , 2009, , .		8
54	On the Minimum Link-Length Rectilinear Spanning Path Problem: Complexity and Algorithms. <i>IEEE Transactions on Computers</i> , 2014, 63, 3092-3100.	3.4	8

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55	W-Hardness Under Linear FPT-Reductions: Structural Properties and Further Applications. Lecture Notes in Computer Science, 2005, , 975-984.	1.3	8
56	On the Effective Enumerability of NP Problems. Lecture Notes in Computer Science, 2006, , 215-226.	1.3	8
57	Kernels for Packing and Covering Problems. Lecture Notes in Computer Science, 2012, , 199-211.	1.3	8
58	Tight lower bounds for certain parameterized NP-hard problems. , 0, , .		7
59	An improved lower bound on approximation algorithms for the Closest Substring problem. Information Processing Letters, 2008, 107, 24-28.	0.6	7
60	Designing Fast and Friendly TCP to Fit High Speed Data Center Networks. , 2018, , .		7
61	Labeled Search Trees and Amortized Analysis: Improved Upper Bounds for NP-Hard Problems. Lecture Notes in Computer Science, 2003, , 148-157.	1.3	7
62	Algebraic specification of interconnection network relationships by permutation voltage graph mappings. Mathematical Systems Theory, 1996, 29, 451-470.	0.5	6
63	Bandwidth tree - a data structure for routing in networks with advanced reservations. , 0, , .		6
64	Interactive construction of multi-segment curved handles. , 0, , .		6
65	Paper-Strip Sculptures. , 2010, , .		6
66	Parameterized top- $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.c.$	0.9	6
67	The Improved linear problem kernel for planar connected dominating set. Theoretical Computer Science, 2013, 511, 2-12.	0.9	6
68	On Unknown Small Subsets and Implicit Measures: New Techniques for Parameterized Algorithms. Journal of Computer Science and Technology, 2014, 29, 870-878.	1.5	6
69	Security from the transparent computing aspect. , 2014, , .		6
70	Dealing with 4-variables by resolution: An improved MaxSAT algorithm. Theoretical Computer Science, 2017, 670, 33-44.	0.9	6
71	Tight bound on Johnson's algorithm for Max-SAT. , 0, , .		5
72	An effective branching strategy based on structural relationship among multiple forbidden induced subgraphs. Journal of Combinatorial Optimization, 2015, 29, 257-275.	1.3	5

#	ARTICLE	IF	CITATIONS
73	Resolution and linear CNF formulas: Improved (n,3)-MaxSAT algorithms. Theoretical Computer Science, 2019, 774, 113-123.	0.9	5
74	Dealing with 4-Variables by Resolution: An Improved MaxSAT Algorithm. Lecture Notes in Computer Science, 2015, , 178-188.	1.3	5
75	An Automated Signature Generation Approach for Polymorphic Worm Based on Color Coding. , 2009, , .		4
76	A practical parameterised algorithm for the individual haplotyping problem MLF. Mathematical Structures in Computer Science, 2010, 20, 851-863.	0.6	4
77	Single-cycle plain-woven objects. , 2010, , .		4
78	An Adaptive Probability Broadcast-Based Data Preservation Protocol in Wireless Sensor Networks. , 2011, , .		4
79	Distances between phylogenetic trees: A survey. Tsinghua Science and Technology, 2013, 18, 490-499.	6.1	4
80	An Improved SAT Algorithm in Terms of Formula Length. Lecture Notes in Computer Science, 2009, , 144-155.	1.3	4
81	A new fault-tolerant routing scheme for 2-dimensional mesh networks. , 0, , .		3
82	A Practical Exact Algorithm for the Individual Haplotyping Problem MEC. , 2008, , .		3
83	On Counting 3-D Matchings of Size k. Algorithmica, 2009, 54, 530-543.	1.3	3
84	On the pseudo-achromatic number problem. Theoretical Computer Science, 2009, 410, 818-829.	0.9	3
85	Polymorphic Worm Detection Using Signatures Based on Neighborhood Relation. , 2009, , .		3
86	Parameterized Complexity and Subexponential-Time Computability. Lecture Notes in Computer Science, 2012, , 162-195.	1.3	3
87	Tuning the Aggressive TCP Behavior for Highly Concurrent HTTP Connections in Data Center. , 2016, , .		3
88	A fixed-parameter algorithm for the maximum agreement forest problem on multifurcating trees. Science China Information Sciences, 2016, 59, 1-14.	4.3	3
89	Kernels for packing and covering problems. Theoretical Computer Science, 2019, 790, 152-166.	0.9	3
90	Polynomial Time Approximation Schemes and Parameterized Complexity. Lecture Notes in Computer Science, 2004, , 500-512.	1.3	3

#	ARTICLE	IF	CITATIONS
91	Resolution and Domination: An Improved Exact MaxSAT Algorithm. , 2019, , .		3
92	Probabilistic analysis of connectivity on mesh networks. , 0, , .		2
93	On Product Covering in Supply Chain Models: Natural Complete Problems for W[3] and W[4]. Lecture Notes in Computer Science, 2005, , 400-410.	1.3	2
94	A distributed algorithm based on probability for refining energy-efficiency of multicast trees in ad hoc networks. , 2005, , .		2
95	ARROW-TCP: Accelerating Transmission toward Efficiency and Fairness for High-Speed Networks. , 2009, , .		2
96	An Anonymous Communication Mechanism without Key Infrastructure Based on Multi-Paths Network Coding. , 2009, , .		2
97	On the Planarization of Wireless Sensor Networks. Algorithmica, 2011, 60, 593-608.	1.3	2
98	AAC: Adaptively Adjusting Concurrency by Exploiting Path Diversity in Datacenter Networks. Journal of Network and Systems Management, 2021, 29, 1.	4.9	2
99	Genus Characterizes the Complexity of Graph Problems: Some Tight Results. Lecture Notes in Computer Science, 2003, , 845-856.	1.3	2
100	Vertex Cover Kernelization. , 2008, , 1003-1005.		2
101	A Refined Branching Algorithm for the Maximum Satisfiability Problem. Algorithmica, 2022, 84, 982-1006.	1.3	2
102	Parallel routing in hypercube networks with faulty nodes. , 0, , .		1
103	Sorting Based Data Centric Storage. , 2008, , .		1
104	On the parameterized vertex cover problem for graphs with perfect matching. Science China Information Sciences, 2014, 57, 1-12.	4.3	1
105	Vertex Cover Search Trees. , 2008, , 1006-1008.		1
106	On PTAS for Planar Graph Problems. , 2006, , 299-313.		1
107	Circuit bottom fan-in and computational power. , 0, , .		0
108	A new control topology of information reliable spread. , 0, , .		0

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109	Payload analysis of anonymous communication system with host-based rerouting mechanism. , 0, , .		0
110	On fault tolerance of 3-dimensional mesh networks. , 2004, , .		0
111	A Prediction-Based AQM Algorithm for DiffServ Networks. , 2006, , .		0
112	C3P: A Cooperant Congestion Control Protocol in High Bandwidth-Delay Product Networks. , 2007, , .		0
113	Foreword from the Guest Editors. <i>Algorithmica</i> , 2008, 52, 113-113.	1.3	0
114	A Novel Anonymous Communication Strategy with Respect to Payment Mechanism. , 2008, , .		0
115	Identification of Breast Cancer Gene Signature in Protein Interaction Network Using Graph Centrality. , 2011, , .		0
116	Preface to the special issue on computing and combinatorics. <i>Journal of Combinatorial Optimization</i> , 2019, 37, 423-423.	1.3	0
117	Preface to the Special Issue on Computing and Combinatorics. <i>Algorithmica</i> , 2019, 81, 4165-4166.	1.3	0
118	On the Pseudo-achromatic Number Problem. <i>Lecture Notes in Computer Science</i> , 2008, , 78-89.	1.3	0
119	An $O^*(1.84 k)$ Parameterized Algorithm for the Multiterminal Cut Problem. <i>Lecture Notes in Computer Science</i> , 2013, , 84-94.	1.3	0
120	Complexity Issues on PTAS. , 2013, , 723-746.		0
121	Vertex Cover Search Trees. , 2016, , 2330-2333.		0
122	Vertex Cover Kernelization. , 2016, , 2327-2330.		0