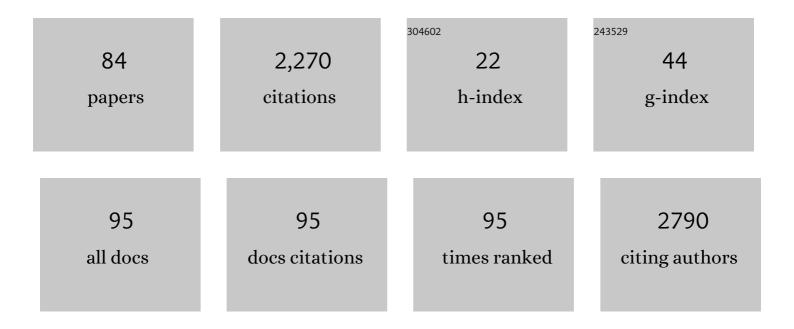
Gregory Kucherov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Set-Min Sketch: A Probabilistic Map for Power-Law Distributions with Application to <i>k</i> -Mer Annotation. Journal of Computational Biology, 2022, 29, 140-154.	0.8	4
2	Space-efficient representation of genomic k-mer count tables. Algorithms for Molecular Biology, 2022, 17, 5.	0.3	5
3	Minimally overlapping words for sequence similarity search. Bioinformatics, 2021, 36, 5344-5350.	1.8	19
4	Special Issue on Computer Science Symposium in Russia (2019). Theory of Computing Systems, 2021, 65, 441-443.	0.7	0
5	Simplitigs as an efficient and scalable representation of de Bruijn graphs. Genome Biology, 2021, 22, 96.	3.8	22
6	Information-theoretic problems of DNA-based storage systems. Informatsionno-Upravliaiushchie Sistemy, 2021, , 39-52.	0.3	0
7	Absent words in a sliding window with applications. Information and Computation, 2020, 270, 104461.	0.5	14
8	Rapid inference of antibiotic resistance and susceptibility by genomic neighbour typing. Nature Microbiology, 2020, 5, 455-464.	5.9	74
9	Optimal bounds for computing α-gapped repeats. Information and Computation, 2019, 268, 104434.	0.5	2
10	Evolution of biosequence search algorithms: a brief survey. Bioinformatics, 2019, 35, 3547-3552.	1.8	27
11	Full-Fledged Real-Time Indexing for Constant Size Alphabets. Algorithmica, 2017, 79, 387-400.	1.0	0
12	Minimal Absent Words in a Sliding Window and Applications to On-Line Pattern Matching. Lecture Notes in Computer Science, 2017, , 164-176.	1.0	6
13	RNF: a general framework to evaluate NGS read mappers. Bioinformatics, 2016, 32, 136-139.	1.8	7
14	Optimal Bounds for Computing \$\$alpha \$\$ α -gapped Repeats. Lecture Notes in Computer Science, 2016, , 245-255.	1.0	9
15	Approximate string matching using a bidirectional index. Theoretical Computer Science, 2016, 638, 145-158.	0.5	16
16	Approximate Tandem Repeats. , 2016, , 106-109.		1
17	Spaced seeds improve <i>k</i> -mer-based metagenomic classification. Bioinformatics, 2015, 31, 3584-3592.	1.8	84
18	On Maximal Unbordered Factors. Lecture Notes in Computer Science, 2015, , 343-354.	1.0	2

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19	Improved Filters for the Approximate Suffix-Prefix Overlap Problem. Lecture Notes in Computer Science, 2014, , 139-148.	1.0	3
20	Algorithms for path-constrained sequence alignment. Journal of Discrete Algorithms, 2014, 24, 48-58.	0.7	1
21	Using cascading Bloom filters to improve the memory usage for de Brujin graphs. Algorithms for Molecular Biology, 2014, 9, 2.	0.3	62
22	Cross-document pattern matching. Journal of Discrete Algorithms, 2014, 24, 40-47.	0.7	11
23	Using Cascading Bloom Filters to Improve the Memory Usage for de Brujin Graphs. Lecture Notes in Computer Science, 2013, , 364-376.	1.0	30
24	On the combinatorics of suffix arrays. Information Processing Letters, 2013, 113, 915-920.	0.4	12
25	On-line construction of position heaps. Journal of Discrete Algorithms, 2013, 20, 3-11.	0.7	8
26	Prefix Table Construction and Conversion. Lecture Notes in Computer Science, 2013, , 41-53.	1.0	8
27	Full-Fledged Real-Time Indexing for Constant Size Alphabets. Lecture Notes in Computer Science, 2013, , 650-660.	1.0	1
28	Minimal Discriminating Words Problem Revisited. Lecture Notes in Computer Science, 2013, , 129-140.	1.0	2
29	Efficient alternatives to PSI-BLAST. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2012, 60, 495-505.	0.8	Ο
30	Cross-Document Pattern Matching. Lecture Notes in Computer Science, 2012, , 196-207.	1.0	5
31	Computing Discriminating and Generic Words. Lecture Notes in Computer Science, 2012, , 307-317.	1.0	3
32	Pattern Matching on Sparse Suffix Trees. , 2011, , .		6
33	Regular Language Constrained Sequence Alignment Revisited. Journal of Computational Biology, 2011, 18, 771-781.	0.8	5
34	On-Line Construction of Position Heaps. Lecture Notes in Computer Science, 2011, , 326-337.	1.0	1
35	Regular Language Constrained Sequence Alignment Revisited. Lecture Notes in Computer Science, 2011, , 404-415.	1.0	0
36	On maximal repetitions of arbitrary exponent. Information Processing Letters, 2010, 110, 252-256.	0.4	12

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37	Back-translation for discovering distant protein homologies in the presence of frameshift mutations. Algorithms for Molecular Biology, 2010, 5, 6.	0.3	13
38	Designing Efficient Spaced Seeds for SOLiD Read Mapping. Advances in Bioinformatics, 2010, 2010, 1-12.	5.7	5
39	Diversity of Monomers in Nonribosomal Peptides: towards the Prediction of Origin and Biological Activity. Journal of Bacteriology, 2010, 192, 5143-5150.	1.0	102
40	Seed Design Framework for Mapping SOLiD Reads. Lecture Notes in Computer Science, 2010, , 384-396.	1.0	1
41	Searching for gapped palindromes. Theoretical Computer Science, 2009, 410, 5365-5373.	0.5	48
42	Structural pattern matching of nonribosomal peptides. BMC Structural Biology, 2009, 9, 15.	2.3	18
43	On Subset Seeds for Protein Alignment. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 483-494.	1.9	20
44	Back-Translation for Discovering Distant Protein Homologies. Lecture Notes in Computer Science, 2009, , 108-120.	1.0	0
45	CPM's 20th Anniversary: A Statistical Retrospective. Lecture Notes in Computer Science, 2009, , 1-11.	1.0	0
46	Optimal neighborhood indexing for protein similarity search. BMC Bioinformatics, 2008, 9, 534.	1.2	3
47	SIGffRid: A tool to search for sigma factor binding sites in bacterial genomes using comparative approach and biologically driven statistics. BMC Bioinformatics, 2008, 9, 73.	1.2	19
48	Efficient Seeding Techniques for Protein Similarity Search. Communications in Computer and Information Science, 2008, , 466-478.	0.4	1
49	Approximate Tandem Repeats. , 2008, , 48-51.		0
50	Searching for Gapped Palindromes. Lecture Notes in Computer Science, 2008, , 18-30.	1.0	8
51	NORINE: a database of nonribosomal peptides. Nucleic Acids Research, 2007, 36, D326-D331.	6.5	226
52	Diversity and structure of PIF/Harbinger-like elements in the genome of Medicago truncatula. BMC Genomics, 2007, 8, 409.	1.2	25
53	Reconsidering the significance of genomic word frequencies. Trends in Genetics, 2007, 23, 543-546.	2.9	31

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55	A UNIFYING FRAMEWORK FOR SEED SENSITIVITY AND ITS APPLICATION TO SUBSET SEEDS. Journal of Bioinformatics and Computational Biology, 2006, 04, 553-569.	0.3	58
56	AN OVERVIEW OF THE ALGORITHMIC SESSION OF MCCMB'05. Journal of Bioinformatics and Computational Biology, 2006, 04, xv-xvi.	0.3	0
57	Optimal Linear Arrangement of Interval Graphs. Lecture Notes in Computer Science, 2006, , 267-279.	1.0	20
58	Multiseed Lossless Filtration. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2005, 2, 51-61.	1.9	50
59	YASS: enhancing the sensitivity of DNA similarity search. Nucleic Acids Research, 2005, 33, W540-W543.	6.5	296
60	Combinatorial Search on Graphs Motivated by Bioinformatics Applications: A Brief Survey. Lecture Notes in Computer Science, 2005, , 16-27.	1.0	29
61	A Unifying Framework for Seed Sensitivity and Its Application to Subset Seeds. Lecture Notes in Computer Science, 2005, , 251-263.	1.0	4
62	Improved hit criteria for DNA local alignment. BMC Bioinformatics, 2004, 5, 149.	1.2	49
63	Linear-time computation of local periods. Theoretical Computer Science, 2004, 326, 229-240.	O.5	25
64	Multi-seed Lossless Filtration. Lecture Notes in Computer Science, 2004, , 297-310.	1.0	10
65	Finding approximate repetitions under Hamming distance. Theoretical Computer Science, 2003, 303, 135-156.	O.5	54
66	mreps: efficient and flexible detection of tandem repeats in DNA. Nucleic Acids Research, 2003, 31, 3672-3678.	6.5	333
67	Optimal Reconstruction of Graphs under the Additive Model. Algorithmica, 2000, 28, 104-124.	1.0	55
68	Patterns in Words versus Patterns in Trees: A Brief Survey and New Results. Lecture Notes in Computer Science, 2000, , 283-296.	1.0	2
69	On repetition-free binary words of minimal density. Theoretical Computer Science, 1999, 218, 161-175.	0.5	25
70	The complexity of some complementation problems. Information Processing Letters, 1999, 71, 159-165.	0.4	0
71	On maximal repetitions in words. Lecture Notes in Computer Science, 1999, , 374-385.	1.0	42
72	Reconstructing a Hamiltonian cycle by querying the graph: Application to DNA physical mapping. Discrete Applied Mathematics, 1998, 88, 147-165.	0.5	54

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73	Visualization of dynamic automata using Padnon. Lecture Notes in Computer Science, 1998, , 25-28.	1.0	о
74	Matching a set of strings with variable length don't cares. Theoretical Computer Science, 1997, 178, 129-154.	0.5	42
75	Valentin Antimirov (1961–1995). Theoretical Computer Science, 1996, 155, 289-290.	0.5	Ο
76	Undecidability of ground reducibility for word rewriting systems with variables. Information Processing Letters, 1995, 53, 209-215.	0.4	6
77	Decidability of Regularity and Related Properties of Ground Normal Form Languages. Information and Computation, 1995, 118, 91-100.	0.5	13
78	The complexity of testing ground reducibility for linear word rewriting systems with variables. Lecture Notes in Computer Science, 1995, , 262-275.	1.0	2
79	Some results on top-context-free tree languages. , 1994, , 157-171.		3
80	Decidability of regularity and related properties of ground normal form languages. Lecture Notes in Computer Science, 1993, , 272-286.	1.0	5
81	On relationship between term rewriting systems and regular tree languages. Lecture Notes in Computer Science, 1991, , 299-311.	1.0	13
82	A new quasi-reducibility testing algorithm and its application to proofs by induction. Lecture Notes in Computer Science, 1988, , 204-213.	1.0	6
83	Finding repeats with fixed gap. , 0, , .		16
84	Estimating seed sensitivity on homogeneous alignments. , 0, , .		14