

# David N Tse

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7880034/publications.pdf>

Version: 2024-02-01

38  
papers

2,314  
citations

567281

15  
h-index

610901

24  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hidden Hamiltonian Cycle Recovery via Linear Programming. <i>Operations Research</i> , 2020, 68, 53-70.	1.9	11
2	Prism Removes Consensus Bottleneck for Smart Contracts. , 2020, , .		7
3	Spectral Jaccard Similarity: A New Approach to Estimating Pairwise Sequence Alignments. <i>Patterns</i> , 2020, 1, 100081.	5.9	9
4	RefShannon: A genome-guided transcriptome assembler using sparse flow decomposition. <i>PLoS ONE</i> , 2020, 15, e0232946.	2.5	13
5	Determining sequencing depth in a single-cell RNA-seq experiment. <i>Nature Communications</i> , 2020, 11, 774.	12.8	74
6	Spectral Jaccard Similarity: A New Approach to Estimating Pairwise Sequence Alignments. <i>Lecture Notes in Computer Science</i> , 2020, , 223-225.	1.3	0
7	Large dataset enables prediction of repair after CRISPRâ€“Cas9 editing in primary T cells. <i>Nature Biotechnology</i> , 2019, 37, 1034-1037.	17.5	87
8	Valid Post-clustering Differential Analysis for Single-Cell RNA-Seq. <i>Cell Systems</i> , 2019, 9, 383-392.e6.	6.2	45
9	Longitudinal multi-omics of hostâ€“microbe dynamics in prediabetes. <i>Nature</i> , 2019, 569, 663-671.	27.8	391
10	Somatic mutations render human exome and pathogen DNA more similar. <i>PLoS ONE</i> , 2019, 14, e0197949.	2.5	0
11	Polar Coding for Parallel Gaussian Channels. , 2019, , .		1
12	Optimal compressed representation of high throughput sequence data via light assembly. <i>Nature Communications</i> , 2018, 9, 566.	12.8	14
13	An interpretable framework for clustering single-cell RNA-Seq datasets. <i>BMC Bioinformatics</i> , 2018, 19, 93.	2.6	49
14	Novel probabilistic models of spatial genetic ancestry with applications to stratification correction in genome-wide association studies. <i>Bioinformatics</i> , 2017, 33, 879-885.	4.1	6
15	HINGE: long-read assembly achieves optimal repeat resolution. <i>Genome Research</i> , 2017, 27, 747-756.	5.5	88
16	Fundamental Limits of Genome Assembly Under an Adversarial Erasure Model. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2016, 2, 199-208.	2.1	10
17	Capacity-achieving rateless polar codes. , 2016, , .		44
18	Fast and accurate single-cell RNA-seq analysis by clustering of transcript-compatibility counts. <i>Genome Biology</i> , 2016, 17, 112.	8.8	109

#	ARTICLE	IF	CITATIONS
19	Reduce the Complexity of List Decoding of Polar Codes by Tree-Pruning. IEEE Communications Letters, 2016, 20, 204-207.	4.1	29
20	FinisherSC: a repeat-aware tool for upgrading <i>de novo</i> assembly using long reads. Bioinformatics, 2015, 31, 3207-3209.	4.1	123
21	Optimal haplotype assembly from high-throughput mate-pair reads. , 2015, , .		6
22	Fundamental Limits of Search. Cell Systems, 2015, 1, 102-103.	6.2	4
23	Network Risk Limiting Dispatch: Optimal Control and Price of Uncertainty. IEEE Transactions on Automatic Control, 2014, 59, 2442-2456.	5.7	34
24	Optimal assembly for high throughput shotgun sequencing. BMC Bioinformatics, 2013, 14, S18.	2.6	63
25	Asynchronous Capacity per Unit Cost. IEEE Transactions on Information Theory, 2013, 59, 1213-1226.	2.4	27
26	Optimal DNA shotgun sequencing: Noisy reads are as good as noiseless reads. , 2013, , .		22
27	Reference-based DNA shotgun sequencing: Information theoretic limits. , 2013, , .		7
28	Information theory for DNA sequencing: Part I: A basic model. , 2012, , .		8
29	A compression algorithm using mis-aligned side-information. , 2012, , .		12
30	Distributed algorithms for optimal power flow problem. , 2012, , .		82
31	Efficient file synchronization: A distributed source coding approach. , 2011, , .		30
32	Interference neutralization in distributed lossy source coding. , 2010, , .		15
33	The two-user Gaussian interference channel: a deterministic view. European Transactions on Telecommunications, 2008, 19, 333-354.	1.2	187
34	Polarization degrees of freedom. , 2008, , .		8
35	Channel Identification: Secret Sharing using Reciprocity in Ultrawideband Channels. , 2007, , .		23
36	Spectrum sharing for unlicensed bands. IEEE Journal on Selected Areas in Communications, 2007, 25, 517-528.	14.0	642

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37	Prediction and Modeling for the Time-Evolving Ultra-Wideband Channel. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 340-356.	10.8	22
38	A framework for robust measurement-based admission control. Computer Communication Review, 1997, 27, 237-248.	1.8	8