Ilan Shomorony

List of Publications by Year
in descending order

18 papers	**424** citations	1163117 **8** h-index	1125743 **13** g-index
18 all docs	**18** docs citations	**18** times ranked	**383** citing authors

#	Article	IF	Citations
1	Information-Theoretic Foundations of DNA Data Storage. Foundations and Trends in Communications and Information Theory, 2022, 19, 1-106.	3.1	11
2	Coded Shotgun Sequencing. IEEE Journal on Selected Areas in Information Theory, 2022, 3, 147-159.	2.5	4
3	JIND: joint integration and discrimination for automated single-cell annotation. Bioinformatics, 2022, 38, 2488-2495.	4.1	3
4	Achieving the Capacity of a DNA Storage Channel with Linear Coding Schemes. , 2022, , .		0
5	DNA-Based Storage: Models and Fundamental Limits. IEEE Transactions on Information Theory, 2021, 67, 3675-3689.	2.4	32
6	Sketching and Sequence Alignment: A Rate-Distortion Perspective. , 2021, , .		0
7	Torn-Paper Coding. IEEE Transactions on Information Theory, 2021, 67, 7904-7913.	2.4	5
8	Spectral Jaccard Similarity: A New Approach to Estimating Pairwise Sequence Alignments. Patterns, 2020, 1, 100081.	5.9	9
9	Communicating over the Torn-Paper Channel. , 2020, , .		5
10	Capacity Results for the Noisy Shuffling Channel. , 2019, , .		38
11	HINGE: long-read assembly achieves optimal repeat resolution. Genome Research, 2017, 27, 747-756.	5.5	88
12	Fundamental limits of DNA storage systems. , 2017, , .		73
13	Fundamental Limits of Genome Assembly Under an Adversarial Erasure Model. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2016, 2, 199-208.	2.1	10
14	Information-optimal genome assembly via sparse read-overlap graphs. Bioinformatics, 2016, 32, i494-i502.	4.1	23
15	Network Compression: Worst Case Analysis. IEEE Transactions on Information Theory, 2015, 61, 3980-3995.	2.4	3
16	Degrees of Freedom of Two-Hop Wireless Networks: Everyone Gets the Entire Cake. IEEE Transactions on Information Theory, 2014, 60, 2417-2431.	2.4	61
17	Computing Half-Duplex Schedules in Gaussian Relay Networks via Min-Cut Approximations. IEEE Transactions on Information Theory, 2014, 60, 7204-7220.	2.4	15
18	Worst-Case Additive Noise in Wireless Networks. IEEE Transactions on Information Theory, 2013, 59, 3833-3847.	2.4	44