Arya Mazumdar

List of Publications by Year
in descending order

40 papers	708 citations	840776 11 h-index	752698 20 g-index
41 all docs	41 docs citations	41 times ranked	422 citing authors

#	Article	IF	Citations
1	Codes in Permutations and Error Correction for Rank Modulation. IEEE Transactions on Information Theory, 2010, 56, 3158-3165.	2.4	120
2	Bounds on the Size of Locally Recoverable Codes. IEEE Transactions on Information Theory, 2015, 61, 5787-5794.	2.4	118
3	An upper bound on the size of locally recoverable codes. , 2013, , .		67
4	Combinatorial Alphabet-Dependent Bounds for Locally Recoverable Codes. IEEE Transactions on Information Theory, 2018, 64, 3481-3492.	2.4	36
5	Cooperative local repair in distributed storage. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	34
6	Nonadaptive Group Testing With Random Set of Defectives. IEEE Transactions on Information Theory, 2016, 62, 7522-7531.	2.4	32
7	Storage Capacity of Repairable Networks. IEEE Transactions on Information Theory, 2015, 61, 5810-5821.	2.4	29
8	On a duality between recoverable distributed storage and index coding. , 2014, , .		28
9	Update-Efficiency and Local Repairability Limits for Capacity Approaching Codes. IEEE Journal on Selected Areas in Communications, 2014, 32, 976-988.	14.0	28
10	Coding for High-Density Recording on a 1-D Granular Magnetic Medium. IEEE Transactions on Information Theory, 2011, 57, 7403-7417.	2.4	25
11	Restricted Isometry Property of Random Subdictionaries. IEEE Transactions on Information Theory, 2015, 61, 4440-4450.	2.4	17
12	Security in Locally Repairable Storage. IEEE Transactions on Information Theory, 2016, 62, 6204-6217.	2.4	14
13	Compression in the Space of Permutations. IEEE Transactions on Information Theory, 2015, 61, 6417-6431.	2.4	12
14	Hamming codes as error-reducing codes. , 2016, , .		12
15	Local recovery in data compression for general sources. , 2015, , .		11
16	Novel Impossibility Results for Group-Testing. , 2018, , .		10
17	Communication-Efficient and Byzantine-Robust Distributed Learning With Error Feedback. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 942-953.	2.5	10
18	Covering arbitrary point patterns. , 2012, , .		8

#	Article	IF	Citations
19	Group Testing Schemes From Codes and Designs. IEEE Transactions on Information Theory, 2017, 63, 7131-7141.	2.4	8
20	Storage Capacity as an Information-Theoretic Vertex Cover and the Index Coding Rate. IEEE Transactions on Information Theory, 2019, 65, 5580-5591.	2.4	8
21	Sparse recovery properties of statistical RIP matrices. , 2011, , .		7
22	Learning and Recovery in the ReLU Model. , 2019, , .		7
23	vqSGD: Vector Quantized Stochastic Gradient Descent. IEEE Transactions on Information Theory, 2022, 68, 4573-4587.	2.4	7
24	Security in locally repairable storage. , 2015, , .		6
25	Local Partial Clique and Cycle Covers for Index Coding. , 2016, , .		4
26	Communication Efficient and Byzantine Tolerant Distributed Learning. , 2020, , .		4
27	Trace Reconstruction: Generalized and Parameterized. IEEE Transactions on Information Theory, 2021, 67, 3233-3250.	2.4	4
28	Achievable schemes and limits for local recovery on a graph. , 2014, , .		3
29	Alphabet-size dependent bounds for exact repair in distributed storage. , 2015, , .		3
30	Bounds on the rate of linear locally repairable codes over small alphabets. , 2016, , .		3
31	Low rank approximation and decomposition of large matrices using error correcting codes. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	3
32	Communication-Efficient and Byzantine-Robust Distributed Learning. , 2020, , .		3
33	Probabilistic Group Testing with a Linear Number of Tests. , 2021, , .		3
34	Group testing schemes from low-weight codewords of BCH codes. , 2016, , .		2
35	Estimation of sparsity via simple measurements. , 2017, , .		2
36	Capacity of Locally Recoverable Codes. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
37	Linear Programming Approximations for Index Coding. IEEE Transactions on Information Theory, 2019, 65, 5547-5564.	2.4	2
38	Semisupervised Clustering by Queries and Locally Encodable Source Coding. IEEE Transactions on Information Theory, 2021, 67, 1141-1155.	2.4	2
39	Index coding and local partial clique covers. , 2016, , .		1
40	Storage capacity as an information-theoretic analogue of vertex cover. , 2017, , .		1