

# Hua Sun

## List of Publications by Year in descending order

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67  
papers

1,649  
citations

567144

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67  
docs citations

67  
times ranked

303  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Capacity of Private Information Retrieval. IEEE Transactions on Information Theory, 2017, 63, 4075-4088.	1.5	304
2	The Capacity of Robust Private Information Retrieval With Colluding Databases. IEEE Transactions on Information Theory, 2018, 64, 2361-2370.	1.5	192
3	The Capacity of Symmetric Private Information Retrieval. IEEE Transactions on Information Theory, 2019, 65, 322-329.	1.5	112
4	Private Information Retrieval from MDS Coded Data With Colluding Servers: Settling a Conjecture by Freij-Hollanti <i>et al</i> .. IEEE Transactions on Information Theory, 2018, 64, 1000-1022.	1.5	88
5	Capacity-Achieving Private Information Retrieval Codes With Optimal Message Size and Upload Cost. IEEE Transactions on Information Theory, 2019, 65, 7613-7627.	1.5	84
6	Optimal Download Cost of Private Information Retrieval for Arbitrary Message Length. IEEE Transactions on Information Forensics and Security, 2017, 12, 2920-2932.	4.5	78
7	Multiround Private Information Retrieval: Capacity and Storage Overhead. IEEE Transactions on Information Theory, 2018, 64, 5743-5754.	1.5	59
8	The Capacity of Private Computation. IEEE Transactions on Information Theory, 2019, 65, 3880-3897.	1.5	58
9	Cross Subspace Alignment and the Asymptotic Capacity of $\mathbb{X}$ -Secure $\mathbb{T}$ -Private Information Retrieval. IEEE Transactions on Information Theory, 2019, 65, 5783-5798.	1.5	57
10	The Capacity of Symmetric Private Information Retrieval. , 2016, , .		44
11	Topological interference management with alternating connectivity. , 2013, , .		43
12	The Capacity of Private Information Retrieval With Eavesdroppers. IEEE Transactions on Information Theory, 2019, 65, 3198-3214.	1.5	36
13	Capacity-Achieving Private Information Retrieval Codes From MDS-Coded Databases With Minimum Message Size. IEEE Transactions on Information Theory, 2020, 66, 4904-4916.	1.5	36
14	On the Optimality of Treating Interference as Noise: General Message Sets. IEEE Transactions on Information Theory, 2015, 61, 3722-3736.	1.5	29
15	Blind interference alignment for private information retrieval. , 2016, , .		29
16	A Shannon-Theoretic Approach to the Storage-Retrieval Tradeoff in PIR Systems. , 2018, , .		25
17	Topological interference management with multiple antennas. , 2014, , .		24
18	Index Coding Capacity: How Far Can One Go With Only Shannon Inequalities?. IEEE Transactions on Information Theory, 2015, 61, 3041-3055.	1.5	24

#	ARTICLE	IF	CITATIONS
19	On the Optimality of Treating Interference as Noise for $K$ -User Parallel Gaussian Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 1911-1930.	1.5	21
20	TDMA is Optimal for All-Unicast DoF Region of TIM if and only if Topology is Chordal Bipartite. IEEE Transactions on Information Theory, 2018, 64, 2065-2076.	1.5	19
21	Multilevel topological interference management. , 2013, , .		18
22	Symmetric Private Information Retrieval with Mismatched Coded Messages and Randomness. , 2019, , .		17
23	Breaking the MDS-PIR Capacity Barrier via Joint Storage Coding. Information (Switzerland), 2019, 10, 265.	1.7	15
24	Opportunistic Topological Interference Management. IEEE Transactions on Communications, 2020, 68, 521-535.	4.9	15
25	The Capacity of Private Information Retrieval with Disjoint Colluding Sets. , 2017, , .		14
26	Capacity-Achieving Private Information Retrieval Codes from MDS-Coded Databases with Minimum Message Size. , 2019, , .		14
27	Opportunistic Treating Interference as Noise. IEEE Transactions on Information Theory, 2020, 66, 520-533.	1.5	13
28	On the Optimal Load-Memory Tradeoff of Cache-Aided Scalar Linear Function Retrieval. IEEE Transactions on Information Theory, 2021, 67, 4001-4018.	1.5	13
29	Information Theoretic Secure Aggregation with User Dropouts. , 2021, , .		11
30	Multilevel Topological Interference Management: A TIM-TIN Perspective. IEEE Transactions on Communications, 2021, 69, 7350-7362.	4.9	8
31	Expand-and-Randomize: An Algebraic Approach to Secure Computation. Entropy, 2021, 23, 1461.	1.1	8
32	Genie Chains: Exploring Outer Bounds on the Degrees of Freedom of MIMO Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 5573-5602.	1.5	7
33	The Minimum Upload Cost of Symmetric Private Information Retrieval. , 2020, , .		7
34	On the Tradeoff Between Computation and Communication Costs for Distributed Linearly Separable Computation. IEEE Transactions on Communications, 2021, 69, 7390-7405.	4.9	7
35	On the Fundamental Limits of Cache-Aided Multiuser Private Information Retrieval. IEEE Transactions on Communications, 2021, 69, 5828-5842.	4.9	7
36	Distributed Linearly Separable Computation. IEEE Transactions on Information Theory, 2022, 68, 1259-1278.	1.5	7

#	ARTICLE	IF	CITATIONS
37	Conditional Disclosure of Secrets: A Noise and Signal Alignment Approach. IEEE Transactions on Communications, 2022, 70, 4052-4062.	4.9	7
38	On the separability of GDoF region for parallel Gaussian TIN optimal interference networks. , 2015, , .		6
39	The $\mu$ -error Capacity of Symmetric PIR with Byzantine Adversaries. , 2018, , .		6
40	The Capacity of Private Information Retrieval with Eavesdroppers. , 2018, , .		6
41	Conditional Disclosure of Secrets: A Noise and Signal Alignment Approach. , 2020, , .		6
42	Cache-aided Multiuser Private Information Retrieval. , 2020, , .		5
43	On the Linear Capacity of Conditional Disclosure of Secrets. , 2021, , .		5
44	On Secure Distributed Linearly Separable Computation. IEEE Journal on Selected Areas in Communications, 2022, 40, 912-926.	9.7	5
45	Cache-Aided Matrix Multiplication Retrieval. IEEE Transactions on Information Theory, 2022, 68, 4301-4319.	1.5	5
46	The Capacity of Private Computation. , 2018, , .		4
47	Capacity-Achieving Private Information Retrieval Codes with Optimal Message Size and Upload Cost. , 2019, , .		4
48	The Capacity of Anonymous Communications. IEEE Transactions on Information Theory, 2019, 65, 3871-3879.	1.5	4
49	Novel Converse for Device-to-Device Demand-Private Caching with a Trusted Server. , 2020, , .		4
50	On the Capacity of Computation Broadcast. IEEE Transactions on Information Theory, 2020, 66, 3417-3434.	1.5	4
51	Two-Level Private Information Retrieval. , 2021, , .		4
52	Replication-Based Outer Bounds: On the Optimality of "Half the Cake" for Rank-Deficient MIMO Interference Networks. IEEE Transactions on Information Theory, 2017, 63, 6607-6621.	1.5	3
53	On the Randomness Cost of Linear Secure Computation : (Invited Presentation). , 2019, , .		3
54	On the Capacity of Locally Decodable Codes. IEEE Transactions on Information Theory, 2020, 66, 6566-6579.	1.5	3

#	ARTICLE	IF	CITATIONS
55	Cache-Aided General Linear Function Retrieval. Entropy, 2021, 23, 25.	1.1	3
56	The Capacity of Anonymous Communications. , 2018, , .		2
57	Opportunistic Topological Interference Management. , 2019, , .		2
58	Private Information Delivery. , 2019, , .		2
59	Cache-Aided Scalar Linear Function Retrieval. , 2020, , .		2
60	Compound Secure Groupcast: Key Assignment for Selected Broadcasting. , 2021, , .		2
61	A New Design of Cache-aided Multiuser Private Information Retrieval with Uncoded Prefetching. , 2021, , .		2
62	Secure Groupcast With Shared Keys. IEEE Transactions on Information Theory, 2022, 68, 4681-4699.	1.5	2
63	On the Fundamental Limits of Device-to-Device Private Caching Under Uncoded Cache Placement and User Collusion. IEEE Transactions on Information Theory, 2022, 68, 5701-5729.	1.5	2
64	Private Information Delivery. IEEE Transactions on Information Theory, 2020, 66, 7672-7683.	1.5	1
65	Secure Distributed Linearly Separable Computation. , 2021, , .		1
66	Compound Secure Groupcast: Key Assignment for Selected Broadcasting. IEEE Journal on Selected Areas in Information Theory, 2022, , 1-1.	1.9	1
67	Two-Level Private Information Retrieval. IEEE Journal on Selected Areas in Information Theory, 2022, , 1-1.	1.9	0