

# Tie Liu

## List of Publications by Year in descending order

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60  
papers

1,597  
citations

567281

15  
h-index

552781

26  
g-index

60  
all docs

60  
docs citations

60  
times ranked

934  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Note on the Secrecy Capacity of the Multiple-Antenna Wiretap Channel. IEEE Transactions on Information Theory, 2009, 55, 2547-2553.	2.4	405
2	An Extremal Inequality Motivated by Multiterminal Information-Theoretic Problems. IEEE Transactions on Information Theory, 2007, 53, 1839-1851.	2.4	160
3	Multiple-Input Multiple-Output Gaussian Broadcast Channels With Confidential Messages. IEEE Transactions on Information Theory, 2010, 56, 4215-4227.	2.4	160
4	The Capacity Region of the Degraded Multiple-Input Multiple-Output Compound Broadcast Channel. IEEE Transactions on Information Theory, 2009, 55, 5011-5023.	2.4	82
5	On the average rate performance of hybrid-ARQ in quasi-static fading channels. IEEE Transactions on Communications, 2009, 57, 3339-3352.	7.8	81
6	Multiple-Input Multiple-Output Gaussian Broadcast Channels With Common and Confidential Messages. IEEE Transactions on Information Theory, 2010, 56, 5477-5487.	2.4	73
7	A Vector Generalization of Costa's Entropy-Power Inequality With Applications. IEEE Transactions on Information Theory, 2010, 56, 1865-1879.	2.4	64
8	New Results on Multiple-Input Multiple-Output Broadcast Channels With Confidential Messages. IEEE Transactions on Information Theory, 2013, 59, 1346-1359.	2.4	59
9	Multivariate Mutual Information Inspired by Secret-Key Agreement. Proceedings of the IEEE, 2015, 103, 1883-1913.	21.3	55
10	Secrecy Capacity per Unit Cost. IEEE Journal on Selected Areas in Communications, 2013, 31, 1909-1920.	14.0	45
11	Generalized results of transmission capacities for overlaid wireless networks. , 2009, , .		43
12	MIMO Gaussian broadcast channels with confidential and common messages. , 2010, , .		37
13	Capacity-Achieving Private Information Retrieval Codes From MDS-Coded Databases With Minimum Message Size. IEEE Transactions on Information Theory, 2020, 66, 4904-4916.	2.4	36
14	Secret Writing on Dirty Paper: A Deterministic View. IEEE Transactions on Information Theory, 2012, 58, 3419-3429.	2.4	24
15	Symmetrical Multilevel Diversity Coding and Subset Entropy Inequalities. IEEE Transactions on Information Theory, 2014, 60, 84-103.	2.4	22
16	Gaussian broadcast channels with receiver message side information. , 2009, , .		21
17	Successive Omniscience. IEEE Transactions on Information Theory, 2016, 62, 3270-3289.	2.4	19
18	Secure Symmetrical Multilevel Diversity Coding. IEEE Transactions on Information Theory, 2013, 59, 3572-3581.	2.4	15

#	ARTICLE	IF	CITATIONS
19	On the Tradeoff Region of Secure Exact-Repair Regenerating Codes. IEEE Transactions on Information Theory, 2017, 63, 7253-7266.	2.4	14
20	Capacity-Achieving Private Information Retrieval Codes from MDS-Coded Databases with Minimum Message Size. , 2019, , .		14
21	MIMO Gaussian broadcast channels with confidential messages. , 2009, , .		13
22	Security Embedding Codes. IEEE Transactions on Information Forensics and Security, 2012, 7, 148-159.	6.9	13
23	Successive omniscience. , 2015, , .		12
24	Multilevel Diversity Coding With Regeneration. IEEE Transactions on Information Theory, 2016, 62, 4833-4847.	2.4	12
25	Joint Rate Control and Scheduling for Real-Time Wireless Networks. IEEE Transactions on Wireless Communications, 2017, 16, 4562-4570.	9.2	12
26	MIMO broadcasting with common, private and confidential messages. , 2008, , .		9
27	Gaussian Robust Sequential and Predictive Coding. IEEE Transactions on Information Theory, 2013, 59, 3635-3652.	2.4	8
28	Clustering by multivariate mutual information under Chow-Liu tree approximation. , 2015, , .		8
29	Generalized Cut-Set Bounds for Broadcast Networks. IEEE Transactions on Information Theory, 2015, 61, 2983-2996.	2.4	8
30	Coding for parallel Gaussian bi-directional relay channels: A deterministic approach. , 2011, , .		6
31	A game-theoretic perspective on communication for omniscience. , 2016, , .		6
32	The capacity-equivocation region of the MIMO Gaussian wiretap channel. , 2010, , .		4
33	On dispersion of modulo lattice additive noise channels. , 2011, , .		4
34	Symmetrical multilevel diversity coding with an all-access encoder. , 2012, , .		4
35	A marginal characterization of entropy functions for conditional mutually independent random variables (with application to Wyner's common information). , 2015, , .		4
36	Multilevel diversity coding with regeneration: Separate coding achieves the MBR point. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
37	Weakly Secure Symmetric Multilevel Diversity Coding. , 2019, , .		4
38	Individually Conditional Individual Mutual Information Bound on Generalization Error. IEEE Transactions on Information Theory, 2022, 68, 3304-3316.	2.4	4
39	Private Broadcasting Over Independent Parallel Channels. IEEE Transactions on Information Theory, 2014, 60, 5173-5187.	2.4	3
40	Multilevel diversity coding with regeneration. , 2015, , .		3
41	Duality between feature selection and data clustering. , 2016, , .		3
42	Detection of Cooperative Interactions in Logistic Regression Models. IEEE Transactions on Signal Processing, 2017, 65, 1765-1780.	5.3	3
43	Individually Conditional Individual Mutual Information Bound on Generalization Error. , 2021, , .		3
44	Broadcasting with receiver message side information: A deterministic approach. , 2008, , .		2
45	A channel-enhancement approach to the secrecy capacity of the multiantenna wiretap channel. , 2009, , .		2
46	Security embedding codes. , 2010, , .		2
47	Worst-case expected-rate loss of slow-fading channels. , 2012, , .		2
48	Generalized cut-set bounds for broadcast networks. , 2013, , .		2
49	On secrecy capacity per unit cost. , 2009, , .		1
50	A vector generalization of Costa entropy-power inequality and applications. , 2009, , .		1
51	Generalized cut-set bounds for networks with collocated messages. , 2012, , .		1
52	Worst-case expected-capacity loss of slow-fading channels. IEEE Transactions on Information Theory, 2013, 59, 3764-3779.	2.4	1
53	Two-user degraded broadcast channel with channel state information at transmitter and message side information at receivers. , 2014, , .		1
54	Symmetric two-user Gaussian interference channel with common message with very low interference. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
55	Pairwise interaction analysis of logistic regression models. , 2016, , .		1
56	Multilevel Diversity Coding with Secure Regeneration: Separate Coding Achieves the MBR Point. Entropy, 2018, 20, 751.	2.2	1
57	Multilevel diversity coding with secrecy constraints. , 2009, , .		0
58	The rate region of secure symmetrical multilevel diversity coding. , 2012, , .		0
59	Coding for Parallel Gaussian Bidirectional Relay Channels: A Deterministic Approach. IEEE Transactions on Information Theory, 2016, 62, 260-271.	2.4	0
60	Weakly Secure Symmetric Multilevel Diversity Coding. IEEE Transactions on Information Theory, 2020, 66, 7033-7055.	2.4	0