

# Amin Gohari

## List of Publications by Year in descending order

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95  
papers

1,534  
citations

471371

17  
h-index

395590

33  
g-index

96  
all docs

96  
docs citations

96  
times ranked

704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion-Based Nanonetworking: A New Modulation Technique and Performance Analysis. IEEE Communications Letters, 2013, 17, 645-648.	2.5	155
2	Achievability Proof via Output Statistics of Random Binning. IEEE Transactions on Information Theory, 2014, 60, 6760-6786.	1.5	95
3	Information-Theoretic Key Agreement of Multiple Terminals"Part I. IEEE Transactions on Information Theory, 2010, 56, 3973-3996.	1.5	93
4	Receivers for Diffusion-Based Molecular Communication: Exploiting Memory and Sampling Rate. IEEE Journal on Selected Areas in Communications, 2014, 32, 2368-2380.	9.7	89
5	Information theory of molecular communication: directions and challenges. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2016, 2, 120-142.	1.4	86
6	A technique for deriving one-shot achievability results in network information theory. , 2013, , .		64
7	Information-Theoretic Key Agreement of Multiple Terminals"Part II: Channel Model. IEEE Transactions on Information Theory, 2010, 56, 3997-4010.	1.5	50
8	Capacity of Diffusion-Based Molecular Communication Networks Over LTI-Poisson Channels. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 188-201.	1.4	48
9	ISI-Avoiding Modulation for Diffusion-Based Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 48-59.	1.4	47
10	Type-Based Sign Modulation and Its Application for ISI Mitigation in Molecular Communication. IEEE Transactions on Communications, 2018, 66, 180-193.	4.9	43
11	On hypercontractivity and a data processing inequality. , 2014, , .		39
12	Channel Simulation via Interactive Communications. IEEE Transactions on Information Theory, 2015, 61, 2964-2982.	1.5	33
13	Evaluation of Marton's Inner Bound for the General Broadcast Channel. IEEE Transactions on Information Theory, 2012, 58, 608-619.	1.5	29
14	Quantum Achievability Proof via Collision Relative Entropy. IEEE Transactions on Information Theory, 2014, 60, 7980-7986.	1.5	27
15	Guessing Facets: Polytope Structure and Improved LP Decoder. IEEE Transactions on Information Theory, 2009, 55, 3479-3487.	1.5	25
16	Generating dependent random variables over networks. , 2011, , .		25
17	Channel simulation via interactive communications. , 2012, , .		24
18	On hypercontractivity and the mutual information between Boolean functions. , 2013, , .		24

#	ARTICLE	IF	CITATIONS
19	Coordination via a relay. , 2012, , .		23
20	Achievability proof via output statistics of random binning. , 2012, , .		22
21	On Medium Chemical Reaction in Diffusion-Based Molecular Communication: A Two-Way Relaying Example. IEEE Transactions on Communications, 2019, 67, 1117-1132.	4.9	22
22	Adaptive Transmission Rate With a Fixed Threshold Decoder for Diffusion-Based Molecular Communication. IEEE Transactions on Communications, 2016, 64, 236-248.	4.9	21
23	Non-asymptotic output statistics of Random Binning and its applications. , 2013, , .		19
24	On Marton's Inner Bound and Its Optimality for Classes of Product Broadcast Channels. IEEE Transactions on Information Theory, 2014, 60, 22-41.	1.5	18
25	Monotone Measures for Non-Local Correlations. IEEE Transactions on Information Theory, 2015, 61, 5185-5208.	1.5	18
26	The capacity region for two classes of product broadcast channels. , 2011, , .		15
27	Critical Graphs in Index Coding. IEEE Journal on Selected Areas in Communications, 2015, 33, 225-235.	9.7	15
28	Existence and Continuity of Differential Entropy for a Class of Distributions. IEEE Communications Letters, 2017, 21, 1469-1472.	2.5	15
29	Perfectly Secure Index Coding. IEEE Transactions on Information Theory, 2017, 63, 7382-7395.	1.5	15
30	On the duality of additivity and tensorization. , 2015, , .		14
31	Diffusion-Based Molecular Communication With Limited Molecule Production Rate. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2018, 4, 61-72.	1.4	14
32	Evaluation of Marton's inner bound for the general broadcast channel. , 2009, , .		13
33	On an outer bound and an inner bound for the general broadcast channel. , 2010, , .		13
34	$\Phi$ -Entropic Measures of Correlation. IEEE Transactions on Information Theory, 2018, 64, 2193-2211.	1.5	12
35	Simulation of a Channel with Another Channel. IEEE Transactions on Information Theory, 2016, , 1-1.	1.5	11
36	Coding for Positive Rate in the Source Model Key Agreement Problem. IEEE Transactions on Information Theory, 2020, 66, 6303-6323.	1.5	11

#	ARTICLE	IF	CITATIONS
37	Communication For Omniscience by a Neutral Observer and Information-Theoretic Key Agreement of Multiple Terminals. , 2007, , .		10
38	New bounds on the information-theoretic key agreement of multiple terminals. , 2008, , .		10
39	Adaptive molecule transmission rate for diffusion based molecular communication. , 2015, , .		10
40	On the Evaluation of Marton's Inner Bound for Two-Receiver Broadcast Channels. IEEE Transactions on Information Theory, 2019, 65, 1361-1371.	1.5	10
41	An outer bound to the admissible source region of broadcast channels with arbitrarily correlated sources and channel variations. , 2008, , .		9
42	Secure channel simulation. , 2012, , .		9
43	Capacity of LTI-Poisson channel for diffusion based molecular communication. , 2015, , .		9
44	Outer Bounds for Multiuser Settings: The Auxiliary Receiver Approach. IEEE Transactions on Information Theory, 2022, 68, 701-736.	1.5	9
45	When is it possible to simulate a DMC channel from another?. , 2013, , .		8
46	On Dimension Bounds for Auxiliary Quantum Systems. IEEE Transactions on Information Theory, 2014, 60, 368-387.	1.5	8
47	Perfectly secure index coding. , 2015, , .		7
48	Comments On "Information-Theoretic Key Agreement of Multiple Terminals" Part I. IEEE Transactions on Information Theory, 2017, 63, 5440-5442.	1.5	7
49	An Information Inequality Motivated by the Gaussian Z-Interference Channel. , 2021, , .		7
50	On Marton's inner bound for broadcast channels. , 2012, , .		6
51	Improved cardinality bounds on the auxiliary random variables in Marton's inner bound. , 2013, , .		6
52	Maximal Rank Correlation. IEEE Communications Letters, 2016, 20, 117-120.	2.5	6
53	New Outer Bounds for the Two-Receiver Broadcast Channel. , 2020, , .		6
54	A generalized cut-set bound. , 2009, , .		5

#	ARTICLE	IF	CITATIONS
55	Beyond the Cut-Set Bound: Uncertainty Computations in Network Coding With Correlated Sources. IEEE Transactions on Information Theory, 2013, 59, 5708-5722.	1.5	5
56	From source model to quantum key distillation: An improved upper bound. , 2014, , .		5
57	Type based sign modulation for molecular communication. , 2016, , .		5
58	Physical layer network coding in molecular two-way relay networks. , 2016, , .		5
59	Deterministic Randomness Extraction from Generalized and Distributed Santha-Vazirani Sources. SIAM Journal on Computing, 2017, 46, 1-36.	0.8	5
60	On the capacity of signal dependent noise channels. , 2017, , .		5
61	How Compressible Are Innovation Processes?. IEEE Transactions on Information Theory, 2018, 64, 4843-4871.	1.5	5
62	On the Capacity of a Class of Signal-Dependent Noise Channels. IEEE Transactions on Information Theory, 2018, 64, 7828-7846.	1.5	5
63	Strengthened Cutset Upper Bound on the Capacity of the Relay Channel and Applications. , 2021, , .		5
64	Achievable Rates for the Relay Channel with Orthogonal Receiver Components. , 2021, , .		5
65	A Strengthened Cutset Upper Bound on the Capacity of the Relay Channel and Applications. IEEE Transactions on Information Theory, 2022, 68, 5013-5043.	1.5	5
66	On Marton's Inner Bound for the General Broadcast Channel. IEEE Transactions on Information Theory, 2014, 60, 3748-3762.	1.5	4
67	Zero error coordination. , 2015, , .		4
68	On Karner-Marton's sum modulo two problem. , 2015, , .		4
69	Playing games with bounded entropy. Games and Economic Behavior, 2019, 115, 363-380.	0.4	4
70	An Analytical Model for Molecular Communication Over a Non-Linear Reaction-Diffusion Medium. IEEE Transactions on Communications, 2021, 69, 8042-8054.	4.9	4
71	Transmission of a Bit Over a Discrete Poisson Channel With Memory. IEEE Transactions on Information Theory, 2021, 67, 4710-4727.	1.5	4
72	Learning under Distribution Mismatch and Model Misspecification. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
73	A Correlation Measure Based on Vector-Valued $L_p$ -Norms. IEEE Transactions on Information Theory, 2019, 65, 7985-8004.	1.5	3
74	Infeasibility Proof and Information State in Network Information Theory. IEEE Transactions on Information Theory, 2014, 60, 5992-6004.	1.5	2
75	Recovery From Random Samples in a Big Data Set. IEEE Communications Letters, 2015, 19, 1929-1932.	2.5	2
76	Information Theoretic Cutting of a Cake. IEEE Transactions on Information Theory, 2017, 63, 6950-6978.	1.5	2
77	Drift-diffusion explains response variability and capacity for tracking objects. Scientific Reports, 2019, 9, 11224.	1.6	2
78	On Zero-Error Molecular Communication With Multiple Molecule Types. IEEE Transactions on Communications, 2020, 68, 4311-4324.	4.9	2
79	Timing Modulation for Macro-Scale Molecular Communication. IEEE Wireless Communications Letters, 2020, 9, 1356-1360.	3.2	2
80	Secure noisy network coding. , 2013, , .		1
81	Diffusion based molecular communication: A simple near optimal receiver. , 2014, , .		1
82	High probability guarantees in repeated games: Theory and applications in information theory. , 2016, , .		1
83	Playing games with bounded entropy. , 2017, , .		1
84	A Square Root Sampling Law for Signal Recovery. IEEE Signal Processing Letters, 2019, 26, 562-566.	2.1	1
85	Simulation of a Random Variable and its Application to Game Theory. Mathematics of Operations Research, 2021, 46, 452-470.	0.8	1
86	Molecular Communication Over a Non-linear Reaction-Diffusion Medium: A Tractable Model. , 2020, , .		1
87	Transmission of non-linear binary input functions over a CDMA system. , 2012, , .		0
88	On dimension bounds for quantum systems. , 2013, , .		0
89	The value of information-theoretic content of help bits for computation. , 2015, , .		0
90	Two-way channel simulation. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
91	The Value of Help Bits in Randomized and Average-Case Complexity. Computational Complexity, 2017, 26, 119-145.	0.2	0
92	High-Probability Guarantees in Repeated Games: Theory and Applications in Information Theory. Proceedings of the IEEE, 2017, 105, 189-204.	16.4	0
93	On the equivalency of reliability and security metrics for wireline networks. , 2017, , .		0
94	On Achieving a Positive Rate in the Source Model Key Agreement Problem. , 2018, , .		0
95	On the Equivalency of Reliability and Security Metrics for Wireline Networks. Scientia Iranica, 2018, .	0.3	0