

# Lawrence Ong

## List of Publications by Year in descending order

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83  
papers

772  
citations

759233

12  
h-index

713466

21  
g-index

83  
all docs

83  
docs citations

83  
times ranked

417  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Capacity Region of Multiway Relay Channels Over Finite Fields With Full Data Exchange. IEEE Transactions on Information Theory, 2011, 57, 3016-3031.	2.4	62
2	Optimal index codes for a class of multicast networks with receiver side information. , 2012, , .		58
3	An optimal coding strategy for the binary multi-way relay channel. IEEE Communications Letters, 2010, 14, 330-332.	4.1	57
4	The Single-Uniprior Index-Coding Problem: The Single-Sender Case and the Multi-Sender Extension. IEEE Transactions on Information Theory, 2016, 62, 3165-3182.	2.4	53
5	Capacity Theorems for the AWGN multi-way relay channel. , 2010, , .		38
6	On the Equal-Rate Capacity of the AWGN Multiway Relay Channel. IEEE Transactions on Information Theory, 2012, 58, 5761-5769.	2.4	33
7	Interlinked Cycles for Index Coding: Generalizing Cycles and Cliques. IEEE Transactions on Information Theory, 2017, 63, 3692-3711.	2.4	28
8	Optimal Routing for Decode-and-Forward based Cooperation in Wireless Networks. , 2007, , .		17
9	On Capacity and Optimal Scheduling for the Half-Duplex Multiple-Relay Channel. IEEE Transactions on Information Theory, 2012, 58, 5770-5784.	2.4	17
10	A New Density Evolution Approximation for LDPC and Multi-Edge Type LDPC Codes. IEEE Transactions on Communications, 2016, , 1-1.	7.8	17
11	On the capacity of the single source multiple relay single destination mesh network. Ad Hoc Networks, 2007, 5, 786-800.	5.5	15
12	Coding Strategies for Multiple-Access Channels With Feedback and Correlated Sources. IEEE Transactions on Information Theory, 2007, 53, 3476-3497.	2.4	15
13	Secure index coding: Existence and construction. , 2016, , .		14
14	Multi-Sender Index Coding for Collaborative Broadcasting: A Rank-Minimization Approach. IEEE Transactions on Communications, 2019, 67, 1452-1466.	7.8	14
15	Cooperative Multi-Sender Index Coding. IEEE Transactions on Information Theory, 2019, 65, 1725-1739.	2.4	14
16	The capacity of three-receiver AWGN broadcast channels with receiver message side information. , 2014, , .		13
17	Linear Codes are Optimal for Index-Coding Instances with Five or Fewer Receivers. , 2014, , .		13
18	Optimal Coding Schemes for the Three-Receiver AWGN Broadcast Channel With Receiver Message Side Information. IEEE Transactions on Information Theory, 2015, 61, 5490-5503.	2.4	13

#	ARTICLE	IF	CITATIONS
19	Graph-Theoretic Approaches to Two-Sender Index Coding. , 2016, , .		13
20	Optimal Routing for Decode-Forward in Cooperative Wireless Networks. IEEE Transactions on Communications, 2010, 58, 2345-2355.	7.8	12
21	Myopic Coding in Multiterminal Networks. IEEE Transactions on Information Theory, 2008, 54, 3295-3314.	2.4	10
22	Achievable rates and optimal schedules for half duplex multiple-relay networks. , 2008, , .		10
23	Analysis and Design of Raptor Codes Using a Multi-Edge Framework. IEEE Transactions on Communications, 2017, 65, 5123-5136.	7.8	10
24	Improved bounds for multi-sender index coding. , 2017, , .		10
25	Multi-Way Relay Networks: Orthogonal Uplink, Source-Channel Separation and Code Design. IEEE Transactions on Communications, 2013, 61, 753-768.	7.8	9
26	The Capacity of the Single Source Multiple Relay Single Destination Mesh Network. , 2006, , .		8
27	Capacity results for two classes of three-way channels. , 2012, , .		8
28	Generalized interlinked cycle cover for index coding. , 2015, , .		8
29	Optimal Finite-Length and Asymptotic Index Codes for Five or Fewer Receivers. IEEE Transactions on Information Theory, 2017, 63, 7116-7130.	2.4	8
30	The Capacity Region of the Restricted Two-Way Relay Channel with Any Deterministic Uplink. IEEE Communications Letters, 2012, 16, 396-399.	4.1	7
31	The Three-User Finite-Field Multi-Way Relay Channel with Correlated Sources. IEEE Transactions on Communications, 2013, 61, 3125-3135.	7.8	7
32	On the capacity of the binaryâ€symmetric parallelâ€relay network. Transactions on Emerging Telecommunications Technologies, 2014, 25, 217-230.	3.9	7
33	On Index Coding in Noisy Broadcast Channels with Receiver Message Side Information. IEEE Communications Letters, 2014, 18, 640-643.	4.1	7
34	Joint Optimization of User Association, Data Delivery Rate and Precoding for Cache-Enabled F-RANs. , 2017, , .		7
35	Secure Network-Index Code Equivalence: Extension to Non-zero Error and Leakage. , 2018, , .		7
36	Centralized Caching with Shared Caches in Heterogeneous Cellular Networks. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
37	Joint channel-network coding strategies for networks with low-complexity relays. European Transactions on Telecommunications, 2011, 22, 396-406.	1.2	6
38	A new class of index coding instances where linear coding is optimal. , 2014, , .		6
39	An Equivalence between Secure Network and Index Coding. , 2016, , .		6
40	Joint optimisation technique for multi-edge type low-density parity-check codes. IET Communications, 2017, 11, 61-68.	2.2	6
41	On the problem of non-zero word error rates for fixed-rate error correction codes in continuous variable quantum key distribution. New Journal of Physics, 2017, 19, 023003.	2.9	6
42	Optimal-Rate Characterisation for Pliable Index Coding using Absent Receivers. , 2019, , .		6
43	The Two-Way Relay Network with Arbitrarily Correlated Sources and an Orthogonal MAC. , 2011, , .		5
44	The Half-Duplex AWGN Single-Relay Channel: Full Decoding or Partial Decoding?. IEEE Transactions on Communications, 2012, 60, 3156-3160.	7.8	5
45	Centralized Caching with Unequal Cache Sizes. , 2018, , .		5
46	Raptor Codes for Higher-Order Modulation Using a Multi-Edge Framework. IEEE Wireless Communications Letters, 2018, 7, 110-113.	5.0	5
47	Structural Characteristics of Two-Sender Index Coding. Entropy, 2019, 21, 615.	2.2	5
48	A Code and Rate Equivalence Between Secure Network and Index Coding. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 106-120.	2.5	5
49	Myopic coding in multiple relay channels. , 2005, , .		4
50	The multi-sender multicast index coding. , 2013, , .		4
51	A unified scheme for two-receiver broadcast channels with receiver message side information. , 2015, , .		4
52	An improved caching scheme for nonuniform demands and its optimal allocation. , 2017, , .		4
53	The Multiple Access Channel with Feedback and Correlated Sources. , 2006, , .		3
54	Achievable rates and schedules for half duplex phase fading multiple-relay networks. , 2008, , .		3

#	ARTICLE	IF	CITATIONS
55	Functional-decode-forward for the general discrete memoryless two-way relay channel. , 2010, , .		3
56	On achievable rate regions of the asymmetric AWGN two-way relay channel. , 2011, , .		3
57	Optimization of graph based codes for belief propagation decoding. , 2014, , .		3
58	A new index coding scheme exploiting interlinked cycles. , 2015, , .		3
59	Corrections to "Interlinked Cycles for Index Coding: Generalizing Cycles and Cliques" [Jun 17 3692-3711]. IEEE Transactions on Information Theory, 2018, 64, 6460-6460.	2.4	3
60	Optimal Routing for the Gaussian Multiple-Relay Channel with Decode-and-Forward. , 2007, , .		2
61	The finite field multi-way relay channel with correlated sources: The three-user case. , 2011, , .		2
62	Coding schemes for a class of receiver message side information in AWGN broadcast channels. , 2014, , .		2
63	Information Leakage in Index Coding. , 2021, , .		2
64	Achievable rate regions of the butterfly network with noisy links and end-to-end error correction. , 2009, , .		1
65	Optimal schedules for the D-node half duplex phase fading MRC. , 2009, , .		1
66	The capacity of a class of multi-way relay channels. , 2010, , .		1
67	The binary-symmetric parallel-relay network. , 2010, , .		1
68	Sparse Graph Codes for the Two-Way Relay Network with Correlated Sources. , 2011, , .		1
69	The finite field multi-way relay channel with correlated sources: Beyond three users. , 2012, , .		1
70	The capacity region of restricted multi-way relay channels with deterministic uplinks. , 2012, , .		1
71	Optimal coding functions for pairwise message sharing on finite-field multi-way relay channels. , 2014, , .		1
72	The half-duplex Gaussian two-way relay channel with direct links. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
73	A unified inner bound for the two-receiver memoryless broadcast channel with channel state and message side information. , 2016, , .		1
74	The DoF Region of the Three-Receiver Gaussian MIMO Broadcast Channel With Receiver Message Side Information. IEEE Transactions on Communications, 2017, 65, 2000-2010.	7.8	1
75	Can Marton Coding Alone Ensure Individual Secrecy?. , 2019, , .		1
76	The Secure Two-Receiver Broadcast Channel With One-Sided Receiver Side Information. , 2018, , .		1
77	On Converse Results for Secure Index Coding. , 2021, , .		1
78	When Differential Privacy Implies Syntactic Privacy. IEEE Transactions on Information Forensics and Security, 2022, 17, 2110-2124.	6.9	1
79	Capacity results for the multi-way relay channel with common messages. , 2015, , .		0
80	A Multiway Relay Channel With Balanced Sources. IEEE Transactions on Communications, 2015, 63, 4809-4823.	7.8	0
81	NOMA's offline power allocation and corresponding algorithms: A design and its evaluation. , 2016, , .		0
82	Leveraging Receiver Message Side Information in Two-Receiver Broadcast Channels: A General Approach â€. Entropy, 2017, 19, 138.	2.2	0
83	Secure Network and Index Coding Equivalence: The Last Piece of the Puzzle. , 2020, , .		0