

# Young-Han Kim

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60 papers	2,272 citations	15 h-index	47 g-index
74 ext. papers	2,974 ext. citations	3 avg, IF	5.55 L-index

#	Paper	IF	Citations
60	Nearest Neighbor Density Functional Estimation from Inverse Laplace Transform. <i>IEEE Transactions on Information Theory</i> , <b>2022</b> , 1-1	2.8	0
59	NASCUP: Nucleic Acid Sequence Classification by Universal Probability. <i>IEEE Access</i> , <b>2021</b> , 9, 162779-162791	3.9	1
58	On the Capacity Regions of Cloud Radio Access Networks With Limited Orthogonal Fronthaul. <i>IEEE Transactions on Information Theory</i> , <b>2021</b> , 67, 2958-2988	2.8	1
57	Distributed Source Simulation With No Communication. <i>IEEE Transactions on Information Theory</i> , <b>2021</b> , 67, 886-901	2.8	0
56	Joint Channel Estimation and Coding Over Channels With Memory Using Polar Codes. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	0
55	Sliding-Window Superposition Coding: Two-User Interference Channels. <i>IEEE Transactions on Information Theory</i> , <b>2020</b> , 66, 3293-3316	2.8	1
54	Homologous Codes for Multiple Access Channels. <i>IEEE Transactions on Information Theory</i> , <b>2020</b> , 66, 1549-1571	2.8	12
53	Generalized Lexicographic Products and the Index Coding Capacity. <i>IEEE Transactions on Information Theory</i> , <b>2020</b> , 66, 1520-1529	2.8	1
52	Capacity Theorems for Distributed Index Coding. <i>IEEE Transactions on Information Theory</i> , <b>2020</b> , 66, 4653-4680	2.8	2
51	On the Optimal Achievable Rates for Linear Computation With Random Homologous Codes. <i>IEEE Transactions on Information Theory</i> , <b>2020</b> , 66, 6200-6221	2.8	1
50	Capacity Scaling for Cloud Radio Access Networks with Limited Orthogonal Fronthaul <b>2019</b> ,		1
49	The Interactive Capacity of the Binary Symmetric Channel is at Least 1/40 the Shannon Capacity <b>2019</b> ,		0
48	A Near-Zero-Power Wake-Up Receiver Achieving -89-dBm Sensitivity. <i>IEEE Journal of Solid-State Circuits</i> , <b>2018</b> , 53, 1640-1652	5.5	58
47	Key Technology for 5G New Radio. <i>IEEE Communications Magazine</i> , <b>2018</b> , 56, 10-11	9.1	6
46	Three-Layer Composite Coding for Index Coding <b>2018</b> ,		3
45	On the Capacity Region for Secure Index Coding <b>2018</b> ,		4
44	Optimal Achievable Rates for Computation With Random Homologous Codes <b>2018</b> ,		3

43	Monte Carlo Methods for Randomized Likelihood Decoding <b>2018</b> ,		1
42	. <i>IEEE Solid-State Circuits Letters</i> , <b>2018</b> , 1, 134-137	2	31
41	The Approximate Capacity of the MIMO Relay Channel. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 1167-1176	2.8	7
40	Distributed Decode-Forward for Relay Networks. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 4103-4118	2.8	14
39	Homologous codes for multiple access channels <b>2017</b> ,		3
38	On the capacity for distributed index coding <b>2017</b> ,		12
37	On the capacity of cloud radio access networks <b>2017</b> ,		8
36	Partial Decode-Forward Relaying for the Gaussian Two-Hop Relay Network. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 7078-7085	2.8	4
35	Approximate capacity of index coding for some classes of graphs <b>2016</b> ,		3
34	Optimal Achievable Rates for Interference Networks With Random Codes. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 6536-6549	2.8	28
33	Linear code duality between channel coding and Slepian-Wolf coding <b>2015</b> ,		2
32	Adaptive Sliding-Window Coded Modulation in Cellular Networks <b>2015</b> ,		6
31	Structural properties of index coding capacity using fractional graph theory <b>2015</b> ,		11
30	Three stories on a two-sided coin: Index coding, locally recoverable distributed storage, and guessing games on graphs <b>2015</b> ,		8
29	A Unified Approach to Hybrid Coding. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 1509-1523	2.8	38
28	Index coding via random coding <b>2014</b> ,		10
27	Distributed decode-forward for broadcast <b>2014</b> ,		6
26	Linear relaying for Gaussian diamond networks <b>2014</b> ,		1

25	Chop and roll: Improving the cutset bound <b>2014</b> ,		5
24	Distributed decode-forward for multicast <b>2014</b> ,		29
23	Approximate capacity of the MIMO relay channel <b>2014</b> ,		1
22	Local time sharing for index coding <b>2014</b> ,		17
21	Universal Estimation of Directed Information. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 6220-6248		71
20	Directed Information, Causal Estimation, and Communication in Continuous Time. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 1271-1287	2.8	23
19	On the capacity region for index coding <b>2013</b> ,		81
18	Gaussian Channel With Noisy Feedback and Peak Energy Constraint. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 4746-4756	2.8	5
17	A comparison of superposition coding schemes <b>2013</b> ,		15
16	Interactive hypothesis testing against independence <b>2013</b> ,		20
15	WOM with retained messages <b>2012</b> ,		2
14	Error Exponents for the Gaussian Channel With Active Noisy Feedback. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 1223-1236	2.8	11
13	Noisy Network Coding. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 3132-3152	2.8	256
12	Interpretations of Directed Information in Portfolio Theory, Data Compression, and Hypothesis Testing. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 3248-3259	2.8	71
11	Limits on Support Recovery of Sparse Signals via Multiple-Access Communication Techniques. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 7877-7892	2.8	19
10	Information flooding <b>2011</b> ,		1
9	Causal state amplification <b>2011</b> ,		10
8	Network Information Theory <b>2011</b> ,		1249

7	Capacity-distortion trade-off in channels with state <b>2010</b> ,	6
6	Performance tradeoffs for exact support recovery of sparse signals <b>2010</b> ,	3
5	On the AWGN channel with noisy feedback and peak energy constraint <b>2010</b> ,	8
4	Feedback Capacity of Stationary Gaussian Channels. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 57-85	2.8 66
3	Linear sum capacity for Gaussian multiple access channel with feedback <b>2010</b> ,	3
2	Universal estimation of directed information <b>2010</b> ,	9
1	Correlated sources over broadcast channels <b>2009</b> ,	11