

# Young-Han Kim

## List of Publications by Year in descending order

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73  
papers

3,280  
citations

687363

13  
h-index

552781

26  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noisy Network Coding. IEEE Transactions on Information Theory, 2011, 57, 3132-3152.	2.4	351
2	Universal Estimation of Directed Information. IEEE Transactions on Information Theory, 2013, 59, 6220-6242.	2.4	135
3	Interpretations of Directed Information in Portfolio Theory, Data Compression, and Hypothesis Testing. IEEE Transactions on Information Theory, 2011, 57, 3248-3259.	2.4	122
4	Feedback Capacity of Stationary Gaussian Channels. IEEE Transactions on Information Theory, 2010, 56, 57-85.	2.4	111
5	On the capacity region for index coding. , 2013, , .		103
6	A Near-Zero-Power Wake-Up Receiver Achieving $\hat{\sim}$ 69-dBm Sensitivity. IEEE Journal of Solid-State Circuits, 2018, 53, 1640-1652.	5.4	101
7	A Unified Approach to Hybrid Coding. IEEE Transactions on Information Theory, 2015, 61, 1509-1523.	2.4	59
8	A 6.1-nW Wake-Up Receiver Achieving $\hat{\sim}$ 80.5-dBm Sensitivity Via a Passive Pseudo-Balun Envelope Detector. IEEE Solid-State Circuits Letters, 2018, 1, 134-137.	2.0	52
9	Optimal Achievable Rates for Interference Networks With Random Codes. IEEE Transactions on Information Theory, 2015, 61, 6536-6549.	2.4	33
10	Distributed decode-forward for multicast. , 2014, , .		32
11	Interactive hypothesis testing against independence. , 2013, , .		30
12	Directed Information, Causal Estimation, and Communication in Continuous Time. IEEE Transactions on Information Theory, 2013, 59, 1271-1287.	2.4	27
13	Limits on Support Recovery of Sparse Signals via Multiple-Access Communication Techniques. IEEE Transactions on Information Theory, 2011, 57, 7877-7892.	2.4	25
14	A comparison of superposition coding schemes. , 2013, , .		21
15	Error Exponents for the Gaussian Channel With Active Noisy Feedback. IEEE Transactions on Information Theory, 2011, 57, 1223-1236.	2.4	20
16	Local time sharing for index coding. , 2014, , .		20
17	Distributed Decode-Forward for Relay Networks. IEEE Transactions on Information Theory, 2017, 63, 4103-4118.	2.4	17
18	Key Technology for 5G New Radio. IEEE Communications Magazine, 2018, 56, 10-11.	6.1	16

#	ARTICLE	IF	CITATIONS
19	Structural properties of index coding capacity using fractional graph theory. , 2015, , .		15
20	Causal state amplification. , 2011, , .		14
21	Correlated sources over broadcast channels. , 2009, , .		13
22	On the capacity for distributed index coding. , 2017, , .		13
23	On the AWGN channel with noisy feedback and peak energy constraint. , 2010, , .		11
24	Universal estimation of directed information. , 2010, , .		11
25	Three stories on a two-sided coin: Index coding, locally recoverable distributed storage, and guessing games on graphs. , 2015, , .		11
26	The Approximate Capacity of the MIMO Relay Channel. IEEE Transactions on Information Theory, 2017, 63, 1167-1176.	2.4	11
27	On the Capacity Region for Secure Index Coding. , 2018, , .		11
28	Index coding via random coding. , 2014, , .		10
29	Joint Channel Estimation and Coding Over Channels With Memory Using Polar Codes. IEEE Transactions on Communications, 2021, 69, 6575-6589.	7.8	9
30	Linear sum capacity for Gaussian multiple access channel with feedback. , 2010, , .		8
31	Chop and roll: Improving the cutset bound. , 2014, , .		8
32	On the capacity of cloud radio access networks. , 2017, , .		8
33	Capacity-distortion trade-off in channels with state. , 2010, , .		7
34	Distributed decode-forward for broadcast. , 2014, , .		7
35	Linear code duality between channel coding and Slepian-Wolf coding. , 2015, , .		7
36	Gaussian Channel With Noisy Feedback and Peak Energy Constraint. IEEE Transactions on Information Theory, 2013, 59, 4746-4756.	2.4	6

#	ARTICLE	IF	CITATIONS
37	Adaptive Sliding-Window Coded Modulation in Cellular Networks. , 2015, , .		6
38	Capacity Theorems for Distributed Index Coding. IEEE Transactions on Information Theory, 2020, 66, 4653-4680.	2.4	6
39	Partial Decode-Forward Relaying for the Gaussian Two-Hop Relay Network. IEEE Transactions on Information Theory, 2016, 62, 7078-7085.	2.4	5
40	Performance tradeoffs for exact support recovery of sparse signals. , 2010, , .		4
41	Joint Channel Estimation and Error Correction for Finite-State Markov Channels Using Polar Codes. , 2018, , .		4
42	Variations on a Theme by Liu, Cuff, and Verd�: The Power of Posterior Sampling. , 2018, , .		4
43	Optimal Achievable Rates for Computation With Random Homologous Codes. , 2018, , .		4
44	Monte Carlo Methods for Randomized Likelihood Decoding. , 2018, , .		4
45	Homologous Codes for Multiple Access Channels. IEEE Transactions on Information Theory, 2020, 66, 1549-1571.	2.4	4
46	Approximate capacity of index coding for some classes of graphs. , 2016, , .		3
47	Homologous codes for multiple access channels. , 2017, , .		3
48	Three-Layer Composite Coding for Index Coding. , 2018, , .		3
49	On the Optimal Achievable Rates for Linear Computation With Random Homologous Codes. IEEE Transactions on Information Theory, 2020, 66, 6200-6221.	2.4	3
50	Sliding-Window Superposition Coding: Two-User Interference Channels. IEEE Transactions on Information Theory, 2020, 66, 3293-3316.	2.4	3
51	On the Capacity Regions of Cloud Radio Access Networks With Limited Orthogonal Fronthaul. IEEE Transactions on Information Theory, 2021, 67, 2958-2988.	2.4	3
52	WOM with retained messages. , 2012, , .		2
53	A few meta-theorems in network information theory. , 2014, , .		2
54	Capacity Scaling for Cloud Radio Access Networks with Limited Orthogonal Fronthaul. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
55	The Interactive Capacity of the Binary Symmetric Channel is at Least $1/40$ the Shannon Capacity. , 2019, , .		2
56	Generalized Lexicographic Products and the Index Coding Capacity. IEEE Transactions on Information Theory, 2020, 66, 1520-1529.	2.4	2
57	Nearest Neighbor Density Functional Estimation From Inverse Laplace Transform. IEEE Transactions on Information Theory, 2022, 68, 3511-3551.	2.4	2
58	Multiple descriptions with codebook reuse. , 2008, , .		1
59	Information flooding. , 2011, , .		1
60	Uniform Power Allocation with Thresholding over Rayleigh Slow Fading Channels with QAM Inputs. , 2013, , .		1
61	Linear relaying for Gaussian diamond networks. , 2014, , .		1
62	Approximate capacity of the MIMO relay channel. , 2014, , .		1
63	Conditional Distribution Learning with Neural Networks and its Application to Universal Image Denoising. , 2018, , .		1
64	A Lower Bound on the Essential Interactive Capacity of Binary Memoryless Symmetric Channels. IEEE Transactions on Information Theory, 2021, 67, 7639-7658.	2.4	1
65	On the Interactive Capacity of Finite-State Protocols. Entropy, 2021, 23, 17.	2.2	1
66	On the sum capacity of the Gaussian multiple access channel with feedback. , 2009, , .		0
67	Partial decode-Forward relaying for the Gaussian two-hop relay network. , 2014, , .		0
68	Adaptive Sliding-Window Coded Modulation in Cellular Networks. , 2014, , .		0
69	Shannon Capacity is Achievable for a Large Class of Interactive Markovian Protocols. , 2019, , .		0
70	Attack Algorithm for a Keystore-Based Secret Key Generation Method. Entropy, 2019, 21, 212.	2.2	0
71	An Efficient Method to Monitor Downlink Traffic for 4G and 5G Networks. , 2019, , .		0
72	Distributed Source Simulation With No Communication. IEEE Transactions on Information Theory, 2021, 67, 886-901.	2.4	0

#	ARTICLE	IF	CITATIONS
73	NASCUP: Nucleic Acid Sequence Classification by Universal Probability. IEEE Access, 2021, 9, 162779-162791.	4.2	0