

# Jaekyun Moon

## List of Publications by Year in descending order

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100  
papers

1,422  
citations

471509

17  
h-index

434195

31  
g-index

100  
all docs

100  
docs citations

100  
times ranked

804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Equalization for maximum likelihood detectors. IEEE Transactions on Magnetics, 1995, 31, 1083-1088.	2.1	157
2	Maximum transition run codes for data storage systems. IEEE Transactions on Magnetics, 1996, 32, 3992-3994.	2.1	113
3	Pattern-dependent noise prediction in signal-dependent noise. IEEE Journal on Selected Areas in Communications, 2001, 19, 730-743.	14.0	112
4	Wireless Video Caching and Dynamic Streaming Under Differentiated Quality Requirements. IEEE Journal on Selected Areas in Communications, 2018, 36, 1245-1257.	14.0	61
5	Hierarchical Coding for Distributed Computing. , 2018, , .		55
6	A low-density generator matrix interpretation of parallel concatenated single bit parity codes. IEEE Transactions on Magnetics, 2001, 37, 737-741.	2.1	43
7	On Reusing Pilots Among Interfering Cells in Massive MIMO. IEEE Transactions on Wireless Communications, 2017, 16, 8092-8104.	9.2	36
8	Weighted-Sum-Rate-Maximizing Linear Transceiver Filters for the K-User MIMO Interference Channel. IEEE Transactions on Communications, 2012, 60, 2776-2783.	7.8	35
9	Design of a rate 6/7 maximum transition run code. IEEE Transactions on Magnetics, 1997, 33, 2749-2751.	2.1	32
10	Capacity of Clustered Distributed Storage. IEEE Transactions on Information Theory, 2019, 65, 81-107.	2.4	30
11	Dynamic Power Allocation and User Scheduling for Power-Efficient and Delay-Constrained Multiple Access Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4846-4858.	9.2	30
12	Modeling the Lorentzian magnetic recording channel with transition noise. IEEE Transactions on Magnetics, 2001, 37, 583-591.	2.1	28
13	Efficient sequence detection for intersymbol interference channels with run-length constraints. IEEE Transactions on Communications, 1994, 42, 2654-2660.	7.8	25
14	Statistical Characterization of Noise and Interference in NAND Flash Memory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 2153-2164.	5.4	21
15	A high dimensional signal space implementation of FDTS/DF. IEEE Transactions on Magnetics, 1996, 32, 3941-3943.	2.1	20
16	Single-head/single-track detection in interfering tracks. IEEE Transactions on Magnetics, 2002, 38, 1830-1838.	2.1	20
17	Cyclic redundancy check code based high-rate error-detection code for perpendicular recording. IEEE Transactions on Magnetics, 2006, 42, 1626-1628.	2.1	20
18	Noise in a thin metallic medium: the connection with nonlinear behaviour. IEEE Transactions on Magnetics, 1988, 24, 2712-2714.	2.1	19

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19	Coded Matrix Multiplication on a Group-Based Model. , 2019, , .		19
20	Soft-In Soft-Out DFE and Bi-Directional DFE. IEEE Transactions on Communications, 2011, 59, 2729-2741.	7.8	18
21	Parallel LDPC decoder implementation on GPU based on unbalanced memory coalescing. , 2012, , .		18
22	Scalable Network-Coded PBFT Consensus Algorithm. , 2019, , .		18
23	Bi-Directional Cooperative NOMA Without Full CSIT. IEEE Transactions on Wireless Communications, 2018, 17, 7515-7527.	9.2	16
24	Reconfigurable Readback-Signal Generator Based on a Field-Programmable Gate Array. IEEE Transactions on Magnetics, 2004, 40, 1744-1750.	2.1	15
25	Concatenated Low-Density Parity-Check and BCH Coding System for Magnetic Recording Read Channel With 4 kB Sector Format. IEEE Transactions on Magnetics, 2008, 44, 4784-4789.	2.1	15
26	Simplified nonlinear equalizers. IEEE Transactions on Magnetics, 1995, 31, 3051-3053.	2.1	14
27	Turbo Equalization via Constrained-Delay APP Estimation With Decision Feedback. IEEE Transactions on Communications, 2005, 53, 2102-2113.	7.8	14
28	LDPC Code Design for Distributed Storage: Balancing Repair Bandwidth, Reliability, and Storage Overhead. IEEE Transactions on Communications, 2018, 66, 507-520.	7.8	14
29	Probabilistic Caching and Dynamic Delivery Policies for Categorized Contents and Consecutive User Demands. IEEE Transactions on Wireless Communications, 2021, 20, 2685-2699.	9.2	14
30	FedMes: Speeding Up Federated Learning With Multiple Edge Servers. IEEE Journal on Selected Areas in Communications, 2021, 39, 3870-3885.	14.0	14
31	A systematic approach to signal space detection. IEEE Transactions on Magnetics, 1997, 33, 2737-2739.	2.1	12
32	Regularized Zero-Forcing Interference Alignment for the Two-Cell MIMO Interfering Broadcast Channel. IEEE Communications Letters, 2013, 17, 1336-1339.	4.1	12
33	Self-Iterating Soft Equalizer. IEEE Transactions on Communications, 2013, 61, 3697-3709.	7.8	12
34	Detection signal-to-noise ratio versus bit cell aspect ratio at high areal densities. IEEE Transactions on Magnetics, 2001, 37, 1157-1167.	2.1	11
35	Signal space detection for DVD optical recording. IEEE Transactions on Magnetics, 2001, 37, 670-675.	2.1	11
36	Breaking the Trapping Sets in LDPC Codes: Check Node Removal and Collaborative Decoding. IEEE Transactions on Communications, 2016, 64, 15-26.	7.8	11

#	ARTICLE	IF	CITATIONS
37	Coded Distributed Computing over Packet Erasure Channels. , 2019, , .		10
38	Coded Wireless Distributed Computing With Packet Losses and Retransmissions. IEEE Transactions on Wireless Communications, 2021, 20, 8204-8217.	9.2	10
39	Constrained-complexity equalizer design for fixed delay tree search with decision feedback. IEEE Transactions on Magnetics, 1994, 30, 2762-2768.	2.1	9
40	Improved equalization for digital recording using nonlinear filtering and error confinement. IEEE Transactions on Magnetics, 1994, 30, 4221-4223.	2.1	9
41	Error-Pattern-Correcting Cyclic Codes Tailored to a Prescribed Set of Error Cluster Patterns. IEEE Transactions on Information Theory, 2009, 55, 1747-1765.	2.4	9
42	RS-LDPC Concatenated Coding for the Modern Tape Storage Channel. IEEE Transactions on Communications, 2016, 64, 59-69.	7.8	9
43	Equalization and detection in storage channels. IEEE Transactions on Magnetics, 1996, 32, 5206-5217.	2.1	8
44	Multidimensional signal space partitioning using a minimal set of hyperplanes for detecting ISI-corrupted symbols. IEEE Transactions on Communications, 2000, 48, 637-647.	7.8	8
45	Easily Computed Lower Bounds on the Information Rate of Intersymbol Interference Channels. IEEE Transactions on Information Theory, 2012, 58, 864-877.	2.4	8
46	Time measurements of amplitude and bit shift in thin metallic media. IEEE Transactions on Magnetics, 1987, 23, 2686-2688.	2.1	7
47	A practical nonlinear model for magnetic recording channels. IEEE Transactions on Magnetics, 1994, 30, 4233-4235.	2.1	7
48	Noise-predictive maximum-likelihood method combined with infinite impulse response equalization. IEEE Transactions on Magnetics, 1999, 35, 4538-4543.	2.1	7
49	Turbo equalization utilizing soft decision feedback. IEEE Transactions on Magnetics, 2005, 41, 2998-3000.	2.1	7
50	Reduced-Complexity Soft MIMO Detection Based on Causal and Noncausal Decision Feedback. IEEE Transactions on Signal Processing, 2008, 56, 1178-1187.	5.3	7
51	Low-Complexity Iterative Channel Estimation for Turbo Receivers. IEEE Transactions on Communications, 2012, 60, 1182-1187.	7.8	7
52	Experimental Characterization of Transition Noise in HAMR. IEEE Transactions on Magnetics, 2013, 49, 3675-3678.	2.1	7
53	RS-Enhanced TCM for Multilevel Flash Memories. IEEE Transactions on Communications, 2013, 61, 1674-1683.	7.8	7
54	Concatenated Raptor Codes in NAND Flash Memory. IEEE Journal on Selected Areas in Communications, 2014, 32, 857-869.	14.0	7

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55	Adaptive Detector Selection for Queue-Stable Word Error Rate Minimization in Connected Vehicle Receiver Design. IEEE Transactions on Vehicular Technology, 2018, 67, 3635-3639.	6.3	7
56	Probabilistic Caching Policy for Categorized Contents and Consecutive User Demands. , 2019, , .		7
57	Architectures for the implementation of a fixed delay tree search detector. IEEE Transactions on Magnetics, 1997, 33, 1116-1124.	2.1	6
58	Error Probability Bounds for Bit-Interleaved Space-Time Trellis Coding Over Block-Fading Channels. IEEE Transactions on Information Theory, 2007, 53, 4285-4292.	2.4	6
59	New Phase-Locked Loop Design: Understanding the Impact of a Phase-Tracking Channel Detector. IEEE Transactions on Magnetics, 2010, 46, 830-836.	2.1	6
60	Statistical Analysis of Flash Memory Read Data. , 2011, , .		6
61	Combined Subband-Subcarrier Spectral Shaping in Multi-Carrier Modulation Under the Excess Frame Length Constraint. IEEE Journal on Selected Areas in Communications, 2017, 35, 1339-1352.	14.0	6
62	Pilot Reuse Strategy Maximizing the Weighted-Sum-Rate in Massive MIMO Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 1728-1740.	14.0	6
63	Capacity of clustered distributed storage. , 2017, , .		6
64	Irregular Product Coded Computation for High-Dimensional Matrix Multiplication. , 2019, , .		6
65	Characterization of Inter-Cell Interference in 3D NAND Flash Memory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1183-1192.	5.4	6
66	A New Class of Error-Pattern-Correcting Codes Capable of Handling Multiple Error Occurrences. IEEE Transactions on Magnetics, 2007, 43, 2268-2270.	2.1	5
67	Timing Recovery in Conjunction With Maximum Likelihood Sequence Detection in the Presence of Intersymbol Interference. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2884-2897.	5.4	5
68	Soft-Decision-Driven Channel Estimation for Pipelined Turbo Receivers. IEEE Transactions on Communications, 2011, 59, 2141-2151.	7.8	5
69	When pilots should not be reused across interfering cells in massive MIMO. , 2015, , .		5
70	Two-Dimensional Error-Pattern-Correcting Codes. IEEE Transactions on Communications, 2015, 63, 2725-2740.	7.8	5
71	High data rate detection for 3D-110 channels. IEEE Transactions on Magnetics, 1997, 33, 2806-2808.	2.1	4
72	Low complexity signal space detector for (1,7)-coded partial response channels. IEEE Transactions on Magnetics, 1998, 34, 1928-1930.	2.1	4

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73	CCK Demodulation via Symbol Decision Feedback Equalizer. IEEE Communications Letters, 2004, 8, 620-622.	4.1	4
74	Constrained Partial Response Receivers for High-Speed Links. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1006-1010.	3.0	4
75	An Iteratively Decodable Tensor Product Code with Application to Data Storage. IEEE Journal on Selected Areas in Communications, 2010, 28, 228-240.	14.0	4
76	Noise and interference characterization for MLC flash memories. , 2012, , .		4
77	Communication Turbo Equalization of 2-D Intersymbol Interference Using Multiple 1-D Constituent Equalizers. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	4
78	Reducing repair-bandwidth using codes based on factor graphs. , 2016, , .		4
79	Hierarchical Broadcast Coding: Expediting Distributed Learning at the Wireless Edge. IEEE Transactions on Wireless Communications, 2021, 20, 2266-2281.	9.2	4
80	DC-free run-length-limited codes for magnetic recording. IEEE Transactions on Magnetics, 1997, 33, 868-874.	2.1	3
81	Editorial signal processing for high density storage channels. IEEE Journal on Selected Areas in Communications, 2001, 19, 577-581.	14.0	3
82	Joint Gain and Timing Recovery With Applications to Magnetic Tape Storage. IEEE Transactions on Magnetics, 2007, 43, 2328-2330.	2.1	3
83	The Error-Pattern-Correcting Turbo Equalizer: Spectrum Thinning at High SNRs. IEEE Transactions on Information Theory, 2011, 57, 953-971.	2.4	3
84	Combined Window-Filter Waveform Design With Transmitter-Side Channel State Information. IEEE Transactions on Vehicular Technology, 2018, 67, 8959-8963.	6.3	3
85	Secure Clustered Distributed Storage Against Eavesdropping. IEEE Transactions on Information Theory, 2019, 65, 7646-7668.	2.4	3
86	Imposing a k constraint in recording systems employing post-Viterbi error correction. IEEE Transactions on Magnetics, 2005, 41, 2995-2997.	2.1	2
87	Bit-interleaved space-time trellis coding for frequency selective block fading channels. IEEE Communications Letters, 2006, 10, 40-42.	4.1	2
88	Transmitter Precoding with Reduced-Complexity Soft Detection for MIMO Systems. IEEE Transactions on Wireless Communications, 2007, 6, 817-821.	9.2	2
89	Multi-directional self-iterating soft equalization for 2D intersymbol interference. , 2013, , .		2
90	Secure clustered distributed storage against eavesdroppers. , 2017, , .		2

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91	Cache Allocations for Consecutive Requests of Categorized Contents: Service Provider's Perspective. , 2020, , .		2
92	Phase error compensation for improved timing recovery. IEEE Transactions on Magnetism, 2000, 36, 2190-2192.	2.1	1
93	Signal space detection for recording channels with jitter noise. IEEE Transactions on Information Theory, 2001, 47, 1153-1165.	2.4	1
94	Two-dimensional cyclic codes correcting known error patterns. , 2012, , .		1
95	Improving read access time of high-performance solid-state drives via layered coding schemes. , 2017, , .		1
96	TiBroco: A Fast and Secure Distributed Learning Framework for Tiered Wireless Edge Networks. , 2021, , .		1
97	Alternative structure for computing APPs of the markov source. IEEE Transactions on Information Theory, 2003, 49, 1027-1029.	2.4	0
98	Self-Iterating Soft Equalizer. , 2011, , .		0
99	Upper Limits on Achievable Storage Density Using Turbo Equalization in 2-D Magnetic Recording. IEEE Transactions on Magnetism, 2015, 51, 1-4.	2.1	0
100	Improving SSD Read Latency via Coding. IEEE Transactions on Computers, 2020, 69, 1809-1822.	3.4	0