

List of Publications by Year in descending order

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150
papers

2,391
citations

361413

20
h-index

302126

39
g-index

150
all docs

150
docs citations

150
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	A network coding approach to cooperative diversity. IEEE Transactions on Information Theory, 2007, 53, 3714-3722.	2.4	226
2	Nested Polar Codes for Wiretap and Relay Channels. IEEE Communications Letters, 2010, 14, 752-754.	4.1	138
3	The Design and Performance of Distributed LT Codes. IEEE Transactions on Information Theory, 2007, 53, 3740-3754.	2.4	89
4	Scanning tunnelling spectroscopy of electron resonators. New Journal of Physics, 2001, 3, 22-22.	2.9	79
5	Design of Network Codes for Multiple-User Multiple-Relay Wireless Networks. IEEE Transactions on Communications, 2012, 60, 3755-3766.	7.8	79
6	Luminescence from Metallic Quantum Wells in a Scanning Tunneling Microscope. Physical Review Letters, 2001, 87, 176803.	7.8	75
7	Efficient Computation of EXIT Functions for Nonbinary Iterative Decoding. IEEE Transactions on Communications, 2006, 54, 2133-2136.	7.8	75
8	On Secure Network Coding With Nonuniform or Restricted Wiretap Sets. IEEE Transactions on Information Theory, 2013, 59, 166-176.	2.4	73
9	Spatially coupled sparse codes on graphs: theory and practice. , 2014, 52, 168-176.		68
10	Memoryless relay strategies for two-way relay channels. IEEE Transactions on Communications, 2009, 57, 3132-3143.	7.8	67
11	Private and Secure Distributed Matrix Multiplication With Flexible Communication Load. IEEE Transactions on Information Forensics and Security, 2020, 15, 2722-2734.	6.9	55
12	Iterative joint source-channel decoding of variable-length codes using residual source redundancy. IEEE Transactions on Wireless Communications, 2005, 4, 919-929.	9.2	51
13	Communication Efficient Secret Sharing. IEEE Transactions on Information Theory, 2016, 62, 7195-7206.	2.4	51
14	Nested codes with multiple interpretations. , 2006, , .		48
15	Scanning tunneling spectroscopy of Na on Cu(111). Physical Review B, 2001, 65, .	3.2	43
16	Oversampled cosine-modulated filter banks with arbitrary system delay. IEEE Transactions on Signal Processing, 1998, 46, 941-955.	5.3	41
17	Iterative Source-Channel Decoding With Markov Random Field Source Models. IEEE Transactions on Signal Processing, 2006, 54, 3688-3701.	5.3	40
18	Analysis and Enumeration of Absorbing Sets for Non-Binary Graph-Based Codes. IEEE Transactions on Communications, 2014, 62, 398-409.	7.8	39

#	ARTICLE	IF	CITATIONS
19	Near-capacity turbo trellis coded modulation design based on EXIT charts and union bounds - [transactions papers]. IEEE Transactions on Communications, 2008, 56, 2030-2039.	7.8	37
20	Low-Complexity Iterative Joint Source- Channel Decoding for Variable-Length Encoded Markov Sources. IEEE Transactions on Communications, 2005, 53, 2054-2064.	7.8	30
21	Robust decoding of variable-length encoded Markov sources using a three-dimensional trellis. IEEE Communications Letters, 2003, 7, 320-322.	4.1	27
22	On the Achievable Extrinsic Information of Inner Decoders in Serial Concatenation. , 2006, , .		27
23	Distributed LT Codes. , 2006, , .		26
24	Space-Time Communication Protocols for N-Way Relay Networks. , 2008, , .		26
25	Strong coordination with polar codes. , 2012, , .		26
26	Distributed and Private Coded Matrix Computation with Flexible Communication Load. , 2019, , .		26
27	Achievable Rate of Private Function Retrieval from MDS Coded Databases. , 2018, , .		24
28	Catch Me If You Can. , 2015, , .		23
29	Cooperative diversity based on code superposition. , 2006, , .		21
30	Asymmetric Error Correction and Flash-Memory Rewriting Using Polar Codes. IEEE Transactions on Information Theory, 2016, 62, 4024-4038.	2.4	21
31	Performance Analysis and Design of Two Edge-Type LDPC Codes for the BEC Wiretap Channel. IEEE Transactions on Information Theory, 2013, 59, 1048-1064.	2.4	20
32	Capacity of Private Linear Computation for Coded Databases. , 2018, , .		20
33	Strong coordination over a line network. , 2013, , .		19
34	Some results on relay strategies for memoryless two-way relay channels. , 2008, , .		18
35	Error performance analysis of signal superposition coded cooperative diversity. IEEE Transactions on Communications, 2009, 57, 3123-3131.	7.8	18
36	Optimized Design of Finite-Length Separable Circulant-Based Spatially-Coupled Codes: An Absorbing Set-Based Analysis. IEEE Transactions on Communications, 2016, , 1-1.	7.8	18

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37	A generalized algebraic approach to optimizing SC-LDPC codes. , 2017, , .		18
38	Authentication Capacity of Adversarial Channels. , 2018, , .		17
39	On the Performance of Joint and Separate Channel and Network Coding in Wireless Fading Networks. , 2007, , .		16
40	Multiple-Access Network Information-Flow and Correction Codes. IEEE Transactions on Information Theory, 2011, 57, 1067-1079.	2.4	16
41	On secure network coding with uniform wiretap sets. , 2013, , .		16
42	Hybrid concatenated codes with asymptotically good distance growth. , 2008, , .		15
43	Empirical and Strong Coordination via Soft Covering With Polar Codes. IEEE Transactions on Information Theory, 2018, 64, 5087-5100.	2.4	15
44	Algebraic constructions of graph-based nested codes from protographs. , 2010, , .		14
45	Secure index coding: Existence and construction. , 2016, , .		14
46	Two edge type LDPC codes for the wiretap channel. , 2009, , .		13
47	Polar coding for empirical and strong coordination via distribution approximation. , 2015, , .		13
48	Analysis and Design of Tuned Turbo Codes. IEEE Transactions on Information Theory, 2012, 58, 4796-4813.	2.4	12
49	Coded Computation Against Processing Delays for Virtualized Cloud-Based Channel Decoding. IEEE Transactions on Communications, 2019, 67, 28-38.	7.8	12
50	Near-perfect-reconstruction low-complexity two-band IIR/FIR QMF banks with FIR phase-compensation filters. Signal Processing, 2006, 86, 171-181.	3.7	11
51	On secure network coding with unequal link capacities and restricted wiretapping sets. , 2010, , .		11
52	On the optimal block length for joint channel and network coding. , 2011, , .		11
53	Low-complexity channel resolvability codes for the symmetric multiple-access channel. , 2014, , .		11
54	Strong coordination over a three-terminal relay network. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
55	Strong coordination over multi-hop line networks. , 2015, , .		11
56	An efficient variable-length code construction for iterative source-channel decoding. IEEE Transactions on Communications, 2009, 57, 2005-2013.	7.8	10
57	Rate Regions for coherent and noncoherent multisource network error correction. , 2009, , .		10
58	Achievable strategies for general secure network coding. , 2010, , .		10
59	Communication Protocols for N-way All-Cast Relay Networks. IEEE Transactions on Communications, 2012, 60, 3239-3251.	7.8	10
60	Optimized array-based spatially-coupled LDPC Codes: An absorbing set approach. , 2015, , .		10
61	Polar coding for noisy write-once memories. , 2014, , .		9
62	Signal Superposition Coded Cooperative Diversity: Analysis and Optimization. , 2007, , .		8
63	Achievable rate and optimal physical layer rate allocation in interference-free wireless networks. , 2009, , .		8
64	Trapping set enumerators for repeat multiple accumulate code ensembles. , 2009, , .		8
65	Directional and Causal Information Flow in EEG for Assessing Perceived Audio Quality. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 150-165.	2.1	8
66	Coded Computation Against Straggling Decoders for Network Function Virtualization. , 2018, , .		8
67	Belief Propagation Decoding of Short Graph-Based Channel Codes via Reinforcement Learning. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 627-640.	2.5	8
68	Sufficient conditions for the equality of exact and Wyner common information. , 2016, , .		7
69	Guest Editorial Recent Advances in Capacity Approaching Codes. IEEE Journal on Selected Areas in Communications, 2016, 34, 205-208.	14.0	7
70	Strong Coordination Over Multi-Hop Line Networks Using Channel Resolvability Codebooks. IEEE Transactions on Information Theory, 2018, 64, 1132-1162.	2.4	7
71	Single-Unicast Secure Network Coding and Network Error Correction are as Hard as Multiple-Unicast Network Coding. IEEE Transactions on Information Theory, 2018, 64, 4496-4512.	2.4	7
72	Secure Network-Index Code Equivalence: Extension to Non-zero Error and Leakage. , 2018, , .		7

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73	Encoding of Spatially Coupled LDGM Codes for Lossy Source Compression. IEEE Transactions on Communications, 2018, 66, 5691-5703.	7.8	7
74	Processing arbitrary-length signals with linear-phase cosine-modulated filter banks. Signal Processing, 2000, 80, 1515-1533.	3.7	6
75	Minimum distance bounds for multiple-serially concatenated code ensembles. , 2008, , .		6
76	Equivocation of eve using two edge type LDPC codes for the binary erasure wiretap channel. , 2010, , .		6
77	On the delay and energy performance in coded two-hop line networks with bursty erasures. , 2011, , .		6
78	Analysis and enumeration of absorbing sets for non-binary graph-based codes. , 2013, , .		6
79	An Equivalence between Secure Network and Index Coding. , 2016, , .		6
80	Coding Schemes for Achieving Strong Secrecy at Negligible Cost. IEEE Transactions on Information Theory, 2017, 63, 1858-1873.	2.4	6
81	New Results on the Equality of Exact and Wyner Common Information Rates. , 2018, , .		6
82	Authentication Against a Myopic Adversary. , 2019, , .		6
83	Optimal-Rate Characterisation for Pliable Index Coding using Absent Receivers. , 2019, , .		6
84	Secure Distributed Storage: Rate-Privacy Trade-Off and XOR-Based Coding Scheme. , 2020, , .		6
85	Algebraic Superposition of LDGM Codes for Cooperative Diversity. , 2007, , .		5
86	Private Polynomial Computation for Noncolluding Coded Databases. , 2019, , .		5
87	Structured Coding for Authentication in the Presence of a Malicious Adversary. , 2019, , .		5
88	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
89	Code Constructions and Bounds for Identification via Channels. IEEE Transactions on Communications, 2022, 70, 1486-1496.	7.8	5
90	Tuned turbo codes. , 2008, , .		4

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91	On the minimum trapping distance of repeat accumulate accumulate codes. , 2008, , .		4
92	Equivalence for networks with adversarial state. , 2014, , .		4
93	Connecting multiple-unicast and network error correction: Reduction and unachievability. , 2015, , .		4
94	Asynchronous communication for wireless sensors using ultra wideband impulse radio. , 2015, , .		4
95	Network equivalence for a joint compound-arbitrarily-varying network model. , 2016, , .		4
96	Strong coordination over a line when actions are Markovian. , 2016, , .		4
97	Equivalence for Networks With Adversarial State. IEEE Transactions on Information Theory, 2017, 63, 4137-4154.	2.4	4
98	Finite Blocklength and Dispersion Bounds for the Arbitrarily-Varying Channel. , 2018, , .		4
99	Strong Converses are Just Edge Removal Properties. IEEE Transactions on Information Theory, 2019, 65, 3315-3339.	2.4	4
100	Authentication with Mildly Myopic Adversaries. , 2020, , .		4
101	Network equivalence in the presence of an eavesdropper. , 2012, , .		3
102	Assessing subjective perception of audio quality by measuring the information flow on the brain-response channel. , 2014, , .		3
103	Joint design of channel and network coding for star networks connected by binary symmetric channels. IEEE Transactions on Communications, 2014, 62, 158-169.	7.8	3
104	Lossless and lossy source compression with near-uniform output: Is common randomness always required?. , 2015, , .		3
105	An Information Theoretic Approach Toward Assessing Perceptual Audio Quality Using EEG. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 176-187.	2.1	3
106	On error correction for asynchronous communication based on iterative processing. , 2016, , .		3
107	On the relationship between edge removal and strong converses. , 2016, , .		3
108	Strong coordination over noisy channels: Is separation sufficient?. , 2017, , .		3

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109	On the Capacity of Private Nonlinear Computation for Replicated Databases. , 2019, , .		3
110	Authentication and Partial Message Correction over Adversarial Multiple-Access Channels. , 2020, , .		3
111	Private Linear Computation for Noncolluding Coded Databases. IEEE Journal on Selected Areas in Communications, 2022, 40, 847-861.	14.0	3
112	Optimal Rate-Distortion-Leakage Tradeoff for Single-Server Information Retrieval. IEEE Journal on Selected Areas in Communications, 2022, 40, 832-846.	14.0	3
113	Memory efficient adaptation of vector quantizers to time-varying channels. Signal Processing, 2003, 83, 1519-1528.	3.7	2
114	When Huffman Meets Hamming: A Class of Optimal Variable-Length Error Correcting Codes. , 2010, , .		2
115	Energy-delay considerations in coded packet flows. , 2011, , .		2
116	Joint channel/network coding for star networks. , 2013, , .		2
117	Single-source/sink network error correction is as hard as multiple-unicast. , 2014, , .		2
118	Reverse edge cut-set bounds for secure network coding. , 2014, , .		2
119	Directed information measures for assessing perceived audio quality using EEG. , 2015, , .		2
120	Error correction for asynchronous communication. , 2016, , .		2
121	Windowed encoding of spatially coupled LDGM codes for lossy source compression. , 2016, , .		2
122	Dispersion of the discrete arbitrarily-varying channel with limited shared randomness. , 2017, , .		2
123	A new EEG-based causal information measure for identifying brain connectivity in response to perceived audio quality. , 2017, , .		2
124	Joint coordination-channel coding for strong coordination over noisy channels based on polar codes. , 2017, , .		2
125	Joint constellation and code design for the Gaussian multiple access channel. , 2017, , .		2
126	Quantifying Neuronal Information Flow in Response to Frequency and Intensity Changes in the Auditory Cortex. , 2018, 2018, 1367-1371.		2

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127	LDPC Coded Multiuser Shaping for the Gaussian Multiple Access Channel. , 2019, , .		2
128	Error correction for low power sensors in asynchronous communication. Signal Processing, 2021, 182, 107946.	3.7	2
129	Strong Coordination Over Noisy Channels. IEEE Transactions on Information Theory, 2021, 67, 2716-2738.	2.4	2
130	Nested Array-Based Spatially Coupled LDPC Codes. IEEE Transactions on Communications, 2021, 69, 3502-3516.	7.8	2
131	Information Leakage in Index Coding. , 2021, , .		2
132	Coding Schemes for an Erasure Relay Channel. , 2007, , .		1
133	Double Serially Concatenated Convolutional Codes With Jointly Designed S-Type Permutors. IEEE Transactions on Information Theory, 2009, 55, 5811-5821.	2.4	1
134	On trapping sets for repeat accumulate accumulate codes. , 2009, , .		1
135	Lossy compression with privacy constraints: Optimality of polar codes. , 2015, , .		1
136	Algebraic Optimization of Binary Spatially Coupled Measurement Matrices for Interval Passing. , 2018, , .		1
137	Optimization of Nested Array-based LDPC Codes Via Spatial Coupling. , 2019, , .		1
138	Correcting Deletions in Probabilistic Non-Binary Segmented Burst Deletion Channels. , 2019, , .		1
139	Learned Scheduling of LDPC Decoders Based on Multi-armed Bandits. , 2020, , .		1
140	Coded Computation Against Straggling Channel Decoders in the Cloud for Gaussian Channels. , 2020, , .		1
141	Optimal Rate-Distortion-Leakage Tradeoff for Single-Server Information Retrieval. , 2021, , .		1
142	Private Polynomial Function Computation for Noncolluding Coded Databases. IEEE Transactions on Information Forensics and Security, 2022, 17, 1800-1813.	6.9	1
143	When Differential Privacy Implies Syntactic Privacy. IEEE Transactions on Information Forensics and Security, 2022, 17, 2110-2124.	6.9	1
144	On secure communication over a class of degraded relay networks. , 2010, , .		0

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145	An algebraic framework for concatenated linear block codes in side information based problems. , 2012, , .		0
146	On polarization for the linear operator channel. , 2013, , .		0
147	On Achieving an Asymptotically Error-Free Fixed-Point of Iterative Decoding for Perfect A Priori Information. IEEE Transactions on Communications, 2013, 61, 2146-2155.	7.8	0
148	Lossy compression with near-uniform encoder outputs. , 2016, , .		0
149	Iteration Based Analysis of Straggling Channel Decoders for Network Function Virtualization. , 2021, , .		0
150	JSAIT Editorial for the Special Issue on "Beyond Errors and Erasures: Coding for Data Management and Delivery in Networks" IEEE Journal on Selected Areas in Information Theory, 2021, 2, 1075-1077.	2.5	0