

Giuseppe Caire

List of Publications by Year in descending order

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464
papers

27,223
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146
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464
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464
docs citations

464
times ranked

9989
citing authors

#	ARTICLE	IF	CITATIONS
1	Bit-interleaved coded modulation. IEEE Transactions on Information Theory, 1998, 44, 927-946.	2.4	2,034
2	On the achievable throughput of a multiantenna Gaussian broadcast channel. IEEE Transactions on Information Theory, 2003, 49, 1691-1706.	2.4	2,020
3	Joint Spatial Division and Multiplexingâ€”The Large-Scale Array Regime. IEEE Transactions on Information Theory, 2013, 59, 6441-6463.	2.4	1,185
4	FemtoCaching: Wireless Content Delivery Through Distributed Caching Helpers. IEEE Transactions on Information Theory, 2013, 59, 8402-8413.	2.4	1,133
5	On maximum-likelihood detection and the search for the closest lattice point. IEEE Transactions on Information Theory, 2003, 49, 2389-2402.	2.4	1,031
6	Optimum power control over fading channels. IEEE Transactions on Information Theory, 1999, 45, 1468-1489.	2.4	620
7	Femtocaching and device-to-device collaboration: A new architecture for wireless video distribution. , 2013, 51, 142-149.		584
8	The throughput of hybrid-ARQ protocols for the Gaussian collision channel. IEEE Transactions on Information Theory, 2001, 47, 1971-1988.	2.4	556
9	A Survey of Physical Layer Security Techniques for 5G Wireless Networks and Challenges Ahead. IEEE Journal on Selected Areas in Communications, 2018, 36, 679-695.	14.0	550
10	FemtoCaching: Wireless video content delivery through distributed caching helpers. , 2012, , .		548
11	Multiuser MIMO Achievable Rates With Downlink Training and Channel State Feedback. IEEE Transactions on Information Theory, 2010, 56, 2845-2866.	2.4	492
12	Wireless Device-to-Device Caching Networks: Basic Principles and System Performance. IEEE Journal on Selected Areas in Communications, 2016, 34, 176-189.	14.0	489
13	Fundamental Limits of Caching in Wireless D2D Networks. IEEE Transactions on Information Theory, 2016, 62, 849-869.	2.4	486
14	On the capacity of some channels with channel state information. IEEE Transactions on Information Theory, 1999, 45, 2007-2019.	2.4	382
15	Achieving "Massive MIMO" Spectral Efficiency with a Not-so-Large Number of Antennas. IEEE Transactions on Wireless Communications, 2012, 11, 3226-3239.	9.2	317
16	Joint Spatial Division and Multiplexing: Opportunistic Beamforming, User Grouping and Simplified Downlink Scheduling. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 876-890.	10.8	304
17	Joint Spatial Division and Multiplexing for mm-Wave Channels. IEEE Journal on Selected Areas in Communications, 2014, 32, 1239-1255.	14.0	278
18	Limiting performance of block-fading channels with multiple antennas. IEEE Transactions on Information Theory, 2001, 47, 1273-1289.	2.4	266

#	ARTICLE	IF	CITATIONS
19	Secure Massive MIMO Transmission With an Active Eavesdropper. IEEE Transactions on Information Theory, 2016, 62, 3880-3900.	2.4	264
20	A unified framework for tree search decoding: rediscovering the sequential decoder. IEEE Transactions on Information Theory, 2006, 52, 933-953.	2.4	263
21	Lattice Coding and Decoding Achieve the Optimal Diversity-Multiplexing Tradeoff of MIMO Channels. IEEE Transactions on Information Theory, 2004, 50, 968-985.	2.4	258
22	Iterative multiuser joint decoding: unified framework and asymptotic analysis. IEEE Transactions on Information Theory, 2002, 48, 1772-1793.	2.4	256
23	Network MIMO With Linear Zero-Forcing Beamforming: Large System Analysis, Impact of Channel Estimation, and Reduced-Complexity Scheduling. IEEE Transactions on Information Theory, 2012, 58, 2911-2934.	2.4	256
24	Wireless caching: technical misconceptions and business barriers. , 2016, 54, 16-22.		253
25	Algorithms for iterative decoding in the presence of strong phase noise. IEEE Journal on Selected Areas in Communications, 2005, 23, 1748-1757.	14.0	216
26	The MIMO ARQ Channel: Diversity-Multiplexing-Delay Tradeoff. IEEE Transactions on Information Theory, 2006, 52, 3601-3621.	2.4	216
27	Scalable Synchronization and Reciprocity Calibration for Distributed Multiuser MIMO. IEEE Transactions on Wireless Communications, 2014, 13, 1815-1831.	9.2	201
28	Bit-Interleaved Coded Modulation Revisited: A Mismatched Decoding Perspective. IEEE Transactions on Information Theory, 2009, 55, 2756-2765.	2.4	194
29	Achievable Rates of FDD Massive MIMO Systems With Spatial Channel Correlation. IEEE Transactions on Wireless Communications, 2015, 14, 2868-2882.	9.2	188
30	The Role of Caching in Future Communication Systems and Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 1111-1125.	14.0	178
31	On the Effectiveness of OTFS for Joint Radar Parameter Estimation and Communication. IEEE Transactions on Wireless Communications, 2020, 19, 5951-5965.	9.2	166
32	Incremental Redundancy Hybrid ARQ Schemes Based on Low-Density Parity-Check Codes. IEEE Transactions on Communications, 2004, 52, 1311-1321.	7.8	161
33	Bit-Interleaved Coded Modulation. Foundations and Trends in Communications and Information Theory, 2007, 5, 1-153.	3.1	158
34	A Rate Splitting Strategy for Massive MIMO with Imperfect CSIT. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	156
35	Training and Feedback Optimization for Multiuser MIMO Downlink. IEEE Transactions on Communications, 2011, 59, 2228-2240.	7.8	145
36	Optimal User-Cell Association for Massive MIMO Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 1835-1850.	9.2	145

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37	Performance Analysis of Massive MIMO for Cell-Boundary Users. IEEE Transactions on Wireless Communications, 2015, 14, 6827-6842.	9.2	144
38	An iterative water-filling algorithm for maximum weighted sum-rate of Gaussian MIMO-BC. IEEE Journal on Selected Areas in Communications, 2006, 24, 1640-1646.	14.0	142
39	Quality-Aware Streaming and Scheduling for Device-to-Device Video Delivery. IEEE/ACM Transactions on Networking, 2016, 24, 2319-2331.	3.8	138
40	Successive interference cancellation with SISO decoding and EM channel estimation. IEEE Journal on Selected Areas in Communications, 2001, 19, 1450-1460.	14.0	136
41	Iterative Multiuser Joint Decoding: Optimal Power Allocation and Low-Complexity Implementation. IEEE Transactions on Information Theory, 2004, 50, 1950-1973.	2.4	135
42	The Throughput-Outage Tradeoff of Wireless One-Hop Caching Networks. IEEE Transactions on Information Theory, 2015, 61, 6833-6859.	2.4	134
43	Order-Optimal Rate of Caching and Coded Multicasting With Random Demands. IEEE Transactions on Information Theory, 2017, 63, 3923-3949.	2.4	133
44	Line-of-Sight Millimeter-Wave Communications Using Orbital Angular Momentum Multiplexing Combined With Conventional Spatial Multiplexing. IEEE Transactions on Wireless Communications, 2017, 16, 3151-3161.	9.2	130
45	Computing error probabilities over fading channels: A unified approach. European Transactions on Telecommunications, 1998, 9, 15-25.	1.2	129
46	Asymptotic Performance of Linear Receivers in MIMO Fading Channels. IEEE Transactions on Information Theory, 2009, 55, 4398-4418.	2.4	128
47	Simple method for evaluating error probabilities. Electronics Letters, 1996, 32, 191.	1.0	127
48	Compute-and-Forward Strategies for Cooperative Distributed Antenna Systems. IEEE Transactions on Information Theory, 2013, 59, 5227-5243.	2.4	119
49	Massive Access for Future Wireless Communication Systems. IEEE Wireless Communications, 2020, 27, 148-156.	9.0	114
50	Massive MIMO Channel Subspace Estimation From Low-Dimensional Projections. IEEE Transactions on Signal Processing, 2017, 65, 303-318.	5.3	111
51	Non-Bayesian Activity Detection, Large-Scale Fading Coefficient Estimation, and Unsourced Random Access With a Massive MIMO Receiver. IEEE Transactions on Information Theory, 2021, 67, 2925-2951.	2.4	109
52	Hard Fairness Versus Proportional Fairness in Wireless Communications: The Single-Cell Case. IEEE Transactions on Information Theory, 2007, 53, 1366-1385.	2.4	108
53	Multiuser MISO Transmitter Optimization for Intercell Interference Mitigation. IEEE Transactions on Signal Processing, 2010, 58, 4272-4285.	5.3	108
54	Suboptimality of TDMA in the Low-Power Regime. IEEE Transactions on Information Theory, 2004, 50, 608-620.	2.4	104

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55	Channel state feedback schemes for multiuser MIMO-OFDM downlink. IEEE Transactions on Communications, 2009, 57, 2713-2723.	7.8	104
56	Joint spatial division and multiplexing: Realizing massive MIMO gains with limited channel state information. , 2012, , .		102
57	Is NOMA Efficient in Multi-Antenna Networks? A Critical Look at Next Generation Multiple Access Techniques. IEEE Open Journal of the Communications Society, 2021, 2, 1310-1343.	6.9	102
58	Support Recovery With Sparsely Sampled Free Random Matrices. IEEE Transactions on Information Theory, 2013, 59, 4243-4271.	2.4	101
59	Impulse noise cancellation in OFDM: an application of compressed sensing. , 2008, , .		97
60	Multi-Cell MIMO Downlink With Cell Cooperation and Fair Scheduling: A Large-System Limit Analysis. IEEE Transactions on Information Theory, 2011, 57, 7771-7786.	2.4	97
61	Capacity of Channels With Frequency-Selective and Time-Selective Fading. IEEE Transactions on Information Theory, 2010, 56, 1187-1215.	2.4	95
62	Massive-MIMO Meets HetNet: Interference Coordination Through Spatial Blanking. IEEE Journal on Selected Areas in Communications, 2015, 33, 1171-1186.	14.0	95
63	Design Methods for Irregular Repeat-Accumulate Codes. IEEE Transactions on Information Theory, 2004, 50, 1711-1727.	2.4	93
64	Superposition coding for side-information channels. IEEE Transactions on Information Theory, 2006, 52, 1872-1889.	2.4	93
65	Joint Beamforming and Scheduling for a Multi-Antenna Downlink with Imperfect Transmitter Channel Knowledge. IEEE Journal on Selected Areas in Communications, 2007, 25, 1468-1477.	14.0	92
66	AirSync: Enabling Distributed Multiuser MIMO With Full Spatial Multiplexing. IEEE/ACM Transactions on Networking, 2013, 21, 1681-1695.	3.8	92
67	Improved Scaling Law for Activity Detection in Massive MIMO Systems. , 2018, , .		87
68	FDD Massive MIMO via UL/DL Channel Covariance Extrapolation and Active Channel Sparsification. IEEE Transactions on Wireless Communications, 2019, 18, 121-135.	9.2	83
69	On the Ergodic Rate Lower Bounds With Applications to Massive MIMO. IEEE Transactions on Wireless Communications, 2018, 17, 3258-3268.	9.2	76
70	Massive MIMO Pilot Decontamination and Channel Interpolation via Wideband Sparse Channel Estimation. IEEE Transactions on Wireless Communications, 2017, 16, 8316-8332.	9.2	74
71	Rethinking network MIMO: Cost of CSIT, performance analysis, and architecture comparisons. , 2010, , .		70
72	Fundamental limits of distributed caching in D2D wireless networks. , 2013, , .		70

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73	Adaptive Video Streaming for Wireless Networks with Multiple Users and Helpers. IEEE Transactions on Communications, 2014, , 1-1.	7.8	70
74	MIMO Downlink Scheduling with Non-Perfect Channel State Knowledge. IEEE Transactions on Communications, 2010, 58, 2055-2066.	7.8	69
75	User association and load balancing for cellular massive MIMO. , 2014, , .		69
76	Joint User Selection, Power Allocation, and Precoding Design With Imperfect CSIT for Multi-Cell MU-MIMO Downlink Systems. IEEE Transactions on Wireless Communications, 2020, 19, 162-176.	9.2	69
77	On the average performance of caching and coded multicasting with random demands. , 2014, , .		68
78	On the Distortion SNR Exponent of Hybrid Digitalâ€“Analog Spaceâ€“Time Coding. IEEE Transactions on Information Theory, 2007, 53, 2867-2878.	2.4	67
79	SPARCs and AMP for Unsourced Random Access. , 2019, , .		67
80	RadioUNet: Fast Radio Map Estimation With Convolutional Neural Networks. IEEE Transactions on Wireless Communications, 2021, 20, 4001-4015.	9.2	67
81	Impact of diversity reception on fading channels with coded modulation. I. Coherent detection. IEEE Transactions on Communications, 1997, 45, 563-572.	7.8	66
82	Wavelet transforms associated with finite cyclic groups. IEEE Transactions on Information Theory, 1993, 39, 1157-1166.	2.4	64
83	Joint Source Channel Coding With Side Information Using Hybrid Digital Analog Codes. IEEE Transactions on Information Theory, 2010, 56, 4922-4940.	2.4	64
84	Radio Resource Management Considerations for 5G Millimeter Wave Backhaul and Access Networks. , 2017, 55, 86-92.		64
85	Fast HARQ Over Finite Blocklength Codes: A Technique for Low-Latency Reliable Communication. IEEE Transactions on Wireless Communications, 2019, 18, 194-209.	9.2	63
86	A Scalable and Statistically Robust Beam Alignment Technique for Millimeter-Wave Systems. IEEE Transactions on Wireless Communications, 2018, 17, 4792-4805.	9.2	62
87	Information Theoretic Foundations of Adaptive Coded Modulation. Proceedings of the IEEE, 2007, 95, 2274-2298.	21.3	61
88	Cognitive femtocells: Breaking the spatial reuse barrier of cellular systems. , 2011, , .		61
89	Efficient Beam Alignment for Millimeter Wave Single-Carrier Systems With Hybrid MIMO Transceivers. IEEE Transactions on Wireless Communications, 2019, 18, 1518-1533.	9.2	61
90	Special issue on Massive MIMO. Journal of Communications and Networks, 2013, 15, 333-337.	2.6	59

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91	Optimal throughput-outage trade-off in wireless one-hop caching networks. , 2013, , .		58
92	Impulse Noise Estimation and Removal for OFDM Systems. IEEE Transactions on Communications, 2014, 62, 976-989.	7.8	58
93	Joint State Sensing and Communication: Optimal Tradeoff for a Memoryless Case. , 2018, , .		58
94	Achieving high data rates in a distributed MIMO system. , 2012, , .		56
95	Cellular Interference Alignment. IEEE Transactions on Information Theory, 2015, 61, 1194-1217.	2.4	56
96	Performance Analysis of Joint Radar and Communication using OFDM and OTFS. , 2019, , .		56
97	SPARCs for Unsourced Random Access. IEEE Transactions on Information Theory, 2021, 67, 6894-6915.	2.4	56
98	On the Required Accuracy of Transmitter Channel State Information in Multiple Antenna Broadcast Channels. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	54
99	Living at the Edge: A Large Deviations Approach to the Outage MIMO Capacity. IEEE Transactions on Information Theory, 2011, 57, 1984-2007.	2.4	54
100	Wireless Backhaul Networks: Capacity Bound, Scalability Analysis and Design Guidelines. IEEE Transactions on Wireless Communications, 2015, 14, 6043-6056.	9.2	53
101	On the Role of Transmit Correlation Diversity in Multiuser MIMO Systems. IEEE Transactions on Information Theory, 2017, 63, 336-354.	2.4	53
102	Physical-Layer Schemes for Wireless Coded Caching. IEEE Transactions on Information Theory, 2019, 65, 2792-2807.	2.4	53
103	Caching Eliminates the Wireless Bottleneck in Video Aware Wireless Networks. Advances in Electrical Engineering, 2014, 2014, 1-13.	1.1	52
104	Caching and coded multicasting: Multiple groupcast index coding. , 2014, , .		52
105	Wide-band CDMA for the UMTS/IMT-2000 satellite component. IEEE Transactions on Vehicular Technology, 2002, 51, 306-331.	6.3	51
106	Low-Complexity Statistically Robust Precoder/Detector Computation for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 6516-6530.	9.2	51
107	On the fundamental limits of caching in combination networks. , 2015, , .		49
108	Joint Iterative Detection and Decoding in the Presence of Phase Noise and Frequency Offset. IEEE Transactions on Communications, 2007, 55, 171-179.	7.8	48

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109	Wireless Multihop Device-to-Device Caching Networks. IEEE Transactions on Information Theory, 2017, 63, 1662-1676.	2.4	48
110	Optimality of Treating Interference as Noise: A Combinatorial Perspective. IEEE Transactions on Information Theory, 2016, 62, 4654-4673.	2.4	47
111	Noiseless data compression with low-density parity-check codes. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 2004, , 263-284.	0.0	47
112	A Control-Theoretic Approach to Adaptive Video Streaming in Dense Wireless Networks. IEEE Transactions on Multimedia, 2015, 17, 1309-1322.	7.2	45
113	How much training and feedback are needed in MIMO broadcast channels?. , 2008, , .		44
114	Expanding the Compute-and-Forward Framework: Unequal Powers, Signal Levels, and Multiple Linear Combinations. IEEE Transactions on Information Theory, 2016, 62, 4879-4909.	2.4	43
115	Improved Blind Interference Alignment in a Cellular Environment Using Power Allocation and Cell-Based Clusters. , 2011, , .		42
116	Multi-antenna coded caching. , 2017, , .		42
117	Maximizing the Spectral Efficiency of Coded CDMA Under Successive Decoding. IEEE Transactions on Information Theory, 2004, 50, 152-164.	2.4	41
118	Cognitive Hybrid Division Duplex for Two-Tier Femtocell Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4852-4865.	9.2	41
119	On the Distortion SNR Exponent of Some Layered Transmission Schemes. IEEE Transactions on Information Theory, 2008, 54, 2943-2958.	2.4	39
120	Decode-and-Forward Relaying With Quantized Channel State Feedback: An Outage Exponent Analysis. IEEE Transactions on Information Theory, 2008, 54, 4548-4564.	2.4	39
121	Cellular vs. Network MIMO: A comparison including the channel state information overhead. , 2009, , .		38
122	A Repair Framework for Scalar MDS Codes. IEEE Journal on Selected Areas in Communications, 2014, 32, 998-1007.	14.0	38
123	Virtual Full-Duplex Relaying With Half-Duplex Relays. IEEE Transactions on Information Theory, 2015, 61, 4700-4720.	2.4	38
124	Optimum Power Control at Finite Blocklength. IEEE Transactions on Information Theory, 2015, 61, 4598-4615.	2.4	38
125	Fully-/Partially-Connected Hybrid Beamforming Architectures for mmWave MU-MIMO. IEEE Transactions on Wireless Communications, 2020, 19, 1754-1769.	9.2	38
126	Caching-aided coded multicasting with multiple random requests. , 2015, , .		37

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127	On the Optimality of D2D Coded Caching With Uncoded Cache Placement and One-Shot Delivery. IEEE Transactions on Communications, 2019, 67, 8179-8192.	7.8	37
128	Structured multiuser channel estimation for block-synchronous DS/CDMA. IEEE Transactions on Communications, 2001, 49, 1605-1617.	7.8	36
129	On low-complexity space-time coding for quasi-static channels. IEEE Transactions on Information Theory, 2003, 49, 1400-1416.	2.4	36
130	Achieving large multiplexing gain in distributed antenna systems via cooperation with pCell technology. , 2015, , .		36
131	RRH based massive MIMO with "on the Fly" pilot contamination control. , 2016, , .		36
132	Coding and Decoding for the Dynamic Decode and Forward Relay Protocol. IEEE Transactions on Information Theory, 2009, 55, 3186-3205.	2.4	35
133	Design and operation of Blind Interference Alignment in cellular and cluster-based systems. , 2011, , .		35
134	Impulsive noise estimation and cancellation in DSL using orthogonal clustering. , 2011, , .		35
135	Upper bound on the frame error probability of terminated trellis codes. IEEE Communications Letters, 1998, 2, 2-4.	4.1	34
136	Cellular and Network MIMO architectures: MU-MIMO spectral efficiency and costs of channel state information. , 2009, , .		34
137	Wireless video content delivery through coded distributed caching. , 2012, , .		34
138	Power control and beamforming for systems with multiple transmit and receive antennas. IEEE Transactions on Wireless Communications, 2002, 1, 638-648.	9.2	33
139	On the Capacity of Cloud Radio Access Networks With Oblivious Relaying. IEEE Transactions on Information Theory, 2019, 65, 4575-4596.	2.4	33
140	Grant-Free Massive Random Access With a Massive MIMO Receiver. , 2019, , .		33
141	On Coded Caching With Private Demands. IEEE Transactions on Information Theory, 2021, 67, 358-372.	2.4	33
142	Linear block codes over cyclic groups. IEEE Transactions on Information Theory, 1995, 41, 1246-1256.	2.4	32
143	Bit-Interleaved Coded Modulation in the Wideband Regime. IEEE Transactions on Information Theory, 2008, 54, 5447-5455.	2.4	32
144	Asymptotic Ergodic Capacity Analysis for MIMO Amplify-and-Forward Relay Networks. IEEE Transactions on Wireless Communications, 2010, 9, 2712-2717.	9.2	32

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145	Wireless video content delivery through distributed caching and peer-to-peer gossiping. , 2011, , .		32
146	Hardware-impairment compensation for enabling distributed large-scale MIMO. , 2013, , .		32
147	Caching in combination networks. , 2015, , .		32
148	An efficient multiple-groupcast coded multicasting scheme for finite fractional caching. , 2015, , .		32
149	Low-Complexity Massive MIMO Subspace Estimation and Tracking From Low-Dimensional Projections. IEEE Transactions on Signal Processing, 2018, 66, 1832-1844.	5.3	32
150	Quantized vs. Analog Feedback for the MIMO Broadcast Channel: A Comparison between Zero-Forcing Based Achievable Rates. , 2007, , .		31
151	Delay Performance of the Multiuser MISO Downlink Under Imperfect CSI and Finite-Length Coding. IEEE Journal on Selected Areas in Communications, 2019, 37, 765-779.	14.0	31
152	Caching in wireless multihop device-to-device networks. , 2015, , .		30
153	The Diversity-Multiplexing Tradeoff of Linear MIMO Receivers. , 2007, , .		29
154	Signal Recovery From Unlabeled Samples. IEEE Transactions on Signal Processing, 2018, 66, 1242-1257.	5.3	29
155	The throughput of some wireless multiaccess systems. IEEE Transactions on Information Theory, 2002, 48, 2773-2785.	2.4	28
156	WiFlix: Adaptive Video Streaming in Massive MU-MIMO Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 4088-4103.	9.2	28
157	Parallel concatenated codes with unequal error protection. IEEE Transactions on Communications, 1998, 46, 565-567.	7.8	26
158	Joint Source-Channel Coding for Deep-Space Image Transmission using Rateless Codes. IEEE Transactions on Communications, 2013, 61, 3448-3461.	7.8	26
159	Fountain codes for lossless data compression. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 2005, , 1-20.	0.0	26
160	Pilot-Based Unsourced Random Access With a Massive MIMO Receiver, Interference Cancellation, and Power Control. IEEE Journal on Selected Areas in Communications, 2022, 40, 1522-1534.	14.0	26
161	A multiuser approach to narrowband cellular communications. IEEE Transactions on Information Theory, 1997, 43, 1503-1517.	2.4	25
162	The Gaussian Erasure Channel. , 2007, , .		25

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163	Cooperative cellular networks using multi-user MIMO: trade-offs, overheads, and interference control across architectures. , 2011, 49, 70-77.		25
164	Integer-forcing interference alignment. , 2013, , .		25
165	Secure Massive MIMO transmission in the presence of an active eavesdropper. , 2015, , .		25
166	Multi-Band Covariance Interpolation with Applications in Massive MIMO. , 2018, , .		25
167	OTFS vs. OFDM in the Presence of Sparsity: A Fair Comparison. IEEE Transactions on Wireless Communications, 2022, 21, 4410-4423.	9.2	25
168	Quantifying the Loss of Compressâ€‘Forward Relaying Without Wynerâ€‘Ziv Coding. IEEE Transactions on Information Theory, 2009, 55, 1529-1533.	2.4	24
169	Diversity Gains of Power Control With Noisy CSIT in MIMO Channels. IEEE Transactions on Information Theory, 2009, 55, 1618-1626.	2.4	24
170	Allocations for heterogenous distributed storage. , 2012, , .		24
171	Tracking of Wideband Multipath Components in a Vehicular Communication Scenario. IEEE Transactions on Vehicular Technology, 2017, 66, 15-25.	6.3	23
172	A New Order-Optimal Decentralized Coded Caching Scheme With Good Performance in the Finite File Size Regime. IEEE Transactions on Communications, 2019, 67, 5297-5310.	7.8	23
173	Variable-Rate Coding for Slowly Fading Gaussian Multiple-Access Channels. IEEE Transactions on Information Theory, 2004, 50, 2271-2292.	2.4	22
174	Spaceâ€‘Time Codes From Structured Lattices. IEEE Transactions on Information Theory, 2009, 55, 547-556.	2.4	22
175	Reverse compute and forward: A low-complexity architecture for downlink distributed antenna systems. , 2012, , .		22
176	Low-Overhead Hierarchically-Sparse Channel Estimation for Multiuser Wideband Massive MIMO. IEEE Transactions on Wireless Communications, 2019, 18, 2186-2199.	9.2	22
177	Achieving Spatial Scalability for Coded Caching via Coded Multipoint Multicasting. IEEE Transactions on Wireless Communications, 2019, 18, 227-240.	9.2	22
178	System capacity of F-TDMA cellular systems. IEEE Transactions on Communications, 1998, 46, 1649-1661.	7.8	21
179	How fading affects CDMA: an asymptotic analysis with linear receivers. IEEE Journal on Selected Areas in Communications, 2001, 19, 191-201.	14.0	21
180	Performance of MMSE MIMO Receivers: A Large N Analysis for Correlated Channels. , 2009, , .		21

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181	The beam alignment problem in mmWave wireless networks. , 2016, , .		21
182	Controllable Identifier Measurements for Private Authentication With Secret Keys. IEEE Transactions on Information Forensics and Security, 2018, 13, 1945-1959.	6.9	21
183	Fog Massive MIMO: A User-Centric Seamless Hot-Spot Architecture. IEEE Transactions on Wireless Communications, 2019, 18, 559-574.	9.2	21
184	Iterative Waterfilling for Weighted Rate Sum Maximization in MIMO-OFDM Broadcast Channels. , 2007, , .		20
185	On the net DoF comparison between ZF and MAT over time-varying MISO broadcast channels. , 2012, , .		20
186	Scheduling in Massive MIMO: User clustering and pilot assignment. , 2016, , .		20
187	Topological coded caching. , 2016, , .		20
188	Data-Aided Secure Massive MIMO Transmission Under the Pilot Contamination Attack. IEEE Transactions on Communications, 2019, 67, 4765-4781.	7.8	20
189	Quantized compute and forward: A low-complexity architecture for distributed antenna systems. , 2011, , .		19
190	Topological Interference Management With Decoded Message Passing. IEEE Transactions on Information Theory, 2018, 64, 3842-3864.	2.4	19
191	Uncoded placement optimization for coded delivery. , 2018, , .		19
192	Large-Scale Fading Characteristics and Models for Vehicle-to-Pedestrian Channel at 5-GHz. IEEE Access, 2019, 7, 107648-107658.	4.2	19
193	Coding for the fading channel: a survey. Signal Processing, 2000, 80, 1135-1148.	3.7	18
194	A Closed-Form Approximation for the Error Probability of BPSK Fading Channels. IEEE Transactions on Wireless Communications, 2007, 6, 2051-2054.	9.2	18
195	MIMO broadcast channel optimization under general linear constraints. , 2009, , .		18
196	On the selection of semi-orthogonal users for zero-forcing beamforming. , 2009, , .		18
197	Game Theory-Based Resource Allocation for Secure WPCN Multiantenna Multicasting Systems. IEEE Transactions on Information Forensics and Security, 2018, 13, 926-939.	6.9	18
198	A Novel Transformation Approach of Shared-Link Coded Caching Schemes for Multiaccess Networks. IEEE Transactions on Communications, 2021, 69, 7376-7389.	7.8	18

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199	The academic and industrial embrace of space-time methods. IEEE Transactions on Information Theory, 2003, 49, 2329-2331.	2.4	17
200	Multidimensional Coded Modulation in Block-Fading Channels. IEEE Transactions on Information Theory, 2008, 54, 2367-2372.	2.4	17
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