

# Giuseppe Caire

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6103778/publications.pdf>

Version: 2024-02-01

464  
papers

27,223  
citations

13827

67  
h-index

8599

146  
g-index

464  
all docs

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.	1.5	2,034
2	On the achievable throughput of a multiantenna Gaussian broadcast channel. IEEE Transactions on Information Theory, 2003, 49, 1691-1706.	1.5	2,020
3	Joint Spatial Division and Multiplexing in the Large-Scale Array Regime. IEEE Transactions on Information Theory, 2013, 59, 6441-6463.	1.5	1,185
4	FemtoCaching: Wireless Content Delivery Through Distributed Caching Helpers. IEEE Transactions on Information Theory, 2013, 59, 8402-8413.	1.5	1,133
5	On maximum-likelihood detection and the search for the closest lattice point. IEEE Transactions on Information Theory, 2003, 49, 2389-2402.	1.5	1,031
6	Optimum power control over fading channels. IEEE Transactions on Information Theory, 1999, 45, 1468-1489.	1.5	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.	1.5	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.	9.7	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.	1.5	492
12	Wireless Device-to-Device Caching Networks: Basic Principles and System Performance. IEEE Journal on Selected Areas in Communications, 2016, 34, 176-189.	9.7	489
13	Fundamental Limits of Caching in Wireless D2D Networks. IEEE Transactions on Information Theory, 2016, 62, 849-869.	1.5	486
14	On the capacity of some channels with channel state information. IEEE Transactions on Information Theory, 1999, 45, 2007-2019.	1.5	382
15	Achieving "Massive MIMO" Spectral Efficiency with a Not-so-Large Number of Antennas. IEEE Transactions on Wireless Communications, 2012, 11, 3226-3239.	6.1	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.	7.3	304
17	Joint Spatial Division and Multiplexing for mm-Wave Channels. IEEE Journal on Selected Areas in Communications, 2014, 32, 1239-1255.	9.7	278
18	Limiting performance of block-fading channels with multiple antennas. IEEE Transactions on Information Theory, 2001, 47, 1273-1289.	1.5	266

#	ARTICLE	IF	CITATIONS
19	Secure Massive MIMO Transmission With an Active Eavesdropper. IEEE Transactions on Information Theory, 2016, 62, 3880-3900.	1.5	264
20	A unified framework for tree search decoding: rediscovering the sequential decoder. IEEE Transactions on Information Theory, 2006, 52, 933-953.	1.5	263
21	Lattice Coding and Decoding Achieve the Optimal Diversity-Multiplexing Tradeoff of MIMO Channels. IEEE Transactions on Information Theory, 2004, 50, 968-985.	1.5	258
22	Iterative multiuser joint decoding: unified framework and asymptotic analysis. IEEE Transactions on Information Theory, 2002, 48, 1772-1793.	1.5	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.	1.5	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.	9.7	216
26	The MIMO ARQ Channel: Diversity-Multiplexing-Delay Tradeoff. IEEE Transactions on Information Theory, 2006, 52, 3601-3621.	1.5	216
27	Scalable Synchronization and Reciprocity Calibration for Distributed Multiuser MIMO. IEEE Transactions on Wireless Communications, 2014, 13, 1815-1831.	6.1	201
28	Bit-Interleaved Coded Modulation Revisited: A Mismatched Decoding Perspective. IEEE Transactions on Information Theory, 2009, 55, 2756-2765.	1.5	194
29	Achievable Rates of FDD Massive MIMO Systems With Spatial Channel Correlation. IEEE Transactions on Wireless Communications, 2015, 14, 2868-2882.	6.1	188
30	The Role of Caching in Future Communication Systems and Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 1111-1125.	9.7	178
31	On the Effectiveness of OTFS for Joint Radar Parameter Estimation and Communication. IEEE Transactions on Wireless Communications, 2020, 19, 5951-5965.	6.1	166
32	Incremental Redundancy Hybrid ARQ Schemes Based on Low-Density Parity-Check Codes. IEEE Transactions on Communications, 2004, 52, 1311-1321.	4.9	161
33	Bit-Interleaved Coded Modulation. Foundations and Trends in Communications and Information Theory, 2007, 5, 1-153.	2.4	158
34	A Rate Splitting Strategy for Massive MIMO with Imperfect CSIT. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	156
35	Training and Feedback Optimization for Multiuser MIMO Downlink. IEEE Transactions on Communications, 2011, 59, 2228-2240.	4.9	145
36	Optimal User-Cell Association for Massive MIMO Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 1835-1850.	6.1	145

#	ARTICLE	IF	CITATIONS
37	Performance Analysis of Massive MIMO for Cell-Boundary Users. IEEE Transactions on Wireless Communications, 2015, 14, 6827-6842.	6.1	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.	9.7	142
39	Quality-Aware Streaming and Scheduling for Device-to-Device Video Delivery. IEEE/ACM Transactions on Networking, 2016, 24, 2319-2331.	2.6	138
40	Successive interference cancellation with SISO decoding and EM channel estimation. IEEE Journal on Selected Areas in Communications, 2001, 19, 1450-1460.	9.7	136
41	Iterative Multiuser Joint Decoding: Optimal Power Allocation and Low-Complexity Implementation. IEEE Transactions on Information Theory, 2004, 50, 1950-1973.	1.5	135
42	The Throughput-Outage Tradeoff of Wireless One-Hop Caching Networks. IEEE Transactions on Information Theory, 2015, 61, 6833-6859.	1.5	134
43	Order-Optimal Rate of Caching and Coded Multicasting With Random Demands. IEEE Transactions on Information Theory, 2017, 63, 3923-3949.	1.5	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.	6.1	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.	1.5	128
47	Simple method for evaluating error probabilities. Electronics Letters, 1996, 32, 191.	0.5	127
48	Compute-and-Forward Strategies for Cooperative Distributed Antenna Systems. IEEE Transactions on Information Theory, 2013, 59, 5227-5243.	1.5	119
49	Massive Access for Future Wireless Communication Systems. IEEE Wireless Communications, 2020, 27, 148-156.	6.6	114
50	Massive MIMO Channel Subspace Estimation From Low-Dimensional Projections. IEEE Transactions on Signal Processing, 2017, 65, 303-318.	3.2	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.	1.5	109
52	Hard Fairness Versus Proportional Fairness in Wireless Communications: The Single-Cell Case. IEEE Transactions on Information Theory, 2007, 53, 1366-1385.	1.5	108
53	Multiuser MISO Transmitter Optimization for Intercell Interference Mitigation. IEEE Transactions on Signal Processing, 2010, 58, 4272-4285.	3.2	108
54	Suboptimality of TDMA in the Low-Power Regime. IEEE Transactions on Information Theory, 2004, 50, 608-620.	1.5	104

#	ARTICLE	IF	CITATIONS
55	Channel state feedback schemes for multiuser MIMO-OFDM downlink. IEEE Transactions on Communications, 2009, 57, 2713-2723.	4.9	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.	4.4	102
58	Support Recovery With Sparsely Sampled Free Random Matrices. IEEE Transactions on Information Theory, 2013, 59, 4243-4271.	1.5	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.	1.5	97
61	Capacity of Channels With Frequency-Selective and Time-Selective Fading. IEEE Transactions on Information Theory, 2010, 56, 1187-1215.	1.5	95
62	Massive-MIMO Meets HetNet: Interference Coordination Through Spatial Blanking. IEEE Journal on Selected Areas in Communications, 2015, 33, 1171-1186.	9.7	95
63	Design Methods for Irregular Repeatâ€Accumulate Codes. IEEE Transactions on Information Theory, 2004, 50, 1711-1727.	1.5	93
64	Superposition coding for side-information channels. IEEE Transactions on Information Theory, 2006, 52, 1872-1889.	1.5	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.	9.7	92
66	AirSync: Enabling Distributed Multiuser MIMO With Full Spatial Multiplexing. IEEE/ACM Transactions on Networking, 2013, 21, 1681-1695.	2.6	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.	6.1	83
69	On the Ergodic Rate Lower Bounds With Applications to Massive MIMO. IEEE Transactions on Wireless Communications, 2018, 17, 3258-3268.	6.1	76
70	Massive MIMO Pilot Decontamination and Channel Interpolation via Wideband Sparse Channel Estimation. IEEE Transactions on Wireless Communications, 2017, 16, 8316-8332.	6.1	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

#	ARTICLE	IF	CITATIONS
73	Adaptive Video Streaming for Wireless Networks with Multiple Users and Helpers. IEEE Transactions on Communications, 2014, , 1-1.	4.9	70
74	MIMO Downlink Scheduling with Non-Perfect Channel State Knowledge. IEEE Transactions on Communications, 2010, 58, 2055-2066.	4.9	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.	6.1	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.	1.5	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.	6.1	67
81	Impact of diversity reception on fading channels with coded modulation. I. Coherent detection. IEEE Transactions on Communications, 1997, 45, 563-572.	4.9	66
82	Wavelet transforms associated with finite cyclic groups. IEEE Transactions on Information Theory, 1993, 39, 1157-1166.	1.5	64
83	Joint Source Channel Coding With Side Information Using Hybrid Digital Analog Codes. IEEE Transactions on Information Theory, 2010, 56, 4922-4940.	1.5	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.	6.1	63
86	A Scalable and Statistically Robust Beam Alignment Technique for Millimeter-Wave Systems. IEEE Transactions on Wireless Communications, 2018, 17, 4792-4805.	6.1	62
87	Information Theoretic Foundations of Adaptive Coded Modulation. Proceedings of the IEEE, 2007, 95, 2274-2298.	16.4	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.	6.1	61
90	Special issue on Massive MIMO. Journal of Communications and Networks, 2013, 15, 333-337.	1.8	59

#	ARTICLE	IF	CITATIONS
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.	4.9	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.	1.5	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.	1.5	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.	1.5	54
100	Wireless Backhaul Networks: Capacity Bound, Scalability Analysis and Design Guidelines. IEEE Transactions on Wireless Communications, 2015, 14, 6043-6056.	6.1	53
101	On the Role of Transmit Correlation Diversity in Multiuser MIMO Systems. IEEE Transactions on Information Theory, 2017, 63, 336-354.	1.5	53
102	Physical-Layer Schemes for Wireless Coded Caching. IEEE Transactions on Information Theory, 2019, 65, 2792-2807.	1.5	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.	3.9	51
106	Low-Complexity Statistically Robust Precoder/Detector Computation for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 6516-6530.	6.1	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.	4.9	48

#	ARTICLE	IF	CITATIONS
109	Wireless Multihop Device-to-Device Caching Networks. IEEE Transactions on Information Theory, 2017, 63, 1662-1676.	1.5	48
110	Optimality of Treating Interference as Noise: A Combinatorial Perspective. IEEE Transactions on Information Theory, 2016, 62, 4654-4673.	1.5	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.	5.2	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.	1.5	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.	1.5	41
118	Cognitive Hybrid Division Duplex for Two-Tier Femtocell Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4852-4865.	6.1	41
119	On the Distortion SNR Exponent of Some Layered Transmission Schemes. IEEE Transactions on Information Theory, 2008, 54, 2943-2958.	1.5	39
120	Decode-and-Forward Relaying With Quantized Channel State Feedback: An Outage Exponent Analysis. IEEE Transactions on Information Theory, 2008, 54, 4548-4564.	1.5	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.	9.7	38
123	Virtual Full-Duplex Relaying With Half-Duplex Relays. IEEE Transactions on Information Theory, 2015, 61, 4700-4720.	1.5	38
124	Optimum Power Control at Finite Blocklength. IEEE Transactions on Information Theory, 2015, 61, 4598-4615.	1.5	38
125	Fully-/Partially-Connected Hybrid Beamforming Architectures for mmWave MU-MIMO. IEEE Transactions on Wireless Communications, 2020, 19, 1754-1769.	6.1	38
126	Caching-aided coded multicasting with multiple random requests. , 2015, , .		37



#	ARTICLE	IF	CITATIONS
127	On the Optimality of D2D Coded Caching With Uncoded Cache Placement and One-Shot Delivery. IEEE Transactions on Communications, 2019, 67, 8179-8192.	4.9	37
128	Structured multiuser channel estimation for block-synchronous DS/CDMA. IEEE Transactions on Communications, 2001, 49, 1605-1617.	4.9	36
129	On low-complexity space-time coding for quasi-static channels. IEEE Transactions on Information Theory, 2003, 49, 1400-1416.	1.5	36
130	Achieving large multiplexing gain in distributed antenna systems via cooperation with pCell technology. , 2015, , .		36
131	RRH based massive MIMO with "œœon 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.	1.5	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.	2.5	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.	6.1	33
139	On the Capacity of Cloud Radio Access Networks With Oblivious Relaying. IEEE Transactions on Information Theory, 2019, 65, 4575-4596.	1.5	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.	1.5	33
142	Linear block codes over cyclic groups. IEEE Transactions on Information Theory, 1995, 41, 1246-1256.	1.5	32
143	Bit-Interleaved Coded Modulation in the Wideband Regime. IEEE Transactions on Information Theory, 2008, 54, 5447-5455.	1.5	32
144	Asymptotic Ergodic Capacity Analysis for MIMO Amplify-and-Forward Relay Networks. IEEE Transactions on Wireless Communications, 2010, 9, 2712-2717.	6.1	32

#	ARTICLE	IF	CITATIONS
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.	3.2	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.	9.7	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.	3.2	29
155	The throughput of some wireless multiaccess systems. IEEE Transactions on Information Theory, 2002, 48, 2773-2785.	1.5	28
156	WiFiX: Adaptive Video Streaming in Massive MU-MIMO Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 4088-4103.	6.1	28
157	Parallel concatenated codes with unequal error protection. IEEE Transactions on Communications, 1998, 46, 565-567.	4.9	26
158	Joint Source-Channel Coding for Deep-Space Image Transmission using Rateless Codes. IEEE Transactions on Communications, 2013, 61, 3448-3461.	4.9	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.	9.7	26
161	A multiuser approach to narrowband cellular communications. IEEE Transactions on Information Theory, 1997, 43, 1503-1517.	1.5	25
162	The Gaussian Erasure Channel. , 2007, , .		25

#	ARTICLE	IF	CITATIONS
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.	6.1	25
168	Quantifying the Loss of Compressâ€“Forward Relaying Without Wynerâ€“Ziv Coding. IEEE Transactions on Information Theory, 2009, 55, 1529-1533.	1.5	24
169	Diversity Gains of Power Control With Noisy CSIT in MIMO Channels. IEEE Transactions on Information Theory, 2009, 55, 1618-1626.	1.5	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.	3.9	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.	4.9	23
173	Variable-Rate Coding for Slowly Fading Gaussian Multiple-Access Channels. IEEE Transactions on Information Theory, 2004, 50, 2271-2292.	1.5	22
174	Spaceâ€“Time Codes From Structured Lattices. IEEE Transactions on Information Theory, 2009, 55, 547-556.	1.5	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.	6.1	22
177	Achieving Spatial Scalability for Coded Caching via Coded Multipoint Multicasting. IEEE Transactions on Wireless Communications, 2019, 18, 227-240.	6.1	22
178	System capacity of F-TDMA cellular systems. IEEE Transactions on Communications, 1998, 46, 1649-1661.	4.9	21
179	How fading affects CDMA: an asymptotic analysis with linear receivers. IEEE Journal on Selected Areas in Communications, 2001, 19, 191-201.	9.7	21
180	Performance of MMSE MIMO Receivers: A Large N Analysis for Correlated Channels. , 2009, , .		21

#	ARTICLE	IF	CITATIONS
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.	4.5	21
183	Fog Massive MIMO: A User-Centric Seamless Hot-Spot Architecture. IEEE Transactions on Wireless Communications, 2019, 18, 559-574.	6.1	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.	4.9	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.	1.5	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.	2.6	19
193	Coding for the fading channel: a survey. Signal Processing, 2000, 80, 1135-1148.	2.1	18
194	A Closed-Form Approximation for the Error Probability of BPSK Fading Channels. IEEE Transactions on Wireless Communications, 2007, 6, 2051-2054.	6.1	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.	4.5	18
198	A Novel Transformation Approach of Shared-Link Coded Caching Schemes for Multiaccess Networks. IEEE Transactions on Communications, 2021, 69, 7376-7389.	4.9	18

#	ARTICLE	IF	CITATIONS
199	The academic and industrial embrace of space-time methods. IEEE Transactions on Information Theory, 2003, 49, 2329-2331.	1.5	17
200	Multidimensional Coded Modulation in Block-Fading Channels. IEEE Transactions on Information Theory, 2008, 54, 2367-2372.	1.5	17
201	Energy-Delay Tradeoff and Dynamic Sleep Switching for Bluetooth-Like Body-Area Sensor Networks. IEEE Transactions on Communications, 2012, 60, 2733-2746.	4.9	17
202	Experimental demonstration of 16 Gbit/s millimeter-wave communications using MIMO processing of 2 OAM modes on each of two transmitter/receiver antenna apertures. , 2014, , .		17
203	JSDM and multi-cell networks: Handling inter-cell interference through long-term antenna statistics. , 2014, , .		17
204	A Joint Scheduling and Resource Allocation Scheme for Millimeter Wave Heterogeneous Networks. , 2017, , .		17
205	Fundamental Limits of Decentralized Data Shuffling. IEEE Transactions on Information Theory, 2020, 66, 3616-3637.	1.5	17
206	Pathloss Prediction using Deep Learning with Applications to Cellular Optimization and Efficient D2D Link Scheduling. , 2020, , .		17
207	The Performance of Incremental Redundancy Schemes Based on Convolutional Codes in the Block-Fading Gaussian Collision Channel. IEEE Transactions on Wireless Communications, 2004, 3, 843-854.	6.1	16
208	Transmit Diversity Versus Opportunistic Beamforming in Data Packet Mobile Downlink Transmission. IEEE Transactions on Communications, 2007, 55, 151-157.	4.9	16
209	Channel state prediction, feedback and scheduling for a multiuser MIMO-OFDM downlink. , 2008, , .		16
210	Multi-user MIMO with outdated CSI: Training, feedback and scheduling. , 2011, , .		16
211	Massive MIMO and inter-tier interference coordination. , 2014, , .		16
212	ITLinQ+: An improved spectrum sharing mechanism for device-to-device communications. , 2015, , .		16
213	Measurement-Based Wideband Analysis of Dynamic Multipath Propagation in Vehicular Communication Scenarios. IEEE Transactions on Vehicular Technology, 2017, 66, 4657-4667.	3.9	16
214	On the capacity of cloud radio access networks with oblivious relaying. , 2017, , .		16
215	Cache-Induced Hierarchical Cooperation in Wireless Device-to-Device Caching Networks. IEEE Transactions on Information Theory, 2018, 64, 4629-4652.	1.5	16
216	Pilot-Based Unsourced Random Access with a Massive MIMO Receiver in the Quasi-Static Fading Regime. , 2021, , .		16

#	ARTICLE	IF	CITATIONS
217	On cooperative source transmission with partial rate and power control. IEEE Journal on Selected Areas in Communications, 2008, 26, 1408-1418.	9.7	15
218	Achieving large spectral efficiencies from MU-MIMO with tens of antennas: Location-adaptive TDD MU-MIMO design and user scheduling. , 2010, , .		15
219	Scalability of line-of-sight massive MIMO mesh networks for wireless backhaul. , 2014, , .		15
220	Two-stage nondata-aided adaptive linear receivers for DS/CDMA. IEEE Transactions on Communications, 2000, 48, 1712-1724.	4.9	14
221	A MIMO-OFDM Testbed for Wireless Local Area Networks. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	14
222	Asymmetric compute-and-forward. , 2013, , .		14
223	On Interference Networks Over Finite Fields. IEEE Transactions on Information Theory, 2014, 60, 4902-4921.	1.5	14
224	On the Beamformed Broadcasting for Millimeter Wave Cell Discovery: Performance Analysis and Design Insight. IEEE Transactions on Wireless Communications, 2018, 17, 7620-7634.	6.1	14
225	The $\mathbb{P}$ -Sphere Encoder: Peak-Power Reduction by Lattice Precoding for the MIMO Gaussian Broadcast Channel. IEEE Transactions on Communications, 2006, 54, 2085-2091.	4.9	13
226	Avalanche: Fast RF calibration of massive arrays. , 2014, , .		13
227	High-rate WiFi broadcasting in crowded scenarios via lightweight coordination of multiple access points. , 2016, , .		13
228	Secret Key-Based Identification and Authentication With a Privacy Constraint. IEEE Transactions on Information Theory, 2016, 62, 6189-6203.	1.5	13
229	Directional training and fast sector-based processing schemes for mmWave channels. , 2017, , .		13
230	Classification of Spot-Welded Joints in Laser Thermography Data Using Convolutional Neural Networks. IEEE Access, 2021, 9, 48303-48312.	2.6	13
231	On the Optimal Load-Memory Tradeoff of Cache-Aided Scalar Linear Function Retrieval. IEEE Transactions on Information Theory, 2021, 67, 4001-4018.	1.5	13
232	Iterative Waterfilling for Weighted Rate Sum Maximization in MIMO-MAC. , 2006, , .		12
233	Joint Source Channel Coding with Side Information Using Hybrid Digital Analog Codes. , 2007, , .		12
234	Support recovery with sparsely sampled free random matrices. , 2011, , .		12

#	ARTICLE	IF	CITATIONS
235	Optimal deterministic compressed sensing matrices. , 2013, , .		12
236	Beyond Scaling Laws: On the Rate Performance of Dense Device-to-Device Wireless Networks. IEEE Transactions on Information Theory, 2015, 61, 4735-4750.	1.5	12
237	Performance modeling of next-generation WiFi networks. Computer Networks, 2016, 105, 150-165.	3.2	12
238	Fundamental limits of distributed caching in multihop D2D wireless networks. , 2017, , .		12
239	Laser excited super resolution thermal imaging for nondestructive inspection of internal defects. Scientific Reports, 2020, 10, 22357.	1.6	12
240	Quality-Aware Deep Reinforcement Learning for Streaming in Infrastructure-Assisted Connected Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 2002-2017.	3.9	12
241	Impact of diversity reception on fading channels with coded modulation. III. Co-channel interference. IEEE Transactions on Communications, 1997, 45, 809-818.	4.9	11
242	Modulation and coding for the Gaussian collision channel. IEEE Transactions on Information Theory, 2000, 46, 2007-2026.	1.5	11
243	Duality between Broadcasting with Bandwidth Expansion and Bandwidth Compression. , 2007, , .		11
244	Multi-cell MIMO downlink with fairness criteria: The large system limit. , 2010, , .		11
245	Secret key-based authentication with a privacy constraint. , 2015, , .		11
246	Weighted Sum Secrecy Rate Maximization for D2D Underlaid Cellular Networks. IEEE Transactions on Communications, 2020, 68, 349-362.	4.9	11
247	Multidimensional Reconstruction of Internal Defects in Additively Manufactured Steel Using Photothermal Super Resolution Combined With Virtual Wave-Based Image Processing. IEEE Transactions on Industrial Informatics, 2021, 17, 7368-7378.	7.2	11
248	Joint Radar Target Detection and Parameter Estimation with MIMO OTFS. , 2020, , .		11
249	Construction of Structured LaST Codes. , 2006, , .		10
250	Network MIMO large-system analysis and the impact of CSIT Estimation. , 2010, , .		10
251	Device-to-device communications for wireless video delivery. , 2012, , .		10
252	On the coexistence of macrocell spatial multiplexing and cognitive femtocells. , 2012, , .		10

#	ARTICLE	IF	CITATIONS
253	Cellular interference alignment. , 2014, , .		10
254	Energy and Sampling Constrained Asynchronous Communication. IEEE Transactions on Information Theory, 2014, 60, 7686-7697.	1.5	10
255	A novel alternative to cloud RAN for throughput densification: Coded pilots and fast user-packet scheduling at remote radio heads. , 2016, , .		10
256	Joint User Scheduling, Power Allocation, and Precoding Design for Massive MIMO Systems: A Principal Component Analysis Approach. , 2018, , .		10
257	WiFi-Based Indoor Localization via Multi-Band Splicing and Phase Retrieval. , 2019, , .		10
258	Low-Complexity Truncated Polynomial Expansion DL Precoders and UL Receivers for Massive MIMO in Correlated Channels. IEEE Transactions on Wireless Communications, 2019, 18, 1069-1084.	6.1	10
259	Capacity Scaling of Massive MIMO in Strong Spatial Correlation Regimes. IEEE Transactions on Information Theory, 2020, 66, 3040-3064.	1.5	10
260	Structured Channel Covariance Estimation from Limited Samples in Massive MIMO. , 2020, , .		10
261	Cache Optimization Models and Algorithms. Foundations and Trends in Communications and Information Theory, 2020, 16, 156-345.	2.4	10
262	Ground-Motion Modeling as an Image Processing Task: Introducing a Neural Network Based, Fully Data-Driven, and Nonergodic Approach. Bulletin of the Seismological Society of America, 2022, 112, 1565-1582.	1.1	10
263	Achievable rates of MIMO downlink beamforming with non-perfect CSI: a comparison between quantized and analog feedback. , 2006, , .		9
264	Impact of signal constellation expansion on the achievable diversity of pragmatic bit-interleaved space-time codes. IEEE Transactions on Wireless Communications, 2006, 5, 2032-2037.	6.1	9
265	Joint Beamforming and Scheduling for a MIMO Downlink with Random Arrivals. , 2006, , .		9
266	Directional ZigZag: Neighbor Discovery with Directional Antennas. , 2015, , .		9
267	Cellular Interference Alignment: Omni-Directional Antennas and Asymmetric Configurations. IEEE Transactions on Information Theory, 2015, 61, 6663-6679.	1.5	9
268	Signal recovery from unlabeled samples. , 2017, , .		9
269	On-the-Fly Large-Scale Channel-Gain Estimation for Massive Antenna-Array Base Stations. , 2018, , .		9
270	Gaussian 1-2-1 Networks: Capacity Results for mmWave Communications. , 2018, , .		9



#	ARTICLE	IF	CITATIONS
271	On the Optimality of Treating Inter-Cell Interference as Noise: Downlink Cellular Networks and Uplink-Downlink Duality. IEEE Transactions on Information Theory, 2020, 66, 6939-6961.	1.5	9
272	A Novel Transformation Approach of Shared-link Coded Caching Schemes for Multiaccess Networks. , 2021, , .		9
273	A new symbol timing and carrier frequency offset estimation algorithm for noncoherent orthogonal M-CPFSK. IEEE Transactions on Communications, 1997, 45, 1314-1326.	4.9	8
274	Hard fairness versus proportional fairness in wireless communications: The Multiple-Cell Case. , 2008, , .		8
275	MIMO downlink scheduling with non-perfect channel state knowledge. , 2009, , .		8
276	Two Birds and One Stone: Gaussian Interference Channel With a Shared Out-of-Band Relay of Limited Rate. IEEE Transactions on Information Theory, 2013, 59, 4192-4212.	1.5	8
277	On the achievable rates of FDD massive MIMO systems with spatial channel correlation. , 2014, , .		8
278	Finite-blocklength channel coding rate under a long-term power constraint. , 2014, , .		8
279	Order-Optimal Decentralized Coded Caching Schemes with Good Performance in Finite File Size Regime. , 2016, , .		8
280	UAV-to-Ground Multi-Hop Communication Using Backpressure and FlashLinQ-Based Algorithms. , 2018, , .		8
281	Flight: A Flexible Light Communications network architecture for indoor environments. , 2019, , .		8
282	The Impact of Subspace-Based Pilot Decontamination in User-Centric Scalable Cell-Free Wireless Networks. , 2021, , .		8
283	Adaptive Beam Tracking based on Recurrent Neural Networks for mmWave Channels. , 2021, , .		8
284	On the Optimal Memory-Load Tradeoff of Coded Caching for Location-Based Content. IEEE Transactions on Communications, 2022, 70, 3047-3062.	4.9	8
285	Impact of channel-state information on coded transmission over fading channels with diversity reception. IEEE Transactions on Communications, 1999, 47, 1284-1287.	4.9	7
286	Bit-interleaved coded modulation revisited: A mismatched decoding perspective. , 2008, , .		7
287	A Linear Encoding Approach to Index Assignment in Lossy Source-Channel Coding. IEEE Transactions on Information Theory, 2010, 56, 1322-1344.	1.5	7
288	Lossy Multicasting Over Binary Symmetric Broadcast Channels. IEEE Transactions on Signal Processing, 2011, 59, 3915-3929.	3.2	7

#	ARTICLE	IF	CITATIONS
289	Antenna and user selection for a cloud base station with (Reverse) Compute and Forward. , 2012, , .		7
290	A new outer bound on the capacity region of Gaussian interference channels. , 2012, , .		7
291	Structured Lattice Codes for Some Two-User Gaussian Networks With Cognition, Coordination, and Two Hops. IEEE Transactions on Information Theory, 2015, 61, 2624-2646.	1.5	7
292	An unconventional clustering problem: User Service Profile Optimization. , 2016, , .		7
293	On the Fundamental Limits of MIMO Massive Multiple Access Channels. , 2019, , .		7
294	On the Tradeoff Between Computation and Communication Costs for Distributed Linearly Separable Computation. IEEE Transactions on Communications, 2021, 69, 7390-7405.	4.9	7
295	Adaptive Two-Sided Beam Alignment in mmWave via Posterior Matching. , 2021, , .		7
296	FDLA: A Novel Frequency Diversity and Link Aggregation Solution for Handover in an Indoor Vehicular VLC Network. IEEE Transactions on Network and Service Management, 2021, 18, 3556-3566.	3.2	7
297	On the Fundamental Limits of Cache-Aided Multiuser Private Information Retrieval. IEEE Transactions on Communications, 2021, 69, 5828-5842.	4.9	7
298	Distributed Linearly Separable Computation. IEEE Transactions on Information Theory, 2022, 68, 1259-1278.	1.5	7
299	Power spectrum of block-coded modulation. IEEE Transactions on Communications, 1994, 42, 1580-1585.	4.9	6
300	A Practical Approach for Weighted Rate Sum Maximization in MIMO-OFDM Broadcast Channels. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	6
301	Distortion Exponents over Fading MIMO Channels with Quantized Feedback. , 2007, , .		6
302	Achievable Throughput of MIMO Downlink Beamforming with Limited Channel Information. , 2007, , .		6
303	Transmission of correlated sources over Gaussian multiple-access channels with phase shifts. , 2008, , .		6
304	Joint source-channel coding at the application layer for parallel Gaussian sources. , 2009, , .		6
305	Optimized training and feedback for MIMO downlink channels. , 2009, , .		6
306	Two-unicast two-hop interference network: Finite-field model. , 2013, , .		6

#	ARTICLE	IF	CITATIONS
307	Information theoretic upper bound on the capacity of wireless backhaul networks. , 2014, , .		6
308	On the optimality of treating interference as noise: A combinatorial optimization perspective. , 2015, , .		6
309	Rate and delay for coded caching with carrier aggregation. , 2016, , .		6
310	Data-Aided Secure Massive MIMO Transmission with Active Eavesdropping. , 2018, , .		6
311	Polynomial-time Capacity Calculation and Scheduling for Half-Duplex 1-2-1 Networks. , 2019, , .		6
312	On Coded Caching with Correlated Files. , 2019, , .		6
313	Randomized Channel Sparsifying Hybrid Precoding for FDD Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2020, 19, 5447-5460.	6.1	6
314	Coding for the Wireless Channel. , 2002, , 61-80.		5
315	Hard Fairness versus Proportional Fairness in Wireless Communications: the Single-Cell Case. , 2006, , .		5
316	Combined Error Protection and Compression with Turbo Codes for Image Transmission using a JPEG2000-Like Architecture. , 2006, , .		5
317	On Outage Analysis and Code Design for Correlated MIMO Fading Channels. , 2007, , .		5
318	Joint source-channel coding for deep space image transmission using rateless codes. , 2011, , .		5
319	A nonlinear approach to interference alignment. , 2011, , .		5
320	A repair framework for scalar MDS codes. , 2012, , .		5
321	Spatial blanking and inter-tier coordination in massive-MIMO heterogeneous cellular networks. , 2014, , .		5
322	Propagation of Multipath Components at an Urban Intersection. , 2015, , .		5
323	Multi-stage beamforming for interference coordination in massive MIMO networks. , 2015, , .		5
324	A hierarchical rate splitting strategy for FDD massive MIMO under imperfect CSIT. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
325	Multihop virtual full-duplex relay channels. , 2015, , .		5
326	On the capacity of multihop device-to-device caching networks. , 2015, , .		5
327	Capacity and degree-of-freedom of OFDM channels with amplitude constraint. , 2016, , .		5
328	Fog Massive MIMO with On-the-Fly Pilot Contamination Control. , 2018, , .		5
329	FDD Massive MIMO: Efficient Downlink Probing and Uplink Feedback via Active Channel Sparsification. , 2018, , .		5
330	Efficient Algorithms for Coded Multicasting in Heterogeneous Caching Networks. Entropy, 2019, 21, 324.	1.1	5
331	On the Achievable Rates of Virtual Full-Duplex Relay Channel. IEEE Transactions on Information Theory, 2019, 65, 354-367.	1.5	5
332	Fundamental Limits of Wireless Caching Under Mixed Cacheable and Uncacheable Traffic. , 2020, , .		5
333	An Achievable Region for the Multiple Access Wiretap Channels with Confidential and Open Messages. , 2020, , .		5
334	Information Bottleneck for a Rayleigh Fading MIMO Channel with an Oblivious Relay. Information (Switzerland), 2021, 12, 155.	1.7	5
335	On the Fundamental Limits of Fog-RAN Cache-Aided Networks With Downlink and Sidelink Communications. IEEE Transactions on Information Theory, 2021, 67, 2353-2378.	1.5	5
336	Plug-And-Play Learned Gaussian-mixture Approximate Message Passing. , 2021, , .		5
337	Coded Caching Over Multicast Routing Networks. IEEE Transactions on Communications, 2021, 69, 3614-3627.	4.9	5
338	Design of Robust LoS MIMO Systems with UCAs. , 2021, , .		5
339	Achievable Regions and Precoder Designs for the Multiple Access Wiretap Channels With Confidential and Open Messages. IEEE Journal on Selected Areas in Communications, 2022, 40, 1407-1427.	9.7	5
340	On Secure Distributed Linearly Separable Computation. IEEE Journal on Selected Areas in Communications, 2022, 40, 912-926.	9.7	5
341	Cache-Aided Matrix Multiplication Retrieval. IEEE Transactions on Information Theory, 2022, 68, 4301-4319.	1.5	5
342	LocUNet: Fast Urban Positioning Using Radio Maps and Deep Learning. , 2022, , .		5

#	ARTICLE	IF	CITATIONS
343	On the Potential of Spatially-Spread Orthogonal Time Frequency Space Modulation for ISAC Transmissions. , 2022, , .		5
344	Symmetry properties of multilevel coded modulation. IEEE Transactions on Information Theory, 1994, 40, 1630-1632.	1.5	4
345	Weight distribution and performance of the iterated product of single-parity-check codes. Annales Des Telecommunications/Annals of Telecommunications, 1995, 50, 752-761.	1.6	4
346	Initial synchronization of DS-CDMA via bursty pilot signals. IEEE Transactions on Communications, 2002, 50, 677-685.	4.9	4
347	Coding and decoding for the Dynamic Decode and Forward relay protocol. , 2008, , .		4
348	Intersymbol interference with flat fading: Channel capacity. , 2008, , .		4
349	Channel State Feedback Over the MIMO-MAC. IEEE Transactions on Information Theory, 2011, 57, 7787-7797.	1.5	4
350	Analog index coding over block-fading MISO broadcast channels with feedback. , 2013, , .		4
351	Broadcast approach for the sparse-input random-sampled MIMO Gaussian channel. , 2014, , .		4
352	Propagation Channel in a Rural Overtaking Scenario with Large Obstructing Vehicles. , 2016, , .		4
353	Topological interference management with decoded message passing. , 2016, , .		4
354	Privacy-constrained remote source coding. , 2016, , .		4
355	Capacity Analysis of Interlaced Clustering in a Distributed Transmission System With/Without CSIT. IEEE Transactions on Wireless Communications, 2016, 15, 2629-2641.	6.1	4
356	Low-complexity massive MIMO subspace tracking from low-dimensional projections. , 2017, , .		4
357	Information Bottleneck for an Oblivious Relay with Channel State Information: the Scalar Case. , 2018, , .		4
358	Sparse Non-Negative Recovery from Shifted Symmetric Subgaussian Measurements using NNLS. , 2019, , .		4
359	Bridging the Gap between Multiplexing and Diversity in Finite SNR Multiple Antenna Coded Caching. , 2019, , .		4
360	Uplink-Downlink Channel Covariance Transformations and Precoding Design for FDD Massive MIMO. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
361	A Novel Cache-aided Fog-RAN Architecture. , 2019, , .		4
362	Novel Converse for Device-to-Device Demand-Private Caching with a Trusted Server. , 2020, , .		4
363	Cooperative Wireless Mobile Caching: A Signal Processing Perspective. IEEE Signal Processing Magazine, 2020, 37, 18-38.	4.6	4
364	Fundamental Limits of Wireless Caching Under Mixed Cacheable and Uncacheable Traffic. IEEE Transactions on Information Theory, 2021, 67, 4747-4767.	1.5	4
365	Measurement-based geometrical characterisation of the vehicle-to-vulnerable-road-user communication channel. IET Microwaves, Antennas and Propagation, 2020, 14, 1700-1710.	0.7	4
366	Beam Refinement and User State Acquisition via Integrated Sensing and Communication with OFDM. , 2021, , .		4
367	WiFi-Based Channel Impulse Response Estimation and Localization via Multi-Band Splicing. , 2020, , .		4
368	Beam-Space MIMO Radar with OTFS Modulation for Integrated Sensing and Communications. , 2022, , .		4
369	A study for interactive TV via satellite. European Transactions on Telecommunications, 1996, 7, 335-347.	1.2	3
370	Low-Complexity Turbo Equalization and Multiuser Decoding for TD-CDMA. IEEE Transactions on Wireless Communications, 2004, 3, 454-465.	6.1	3
371	Effective beamforming and efficient scheduling for multi-user MIMO broadcast channels. , 2009, , .		3
372	Coarse Network Coding: A Simple Relay Strategy to Resolve Interference. , 2010, , .		3
373	Is Unequal Error Protection useful?. , 2011, , .		3
374	CSI dissemination for MU-MIMO schemes based on outdated CSI. , 2012, , .		3
375	Wireless downloading delay under proportional fair scheduling with coupled service and requests: An approximated analysis. , 2012, , .		3
376	Optimal binary measurement matrices for compressed sensing. , 2013, , .		3
377	Structured lattice codes for $2 \times 2$ MIMO interference channel. , 2013, , .		3
378	Optimal measurement matrices for neighbor discovery. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
379	Capacity analysis of interlaced clustering in a distributed antenna system. , 2015, , .		3
380	Cooperation alignment for distributed interference management. , 2015, , .		3
381	Synchronization signal design and hierarchical detection for the D2D sidelink. , 2017, , .		3
382	Multihop Routing in Hybrid Vehicle-to-Vehicle and Vehicle-to-Infrastructure Networks. , 2018, , .		3
383	Guest Editorial Caching for Communication Systems and Networksâ€™Part II. IEEE Journal on Selected Areas in Communications, 2018, 36, 1663-1665.	9.7	3
384	Spatially Scalable Lossy Coded Caching. , 2018, , .		3
385	How to Achieve Massive MIMO Gains in FDD Systems?. , 2018, , .		3
386	Gaussian 1-2-1 Networks with Imperfect Beamforming. , 2020, , .		3
387	Device-to-Device Private Caching with Trusted Server. , 2020, , .		3
388	A Flexible Transport Layer Protocol Architecture for Handover in a Vehicular VLC Network. , 2020, , .		3
389	Dual-Polarized FDD Massive MIMO: A Comprehensive Framework. IEEE Transactions on Wireless Communications, 2022, 21, 840-854.	6.1	3
390	Gaussian 1-2-1 Networks: Capacity Results for mmWave Communications. IEEE Transactions on Information Theory, 2021, 67, 961-990.	1.5	3
391	Cellular Networks With Finite Precision CSIT: GDoF Optimality of Multi-Cell TIN and Extremal Gains of Multi-Cell Cooperation. IEEE Transactions on Information Theory, 2021, 67, 6525-6547.	1.5	3
392	Cache-Aided General Linear Function Retrieval. Entropy, 2021, 23, 25.	1.1	3
393	Deep Learning for Geometrically-Consistent Angular Power Spread Function Estimation in Massive MIMO. , 2020, , .		3
394	Cellular Traffic Offloading with Optimized Compound Single-point Unicast and Cache-based Multipoint Multicast. , 2022, , .		3
395	Co-Channel Interference in Cellular Mobile Radio Systems with Coded PSK and Diversity. Wireless Personal Communications, 1998, 6, 39-68.	1.8	2
396	Structured Lattice Space-Time Trellis Coded Modulation. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
397	New directions in information theory. European Transactions on Telecommunications, 2008, 19, 329-332.	1.2	2
398	Feedback schemes for multiuser MIMO-OFDM downlink. , 2008, , .		2
399	Multicasting of digital images over erasure broadcast channels using rateless codes. , 2009, , .		2
400	Distribution of MIMO mutual information: A large deviations approach. , 2009, , .		2
401	Special issue on heterogeneous networks. Journal of Communications and Networks, 2011, 13, 301-305.	1.8	2
402	Block triangularization: A new linear precoding strategy for Gaussian MIMO BC. , 2011, , .		2
403	Coarse Network Coding: A Simple Relay Strategy for Two-User Gaussian Interference Channels. IEEE Transactions on Information Theory, 2012, 58, 6515-6523.	1.5	2
404	Flexible duplex for cognitive femtocells in two-tier networks. , 2012, , .		2
405	Feedback interference alignment: Exact alignment for three users in two time slots. , 2013, , .		2
406	Index coding problem with side information repositories. , 2013, , .		2
407	ZigZag neighbor discovery in wireless networks. , 2014, , .		2
408	Optimal tradeoff of secure PUF-based authentication. , 2015, , .		2
409	Pilot decontamination through compressive wideband channel estimation. , 2016, , .		2
410	Delay Performance of the Multiuser MISO Downlink. , 2018, , .		2
411	An Efficient CS-Based and Statistically Robust Beam Alignment Scheme for mmWave Systems. , 2018, , .		2
412	Queue-Aware Beam Scheduling for Half-Duplex mmWave Relay Networks. , 2020, , .		2
413	Cache-Aided Scalar Linear Function Retrieval. , 2020, , .		2
414	Optimality of Treating Inter-Cell Interference as Noise Under Finite Precision CSIT. , 2020, , .		2



#	ARTICLE	IF	CITATIONS
415	Coded Caching under Asynchronous Demands. , 2021, , .		2
416	Efficient Beam Scheduling for Half-Duplex mmWave Relay Networks. IEEE Transactions on Communications, 2021, 69, 5773-5789.	4.9	2
417	Coding and Modulation for the Fading Channel. , 1997, , 21-39.		2
418	Cache-Aided Modulation for Heterogeneous Coded Caching over a Gaussian Broadcast Channel. , 2020, , .		2
419	Reconfigurable Propagation Environment for Enhancing Vulnerable Road Users' Visibility to Automotive Radar. , 2021, , .		2
420	Analyzing Interface Bonding Schemes for VLC with Mobility and Shadowing. , 2020, , .		2
421	Orthogonal Multipoint Multicast Caching in OFDM Cellular Networks with ICI and IBI. , 2021, , .		2
422	On the Fundamental Limits of Device-to-Device Private Caching Under Uncoded Cache Placement and User Collusion. IEEE Transactions on Information Theory, 2022, 68, 5701-5729.	1.5	2
423	Multidimensional Coded Modulation in Block-Fading Channels. , 2007, , .		1
424	Bit-Interleaved Coded Modulation in the Wideband Regime. , 2007, , .		1
425	On the Outage Exponent of Fading Relay Channels with Partial Channel State Information. , 2007, , .		1
426	Joint Source-Channel Coding: a Practical Approach and an implementation Example. , 2007, , .		1
427	Channel state feedback over the MIMO-MAC. , 2009, , .		1
428	The capacity of the frequency/time-selective fading channel. , 2010, , .		1
429	Demystifying the scaling laws of dense wireless networks: No linear scaling in practice. , 2014, , .		1
430	On the throughput rate of wireless multipoint multicasting. , 2016, , .		1
431	Private authentication with controllable measurement. , 2016, , .		1
432	Secret key generation through a relay. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
433	Massive MIMO Scheduling Protocols. , 0, , 335-357.		1
434	Analysis of Broadcast Signaling for Millimeter Wave Cell Discovery. , 2017, , .		1
435	Guest Editorial Physical Layer Security for 5G Wireless Networks, Part II. IEEE Journal on Selected Areas in Communications, 2018, 36, 1363-1366.	9.7	1
436	Guest Editorial Physical Layer Security for 5G Wireless Networks, Part I. IEEE Journal on Selected Areas in Communications, 2018, 36, 675-678.	9.7	1
437	Coded Caching with Small Subpacketization via Spatial Reuse and Content Base Replication. , 2019, , .		1
438	On Achievable Rate of OFDM and OTFS in the Presence of Sparsity. , 2021, , .		1
439	Secure Distributed Linearly Separable Computation. , 2021, , .		1
440	Information Bottleneck for an Oblivious Relay with Channel State Information: the Vector Case. , 2021, , .		1
441	Joint Approximate Covariance Diagonalization with Applications in MIMO Virtual Beam Design. , 2020, , .		1
442	Bringing hybrid analog-digital beamforming to commercial MU-MIMO wifi networks. , 2020, , .		1
443	Topological Pilot Assignment in Cell-Free Massive MIMO Networks. , 2021, , .		1
444	DNN-Assisted Particle-Based Bayesian Joint Synchronization and Localization. IEEE Transactions on Communications, 2022, 70, 4837-4851.	4.9	1
445	Sub-TeraHertz Modular Array Layout Optimization Under Fabrication Constraints. , 2022, , .		1
446	An open software-radio architecture supporting advanced 3G+ systems. Annales Des Telecommunications/Annals of Telecommunications, 2001, 56, 332-343.	1.6	0
447	New directions in information theory. European Transactions on Telecommunications, 2006, 17, 702-702.	1.2	0
448	CTH04-4: Capacity Bounds for Training-Based UWB Systems. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0
449	Transmit/receive filter optimization for doubly-selective underwater acoustic channels. , 2008, , .		0
450	Network-MIMO cellular systems: Large-system analysis and low-overhead downlink scheduling. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
451	Generalized degrees of freedom for network-coded cognitive interference channel. , 2013, , .		0
452	Physical layer techniques for cognitive femtocells. , 0, , 125-160.		0
453	Capacity scaling of wireless device-to-device caching networks under the physical model. , 2017, , .		0
454	Compressive estimation of a stochastic process with unknown autocorrelation function. , 2017, , .		0
455	Topological interference management with decoded message passing: A polyhedral approach. , 2017, , .		0
456	Uplink Oblivious Cloud Radio Access Networks: An Information Theoretic Overview. , 2018, , .		0
457	On D2D Caching with Uncoded Cache Placement. , 2019, , .		0
458	Routing-Based Delivery in Combination-Type Networks with Random Topology. , 2019, , .		0
459	Diffuse Multipath Analysis of Vehicle-to-Vulnerable Road User Channel in Urban Environment. , 2021, , .		0
460	On the Optimality of Treating Interference as Noise: General Message Sets Revisited. , 2021, , .		0
461	Making Vulnerable Road Users More Visible to Radar: A Communications Inspired Approach. , 2021, , .		0
462	Cache-Aided Matrix Multiplication Retrieval. , 2021, , .		0
463	The long-term average capacity region per unit cost with application to protocols for sensor networks. European Transactions on Telecommunications, 2003, 14, 3-14.	1.2	0
464	Millimeter Wave Beam Alignment with Symbol Based Beam Switching for Wideband Time-varying Channels. , 2021, , .		0