

Shlomo Shamai Shitz

List of Publications by Year in descending order

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499
papers

13,554
citations

50276

46
h-index

31849

101
g-index

502
all docs

502
docs citations

502
times ranked

5425
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Cell MIMO Cooperative Networks: A New Look at Interference. IEEE Journal on Selected Areas in Communications, 2010, 28, 1380-1408.	14.0	1,394
2	Secure Communication Over Fading Channels. IEEE Transactions on Information Theory, 2008, 54, 2470-2492.	2.4	800
3	Degrees of Freedom Region of the MIMO \times Channel. IEEE Transactions on Information Theory, 2008, 54, 151-170.	2.4	630
4	Zero-Forcing Precoding and Generalized Inverses. IEEE Transactions on Signal Processing, 2008, 56, 4409-4418.	5.3	470
5	Information Theoretic Security. Foundations and Trends in Communications and Information Theory, 2007, 5, 355-580.	3.1	458
6	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. IEEE Open Journal of the Communications Society, 2020, 1, 798-807.	6.9	445
7	A Note on the Secrecy Capacity of the Multiple-Antenna Wiretap Channel. IEEE Transactions on Information Theory, 2009, 55, 2547-2553.	2.4	405
8	Joint Precoding and Multivariate Backhaul Compression for the Downlink of Cloud Radio Access Networks. IEEE Transactions on Signal Processing, 2013, 61, 5646-5658.	5.3	270
9	Sum Rate Characterization of Joint Multiple Cell-Site Processing. IEEE Transactions on Information Theory, 2007, 53, 4473-4497.	2.4	230
10	Compound Wiretap Channels. Eurasip Journal on Wireless Communications and Networking, 2009, .	2.4	222
11	Estimation in Gaussian Noise: Properties of the Minimum Mean-Square Error. IEEE Transactions on Information Theory, 2011, 57, 2371-2385.	2.4	186
12	Fronthaul Compression for Cloud Radio Access Networks: Signal processing advances inspired by network information theory. IEEE Signal Processing Magazine, 2014, 31, 69-79.	5.6	181
13	Joint Optimization of Cloud and Edge Processing for Fog Radio Access Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7621-7632.	9.2	172
14	Uplink Macro Diversity of Limited Backhaul Cellular Network. IEEE Transactions on Information Theory, 2009, 55, 3457-3478.	2.4	163
15	Multiple-Input Multiple-Output Gaussian Broadcast Channels With Confidential Messages. IEEE Transactions on Information Theory, 2010, 56, 4215-4227.	2.4	160
16	Capacity of Cognitive Interference Channels With and Without Secrecy. IEEE Transactions on Information Theory, 2009, 55, 604-619.	2.4	143
17	Retrospective Interference Alignment Over Interference Networks. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 228-240.	10.8	132
18	Communication Via Decentralized Processing. IEEE Transactions on Information Theory, 2008, 54, 3008-3023.	2.4	124

#	ARTICLE	IF	CITATIONS
19	Cooperative Multicell Zero-Forcing Beamforming in Cellular Downlink Channels. IEEE Transactions on Information Theory, 2009, 55, 3206-3219.	2.4	123
20	Local Base Station Cooperation Via Finite-Capacity Links for the Uplink of Linear Cellular Networks. IEEE Transactions on Information Theory, 2009, 55, 190-204.	2.4	122
21	Noncoherent Capacity of Underspread Fading Channels. IEEE Transactions on Information Theory, 2010, 56, 367-395.	2.4	122
22	Interference Alignment on the Deterministic Channel and Application to Fully Connected Gaussian Interference Networks. IEEE Transactions on Information Theory, 2009, 55, 269-274.	2.4	120
23	On Degrees of Freedom Region of MIMO Networks Without Channel State Information at Transmitters. IEEE Transactions on Information Theory, 2012, 58, 849-857.	2.4	118
24	Robust Layered Transmission and Compression for Distributed Uplink Reception in Cloud Radio Access Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 204-216.	6.3	117
25	On the Synergistic Benefits of Alternating CSIT for the MISO Broadcast Channel. IEEE Transactions on Information Theory, 2013, 59, 4106-4128.	2.4	115
26	Performance Analysis of Linear Codes under Maximum-Likelihood Decoding: A Tutorial. Foundations and Trends in Communications and Information Theory, 2006, 3, 1-222.	3.1	103
27	Cooperative Multiple-Access Encoding With States Available at One Transmitter. IEEE Transactions on Information Theory, 2008, 54, 4448-4469.	2.4	101
28	On the capacity of cognitive relay assisted Gaussian interference channel. , 2008, , .		101
29	Support Recovery With Sparsely Sampled Free Random Matrices. IEEE Transactions on Information Theory, 2013, 59, 4243-4271.	2.4	101
30	On the capacity of interference channels with one cooperating transmitter. European Transactions on Telecommunications, 2008, 19, 405-420.	1.2	100
31	Capacity for Classes of Broadcast Channels with Receiver Side Information. , 2007, , .		98
32	Capacity of Channels With Frequency-Selective and Time-Selective Fading. IEEE Transactions on Information Theory, 2010, 56, 1187-1215.	2.4	95
33	An MMSE Approach to the Secrecy Capacity of the MIMO Gaussian Wiretap Channel. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	2.4	87
34	The Capacity Region of the Degraded Multiple-Input Multiple-Output Compound Broadcast Channel. IEEE Transactions on Information Theory, 2009, 55, 5011-5023.	2.4	82
35	Mutual Information and Conditional Mean Estimation in Poisson Channels. IEEE Transactions on Information Theory, 2008, 54, 1837-1849.	2.4	81
36	A layered lattice coding scheme for a class of three user Gaussian interference channels. , 2008, , .		77

#	ARTICLE	IF	CITATIONS
37	An MMSE approach to the secrecy capacity of the MIMO Gaussian wiretap channel. , 2009, , .		67
38	Successive Refinement Via Broadcast: Optimizing Expected Distortion of a Gaussian Source Over a Gaussian Fading Channel. IEEE Transactions on Information Theory, 2008, 54, 2903-2918.	2.4	66
39	A Vector Generalization of Costa's Entropy-Power Inequality With Applications. IEEE Transactions on Information Theory, 2010, 56, 1865-1879.	2.4	64
40	Secrecy-achieving polar-coding. , 2010, , .		63
41	Secrecy Degrees of Freedom of MIMO Broadcast Channels With Delayed CSIT. IEEE Transactions on Information Theory, 2013, 59, 5244-5256.	2.4	62
42	New Results on Multiple-Input Multiple-Output Broadcast Channels With Confidential Messages. IEEE Transactions on Information Theory, 2013, 59, 1346-1359.	2.4	59
43	Compound Multiple-Access Channels With Partial Cooperation. IEEE Transactions on Information Theory, 2009, 55, 2425-2441.	2.4	56
44	On the Information Bottleneck Problems: Models, Connections, Applications and Information Theoretic Views. Entropy, 2020, 22, 151.	2.2	55
45	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
46	Information Rates Subject to State Masking. IEEE Transactions on Information Theory, 2007, 53, 2254-2261.	2.4	54
47	On the Capacity Region of the Multi-Antenna Broadcast Channel with Common Messages. , 2006, , .		53
48	Variable-Rate Channel Capacity. IEEE Transactions on Information Theory, 2010, 56, 2651-2667.	2.4	52
49	Joint Decompression and Decoding for Cloud Radio Access Networks. IEEE Signal Processing Letters, 2013, 20, 503-506.	3.6	52
50	Stochastic Geometric Models for Green Networking. IEEE Access, 2015, 3, 2465-2474.	4.2	51
51	Full-Duplex Cloud Radio Access Networks: An Information-Theoretic Viewpoint. IEEE Wireless Communications Letters, 2014, 3, 413-416.	5.0	49
52	Discrete-Input Two-Dimensional Gaussian Channels With Memory: Estimation and Information Rates Via Graphical Models and Statistical Mechanics. IEEE Transactions on Information Theory, 2008, 54, 1500-1513.	2.4	48
53	Uplink Macro Diversity with Limited Backhaul Capacity. , 2007, , .		47
54	Distributed MIMO Receiverâ€™s Achievable Rates and Upper Bounds. IEEE Transactions on Information Theory, 2009, 55, 4419-4438.	2.4	47

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55	Joint Signal and Channel State Information Compression for the Backhaul of Uplink Network MIMO Systems. IEEE Transactions on Wireless Communications, 2014, 13, 1555-1567.	9.2	47
56	Joint optimization of cloud and edge processing for fog radio access networks. , 2016, , .		44
57	Fronthaul Compression and Precoding Design for C-RANs Over Ergodic Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 5022-5032.	6.3	41
58	Rate Splitting for Multi-Antenna Downlink: Precoder Design and Practical Implementation. IEEE Journal on Selected Areas in Communications, 2020, 38, 1910-1924.	14.0	41
59	Statistical Physics of Signal Estimation in Gaussian Noise: Theory and Examples of Phase Transitions. IEEE Transactions on Information Theory, 2010, 56, 1400-1416.	2.4	40
60	Degrees of Freedom Region of the MIMO Interference Channel With Output Feedback and Delayed CSIT. IEEE Transactions on Information Theory, 2013, 59, 1444-1457.	2.4	40
61	Interference alignment on the deterministic channel and application to fully connected AWGN interference networks. , 2008, , .		39
62	Optimality and Approximate Optimality of Source-Channel Separation in Networks. IEEE Transactions on Information Theory, 2014, 60, 904-918.	2.4	39
63	Estimation of non-Gaussian random variables in Gaussian noise: Properties of the MMSE. , 2008, , .		38
64	Structured superposition for backhaul constrained cellular uplink. , 2009, , .		38
65	MIMO Gaussian broadcast channels with confidential and common messages. , 2010, , .		37
66	Secure Degrees of Freedom of MIMO X-Channels With Output Feedback and Delayed CSIT. IEEE Transactions on Information Forensics and Security, 2013, 8, 1760-1774.	6.9	37
67	Secured Communication over Frequency-Selective Fading Channels: A Practical Vandermonde Precoding. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, , .	2.4	36
68	A single-letter characterization of optimal noisy compressed sensing. , 2009, , .		35
69	Optimization of the MIMO Compound Capacity. IEEE Transactions on Wireless Communications, 2007, 6, 1094-1101.	9.2	34
70	Spectral Efficiency of Joint Multiple Cell-Site Processors for Randomly Spread DS-CDMA Systems. IEEE Transactions on Information Theory, 2007, 53, 2625-2637.	2.4	34
71	A Broadcast Approach for Fading Wiretap Channels. IEEE Transactions on Information Theory, 2014, 60, 842-858.	2.4	34
72	Degrees of freedom of the interference channel: A general formula. , 2011, , .		33

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73	Inter-Cluster Design of Precoding and Fronthaul Compression for Cloud Radio Access Networks. IEEE Wireless Communications Letters, 2014, 3, 369-372.	5.0	33
74	On the Capacity of Cloud Radio Access Networks With Oblivious Relaying. IEEE Transactions on Information Theory, 2019, 65, 4575-4596.	2.4	33
75	Proof of Entropy Power Inequalities Via MMSE. , 2006, , .		32
76	The Capacity Region of the Degraded MIMO Compound Broadcast Channel. , 2007, , .		32
77	A Linear Interference Network with Local Side-Information. , 2007, , .		32
78	On the compound MIMO broadcast channels with confidential messages. , 2009, , .		32
79	Comparison of the Achievable Rates in OFDM and Single Carrier Modulation with I.I.D. Inputs. IEEE Transactions on Information Theory, 2015, 61, 1795-1818.	2.4	32
80	Beyond Max-SNR: Joint Encoding for Reconfigurable Intelligent Surfaces. , 2020, , .		32
81	On turbo encoded Bicm. Annales Des Telecommunications/Annals of Telecommunications, 1999, 54, 225-234.	2.5	31
82	Broadcast Cooperation Strategies for Two Colocated Users. IEEE Transactions on Information Theory, 2007, 53, 3394-3412.	2.4	31
83	Bounds on the Capacity of the Relay Channel With Noncausal State at the Source. IEEE Transactions on Information Theory, 2013, 59, 2639-2672.	2.4	31
84	Cellular Systems with Full-Duplex Amplify-and-Forward Relaying and Cooperative Base-Stations. , 2007, , .		30
85	Analytical properties of generalized Gaussian distributions. Journal of Statistical Distributions and Applications, 2018, 5, .	1.2	30
86	On Codebook Information for Interference Relay Channels With Out-of-Band Relaying. IEEE Transactions on Information Theory, 2011, 57, 2880-2888.	2.4	29
87	Retrospective interference alignment. , 2011, , .		29
88	An Information Theoretic Approach to Secret Sharing. IEEE Transactions on Information Theory, 2015, 61, 3121-3136.	2.4	29
89	Multi-layer broadcasting hybrid-ARQ strategies for block fading channels. IEEE Transactions on Wireless Communications, 2008, 7, 2640-2650.	9.2	27
90	Physical layer security in broadcast networks. Security and Communication Networks, 2009, 2, 227-238.	1.5	27

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91	Multiple Multicasts With the Help of a Relay. IEEE Transactions on Information Theory, 2010, 56, 6142-6158.	2.4	27
92	On the Capacity of Interference Channels with a Partially-Cognitive Transmitter. , 2007, , .		26
93	Cognitive interference channels with state information. , 2008, , .		26
94	On MMSE Crossing Properties and Implications in Parallel Vector Gaussian Channels. IEEE Transactions on Information Theory, 2013, 59, 818-844.	2.4	26
95	Information Dimension and the Degrees of Freedom of the Interference Channel. IEEE Transactions on Information Theory, 2015, 61, 256-279.	2.4	26
96	The Gaussian Erasure Channel. , 2007, , .		25
97	Distributed MIMO in multi-cell wireless systems via finite-capacity links. , 2008, , .		25
98	Performance Bounds for Erasure, List, and Decision Feedback Schemes With Linear Block Codes. IEEE Transactions on Information Theory, 2010, 56, 3754-3778.	2.4	25
99	Robust Communication via Decentralized Processing With Unreliable Backhaul Links. IEEE Transactions on Information Theory, 2011, 57, 4187-4201.	2.4	25
100	Joint cloud and edge processing for latency minimization in Fog Radio Access Networks. , 2016, , .		25
101	Multihop Backhaul Compression for the Uplink of Cloud Radio Access Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 3185-3199.	6.3	25
102	Secrecy Capacity Region of Fading Broadcast Channels. , 2007, , .		24
103	Performance Bounds for Nonbinary Linear Block Codes Over Memoryless Symmetric Channels. IEEE Transactions on Information Theory, 2009, 55, 977-996.	2.4	24
104	On fading broadcast channels with partial channel state information at the transmitter. , 2012, , .		24
105	Secret Writing on Dirty Paper: A Deterministic View. IEEE Transactions on Information Theory, 2012, 58, 3419-3429.	2.4	24
106	The Capacity Achieving Distribution for the Amplitude Constrained Additive Gaussian Channel: An Upper Bound on the Number of Mass Points. IEEE Transactions on Information Theory, 2020, 66, 2006-2022.	2.4	24
107	Clustered Local Decoding for Wyner-Type Cellular Models. IEEE Transactions on Information Theory, 2009, 55, 4967-4985.	2.4	23
108	Low-density code-domain NOMA: Better be regular. , 2017, , .		23

#	ARTICLE	IF	CITATIONS
109	Upper and Lower Bounds on the Capacity of Amplitude-Constrained MIMO Channels. , 2017, , .		23
110	Joint Design of Fronthauling and Hybrid Beamforming for Downlink C-RAN Systems. IEEE Transactions on Communications, 2019, 67, 4423-4434.	7.8	23
111	On the Capacity of Interference Channels with a Cognitive Transmitter. , 2007, , .		22
112	Fountain Capacity. IEEE Transactions on Information Theory, 2007, 53, 4372-4376.	2.4	22
113	Tightened Upper Bounds on the ML Decoding Error Probability of Binary Linear Block Codes. IEEE Transactions on Information Theory, 2007, 53, 1495-1510.	2.4	21
114	Information Theoretic Aspects of Users' Activity in a Wyner-Like Cellular Model. IEEE Transactions on Information Theory, 2010, 56, 2241-2248.	2.4	21
115	Optimality and approximate optimality of source-channel separation in networks. , 2010, , .		21
116	Approximate Characterizations for the Gaussian Source Broadcast Distortion Region. IEEE Transactions on Information Theory, 2011, 57, 124-136.	2.4	21
117	Soft-Decoding-Based Strategies for Relay and Interference Channels: Analysis and Achievable Rates Using LDPC Codes. IEEE Transactions on Information Theory, 2014, 60, 1977-2009.	2.4	21
118	Cooperative Schemes for a Source and an Occasional Nearby Relay in Wireless Networks. IEEE Transactions on Information Theory, 2009, 55, 5138-5160.	2.4	20
119	Throughput Scaling of Wireless Networks With Random Connections. IEEE Transactions on Information Theory, 2010, 56, 3793-3806.	2.4	20
120	Capacity Region of Cooperative Multiple-Access Channel With States. IEEE Transactions on Information Theory, 2013, 59, 6153-6174.	2.4	20
121	On the Capacity Bounds for Poisson Interference Channels. IEEE Transactions on Information Theory, 2015, 61, 223-238.	2.4	20
122	The Wiretap Channel With Generalized Feedback: Secure Communication and Key Generation. IEEE Transactions on Information Theory, 2019, 65, 2213-2233.	2.4	19
123	On the Outage Probability of a Multiple-Input Single-Output Communication Link. IEEE Transactions on Wireless Communications, 2007, 6, 4120-4128.	9.2	18
124	Achievable Rates with Imperfect Transmitter Side Information Using a Broadcast Transmission Strategy. IEEE Transactions on Wireless Communications, 2008, 7, 1043-1051.	9.2	18
125	Rate-limited transmitter-cooperation in Wyner's asymmetric interference network. , 2011, , .		18
126	When are discrete channel inputs optimal? â€” Optimization techniques and some new results. , 2018, , .		18

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127	On the Capacity of the Peak Power Constrained Vector Gaussian Channel: An Estimation Theoretic Perspective. IEEE Transactions on Information Theory, 2019, 65, 3907-3921.	2.4	18
128	Multi-Layer Broadcasting over a Block Fading MIMO Channel. IEEE Transactions on Wireless Communications, 2007, 6, 3937-3945.	9.2	17
129	Bounds and capacity results for the cognitive Z-interference channel. , 2009, , .		17
130	Cellular Systems with Non-Regenerative Relaying and Cooperative Base Stations. IEEE Transactions on Wireless Communications, 2010, 9, 2654-2663.	9.2	17
131	Robust Uplink Communications over Fading Channels with Variable Backhaul Connectivity. IEEE Transactions on Wireless Communications, 2013, 12, 5788-5799.	9.2	17
132	MMSE of $\hat{\mathbf{B}}^{\text{ad}}$ -Codes. IEEE Transactions on Information Theory, 2013, 59, 733-743.	2.4	17
133	Secrecy Capacity of Colored Gaussian Noise Channels With Feedback. IEEE Transactions on Information Theory, 2019, 65, 5771-5782.	2.4	17
134	How Much Can D2D Communication Reduce Content Delivery Latency in Fog Networks With Edge Caching?. IEEE Transactions on Communications, 2020, 68, 2308-2323.	7.8	17
135	Joint multi-cell processing for downlink channels with limited-capacity backhaul. , 2008, , .		16
136	On the impact of limited-capacity backhaul and inter-users links in cooperative multicell networks. , 2008, , .		16
137	A cognitive network with clustered decoding. , 2009, , .		16
138	On Queueing and Multilayer Coding. IEEE Transactions on Information Theory, 2010, 56, 2392-2415.	2.4	16
139	The broadcast approach under mixed delay constraints. , 2012, , .		16
140	On X-channels with feedback and delayed CSI. , 2012, , .		16
141	On multi-user MISO wiretap channels with delayed CSIT. , 2014, , .		16
142	Cognitive Wyner Networks With Clustered Decoding. IEEE Transactions on Information Theory, 2014, 60, 6342-6367.	2.4	16
143	Broadcast Networks With Layered Decoding and Layered Secrecy: Theory and Applications. Proceedings of the IEEE, 2015, 103, 1841-1856.	21.3	16
144	Multivariate Fronthaul Quantization for Downlink C-RAN. IEEE Transactions on Signal Processing, 2016, 64, 5025-5037.	5.3	16

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145	Layered Downlink Precoding for C-RAN Systems With Full Dimensional MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 2170-2182.	6.3	16
146	On the capacity of cloud radio access networks with oblivious relaying. , 2017, , .		16
147	Multi-Tenant C-RAN With Spectrum Pooling: Downlink Optimization Under Privacy Constraints. IEEE Transactions on Vehicular Technology, 2018, 67, 10492-10503.	6.3	16
148	Bounds on the error probability of ml decoding for block and turbo-block codes. Annales Des Telecommunications/Annals of Telecommunications, 1999, 54, 183-200.	2.5	15
149	On Cognitive Interference Networks. , 2007, , .		15
150	Capacity outer bounds for broadcast channels. , 2008, , .		15
151	Polar coding for reliable communications over parallel channels. , 2010, , .		15
152	Secure Transmission of Sources Over Noisy Channels With Side Information at the Receivers. IEEE Transactions on Information Theory, 2014, 60, 713-739.	2.4	15
153	Matched Multiuser Gaussian Source Channel Communications via Uncoded Schemes. IEEE Transactions on Information Theory, 2017, 63, 4155-4171.	2.4	15
154	Optimizing Over-the-Air Computation in IRS-Aided C-RAN Systems. , 2020, , .		15
155	Adaptive Coding and Channel Shaping Through Reconfigurable Intelligent Surfaces: An Information-Theoretic Analysis. IEEE Transactions on Communications, 2021, 69, 7320-7334.	7.8	15
156	Capacity of Underspread WSSUS Fading Channels in the Wideband Regime. , 2006, , .		14
157	Degrees of Freedom of the MIMO X Channel. , 2007, , .		14
158	Approximate characterizations for the Gaussian broadcasting distortion region. , 2009, , .		14
159	Bounds on the capacity of the relay channel with noncausal state information at source. , 2010, , .		14
160	On the Secrecy Degrees of Freedom of the Multiantenna Block Fading Wiretap Channels. IEEE Transactions on Information Forensics and Security, 2011, 6, 703-711.	6.9	14
161	Multiple access channel with states known noncausally at one encoder and only strictly causally at the other encoder. , 2011, , .		14
162	Minimum Expected Distortion in Gaussian Source Coding With Fading Side Information. IEEE Transactions on Information Theory, 2012, 58, 5725-5739.	2.4	14

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163	On Broadcast Channels With Binary Inputs and Symmetric Outputs. IEEE Transactions on Information Theory, 2013, 59, 6980-6989.	2.4	14
164	State-dependent Gaussian Z-channel with mismatched side-information and interference. , 2013, , .		14
165	Capacity Bounds and Exact Results for the Cognitive Z-Interference Channel. IEEE Transactions on Information Theory, 2013, 59, 886-893.	2.4	14
166	Key and Message Semantic-Security Over State-Dependent Channels. IEEE Transactions on Information Forensics and Security, 2020, 15, 1541-1556.	6.9	14
167	Impact of Action-Dependent State and Channel Feedback on Gaussian Wiretap Channels. IEEE Transactions on Information Theory, 2020, 66, 3435-3455.	2.4	14
168	Efficient Communication Over the Discrete-Time Memoryless Rayleigh Fading Channel with Turbo Coding/Decoding. European Transactions on Telecommunications, 2000, 11, 475-485.	1.2	13
169	Cellular systems with full-duplex compress-and-forward relaying and cooperative base stations. , 2008, , .		13
170	MIMO Gaussian broadcast channels with confidential messages. , 2009, , .		13
171	On the capacity of compound state-dependent channels with states known at the transmitter. , 2010, , .		13
172	The achievable distortion region of bivariate Gaussian source on Gaussian broadcast channel. , 2010, , .		13
173	Secret key generation over noisy channels with common randomness. , 2016, , .		13
174	On additive channels with generalized Gaussian noise. , 2017, , .		13
175	Collaborative Cloud and Edge Mobile Computing in C-RAN Systems With Minimal End-to-End Latency. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 259-274.	2.8	13
176	Support recovery with sparsely sampled free random matrices. , 2011, , .		12
177	On the Capacity of a Class of Cognitive Z-Interference Channels. , 2011, , .		12
178	Capacity-Achieving Polar Codes for Arbitrarily Permuted Parallel Channels. IEEE Transactions on Information Theory, 2013, 59, 1505-1516.	2.4	12
179	On the degrees-of-freedom of the 3-user MISO broadcast channel with hybrid CSIT. , 2014, , .		12
180	Control-Data Separation With Decentralized Edge Control in Fog-Assisted Uplink Communications. IEEE Transactions on Wireless Communications, 2018, 17, 3686-3696.	9.2	12

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181	Recent results on compound wire-tap channels. , 2008, , .		11
182	Wireless Physical Layer Security. Eurasip Journal on Wireless Communications and Networking, 2010, 2009, .	2.4	11
183	Information Theory of Underspread WSSUS Channels. , 2011, , 65-115.		11
184	Uplink-downlink duality for integer-forcing. , 2014, , .		11
185	Uplink-Downlink Duality for Integer-Forcing. IEEE Transactions on Information Theory, 2018, 64, 1992-2011.	2.4	11
186	The Broadcast Approach in Communication Networks. Entropy, 2021, 23, 120.	2.2	11
187	On Linearly Precoded Rate Splitting for Gaussian MIMO Broadcast Channels. IEEE Transactions on Information Theory, 2021, 67, 4693-4709.	2.4	11
188	Decentralized Receiver in a MIMO system. , 2006, , .		10
189	Secrecy Capacity Region of Parallel Broadcast Channels. , 2007, , .		10
190	Constrained Information Combining: Theory and Applications for LDPC Coded Systems. IEEE Transactions on Information Theory, 2007, 53, 1617-1643.	2.4	10
191	Characterizing the discrete capacity achieving distribution with peak power constraint at the transition points. , 2008, , .		10
192	A unified coding scheme for hybrid transmission of Gaussian source over Gaussian channel. , 2008, , .		10
193	On Certain Large Random Hermitian Jacobi Matrices With Applications to Wireless Communications. IEEE Transactions on Information Theory, 2009, 55, 1534-1554.	2.4	10
194	Interference, cooperation and connectivity — A degrees of freedom perspective. , 2011, , .		10
195	On the secrecy degrees of freedom of multi-antenna wiretap channels with delayed CSIT. , 2011, , .		10
196	Linear Precoding Bounds for Wyner-Type Cellular Networks With Limited Base-Station Cooperation and Dynamic Clustering. IEEE Transactions on Signal Processing, 2012, 60, 3714-3725.	5.3	10
197	Robust distributed compression for cloud radio access networks. , 2012, , .		10
198	On capacity of the dirty paper channel with fading dirt in the strong fading regime. , 2014, , .		10

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199	The impact of phase fading on the dirty paper coding channel. , 2014, , .		10
200	Conferencing in Wyner's Asymmetric Interference Network: Effect of Number of Rounds. IEEE Transactions on Information Theory, 2017, 63, 1199-1226.	2.4	10
201	Multi-Key Generation Over a Cellular Model With a Helper. IEEE Transactions on Information Theory, 2017, 63, 3804-3822.	2.4	10
202	Joint design of digital and analog processing for downlink C-RAN with large-scale antenna arrays. , 2017, , .		10
203	Information Rates Subjected to State Masking. , 2006, , .		9
204	Cooperative Multiple Access Encoding with States Available at One Transmitter. , 2007, , .		9
205	Optimal Generalized Inverses for Zero Forcing Precoding. , 2007, , .		9
206	Minimum Expected Distortion in Gaussian Source Coding with Uncertain Side Information. , 2007, , .		9
207	Information-theoretic implications of constrained cooperation in simple cellular models. , 2008, , .		9
208	The broadcast approach over fading Gaussian wiretap channels. , 2009, , .		9
209	On Information Rates of the Fading Wyner Cellular Model via the Thouless Formula for the Strip. IEEE Transactions on Information Theory, 2010, 56, 5495-5514.	2.4	9
210	On the dirty paper channel with fading dirt. , 2010, , .		9
211	Oblivious Sequential Decode and Forward Cooperative Strategies for the Wireless Relay Channel. IEEE Transactions on Communications, 2012, 60, 3228-3238.	7.8	9
212	The Spectral Efficiency of Successive Cancellation With Linear Multiuser Detection for Randomly Spread CDMA. IEEE Transactions on Information Theory, 2012, 58, 2850-2873.	2.4	9
213	On the capacity region of Gaussian interference channels with state. , 2013, , .		9
214	Multihop backhaul compression for the uplink of cloud radio access networks. , 2014, , .		9
215	Performance evaluation of multiterminal backhaul compression for cloud radio access networks. , 2014, , .		9
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