

# Andrea J Goldsmith

## List of Publications by Year in descending order

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273  
papers

17,410  
citations

109264

35  
h-index

58549

82  
g-index

274  
all docs

274  
docs citations

274  
times ranked

10000  
citing authors

#	ARTICLE	IF	CITATIONS
1	Capacity limits of MIMO channels. IEEE Journal on Selected Areas in Communications, 2003, 21, 684-702.	9.7	1,814
2	Adaptive Modulation over Nakagami Fading Channels. Wireless Personal Communications, 2000, 13, 119-143.	1.8	658
3	Multi-Antenna Downlink Channels with Limited Feedback and User Selection. IEEE Journal on Selected Areas in Communications, 2007, 25, 1478-1491.	9.7	656
4	Cross-Layer Design for Lifetime Maximization in Interference-Limited Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2006, 5, 3142-3152.	6.1	242
5	Neural Network Detection of Data Sequences in Communication Systems. IEEE Transactions on Signal Processing, 2018, 66, 5663-5678.	3.2	235
6	Linear Coherent Decentralized Estimation. IEEE Transactions on Signal Processing, 2008, 56, 757-770.	3.2	223
7	Residential Demand Response Using Reinforcement Learning. , 2010, , .		176
8	Deep Learning for Joint Source-Channel Coding of Text. , 2018, , .		164
9	Optimal Pricing to Manage Electric Vehicles in Coupled Power and Transportation Networks. IEEE Transactions on Control of Network Systems, 2017, 4, 863-875.	2.4	143
10	The multi-way relay channel. , 2009, , .		135
11	Exact and Stable Covariance Estimation From Quadratic Sampling via Convex Programming. IEEE Transactions on Information Theory, 2015, 61, 4034-4059.	1.5	126
12	LQG Control for MIMO Systems Over Multiple Erasure Channels With Perfect Acknowledgment. IEEE Transactions on Automatic Control, 2012, 57, 450-456.	3.6	122
13	Finite State Channels With Time-Invariant Deterministic Feedback. IEEE Transactions on Information Theory, 2009, 55, 644-662.	1.5	118
14	The Fluctuating Two-Ray Fading Model: Statistical Characterization and Performance Analysis. IEEE Transactions on Wireless Communications, 2017, 16, 4420-4432.	6.1	115
15	Cross-Layer Energy and Delay Optimization in Small-Scale Sensor Networks. IEEE Transactions on Wireless Communications, 2007, 6, 3688-3699.	6.1	105
16	On the capacity of interference channels with one cooperating transmitter. European Transactions on Telecommunications, 2008, 19, 405-420.	1.2	100
17	ViterbiNet: A Deep Learning Based Viterbi Algorithm for Symbol Detection. IEEE Transactions on Wireless Communications, 2020, 19, 3319-3331.	6.1	95
18	Performance of multichannel reception with transmit antenna selection in arbitrarily distributed Nakagami fading channels. IEEE Transactions on Wireless Communications, 2009, 8, 2006-2013.	6.1	87

#	ARTICLE	IF	CITATIONS
19	A Game-Theoretic Approach to Energy-Efficient Modulation in CDMA Networks with Delay QoS Constraints. IEEE Journal on Selected Areas in Communications, 2007, 25, 1069-1078.	9.7	80
20	A Novel Experimental Platform for In-Vessel Multi-Chemical Molecular Communications. , 2017, , .		79
21	Scaling Laws for Noncoherent Energy-Based Communications in the SIMO MAC. IEEE Transactions on Information Theory, 2016, 62, 1980-1992.	1.5	75
22	On the capacity of the interference channel with a relay. , 2008, , .		68
23	Modeling and Optimization of Transmission Schemes in Energy-Constrained Wireless Sensor Networks. IEEE/ACM Transactions on Networking, 2007, 15, 1359-1372.	2.6	66
24	Source and Channel Coding for Correlated Sources Over Multiuser Channels. IEEE Transactions on Information Theory, 2009, 55, 3927-3944.	1.5	66
25	MIMO two-way relay channel: Diversity-multiplexing tradeoff analysis. , 2008, , .		65
26	Finite-Rate Feedback MIMO Broadcast Channels with a Large Number of Users. , 2006, , .		63
27	Cross-layer design of energy-constrained networks using cooperative MIMO techniques. Signal Processing, 2006, 86, 1804-1814.	2.1	61
28	MGF Approach to the Analysis of Generalized Two-Ray Fading Models. IEEE Transactions on Wireless Communications, 2015, , 1-1.	6.1	61
29	Multi-hop MIMO relay networks: diversity-multiplexing trade-off analysis. IEEE Transactions on Wireless Communications, 2010, 9, 1738-1747.	6.1	59
30	Blind Null-Space Learning for MIMO Underlay Cognitive Radio with Primary User Interference Adaptation. IEEE Transactions on Wireless Communications, 2013, 12, 1722-1734.	6.1	57
31	Compound Multiple-Access Channels With Partial Cooperation. IEEE Transactions on Information Theory, 2009, 55, 2425-2441.	1.5	56
32	Receive Antenna Array Strategies in Fading and Interference: An Outage Probability Comparison. IEEE Transactions on Wireless Communications, 2008, 7, 920-932.	6.1	55
33	A Survey on Modulation Techniques in Molecular Communication via Diffusion. IEEE Communications Surveys and Tutorials, 2021, 23, 7-28.	24.8	55
34	Energy-Based Modulation for Noncoherent Massive SIMO Systems. IEEE Transactions on Wireless Communications, 2016, 15, 7831-7846.	6.1	53
35	Distortion Minimization in Gaussian Layered Broadcast Coding With Successive Refinement. IEEE Transactions on Information Theory, 2009, 55, 5074-5086.	1.5	51
36	Retail and Wholesale Electricity Pricing Considering Electric Vehicle Mobility. IEEE Transactions on Control of Network Systems, 2019, 6, 249-260.	2.4	50

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37	Joint Source and Channel Coding for MIMO Systems: Is it Better to be Robust or Quick?. IEEE Transactions on Information Theory, 2008, 54, 1393-1405.	1.5	48
38	Distortion Rate Function of Sub-Nyquist Sampled Gaussian Sources. IEEE Transactions on Information Theory, 2016, 62, 401-429.	1.5	47
39	Relay strategies for interference-forwarding. , 2008, , .		46
40	Identification of Outages in Power Systems With Uncertain States and Optimal Sensor Locations. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1140-1153.	7.3	46
41	A Critical Survey of Deconvolution Methods for Separating Cell Types in Complex Tissues. Proceedings of the IEEE, 2017, 105, 340-366.	16.4	46
42	Wind Aggregation Via Risky Power Markets. IEEE Transactions on Power Systems, 2015, 30, 1571-1581.	4.6	45
43	Machine learning based channel modeling for molecular MIMO communications. , 2017, , .		42
44	Outage Detection Using Load and Line Flow Measurements in Power Distribution Systems. IEEE Transactions on Power Systems, 2018, 33, 2053-2069.	4.6	40
45	On Optimal Relay Placement and Sleep Control to Improve Energy Efficiency in Cellular Networks. , 2011, , .		37
46	ViterbiNet: Symbol Detection Using a Deep Learning Based Viterbi Algorithm. , 2019, , .		37
47	Generalizing Capacity: New Definitions and Capacity Theorems for Composite Channels. IEEE Transactions on Information Theory, 2010, 56, 3069-3087.	1.5	36
48	Design and performance of noncoherent massive SIMO systems. , 2014, , .		35
49	Non-Coherent Detection for Diffusive Molecular Communication Systems. IEEE Transactions on Communications, 2018, 66, 2515-2531.	4.9	35
50	Study of Gaussian Relay Channels with Correlated Noises. IEEE Transactions on Communications, 2011, 59, 863-876.	4.9	34
51	A molecular communication system using acids, bases and hydrogen ions. , 2016, , .		33
52	The impact of CSI and power allocation on relay channel capacity and cooperation strategies. IEEE Transactions on Wireless Communications, 2008, 7, 5380-5389.	6.1	32
53	Shannon Meets Nyquist: Capacity of Sampled Gaussian Channels. IEEE Transactions on Information Theory, 2013, 59, 4889-4914.	1.5	32
54	A Self-Directed Method for Cell-Type Identification and Separation of Gene Expression Microarrays. PLoS Computational Biology, 2013, 9, e1003189.	1.5	32

#	ARTICLE	IF	CITATIONS
55	Analog-to-Digital Compression: A New Paradigm for Converting Signals to Bits. IEEE Signal Processing Magazine, 2018, 35, 16-39.	4.6	32
56	Oblivious equilibrium for large-scale stochastic games with unbounded costs. , 2008, , .		30
57	Relaying in the Presence of Interference: Achievable Rates, Interference Forwarding, and Outer Bounds. IEEE Transactions on Information Theory, 2012, 58, 4342-4354.	1.5	30
58	The One-Bit Null Space Learning Algorithm and Its Convergence. IEEE Transactions on Signal Processing, 2013, 61, 6135-6149.	3.2	29
59	Data-Driven Factor Graphs for Deep Symbol Detection. , 2020, , .		29
60	Multihop Analog Network Coding via Amplify-and-Forward: The High SNR Regime. IEEE Transactions on Information Theory, 2012, 58, 793-803.	1.5	28
61	Multiple Multicasts With the Help of a Relay. IEEE Transactions on Information Theory, 2010, 56, 6142-6158.	1.5	27
62	Reduced-Dimension Multiuser Detection. IEEE Transactions on Information Theory, 2013, 59, 3858-3874.	1.5	27
63	Minimum Sparsity of Unobservable Power Network Attacks. IEEE Transactions on Automatic Control, 2017, 62, 3354-3368.	3.6	27
64	Capacity of Time-Varying Channels With Causal Channel Side Information. IEEE Transactions on Information Theory, 2007, 53, 881-899.	1.5	26
65	Capacity Regions and Bounds for a Class of Z-Interference Channels. IEEE Transactions on Information Theory, 2009, 55, 4986-4994.	1.5	26
66	Performance of MIMO MRC Systems with Co-Channel Interference. , 2006, , .		25
67	Rainfall Effect on the Performance of Millimeter-Wave MIMO Systems. IEEE Transactions on Wireless Communications, 2015, 14, 4857-4866.	6.1	25
68	Achievable rate regions for broadcast channels with cognitive relays. , 2009, , .		24
69	Reliable Uncoded Communication in the SIMO MAC. IEEE Transactions on Information Theory, 2015, 61, 388-403.	1.5	24
70	On the capacity of diffusion-based molecular timing channels. , 2016, , .		24
71	Capacity Definitions of General Channels with Receiver Side Information. , 2007, , .		23
72	Physical-layer cryptography through massive MIMO. , 2013, , .		23

#	ARTICLE	IF	CITATIONS
73	Null Space Learning With Interference Feedback for Spatial Division Multiple Access. IEEE Transactions on Wireless Communications, 2014, 13, 5699-5715.	6.1	23
74	Diffusive Molecular Communications With Reactive Molecules: Channel Modeling and Signal Design. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2018, 4, 171-188.	1.4	23
75	Fundamental Distortion Limits of Analog-to-Digital Compression. IEEE Transactions on Information Theory, 2018, 64, 6013-6033.	1.5	23
76	A Learning Framework for Cognitive Interference Networks with Partial and Noisy Observations. IEEE Transactions on Wireless Communications, 2012, 11, 3101-3111.	6.1	22
77	Physical-Layer Cryptography Through Massive MIMO. IEEE Transactions on Information Theory, 2017, 63, 5419-5436.	1.5	22
78	SozRank: A new approach for localizing the epileptic seizure onset zone. PLoS Computational Biology, 2018, 14, e1005953.	1.5	22
79	CTH13-3: Symmetric Rate Capacity of Cellular Systems with Cooperative Base Stations. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	21
80	Networked Markov Decision Processes With Delays. IEEE Transactions on Automatic Control, 2012, 57, 1013-1018.	3.6	20
81	CSI is not needed for optimal scaling in multiuser massive SIMO systems. , 2014, , .		20
82	On the Capacity of the Interference Channel With a Cognitive Relay. IEEE Transactions on Information Theory, 2014, 60, 2148-2179.	1.5	20
83	A new modulation technique for Doppler compensation in frequency-dispersive channels. , 2017, , .		20
84	Data-driven symbol detection via model-based machine learning. Communications in Information and Systems, 2020, 20, 283-317.	0.3	19
85	Outage Probability of MRC With Arbitrary Power Cochannel Interferers in Nakagami Fading. IEEE Transactions on Communications, 2007, 55, 1283-1286.	4.9	18
86	Information Recovery From Pairwise Measurements. IEEE Transactions on Information Theory, 2016, 62, 5881-5905.	1.5	18
87	Time-slotted transmission over molecular timing channels. Nano Communication Networks, 2017, 12, 12-24.	1.6	18
88	Communication System Design and Analysis for Asynchronous Molecular Timing Channels. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 239-253.	1.4	18
89	Two-Way Molecular Communications. IEEE Transactions on Communications, 2020, 68, 3550-3563.	4.9	18
90	Generalized relaying in the presence of interference. , 2008, , .		17

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91	Performance comparison of MRC and IC under transmit diversity. IEEE Transactions on Wireless Communications, 2009, 8, 2484-2493.	6.1	17
92	Optimal placement of distributed antennas in cellular systems. , 2011, , .		17
93	On PMU location selection for line outage detection in wide-area transmission networks. , 2012, , .		17
94	On oblivious equilibrium in large population stochastic games. , 2010, , .		16
95	Channel Capacity Under Sub-Nyquist Nonuniform Sampling. IEEE Transactions on Information Theory, 2014, 60, 4739-4756.	1.5	16
96	Line outage detection in power transmission networks via message passing algorithms. , 2014, , .		16
97	Capacity and Power Allocation for Transmitter and Receiver Cooperation in Fading Channels. , 2006, , .		15
98	Dynamic joint source-Channel coding with feedback. , 2013, , .		15
99	Energy model for vesicle-based active transport molecular communication. , 2016, , .		15
100	Multiplexing and Diversity Gains in Noncoherent Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 265-277.	6.1	15
101	The Distortion Rate Function of Cyclostationary Gaussian Processes. IEEE Transactions on Information Theory, 2018, 64, 3810-3824.	1.5	15
102	Learned Factor Graphs for Inference From Stationary Time Sequences. IEEE Transactions on Signal Processing, 2022, 70, 366-380.	3.2	15
103	Minimum Expected Distortion in Gaussian Source Coding With Fading Side Information. IEEE Transactions on Information Theory, 2012, 58, 5725-5739.	1.5	14
104	Capacity Bounds and Exact Results for the Cognitive Z-Interference Channel. IEEE Transactions on Information Theory, 2013, 59, 886-893.	1.5	14
105	Statistics and system performance metrics for the Two Wave with Diffuse Power fading model. , 2014, , .		14
106	Capacity of molecular channels with imperfect particle-intensity modulation and detection. , 2017, , .		14
107	Capacities and Optimal Input Distributions for Particle-Intensity Channels. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 220-232.	1.4	14
108	Exact BER analysis for M-QAM modulation with transmit beamforming under channel prediction errors. IEEE Transactions on Wireless Communications, 2008, 7, 3674-3678.	6.1	13

#	ARTICLE	IF	CITATIONS
109	Wireless NUM: Rate and Reliability Tradeoffs in Random Environment. , 2009, , .		13
110	A general approach to random coding for multi-terminal networks. , 2013, , .		13
111	Coherent versus noncoherent massive SIMO systems: Which has better performance?. , 2015, , .		13
112	Capacity Limits of Diffusion-Based Molecular Timing Channels With Finite Particle Lifetime. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2018, 4, 88-106.	1.4	13
113	Deep Neural Network Symbol Detection for Millimeter Wave Communications. , 2019, , .		13
114	The Distortion-Rate Function of Sampled Wiener Processes. IEEE Transactions on Information Theory, 2019, 65, 482-499.	1.5	13
115	CTH13-5: Coverage Spectral Efficiency of Cellular Systems with Cooperative Base Stations. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	12
116	Capacity of Finite-State Channels with Time-Invariant Deterministic Feedback. , 2006, , .		12
117	Learning Interference Strategies in Cognitive ARQ Networks. , 2010, , .		12
118	Non-Coherent Multiple-Symbol Detection for Diffusive Molecular Communications. , 2016, , .		12
119	Sliding Bidirectional Recurrent Neural Networks for Sequence Detection in Communication Systems. , 2018, , .		12
120	Characterizing Trust and Resilience in Distributed Consensus for Cyberphysical Systems. IEEE Transactions on Robotics, 2022, 38, 71-91.	7.3	12
121	Threshold-Based Fast Successive-Cancellation Decoding of Polar Codes. IEEE Transactions on Communications, 2021, 69, 3541-3555.	4.9	12
122	Data-Driven Symbol Detection Via Model-Based Machine Learning. , 2021, , .		12
123	Construction of Polar Codes With Reinforcement Learning. IEEE Transactions on Communications, 2022, 70, 185-198.	4.9	12
124	Performance analysis of single carrier and multicarrier DS-CDMA systems over generalized fading channels. Wireless Communications and Mobile Computing, 2001, 1, 93-110.	0.8	11
125	Adaptive Modulation for MIMO Beamforming under Average BER Constraints and Imperfect CSI. , 2006, , .		11
126	Interference Forwarding in Multiuser Networks. , 2008, , .		11



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127	The indirect rate-distortion function of a binary i.i.d source. , 2015, , .		11
128	Average Fade Duration for Amplify-and-Forward Relay Networks in Fading Channels. IEEE Transactions on Wireless Communications, 2015, 14, 5454-5467.	6.1	11
129	Exploiting Diversity in One-Shot Molecular Timing Channels via Order Statistics. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2018, 4, 14-26.	1.4	11
130	Diversity-Multiplexing Tradeoffs in MIMO Relay Channels. , 2008, , .		10
131	The Capacity Region of the Degraded Finite-State Broadcast Channel. IEEE Transactions on Information Theory, 2010, 56, 1828-1851.	1.5	10
132	Energy Efficient Cooperative Strategies for Relay-Assisted Downlink Cellular Systems. IEEE Journal on Selected Areas in Communications, 2014, 32, 2075-2089.	9.7	10
133	Backing Off From Infinity: Performance Bounds via Concentration of Spectral Measure for Random MIMO Channels. IEEE Transactions on Information Theory, 2015, 61, 366-387.	1.5	10
134	Benefits of Storage Control for Wind Power Producers in Power Markets. IEEE Transactions on Sustainable Energy, 2016, 7, 1492-1505.	5.9	10
135	Optimal Detection for One-Shot Transmission Over Diffusion-Based Molecular Timing Channels. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2018, 4, 43-60.	1.4	10
136	Optimal control of distributed Markov decision processes with network delays. , 2007, , .		9
137	Minimum Expected Distortion in Gaussian Source Coding with Uncertain Side Information. , 2007, , .		9
138	Multihop MIMO Relay Networks with ARQ. , 2009, , .		9
139	BER Analysis for MIMO-OFDM Beamforming with MRC under Channel Prediction and Interpolation Errors. , 2009, , .		9
140	Capacity Theorems for Discrete, Finite-State Broadcast Channels With Feedback and Unidirectional Receiver Cooperation. IEEE Transactions on Information Theory, 2010, 56, 5958-5983.	1.5	9
141	Exploiting spatial degrees of freedom in MIMO cognitive radio systems. , 2012, , .		9
142	Reduced-Complexity Robust MIMO Decoders. IEEE Transactions on Wireless Communications, 2013, 12, 3783-3795.	6.1	9
143	Null Space Learning in Cooperative MIMO Cellular Networks Using Interference Feedback. IEEE Transactions on Wireless Communications, 2015, 14, 3961-3977.	6.1	9
144	Optimal trade-off between sampling rate and quantization precision in Sigma-Delta A/D conversion. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
145	Calendar Allocation Based on Client Traffic in the Flexible Ethernet Standard. , 2020, , .		9
146	Sublinear Latency for Simplified Successive Cancellation Decoding of Polar Codes. IEEE Transactions on Wireless Communications, 2021, 20, 18-27.	6.1	9
147	Coverage Spectral Efficiency of Cellular Systems with Cooperative Base Stations. , 2006, , .		8
148	Oblivious equilibrium: An approximation to large population dynamic games with concave utility. , 2009, , .		8
149	Interference Channels With Correlated Receiver Side Information. IEEE Transactions on Information Theory, 2010, 56, 5984-5998.	1.5	8
150	Adaptive Modulation for MIMO Systems with Channel Prediction Errors. IEEE Transactions on Wireless Communications, 2010, 9, 2516-2527.	6.1	8
151	Common Rate Support in Multi-Antenna Downlink Channels Using Semi-Orthogonal User Selection. IEEE Transactions on Information Theory, 2011, 57, 3449-3461.	1.5	8
152	Optimization of ARQ Protocols in Interference Networks with QoS Constraints. , 2011, , .		8
153	Diversity-multiplexing tradeoff in a MIMO Gaussian interference channel with a relay. , 2011, , .		8
154	Achievable Error Exponents in the Gaussian Channel With Rate-Limited Feedback. IEEE Transactions on Information Theory, 2013, 59, 8144-8156.	1.5	8
155	On the Capacity of Indecomposable Finite-State Channels With Feedback. IEEE Transactions on Information Theory, 2013, 59, 193-203.	1.5	8
156	Risky power forward contracts for wind aggregation. , 2013, , .		8
157	Fundamental limits of cyber-physical security in smart power grids. , 2013, , .		8
158	On the Capacity of the Multiantenna Gaussian Cognitive Interference Channel. IEEE Journal on Selected Areas in Communications, 2014, 32, 2252-2267.	9.7	8
159	Diversity-Multiplexing Tradeoff for the Interference Channel With a Relay. IEEE Transactions on Information Theory, 2015, 61, 963-982.	1.5	8
160	Eigenvalue Dynamics of a Central Wishart Matrix With Application to MIMO Systems. IEEE Transactions on Information Theory, 2015, 61, 2693-2707.	1.5	8
161	Achieving Full DoF in Heterogeneous Parallel Broadcast Channels With Outdated CSIT. IEEE Transactions on Information Theory, 2016, 62, 4154-4171.	1.5	8
162	Variable Length Joint Source-Channel Coding of Text Using Deep Neural Networks. , 2018, , .		8

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163	Rethinking Modulation and Detection for High Doppler Channels. IEEE Transactions on Wireless Communications, 2020, 19, 3629-3642.	6.1	8
164	Source Transmission over Relay Channel with Correlated Relay Side Information. , 2007, , .		7
165	Large on the capacity of indecomposable finite-state channels with feedback. , 2008, , .		7
166	Information state for Markov decision processes with network delays. , 2008, , .		7
167	Cross-Layer Design with Adaptive Modulation: Delay, Rate, and Energy Tradeoffs. , 2008, , .		7
168	Blind null-space tracking for MIMO underlay cognitive radio networks. , 2012, , .		7
169	An algorithm for exact super-resolution and phase retrieval. , 2014, , .		7
170	A Unified Graphical Approach to Random Coding for Single-Hop Networks. IEEE Transactions on Information Theory, 2016, 62, 56-88.	1.5	7
171	Diversity Gain of One-Shot Communication over Molecular Timing Channels. , 2017, , .		7
172	Sparse mmWave OFDM Channel Estimation using Compressed Sensing. , 2019, , .		7
173	Virtual Cell Clustering with Optimal Resource Allocation to Maximize Cellular System Capacity. , 2019, , .		7
174	Blind Joint MIMO Channel Estimation and Decoding. IEEE Transactions on Information Theory, 2019, 65, 2507-2524.	1.5	7
175	Decentralized Optimization Over Noisy, Rate-Constrained Networks: Achieving Consensus by Communicating Differences. IEEE Journal on Selected Areas in Communications, 2022, 40, 449-467.	9.7	7
176	Two way molecular communications. , 2018, , .		7
177	Optimal Sensing Rate for Estimation over Shared Communication Links. Proceedings of the American Control Conference, 2007, , .	0.0	6
178	A Game-Theoretic Approach to Energy-Efficient Modulation in CDMA Networks with Delay Constraints. , 2007, , .		6
179	Inferring neural connectivity via measured delay in directed information estimates. , 2013, , .		6
180	Increasing capacity in massive MIMO cellular networks via small cells. , 2014, , .		6

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181	MGF approach to the capacity analysis of Generalized Two-Ray fading models. , 2015, , .		6
182	Capacity of block Rayleigh fading channels without CSI. , 2016, , .		6
183	On the Minimax Capacity Loss Under Sub-Nyquist Universal Sampling. IEEE Transactions on Information Theory, 2017, 63, 3348-3367.	1.5	6
184	Estimation in autoregressive processes with partial observations. , 2017, , .		6
185	Capacity Scaling in a Non-Coherent Wideband Massive SIMO Block Fading Channel. IEEE Transactions on Wireless Communications, 2019, 18, 5691-5704.	6.1	6
186	Construction of Polar Codes with Reinforcement Learning. , 2020, , .		6
187	Convex optimization for precoder design in MIMO interference networks. , 2012, , .		5
188	Null space learning in cooperative MIMO cellular networks using interference feedback. , 2013, , .		5
189	Optimal joint detection and estimation in linear models. , 2013, , .		5
190	Dynamic joint outage identification and state estimation in power systems. , 2014, , .		5
191	Capacity scaling in noncoherent wideband massive SIMO systems. , 2015, , .		5
192	Neural Network Detectors for Molecular Communication Systems. , 2018, , .		5
193	Optimal Resource Allocation for Cellular Networks with Virtual Cell Joint Decoding. , 2019, , .		5
194	Decentralized Optimization Over Noisy, Rate-Constrained Networks: How We Agree By Talking About How We Disagree. , 2021, , .		5
195	Virtual Cell Clustering With Optimal Resource Allocation to Maximize Capacity. IEEE Transactions on Wireless Communications, 2021, 20, 5099-5114.	6.1	5
196	Estimation Diversity with Multiple Heterogeneous Sensors. , 2006, , .		4
197	The capacity region of the degraded finite-state broadcast channel. , 2008, , .		4
198	Do decode-and-forward relaying protocols beat transmit diversity?. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
199	Reduced-dimension multiuser detection. , 2010, , .		4
200	Cognitive Interference Networks with Partial and Noisy Observations: A Learning Framework. , 2011, , .		4
201	Blind null-space learning for spatial coexistence in MIMO cognitive radios. , 2012, , .		4
202	Distortion rate function of sub-Nyquist sampled Gaussian sources corrupted by noise. , 2013, , .		4
203	Diversity-multiplexing tradeoff for the interference channel with a relay. , 2013, , .		4
204	On the capacity of the MIMO cognitive interference channel. , 2013, , .		4
205	Sub-Nyquist sampling achieves optimal rate-distortion. , 2015, , .		4
206	Lossy compression of decimated Gaussian random walks. , 2018, , .		4
207	Distributed Sub-gradient Algorithms with Limited Communications. , 2019, , .		4
208	Exploiting Local and Cloud Sensor Fusion in Intermittently Connected Sensor Networks. , 2020, , .		4
209	Parallelism Versus Latency in Simplified Successive-Cancellation Decoding of Polar Codes. IEEE Transactions on Wireless Communications, 2022, 21, 3909-3920.	6.1	4
210	Distortion Metrics of Composite Channels with Receiver Side Information. , 2007, , .		3
211	Interference Suppression in Wireless Cellular Networks through Picocells. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	3
212	Lossy source transmission over the relay channel. , 2008, , .		3
213	Oblivious equilibrium for stochastic games with concave utility. , 2008, , .		3
214	Generalized Capacity and Source-Channel Coding for Packet Erasure Channels. , 2008, , .		3
215	Capacity theorems for the finite-state broadcast channel with feedback. , 2008, , .		3
216	Exact Error Rates of MRC with Transmit Antenna Selection in Non-Identically Distributed Nakagami Fading Channels. , 2008, , .		3

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217	Bit Error Rate Analysis in MIMO Channels with Fading and Interference. , 2009, , .		3
218	Distortion exponent in MIMO channels with feedback. , 2009, , .		3
219	Diversity-multiplexing-delay tradeoffs in MIMO multihop networks with ARQ. , 2010, , .		3
220	Energy-Efficient Communication via Feedback. IEEE Transactions on Wireless Communications, 2013, 12, 3338-3349.	6.1	3
221	Power-controlled multiple access with a queue-dependent backoff threshold. , 2014, , .		3
222	Gaussian distortion-rate function under sub-nyquist nonuniform sampling. , 2014, , .		3
223	Multiplexing-diversity tradeoffs in noncoherent massive MIMO systems. , 2015, , .		3
224	On Time-Slotted Communication over Molecular Timing Channels. , 2016, , .		3
225	Fundamental estimation limits in autoregressive processes with compressive measurements. , 2017, , .		3
226	Blind Joint MIMO Channel Estimation and Decoding. , 2017, , .		3
227	The Compress-and-Estimate Coding Scheme for Gaussian Sources. IEEE Transactions on Wireless Communications, 2019, 18, 4344-4356.	6.1	3
228	Estimating the Memory Order of Electrocardiography Recordings. IEEE Transactions on Biomedical Engineering, 2019, 66, 2809-2822.	2.5	3
229	Interference channels with correlated receiver side information. , 2008, , .		2
230	A Bayesian network approach to control of networked Markov decision processes. , 2008, , .		2
231	Decentralized team decision via coding. , 2009, , .		2
232	Joint pricing and resource allocation for OFDMA-based cognitive radio systems. , 2011, , .		2
233	A reinforcement learning optimization framework for cognitive interference networks. , 2011, , .		2
234	A general framework for statistically characterizing the dynamics of MIMO channels. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
235	Reliable uncoded communication in the SIMO MAC via low-complexity decoding. , 2013, , .		2
236	Directed information between connected leaky integrate-and-fire neurons. , 2014, , .		2
237	On the capacity of diffusion-based molecular timing channels with diversity. , 2016, , .		2
238	Directed Information Between Connected Leaky Integrate-and-Fire Neurons. IEEE Transactions on Information Theory, 2017, , 1-1.	1.5	2
239	Fast Blind MIMO Decoding through Vertex Hopping. , 2018, , .		2
240	Distributed Convex Optimization with Limited Communications. , 2019, , .		2
241	Threshold-Based Successive-Cancellation Decoding of Polar Codes. , 2020, , .		2
242	Simplified Successive Cancellation Decoding of Polar Codes Has Sublinear Latency. , 2020, , .		2
243	Successive Syndrome-Check Decoding of Polar Codes. , 2021, , .		2
244	Alternative Formulations for the Fluctuating Two-Ray Fading Model. IEEE Transactions on Wireless Communications, 2022, 21, 9404-9416.	6.1	2
245	CTH15-1: Linear Coherent Decentralized Estimation. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	1
246	Identification over multiple databases. , 2009, , .		1
247	Hat guessing games and the use of coding for decentralized control. , 2010, , .		1
248	Optimal power line communications control policies using stochastic optimization. , 2010, , .		1
249	Uncoded transmission in MAC channels achieves arbitrarily small error probability. , 2012, , .		1
250	Energy-efficient communication via feedback. , 2012, , .		1
251	Reliable uncoded communication in the underdetermined SIMO MAC with low-complexity decoding. , 2013, , .		1
252	Coordinated resource allocation in centralized radio access networks with dynamic downlink/uplink reconfiguration. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
253	Distortion rate function of cyclo-stationary Gaussian processes. , 2014, , .		1
254	A polynomial-time method to find the sparsest unobservable attacks in power networks. , 2016, , .		1
255	Coherence Time of Wireless Channels with Large Antenna Arrays. , 2017, , .		1
256	Robustness of FDM-FDCP Modulation to Phase Noise in Millimeter Wave Systems. , 2018, , .		1
257	Using Markov Properties of ECoG Signals to Infer Neuron Connectivity. , 2018, , .		1
258	Ranking causal influence of financial markets via directed information graphs. , 2018, , .		1
259	Fast Blind MIMO Decoding Through Vertex Hopping. IEEE Transactions on Wireless Communications, 2019, 18, 3669-3682.	6.1	1
260	Bayesian Algorithms for Decentralized Stochastic Bandits. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 564-583.	1.9	1
261	Parallelism versus Latency in Simplified Successive-Cancellation Decoding of Polar Codes. , 2021, , .		1
262	Consummating the Union Between Control and Communications. Proceedings of the American Control Conference, 2007, , .	0.0	0
263	Coding with frame synchronization for finite-state channels with feedback. , 2009, , .		0
264	On the usage of antennas in MIMO and MISO interference channels. , 2010, , .		0
265	Approaching the capacity of sampled analog channels. , 2011, , .		0
266	Coding strategies for a class of decentralized control problems with limited communication. , 2011, , .		0
267	Reduced-dimension multiuser detection. , 2012, , .		0
268	The Life and Work of Marvin Kenneth Simon. IEEE Communications Surveys and Tutorials, 2017, 19, 1551-1566.	24.8	0
269	Detection Over Rapidly Changing Communication Channels Using Deep Learning. , 2018, , .		0
270	F270. Regularized Linear Regression Guides Development of a Multilocus Genetic Profile Score for Cannabis Use Disorder. Biological Psychiatry, 2018, 83, S344.	0.7	0



#	ARTICLE	IF	CITATIONS
271	Conference Report/WCNC '17 Wins iCon Annual Award as Most Innovative IEEE Conference. IEEE Communications Magazine, 2018, 56, 8-10.	4.9	0
272	Welcome to the IEEE Journal on Selected Areas in Information Theory (JSAIT). IEEE Journal on Selected Areas in Information Theory, 2020, 1, 3-3.	1.9	0
273	Interference Reduction in Virtual Cell Optimization. , 2021, , .		0