

Syed Ali Jafar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

213 papers	14,414 citations	51 h-index	118 g-index
239 ext. papers	18,339 ext. citations	4 avg, IF	7.32 L-index

#	Paper	IF	Citations
213	Private Retrieval, Computing and Learning: Recent Progress and Future Challenges. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 1-1	14.2	3
212	Sum-GDoF of Symmetric Multi-hop Interference Channel under Finite Precision CSIT using Aligned-Images Sum-set Inequalities. <i>IEEE Transactions on Information Theory</i> , 2022 , 1-1	2.8	2
211	X-Secure T-Private Federated Submodel Learning with Elastic Dropout Resilience. <i>IEEE Transactions on Information Theory</i> , 2022 , 1-1	2.8	0
210	Privacy in Retrieval, Computing, and Learning. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 40, 725-728	14.2	
209	Canonical Conditions for $K/2$ Degrees of Freedom. <i>IEEE Transactions on Information Theory</i> , 2021 , 1-1	2.8	
208	Secure GDoF of the Z-channel with Finite Precision CSIT: How Robust are Structured Codes?. <i>IEEE Transactions on Information Theory</i> , 2021 , 1-1	2.8	
207	On the Synergistic Benefits of Reconfigurable Antennas and Partial Channel Knowledge for the MIMO Interference Channel. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	
206	Robust Optimality of Secure TIN. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	1
205	Double Blind T-Private Information Retrieval. <i>IEEE Journal on Selected Areas in Information Theory</i> , 2021 , 2, 428-440	2.5	3
204	GCSA Codes With Noise Alignment for Secure Coded Multi-Party Batch Matrix Multiplication. <i>IEEE Journal on Selected Areas in Information Theory</i> , 2021 , 2, 306-316	2.5	8
203	Cross Subspace Alignment Codes for Coded Distributed Batch Computation. <i>IEEE Transactions on Information Theory</i> , 2021 , 67, 2821-2846	2.8	12
202	X-Secure T-Private Federated Submodel Learning 2021 ,		2
201	Exploring Aligned-Images Bounds: Robust Secure GDoF of 3-to-1 Interference Channel 2021 ,		3
200	Distributed Interference Alignment for K-user Interference Channels via Deep Learning 2021 ,		1
199	. <i>IEEE Transactions on Information Theory</i> , 2021 , 1-1	2.8	6
198	Multilevel Topological Interference Management: A TIM-TIN Perspective. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	2
197	Toward an Extremal Network TheoryRobust GDoF Gain of Transmitter Cooperation Over TIN. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 3827-3845	2.8	9

196	. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 3417-3434	2.8	0
195	The Asymptotic Capacity of Private Search. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 4709-4721	2.8	10
194	The Capacity of T-Private Information Retrieval With Private Side Information. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 4761-4773	2.8	23
193	GCSA Codes with Noise Alignment for Secure Coded Multi-Party Batch Matrix Multiplication 2020 ,		6
192	Sum-GDoF of 2-User Interference Channel With Limited Cooperation Under Finite Precision CSIT. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 6999-7021	2.8	5
191	Sum-Set Inequalities From Aligned Image Sets: Instruments for Robust GDoF Bounds. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 6458-6487	2.8	6
190	Degrees of Freedom Region of the (M, N, N) MIMO Broadcast Channel With Partial CSIT: An Application of Sum-Set Inequalities Based on Aligned Image Sets. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 6256-6279	2.8	8
189	X-Secure T-Private Information Retrieval From MDS Coded Storage With Byzantine and Unresponsive Servers. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 7427-7438	2.8	21
188	Secure GDoF of the Z-channel with Finite Precision CSIT: How Robust are Structured Codes? 2020 ,		5
187	On the Capacity of Locally Decodable Codes. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 6566-6578	2.8	1
186	On the Asymptotic Capacity of X-Secure T-Private Information Retrieval With Graph-Based Replicated Storage. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 6280-6296	2.8	12
185	Optimality of Simple Layered Superposition Coding in the 3 User MISO BC With Finite Precision CSIT. <i>IEEE Transactions on Information Theory</i> , 2019 , 65, 7181-7207	2.8	12
184	Cross Subspace Alignment and the Asymptotic Capacity of X -Secure T -Private Information Retrieval. <i>IEEE Transactions on Information Theory</i> , 2019 , 65, 5783-5798	2.8	39
183	Aligned Image Sets and the Generalized Degrees of Freedom of Symmetric MIMO Interference Channel With Partial CSIT. <i>IEEE Transactions on Information Theory</i> , 2019 , 65, 406-417	2.8	5
182	The Capacity of Symmetric Private Information Retrieval. <i>IEEE Transactions on Information Theory</i> , 2019 , 65, 322-329	2.8	70
181	K -User Symmetric M -times N MIMO Interference Channel Under Finite Precision CSIT: A GDoF Perspective. <i>IEEE Transactions on Information Theory</i> , 2019 , 65, 1126-1136	2.8	7
180	GDoF of Interference Channel with Limited Cooperation under Finite Precision CSIT 2019 ,		2
179	Towards an Extremal Network Theory [Robust GDoF Gain of Transmitter Cooperation over TIN 2019 ,		6

178	The Capacity of Private Computation. <i>IEEE Transactions on Information Theory</i> , 2019 , 65, 3880-3897	2.8	31
177	Private Information Retrieval from MDS Coded Data With Colluding Servers: Settling a Conjecture by Freij-Hollanti et al.. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 1000-1022	2.8	62
176	The Capacity of Robust Private Information Retrieval With Colluding Databases. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 2361-2370	2.8	134
175	TDMA is Optimal for All-Unicast DoF Region of TIM if and only if Topology is Chordal Bipartite. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 2065-2076	2.8	12
174	Power Control by GDoF Duality of Treating Interference as Noise. <i>IEEE Communications Letters</i> , 2018 , 22, 244-247	3.8	6
173	Multiround Private Information Retrieval: Capacity and Storage Overhead. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 5743-5754	2.8	45
172	Network Coherence Time Matters: Aligned Image Sets and the Degrees of Freedom of Interference Networks With Finite Precision CSIT and Perfect CSIR. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 7780-7791	2.8	9
171	GDoF Region of the MISO BC: Bridging the Gap Between Finite Precision and Perfect CSIT. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 7208-7217	2.8	21
170	CSIT Thresholds for Collapse of Degrees of Freedom in Wireless Networks 2018 ,		1
169	The Asymptotic Capacity of Private Search 2018 ,		18
168	The Capacity of Private Computation 2018 ,		3
167	The Capacity of Private Information Retrieval. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 4075-4088	2.8	225
166	Generalized Degrees of Freedom of the Symmetric K User Interference Channel Under Finite Precision CSIT. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 6561-6572	2.8	22
165	Optimal Download Cost of Private Information Retrieval for Arbitrary Message Length. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 2920-2932	8	60
164	Cognitive Blind Interference Alignment for Macro-Femto Networks. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 5121-5136	4.8	15
163	Transmitter Cooperation Under Finite Precision CSIT: A GDoF Perspective. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 6020-6030	2.8	30
162	DoF region of the MIMO interference channel with partial CSIT 2017 ,		3
161	. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 6607-6621	2.8	2

160	Private information retrieval from MDS coded data with colluding servers: Settling a conjecture by Freij-Hollanti et al 2017 ,		7
159	Sum-set inequalities from aligned image sets: Instruments for robust GDoF bounds 2017 ,		7
158	The Capacity of Private Information Retrieval with Disjoint Colluding Sets 2017 ,		11
157	Generalized DoF of the symmetric K-user interference channel under finite precision CSIT 2016 ,		1
156	On the Optimality of Treating Interference as Noise: Compound Interference Networks. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 4630-4653	2.8	15
155	Blind interference alignment for private information retrieval 2016 ,		27
154	Genie Chains: Exploring Outer Bounds on the Degrees of Freedom of MIMO Interference Networks. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 5573-5602	2.8	2
153	Aligned Image Sets Under Channel Uncertainty: Settling Conjectures on the Collapse of Degrees of Freedom Under Finite Precision CSIT. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 5603-5618	2.8	90
152	GDoF of the MISO BC: Bridging the gap between finite precision CSIT and perfect CSIT 2016 ,		14
151	On the Optimality of Treating Interference as Noise for K -User Parallel Gaussian Interference Networks. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 1911-1930	2.8	16
150	The capacity of private information retrieval with colluding databases 2016 ,		16
149	The Capacity of Private Information Retrieval 2016 ,		25
148	The Capacity of Symmetric Private Information Retrieval 2016 ,		38
147	Elevated multiplexing and signal space partitioning in the 2 User MIMO IC with partial CSIT 2016 ,		12
146	On the optimality of zero-forcing and treating interference as noise for K-user MIMO interference channels 2016 ,		2
145	Degrees of Freedom of Rank-Deficient MIMO Interference Channels. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 341-365	2.8	18
144	On the Optimality of Treating Interference as Noise. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 1753-1767	2.8	115
143	Topological Interference Management for Hexagonal Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 2368-2376	9.6	11

142	Secure GDoF of K -User Gaussian Interference Channels: When Secrecy Incurs No Penalty. <i>IEEE Communications Letters</i> , 2015 , 19, 1287-1290	3.8	10
141	On the Two-User MISO Broadcast Channel With Alternating CSIT: A Topological Perspective. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 4345-4366	2.8	10
140	Rank Matching for Multihop Multiflow. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 4751-4764	2.8	6
139	Blind Interference Alignment for Cellular Networks. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 41-56	4.8	53
138	On the Symmetric 2-User Deterministic Interference Channel with Confidential Messages 2015 ,		8
137	Transmitter Cooperation under Finite Precision CSIT: A GDoF Perspective 2015 ,		2
136	On the separability of GDoF region for parallel Gaussian TIN optimal interference networks 2015 ,		5
135	On the Optimality of Treating Interference as Noise: General Message Sets. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 3722-3736	2.8	22
134	Index Coding Capacity: How Far Can One Go With Only Shannon Inequalities?. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 3041-3055	2.8	18
133	. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 426-451	2.8	5
132	Correction to "On the Optimality of Beamforming with Quantized Feedback" [Dec 07 2288-2302]. <i>IEEE Transactions on Communications</i> , 2014 , 62, 1151-1151	6.9	
131	Subspace Alignment Chains and the Degrees of Freedom of the Three-User MIMO Interference Channel. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 2432-2479	2.8	49
130	Topological Interference Management Through Index Coding. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 529-568	2.8	156
129	On the optimality of treating interference as noise for parallel deterministic interference networks 2014 ,		2
128	Index CodingAn Interference Alignment Perspective. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 5402-5432	2.8	73
127	On the Capacity of the Finite Field Counterparts of Wireless Interference Networks. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 4101-4124	2.8	7
126	On the Symmetric 2-User Deterministic Interference Channel with Confidential Messages 2014 ,		2
125	Settling conjectures on the collapse of degrees of freedom under finite precision CSIT 2014 ,		7

124	Rank-matching for multihop multiflow 2014 ,		2
123	2014 ,		1
122	2014 ,		2
121	On the optimality of treating interference as noise: General message sets 2014 ,		4
120	On the vector broadcast channel with alternating CSIT: A topological perspective 2014 ,		9
119	Toward Full-Duplex Multihop Multiflow: A Study of Non-Layered Two Unicast Wireless Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 1738-1751	14.2	6
118	Topological interference management with multiple antennas 2014 ,		15
117	Optimality of Orthogonal Access for One-Dimensional Convex Cellular Networks. <i>IEEE Communications Letters</i> , 2013 , 17, 1770-1773	3.8	11
116	Multilevel topological interference management 2013 ,		13
115	. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 2974-2987	2.8	117
114	Degrees of Freedom of MIMO $K \times K$ Networks: Spatial Scale Invariance and One-Sided Decomposability. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 8377-8385	2.8	16
113	On the Synergistic Benefits of Alternating CSIT for the MISO Broadcast Channel. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 4106-4128	2.8	95
112	Two-user MISO broadcast channel: Synergistic benefits of alternating CSIT 2013 ,		2
111	Topological interference management with alternating connectivity 2013 ,		29
110	On Degrees of Freedom Region of MIMO Networks Without Channel State Information at Transmitters. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 849-857	2.8	100
109	Aligned Interference Neutralization and the Degrees of Freedom of the 2×2 Interference Channel. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 4381-4395	2.8	124
108	Interference Alignment and the Generalized Degrees of Freedom of the $K \times K$ Channel. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 5130-5150	2.8	48
107	. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 1456-1467	9.6	34

106	Optimal Use of Current and Outdated Channel State Information: Degrees of Freedom of the MISO BC with Mixed CSIT. <i>IEEE Communications Letters</i> , 2012 , 16, 1084-1087	3.8	93
105	Ergodic Interference Alignment. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 6355-6371	2.8	79
104	Degrees of freedom of MIMO X networks: Spatial scale invariance, one-sided decomposability and linear feasibility 2012 ,		18
103	2012 ,		21
102	Blind Interference Alignment. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2012 , 6, 216-227	7.5	141
101	Retrospective Interference Alignment Over Interference Networks. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2012 , 6, 228-240	7.5	107
100	Subspace alignment chains and the degrees of freedom of the three-user MIMO interference channel 2012 ,		18
99	Index coding: An interference alignment perspective 2012 ,		45
98	Degrees of freedom of 2-user and 3-user rank-deficient MIMO interference channels 2012 ,		14
97	2012 ,		8
96	Aiming Perfectly in the Dark-Blind Interference Alignment Through Staggered Antenna Switching. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 2734-2744	4.8	168
95	Interference, cooperation and connectivity [A degrees of freedom perspective 2011 ,		7
94	Sum Capacity of a Class of Symmetric SIMO Gaussian Interference Channels Within $\mathcal{O}(1)$. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 1932-1958	2.8	17
93	. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 3032-3044	2.8	36
92	On the Degrees of Freedom of Finite State Compound Wireless Networks. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 3286-3308	2.8	47
91	A Distributed Numerical Approach to Interference Alignment and Applications to Wireless Interference Networks. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 3309-3322	2.8	602
90	The Ergodic Capacity of Phase-Fading Interference Networks. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 7685-7694	2.8	24
89	Tensor product based subspace interference alignment for network coding applications 2011 ,		1

88	Aligned interference neutralization and the degrees of freedom of the 2×2 interference channel with interfering relays 2011 ,		1
87	When Alamouti codes meet interference alignment: Transmission schemes for two-user X channel 2011 ,		13
86	Retrospective interference alignment 2011 ,		19
85	Degrees of freedom of a class of non-layered two unicast wireless networks 2011 ,		6
84	Aligned interference neutralization and the degrees of freedom of the 2×2 interference channel 2011 ,		3
83	Aiming Perfectly in the Dark - Blind Interference Alignment through Staggered Antenna Switching 2010 ,		4
82	2010 ,		17
81	Network coding for multiple unicasts: An interference alignment approach 2010 ,		36
80	On asymptotic interference alignment: Plenary talk 2010 ,		5
79	2010 ,		1
78	Sum-capacity and the unique separability of the parallel Gaussian MAC-Z-BC network 2010 ,		6
77	On Feasibility of Interference Alignment in MIMO Interference Networks. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 4771-4782	4.8	504
76	Soft Sensing and Optimal Power Control for Cognitive Radio. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 3638-3649	9.6	45
75	Exploiting Channel Correlations - Simple Interference Alignment Schemes with No CSIT 2010 ,		40
74	Minimum Repair Bandwidth for Exact Regeneration in Distributed Storage 2010 ,		11
73	Approximate capacity of a class of multi-source Gaussian relay networks 2010 ,		5
72	Network coding for three unicast sessions: Interference alignment approaches 2010 ,		22
71	Duality of MIMO multiple access channel and broadcast channel with amplify-and-forward relays. <i>IEEE Transactions on Communications</i> , 2010 , 58, 211-217	6.9	27

70	Generalized Degrees of Freedom of the Symmetric Gaussian $K \times K$ User Interference Channel. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 3297-3303	2.8	108
69	Interference Alignment With Asymmetric Complex Signaling Settling the Høst-Madsen-Nosratinia Conjecture. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 4552-4565	2.8	142
68	Degrees of Freedom of the $K \times K$ User M times N MIMO Interference Channel. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 6040-6057	2.8	283
67	Interference Alignment [A New Look at Signal Dimensions in a Communication Network. <i>Foundations and Trends in Communications and Information Theory</i> , 2010 , 7, 1-134	6.1	235
66	Optimal Use of Antennas in Interference Networks: A Tradeoff between Rate, Diversity and Interference Alignment 2009 ,		9
65	Degrees of freedom of multi-source relay networks 2009 ,		12
64	Interference alignment and the generalized degrees of freedom of the X channel 2009 ,		11
63	The capacity region of a class of deterministic Z channels 2009 ,		12
62	Feasibility Conditions for Interference Alignment 2009 ,		80
61	Capacity of a class of symmetric SIMO Gaussian interference channels within $O(1)$ 2009 ,		15
60	Interference alignment with asymmetric complex signaling 2009 ,		7
59	Interference Alignment on the Deterministic Channel and Application to Fully Connected Gaussian Interference Networks. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 269-274	2.8	87
58	The Effect of Noise Correlation in Amplify-and-Forward Relay Networks. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 731-745	2.8	29
57	Degrees of Freedom of Wireless Networks With Relays, Feedback, Cooperation, and Full Duplex Operation. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 2334-2344	2.8	144
56	Parallel Gaussian Interference Channels Are Not Always Separable. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 3983-3990	2.8	52
55	Degrees of Freedom of the MIMO Interference Channel With Cooperation and Cognition. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 4211-4220	2.8	45
54	Interference Alignment and the Degrees of Freedom of Wireless $S \times S$ Networks. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 3893-3908	2.8	247
53	Breaking Spectrum Gridlock With Cognitive Radios: An Information Theoretic Perspective. <i>Proceedings of the IEEE</i> , 2009 , 97, 894-914	14.3	1521

52	Ergodic interference alignment 2009 ,		72
51	Interference alignment at finite SNR: General message sets 2009 ,		8
50	Interference alignment via random codes and the capacity of a class of deterministic interference channels 2009 ,		1
49	On the beamforming design for efficient interference alignment. <i>IEEE Communications Letters</i> , 2009 , 13, 847-849	3.8	31
48	Cognitive radio: A path in the evolution of public wireless networks. <i>Journal of Communications and Networks</i> , 2009 , 11, 99-103	4.1	1
47	Degrees of Freedom Region of the MIMO $\mathbb{C} \times \mathbb{C}$ Channel. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 151-170	2.8	480
46	Interference Alignment and Degrees of Freedom of the $\mathbb{C} \times \mathbb{C}$ -User Interference Channel. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 3425-3441	2.8	1896
45	Can feedback, cooperation, relays and full duplex operation increase the degrees of freedom of wireless networks? 2008 ,		7
44	On the capacity of cognitive relay assisted Gaussian interference channel 2008 ,		70
43	Approaching the Capacity of Wireless Networks through Distributed Interference Alignment 2008 ,		381
42	Rethinking information theory for mobile ad hoc networks 2008 , 46, 94-101		127
41	Capacity of Symmetric K-User Gaussian Very Strong Interference Channels 2008 ,		57
40	A layered lattice coding scheme for a class of three user Gaussian interference channels 2008 ,		61
39	Degrees of Freedom for the 4 User SIMO Interference Channel 2008 ,		4
38	Degrees of freedom of the K user MIMO interference channel 2008 ,		34
37	Interference alignment on the deterministic channel and application to fully connected AWGN interference networks 2008 ,		20
36	How much spectrum sharing is optimal in cognitive radio networks?. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 4010-4018	9.6	50
35	Generalized degrees of freedom of the (noisy) X channel 2008 ,		1

34	Duality and stability regions of multi-rate broadcast and multiple access networks 2008 ,		4
33	Degrees of freedom of the MIMO interference channel with cooperation and cognition 2008 ,		1
32	Multiple Access Outerbounds and the Inseparability of Parallel Interference Channels 2008 ,		12
31	Degrees of freedom of wireless X networks 2008 ,		16
30	Optimal relay functionality for SNR maximization in memoryless relay networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 390-401	14.2	117
29	Capacity limits of cognitive radio with distributed and dynamic spectral activity. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 529-537	14.2	133
28	The Optimality of Transmit Beamforming: A Unified View. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 1558-1564	2.8	36
27	Degrees of Freedom for the MIMO Interference Channel. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 2637-2642	2.8	321
26	Duality and Rate Optimization for Multiple Access and Broadcast Channels With Amplify-and-Forward Relays. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 3350-3370	2.8	32
25	Modulation and Detection for Simple Receivers in Rapidly Time-Varying Channels. <i>IEEE Transactions on Communications</i> , 2007 , 55, 529-539	6.9	4
24	On the Optimality of Beamforming with Quantized Feedback. <i>IEEE Transactions on Communications</i> , 2007 , 55, 2288-2302	6.9	23
23	Degrees of Freedom of Wireless Networks - What a Difference Delay Makes. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2007 ,	0.3	14
22	Cognitive Radio Networks: How Much Spectrum Sharing is Optimal? 2007 ,		19
21	Degrees of Freedom of the MIMO X Channel 2007 ,		6
20	COGNITIVE RADIOS FOR DYNAMIC SPECTRUM ACCESS - The Throughput Potential of Cognitive Radio: A Theoretical Perspective 2007 , 45, 73-79		246
19	Optimal Distributed Beamforming in Relay Networks with Common Interference 2007 ,		9
18	Soft Sensing and Optimal Power Control for Cognitive Radio 2007 ,		37
17	On the capacity of the vector MAC with feedback. <i>IEEE Transactions on Information Theory</i> , 2006 , 52, 3259-3264	2.8	4

16	Capacity With Causal and Noncausal Side Information: A Unified View. <i>IEEE Transactions on Information Theory</i> , 2006 , 52, 5468-5474	2.8	83
15	Capacity Limits of Cognitive Radio with Distributed and Dynamic Spectral Activity 2006 ,		14
14	Degrees of Freedom for the MIMO Interference Channel 2006 ,		26
13	On the Capacity of the Cognitive Tracking Channel 2006 ,		23
12	The Throughput Potential of Cognitive Radio: A Theoretical Perspective 2006 ,		58
11	On the Capacity of Memoryless Relay Networks 2006 ,		27
10	Optimizing Soft Information in Relay Networks 2006 ,		5
9	Spreading-Hopping Tradeoff in Wideband Ad-hoc Communications 2006 ,		2
8	Isotropic fading vector broadcast Channels:The scalar upper bound and loss in degrees of freedom. <i>IEEE Transactions on Information Theory</i> , 2005 , 51, 848-857	2.8	99
7	Sum power iterative water-filling for multi-antenna Gaussian broadcast channels. <i>IEEE Transactions on Information Theory</i> , 2005 , 51, 1570-1580	2.8	364
6	Too much mobility limits the capacity of wireless ad hoc networks. <i>IEEE Transactions on Information Theory</i> , 2005 , 51, 3954-3965	2.8	27
5	Multiple-antenna capacity in correlated Rayleigh fading with channel covariance information. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 990-997	9.6	53
4	. <i>IEEE Transactions on Wireless Communications</i> , 2004 , 3, 1165-1175	9.6	260
3	PhantomNet: Exploring Optimal Multicellular Multiple Antenna Systems. <i>Eurasip Journal on Advances in Signal Processing</i> , 2004 , 2004, 1	1.9	37
2	Capacity limits of MIMO channels. <i>IEEE Journal on Selected Areas in Communications</i> , 2003 , 21, 684-702	14.2	1208
1	Adaptive multirate CDMA for uplink throughput maximization. <i>IEEE Transactions on Wireless Communications</i> , 2003 , 2, 218-228	9.6	58