

# Syed Ali Jafar

## List of Publications by Year in descending order

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239  
papers

20,128  
citations

36303

51  
h-index

20358

116  
g-index

239  
all docs

239  
docs citations

239  
times ranked

5120  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interference Alignment and Degrees of Freedom of the $K$ -User Interference Channel. IEEE Transactions on Information Theory, 2008, 54, 3425-3441.	2.4	2,551
2	Breaking Spectrum Gridlock With Cognitive Radios: An Information Theoretic Perspective. Proceedings of the IEEE, 2009, 97, 894-914.	21.3	2,036
3	Capacity limits of MIMO channels. IEEE Journal on Selected Areas in Communications, 2003, 21, 684-702.	14.0	1,814
4	A Distributed Numerical Approach to Interference Alignment and Applications to Wireless Interference Networks. IEEE Transactions on Information Theory, 2011, 57, 3309-3322.	2.4	833
5	On Feasibility of Interference Alignment in MIMO Interference Networks. IEEE Transactions on Signal Processing, 2010, 58, 4771-4782.	5.3	660
6	Degrees of Freedom Region of the MIMO $K$ -User $M$ imes $N$ MIMO Interference Channel. IEEE Transactions on Information Theory, 2008, 54, 151-170.	2.4	630
7	Approaching the Capacity of Wireless Networks through Distributed Interference Alignment. , 2008, , .		595
8	Sum Power Iterative Water-Filling for Multi-Antenna Gaussian Broadcast Channels. IEEE Transactions on Information Theory, 2005, 51, 1570-1580.	2.4	510
9	Degrees of Freedom of the $K$ User $M$ imes $N$ MIMO Interference Channel. IEEE Transactions on Information Theory, 2010, 56, 6040-6057.	2.4	425
10	Degrees of Freedom for the MIMO Interference Channel. IEEE Transactions on Information Theory, 2007, 53, 2637-2642.	2.4	420
11	Transmitter Optimization and Optimality of Beamforming for Multiple Antenna Systems. IEEE Transactions on Wireless Communications, 2004, 3, 1165-1175.	9.2	374
12	Interference Alignment and the Degrees of Freedom of Wireless $K$ Networks. IEEE Transactions on Information Theory, 2009, 55, 3893-3908.	2.4	335
13	COGNITIVE RADIOS FOR DYNAMIC SPECTRUM ACCESS - The Throughput Potential of Cognitive Radio: A Theoretical Perspective. , 2007, 45, 73-79.		318
14	The Capacity of Private Information Retrieval. IEEE Transactions on Information Theory, 2017, 63, 4075-4088.	2.4	304
15	Interference Alignment "A New Look at Signal Dimensions in a Communication Network. Foundations and Trends in Communications and Information Theory, 2010, 7, 1-134.	3.1	293
16	Aiming Perfectly in the Dark-Blind Interference Alignment Through Staggered Antenna Switching. IEEE Transactions on Signal Processing, 2011, 59, 2734-2744.	5.3	250
17	Topological Interference Management Through Index Coding. IEEE Transactions on Information Theory, 2014, 60, 529-568.	2.4	230
18	The Capacity of Robust Private Information Retrieval With Colluding Databases. IEEE Transactions on Information Theory, 2018, 64, 2361-2370.	2.4	192

#	ARTICLE	IF	CITATIONS
19	Interference Alignment With Asymmetric Complex Signaling” Settling the Häst-Madsen” Nosratinia Conjecture. IEEE Transactions on Information Theory, 2010, 56, 4552-4565.	2.4	190
20	Degrees of Freedom of Wireless Networks With Relays, Feedback, Cooperation, and Full Duplex Operation. IEEE Transactions on Information Theory, 2009, 55, 2334-2344.	2.4	182
21	Capacity limits of cognitive radio with distributed and dynamic spectral activity. IEEE Journal on Selected Areas in Communications, 2007, 25, 529-537.	14.0	177
22	Blind Interference Alignment. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 216-227.	10.8	177
23	The Throughput Potential of Cognitive Radio: A Theoretical Perspective. , 2006, , .		175
24	Optimal relay functionality for SNR maximization in memoryless relay networks. IEEE Journal on Selected Areas in Communications, 2007, 25, 390-401.	14.0	167
25	Rethinking information theory for mobile ad hoc networks. , 2008, 46, 94-101.		167
26	Aligned Interference Neutralization and the Degrees of Freedom of the $2 \times 2$ Interference Channel. IEEE Transactions on Information Theory, 2012, 58, 4381-4395.	2.4	163
27	On the Optimality of Treating Interference as Noise. IEEE Transactions on Information Theory, 2015, 61, 1753-1767.	2.4	151
28	Generalized Degrees of Freedom of the Symmetric Gaussian $K \times K$ User Interference Channel. IEEE Transactions on Information Theory, 2010, 56, 3297-3303.	2.4	148
29	Asymptotic Interference Alignment for Optimal Repair of MDS Codes in Distributed Storage. IEEE Transactions on Information Theory, 2013, 59, 2974-2987.	2.4	146
30	Retrospective Interference Alignment Over Interference Networks. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 228-240.	10.8	132
31	Isotropic Fading Vector Broadcast Channels: The Scalar Upper Bound and Loss in Degrees of Freedom. IEEE Transactions on Information Theory, 2005, 51, 848-857.	2.4	125
32	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
33	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
34	Feasibility Conditions for Interference Alignment. , 2009, , .		115
35	On the Synergistic Benefits of Alternating CSIT for the MISO Broadcast Channel. IEEE Transactions on Information Theory, 2013, 59, 4106-4128.	2.4	115
36	Capacity With Causal and Noncausal Side Information: A Unified View. IEEE Transactions on Information Theory, 2006, 52, 5468-5474.	2.4	114

#	ARTICLE	IF	CITATIONS
37	Optimal Use of Current and Outdated Channel State Information: Degrees of Freedom of the MISO BC with Mixed CSIT. IEEE Communications Letters, 2012, 16, 1084-1087.	4.1	113
38	Index Coding – An Interference Alignment Perspective. IEEE Transactions on Information Theory, 2014, 60, 5402-5432.	2.4	112
39	The Capacity of Symmetric Private Information Retrieval. IEEE Transactions on Information Theory, 2019, 65, 322-329.	2.4	112
40	Aligned Image Sets Under Channel Uncertainty: Settling Conjectures on the Collapse of Degrees of Freedom Under Finite Precision CSIT. IEEE Transactions on Information Theory, 2016, 62, 5603-5618.	2.4	111
41	Ergodic Interference Alignment. IEEE Transactions on Information Theory, 2012, 58, 6355-6371.	2.4	105
42	Adaptive multirate CDMA for uplink throughput maximization. IEEE Transactions on Wireless Communications, 2003, 2, 218-228.	9.2	102
43	On the capacity of cognitive relay assisted Gaussian interference channel. , 2008, , .		101
44	Ergodic interference alignment. , 2009, , .		90
45	Private Information Retrieval from MDS Coded Data With Colluding Servers: Settling a Conjecture by Freij-Hollanti et al. IEEE Transactions on Information Theory, 2018, 64, 1000-1022.	2.4	88
46	Blind Interference Alignment for Cellular Networks. IEEE Transactions on Signal Processing, 2015, 63, 41-56.	5.3	82
47	Multiple-antenna capacity in correlated Rayleigh fading with channel covariance information. IEEE Transactions on Wireless Communications, 2005, 4, 990-997.	9.2	78
48	Optimal Download Cost of Private Information Retrieval for Arbitrary Message Length. IEEE Transactions on Information Forensics and Security, 2017, 12, 2920-2932.	6.9	78
49	A layered lattice coding scheme for a class of three user Gaussian interference channels. , 2008, , .		77
50	Capacity of Symmetric K-User Gaussian Very Strong Interference Channels. , 2008, , .		75
51	Subspace Alignment Chains and the Degrees of Freedom of the Three-User MIMO Interference Channel. IEEE Transactions on Information Theory, 2014, 60, 2432-2479.	2.4	73
52	Exploiting Channel Correlations - Simple Interference Alignment Schemes with No CSIT. , 2010, , .		72
53	How much spectrum sharing is optimal in cognitive radio networks?. IEEE Transactions on Wireless Communications, 2008, 7, 4010-4018.	9.2	64
54	Parallel Gaussian Interference Channels Are Not Always Separable. IEEE Transactions on Information Theory, 2009, 55, 3983-3990.	2.4	62

#	ARTICLE	IF	CITATIONS
55	Index coding: An interference alignment perspective. , 2012, , .		60
56	Interference Alignment and the Generalized Degrees of Freedom of the $\mathbb{R}^2$ Channel. IEEE Transactions on Information Theory, 2012, 58, 5130-5150.	2.4	60
57	On the Degrees of Freedom of Finite State Compound Wireless Networks. IEEE Transactions on Information Theory, 2011, 57, 3286-3308.	2.4	59
58	Multiround Private Information Retrieval: Capacity and Storage Overhead. IEEE Transactions on Information Theory, 2018, 64, 5743-5754.	2.4	59
59	The Capacity of Private Computation. IEEE Transactions on Information Theory, 2019, 65, 3880-3897.	2.4	58
60	Degrees of Freedom of the MIMO Interference Channel With Cooperation and Cognition. IEEE Transactions on Information Theory, 2009, 55, 4211-4220.	2.4	57
61	Cross Subspace Alignment and the Asymptotic Capacity of $\mathbb{R}^2$ -Secure $\mathbb{R}^2$ -Private Information Retrieval. IEEE Transactions on Information Theory, 2019, 65, 5783-5798.	2.4	57
62	Soft Sensing and Optimal Power Control for Cognitive Radio. IEEE Transactions on Wireless Communications, 2010, 9, 3638-3649.	9.2	56
63	The Capacity of $\mathbb{R}^2$ -Private Information Retrieval With Private Side Information. IEEE Transactions on Information Theory, 2020, 66, 4761-4773.	2.4	55
64	PhantomNet: Exploring Optimal Multicellular Multiple Antenna Systems. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	51
65	Soft Sensing and Optimal Power Control for Cognitive Radio. , 2007, , .		51
66	Degrees of freedom of the K user MIMO interference channel. , 2008, , .		51
67	Degrees of Freedom Region of a Class of Multisource Gaussian Relay Networks. IEEE Transactions on Information Theory, 2011, 57, 3032-3044.	2.4	49
68	Network coding for multiple unicasts: An interference alignment approach. , 2010, , .		47
69	The Optimality of Transmit Beamforming: A Unified View. IEEE Transactions on Information Theory, 2007, 53, 1558-1564.	2.4	46
70	On the beamforming design for efficient interference alignment. IEEE Communications Letters, 2009, 13, 847-849.	4.1	45
71	The Capacity of Symmetric Private Information Retrieval. , 2016, , .		44
72	Duality and Rate Optimization for Multiple Access and Broadcast Channels With Amplify-and-Forward Relays. IEEE Transactions on Information Theory, 2007, 53, 3350-3370.	2.4	43

#	ARTICLE	IF	CITATIONS
73	MISO Broadcast Channels with Delayed Finite-Rate Feedback: Predict or Observe?. IEEE Transactions on Wireless Communications, 2012, 11, 1456-1467.	9.2	43
74	Topological interference management with alternating connectivity. , 2013, , .		43
75	On the Capacity of Memoryless Relay Networks. , 2006, , .		42
76	Too Much Mobility Limits the Capacity of Wireless Ad Hoc Networks. IEEE Transactions on Information Theory, 2005, 51, 3954-3965.	2.4	39
77	Interference alignment on the deterministic channel and application to fully connected AWGN interference networks. , 2008, , .		39
78	Degrees of freedom of wireless X networks. , 2008, , .		39
79	$X$ -Secure $T$ -Private Information Retrieval From MDS Coded Storage With Byzantine and Unresponsive Servers. IEEE Transactions on Information Theory, 2020, 66, 7427-7438.	2.4	38
80	The Effect of Noise Correlation in Amplify-and-Forward Relay Networks. IEEE Transactions on Information Theory, 2009, 55, 731-745.	2.4	37
81	Transmitter Cooperation Under Finite Precision CSIT: A GDoF Perspective. IEEE Transactions on Information Theory, 2017, 63, 6020-6030.	2.4	37
82	Degrees of Freedom for the MIMO Interference Channel. , 2006, , .		36
83	Network coding for three unicast sessions: Interference alignment approaches. , 2010, , .		36
84	Generalized Degrees of Freedom of the Symmetric $K$ User Interference Channel Under Finite Precision CSIT. IEEE Transactions on Information Theory, 2017, 63, 6561-6572.	2.4	32
85	Degrees of Freedom of Wireless Networks - What a Difference Delay Makes. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	31
86	Duality of MIMO multiple access channel and broadcast channel with amplify-and-forward relays. IEEE Transactions on Communications, 2010, 58, 211-217.	7.8	31
87	On the Optimality of Beamforming with Quantized Feedback. IEEE Transactions on Communications, 2007, 55, 2288-2302.	7.8	30
88	When Alamouti codes meet interference alignment: Transmission schemes for two-user X channel. , 2011, , .		29
89	Retrospective interference alignment. , 2011, , .		29
90	On the Optimality of Treating Interference as Noise: General Message Sets. IEEE Transactions on Information Theory, 2015, 61, 3722-3736.	2.4	29

#	ARTICLE	IF	CITATIONS
91	Blind interference alignment for private information retrieval. , 2016, , .		29
92	Cross Subspace Alignment Codes for Coded Distributed Batch Computation. IEEE Transactions on Information Theory, 2021, 67, 2821-2846.	2.4	29
93	Cognitive Radio Networks: How Much Spectrum Sharing is Optimal?. , 2007, , .		28
94	The Ergodic Capacity of Phase-Fading Interference Networks. IEEE Transactions on Information Theory, 2011, 57, 7685-7694.	2.4	28
95	Subspace alignment chains and the degrees of freedom of the three-user MIMO interference channel. , 2012, , .		27
96	The Capacity of Private Information Retrieval. , 2016, , .		27
97	On the Capacity of the Cognitive Tracking Channel. , 2006, , .		26
98	Capacity of a class of symmetric SIMO Gaussian interference channels within $O(1)$ . , 2009, , .		26
99	Private Retrieval, Computing, and Learning: Recent Progress and Future Challenges. IEEE Journal on Selected Areas in Communications, 2022, 40, 729-748.	14.0	26
100	Interference alignment through staggered antenna switching for MIMO BC with no CSIT. , 2010, , .		25
101	GDoF Region of the MISO BC: Bridging the Gap Between Finite Precision and Perfect CSIT. IEEE Transactions on Information Theory, 2018, 64, 7208-7217.	2.4	25
102	GCSA Codes With Noise Alignment for Secure Coded Multi-Party Batch Matrix Multiplication. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 306-316.	2.5	25
103	Genie chains and the degrees of freedom of the K-user MIMO interference channel. , 2012, , .		24
104	Topological interference management with multiple antennas. , 2014, , .		24
105	Index Coding Capacity: How Far Can One Go With Only Shannon Inequalities?. IEEE Transactions on Information Theory, 2015, 61, 3041-3055.	2.4	24
106	Degrees of freedom of MIMO X networks: Spatial scale invariance, one-sided decomposability and linear feasibility. , 2012, , .		23
107	Sum Capacity of a Class of Symmetric SIMO Gaussian Interference Channels Within $O(1)$ . IEEE Transactions on Information Theory, 2011, 57, 1932-1958.	2.4	22
108	Degrees of Freedom of MIMO X Networks: Spatial Scale Invariance and One-Sided Decomposability. IEEE Transactions on Information Theory, 2013, 59, 8377-8385.	2.4	21

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109	Degrees of Freedom of Rank-Deficient MIMO Interference Channels. IEEE Transactions on Information Theory, 2015, 61, 341-365.	2.4	21
110	Topological Interference Management for Hexagonal Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 2368-2376.	9.2	21
111	On the Optimality of Treating Interference as Noise for $K$ -User Parallel Gaussian Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 1911-1930.	2.4	21
112	The Asymptotic Capacity of Private Search. , 2018, , .		21
113	Capacity Limits of Cognitive Radio with Distributed and Dynamic Spectral Activity. , 2006, , .		20
114	Optimal Use of Antennas in Interference Networks: A Tradeoff between Rate, Diversity and Interference Alignment. , 2009, , .		20
115	On the Optimality of Treating Interference as Noise: Compound Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 4630-4653.	2.4	20
116	Cognitive Blind Interference Alignment for Macro-Femto Networks. IEEE Transactions on Signal Processing, 2017, 65, 5121-5136.	5.3	20
117	The capacity region of a class of deterministic Z channels. , 2009, , .		19
118	Optimality of Orthogonal Access for One-Dimensional Convex Cellular Networks. IEEE Communications Letters, 2013, 17, 1770-1773.	4.1	19
119	TDMA is Optimal for All-Unicast DoF Region of TIM if and only if Topology is Chordal Bipartite. IEEE Transactions on Information Theory, 2018, 64, 2065-2076.	2.4	19
120	On the Asymptotic Capacity of $K$ -Secure $T$ -Private Information Retrieval With Graph-Based Replicated Storage. IEEE Transactions on Information Theory, 2020, 66, 6280-6296.	2.4	19
121	Can feedback, cooperation, relays and full duplex operation increase the degrees of freedom of wireless networks?. , 2008, , .		18
122	Degrees of freedom of multi-source relay networks. , 2009, , .		18
123	Degrees of freedom of 2-user and 3-user rank-deficient MIMO interference channels. , 2012, , .		18
124	Multilevel topological interference management. , 2013, , .		18
125	GDoF of the MISO BC: Bridging the gap between finite precision CSIT and perfect CSIT. , 2016, , .		18
126	On the Two-User MISO Broadcast Channel With Alternating CSIT: A Topological Perspective. IEEE Transactions on Information Theory, 2015, 61, 4345-4366.	2.4	17



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127	The capacity of private information retrieval with colluding databases. , 2016, , .		17
128	On the Capacity of Secure Distributed Batch Matrix Multiplication. IEEE Transactions on Information Theory, 2021, 67, 7420-7437.	2.4	17
129	Multiple Access Outerbounds and the Inseparability of Parallel Interference Channels. , 2008, , .		16
130	Minimum Repair Bandwidth for Exact Regeneration in Distributed Storage. , 2010, , .		16
131	Optimality of Simple Layered Superposition Coding in the 3 User MISO BC With Finite Precision CSIT. IEEE Transactions on Information Theory, 2019, 65, 7181-7207.	2.4	16
132	The Asymptotic Capacity of Private Search. IEEE Transactions on Information Theory, 2020, 66, 4709-4721.	2.4	16
133	Interference alignment and the generalized degrees of freedom of the X channel. , 2009, , .		15
134	Elevated multiplexing and signal space partitioning in the 2 User MIMO IC with partial CSIT. , 2016, , .		15
135	Degrees of Freedom of the MIMO X Channel. , 2007, , .		14
136	Multiple Unicast Capacity of 2-Source 2-Sink Networks. , 2011, , .		14
137	On the feasibility of precoding-based network alignment for three unicast sessions. , 2012, , .		14
138	On the Symmetric 2-User Deterministic Interference Channel with Confidential Messages. , 2015, , .		14
139	Secure GDoF of $\mathbb{R}^2$ -User Gaussian Interference Channels: When Secrecy Incurs No Penalty. IEEE Communications Letters, 2015, 19, 1287-1290.	4.1	14
140	The Capacity of Private Information Retrieval with Disjoint Colluding Sets. , 2017, , .		14
141	Modulation and Detection for Simple Receivers in Rapidly Time-Varying Channels. IEEE Transactions on Communications, 2007, 55, 529-539.	7.8	13
142	On the secure degrees of freedom of wireless X networks. , 2008, , .		13
143	Aligned interference neutralization and the degrees of freedom of the $2 \times 2$ ; $2 \times 2$ ; $2 \times 2$ interference channel. , 2011, , .		13
144	Network Coherence Time Matters—Aligned Image Sets and the Degrees of Freedom of Interference Networks With Finite Precision CSIT and Perfect CSIR. IEEE Transactions on Information Theory, 2018, 64, 7780-7791.	2.4	13

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145	Toward an Extremal Network Theory—Robust GDoF Gain of Transmitter Cooperation Over TIN. IEEE Transactions on Information Theory, 2020, 66, 3827-3845.	2.4	13
146	X-Secure T-Private Federated Submodel Learning With Elastic Dropout Resilience. IEEE Transactions on Information Theory, 2022, 68, 5418-5439.	2.4	13
147	Interference alignment with asymmetric complex signaling. , 2009, , .		12
148	Interference alignment at finite SNR: General message sets. , 2009, , .		12
149	Sum-set inequalities from aligned image sets: Instruments for robust GDoF bounds. , 2017, , .		12
150	Degrees of freedom of a class of non-layered two unicast wireless networks. , 2011, , .		11
151	On the vector broadcast channel with alternating CSIT: A topological perspective. , 2014, , .		11
152	Optimal Distributed Beamforming in Relay Networks with Common Interference. , 2007, , .		10
153	Interference, cooperation and connectivity &#x2014; A degrees of freedom perspective. , 2011, , .		10
154	Settling conjectures on the collapse of degrees of freedom under finite precision CSIT. , 2014, , .		10
155	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. IEEE Transactions on Information Theory, 2020, 66, 6256-6279.	2.4	10
156	Distributed Interference Alignment for K-user Interference Channels via Deep Learning. , 2021, , .		10
157	Aiming Perfectly in the Dark - Blind Interference Alignment through Staggered Antenna Switching. , 2010, , .		9
158	Sum-capacity and the unique separability of the parallel Gaussian MAC-Z-BC network. , 2010, , .		9
159	On the optimality of treating interference as noise. , 2013, , .		9
160	Optimizing Soft Information in Relay Networks. , 2006, , .		8
161	Toward Full-Duplex Multihop Multiflow—A Study of Non-Layered Two Unicast Wireless Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 1738-1751.	14.0	8
162	On the Capacity of the Finite Field Counterparts of Wireless Interference Networks. IEEE Transactions on Information Theory, 2014, 60, 4101-4124.	2.4	8

#	ARTICLE	IF	CITATIONS
163	Precoding-Based Network Alignment for Three Unicast Sessions. IEEE Transactions on Information Theory, 2015, 61, 426-451.	2.4	8
164	$\mathbb{K}$ -User Symmetric MIMO Interference Channel Under Finite Precision CSIT: A GDoF Perspective. IEEE Transactions on Information Theory, 2019, 65, 1126-1136.	2.4	8
165	Multilevel Topological Interference Management: A TIM-TIN Perspective. IEEE Transactions on Communications, 2021, 69, 7350-7362.	7.8	8
166	Genie Chains: Exploring Outer Bounds on the Degrees of Freedom of MIMO Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 5573-5602.	2.4	7
167	Private information retrieval from MDS coded data with colluding servers: Settling a conjecture by Freij-Hollanti et al. , 2017, , .		7
168	Power Control by GDoF Duality of Treating Interference as Noise. IEEE Communications Letters, 2018, 22, 244-247.	4.1	7
169	Double Blind $T$ -Private Information Retrieval. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 428-440.	2.5	7
170	GCSA Codes with Noise Alignment for Secure Coded Multi-Party Batch Matrix Multiplication. , 2020, , .		7
171	Price of Precision in Coded Distributed Matrix Multiplication: A Dimensional Analysis. , 2021, , .		7
172	On asymptotic interference alignment: Plenary talk. , 2010, , .		6
173	On the separability of GDoF region for parallel Gaussian TIN optimal interference networks. , 2015, , .		6
174	Rank Matching for Multihop Multiflow. IEEE Transactions on Information Theory, 2015, 61, 4751-4764.	2.4	6
175	Aligned Image Sets and the Generalized Degrees of Freedom of Symmetric MIMO Interference Channel With Partial CSIT. IEEE Transactions on Information Theory, 2019, 65, 406-417.	2.4	6
176	Towards an Extremal Network Theory – Robust GDoF Gain of Transmitter Cooperation over TIN. , 2019, , .		6
177	Sum-Set Inequalities From Aligned Image Sets: Instruments for Robust GDoF Bounds. IEEE Transactions on Information Theory, 2020, 66, 6458-6487.	2.4	6
178	X-Secure T-Private Federated Submodel Learning. , 2021, , .		6
179	Approximate capacity of a class of multi-source Gaussian relay networks. , 2010, , .		5
180	Aligned interference neutralization and the degrees of freedom of the $2 \times 2$ interference channel with interfering relays. , 2011, , .		5

#	ARTICLE	IF	CITATIONS
181	Sum-GDoF of 2-User Interference Channel With Limited Cooperation Under Finite Precision CSIT. IEEE Transactions on Information Theory, 2020, 66, 6999-7021.	2.4	5
182	Secure GDoF of the Z-channel with Finite Precision CSIT: How Robust are Structured Codes?. , 2020, , .		5
183	On the capacity of the vector MAC with feedback. IEEE Transactions on Information Theory, 2006, 52, 3259-3264.	2.4	4
184	Degrees of Freedom for the 4 User SIMO Interference Channel. , 2008, , .		4
185	Generalized degrees of freedom of the (noisy) X channel. , 2008, , .		4
186	Duality and stability regions of multi-rate broadcast and multiple access networks. , 2008, , .		4
187	Towards the feasibility conditions for linear interference alignment with symbol extensions: A diversity constraint. , 2012, , .		4
188	On the optimality of treating interference as noise: General message sets. , 2014, , .		4
189	Transmitter Cooperation under Finite Precision CSIT: A GDoF Perspective. , 2015, , .		4
190	DoF region of the MIMO interference channel with partial CSIT. , 2017, , .		4
191	The Capacity of Private Computation. , 2018, , .		4
192	GDoF of Interference Channel with Limited Cooperation under Finite Precision CSIT. , 2019, , .		4
193	On the Capacity of Computation Broadcast. IEEE Transactions on Information Theory, 2020, 66, 3417-3434.	2.4	4
194	Flexible Constructions for Distributed Matrix Multiplication. , 2021, , .		4
195	On optimal ergodic interference alignment. , 2012, , .		3
196	The DoF of the asymmetric MIMO interference channel with square direct link channel matrices. , 2014, , .		3
197	Degrees of freedom of interference channel with rank-deficient transfer matrix. , 2014, , .		3
198	On the optimality of treating interference as noise for parallel deterministic interference networks. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
199	Replication-Based Outer Bounds: On the Optimality of “Half the Cake” for Rank-Deficient MIMO Interference Networks. IEEE Transactions on Information Theory, 2017, 63, 6607-6621.	2.4	3
200	On the Capacity of Locally Decodable Codes. IEEE Transactions on Information Theory, 2020, 66, 6566-6579.	2.4	3
201	Exploring Aligned-Images Bounds: Robust Secure GDoF of 3-to-1 Interference Channel. , 2021, , .		3
202	Spreading-Hopping Tradeoff in Wideband Ad-hoc Communications. , 2006, , .		2
203	On the Duality of MIMO MAC and BC with AF Relays. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	2
204	Asymptotic interference alignment for exact repair in distributed storage systems. , 2010, , .		2
205	Selection diversity for interference alignment systems. , 2013, , .		2
206	Two-user MISO broadcast channel: Synergistic benefits of alternating CSIT. , 2013, , .		2
207	Rank-matching for multihop multiflow. , 2014, , .		2
208	On the Symmetric 2-User Deterministic Interference Channel with Confidential Messages. , 2014, , .		2
209	On the optimality of zero-forcing and treating interference as noise for K-user MIMO interference channels. , 2016, , .		2
210	Degrees of Freedom Region of the $(M, N_1, N_2)$ MIMO Broadcast Channel with Partial CSIT: An Application of Sum-set Inequalities. , 2019, , .		2
211	DoF Region of the Decentralized MIMO Broadcast Channel”How many informed antennas do we need?. , 2020, , .		2
212	Robust Optimality of Secure TIN. IEEE Transactions on Wireless Communications, 2022, 21, 3071-3082.	9.2	2
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