Syed Ali Jafar

List of Publications by Year in descending order

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Version: 2024-02-01

36303 20358 20,128 239 51 116 citations h-index g-index papers 239 239 239 5120 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	On the Synergistic Benefits of Reconfigurable Antennas and Partial Channel Knowledge for the MIMO Interference Channel. IEEE Transactions on Communications, 2022, 70, 264-275.	7.8	1
2	Robust Optimality of Secure TIN. IEEE Transactions on Wireless Communications, 2022, 21, 3071-3082.	9.2	2
3	Canonical Conditions for <i>K</i> /2 Degrees of Freedom. IEEE Transactions on Information Theory, 2022, 68, 1716-1730.	2.4	1
4	Secure GDoF of the $\langle i \rangle Z \langle i \rangle$ -Channel With Finite Precision CSIT: How Robust are Structured Codes?. IEEE Transactions on Information Theory, 2022, 68, 2410-2428.	2.4	1
5	Private Retrieval, Computing, and Learning: Recent Progress and Future Challenges. IEEE Journal on Selected Areas in Communications, 2022, 40, 729-748.	14.0	26
6	Sum-GDoF of Symmetric Multi-Hop Interference Channel Under Finite Precision CSIT Using Aligned-Images Sum-Set Inequalities. IEEE Transactions on Information Theory, 2022, 68, 4470-4490.	2.4	2
7	<i>X</i> -Secure <i>T</i> -Private Federated Submodel Learning With Elastic Dropout Resilience. IEEE Transactions on Information Theory, 2022, 68, 5418-5439.	2.4	13
8	Privacy in Retrieval, Computing, and Learning. IEEE Journal on Selected Areas in Communications, 2022, 40, 725-728.	14.0	O
9	On the Capacity of Secure Distributed Batch Matrix Multiplication. IEEE Transactions on Information Theory, 2021, 67, 7420-7437.	2.4	17
10	Double Blind <i>T</i> -Private Information Retrieval. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 428-440.	2.5	7
11	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
12	Cross Subspace Alignment Codes for Coded Distributed Batch Computation. IEEE Transactions on Information Theory, 2021, 67, 2821-2846.	2.4	29
13	X-Secure T-Private Federated Submodel Learning. , 2021, , .		6
14	Exploring Aligned-Images Bounds: Robust Secure GDoF of 3-to-1 Interference Channel., 2021, , .		3
15	Distributed Interference Alignment for K-user Interference Channels via Deep Learning. , 2021, , .		10
16	Flexible Constructions for Distributed Matrix Multiplication. , 2021, , .		4
17	Multilevel Topological Interference Management: A TIM-TIN Perspective. IEEE Transactions on Communications, 2021, 69, 7350-7362.	7.8	8
18	Price of Precision in Coded Distributed Matrix Multiplication: A Dimensional Analysis., 2021,,.		7

#	Article	IF	CITATIONS
19	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
20	Sum-Set Inequalities From Aligned Image Sets: Instruments for Robust GDoF Bounds. IEEE Transactions on Information Theory, 2020, 66, 6458-6487.	2.4	6
21	Degrees of Freedom Region of the $(\langle i\rangle M\langle j\rangle, \langle i\rangle N\langle j\rangle \hat{a}, \langle i\rangle N\langle j\rangle \hat{a}, \rangle$ 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
22	<i>X</i> -Secure <i>T</i> -Private Information Retrieval From MDS Coded Storage With Byzantine and Unresponsive Servers. IEEE Transactions on Information Theory, 2020, 66, 7427-7438.	2.4	38
23	Secure GDoF of the Z-channel with Finite Precision CSIT: How Robust are Structured Codes?. , 2020, , .		5
24	On the Capacity of Locally Decodable Codes. IEEE Transactions on Information Theory, 2020, 66, 6566-6579.	2.4	3
25	DoF Region of the Decentralized MIMO Broadcast Channelâ€"How many informed antennas do we need?. , 2020, , .		2
26	On the Asymptotic Capacity of <i>X</i> -Secure <i>T</i> -Private Information Retrieval With Graph-Based Replicated Storage. IEEE Transactions on Information Theory, 2020, 66, 6280-6296.	2.4	19
27	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
28	On the Capacity of Computation Broadcast. IEEE Transactions on Information Theory, 2020, 66, 3417-3434.	2.4	4
29	The Asymptotic Capacity of Private Search. IEEE Transactions on Information Theory, 2020, 66, 4709-4721.	2.4	16
30	The Capacity of <i>T</i> -Private Information Retrieval With Private Side Information. IEEE Transactions on Information Theory, 2020, 66, 4761-4773.	2.4	55
31	GCSA Codes with Noise Alignment for Secure Coded Multi-Party Batch Matrix Multiplication., 2020,,.		7
32	The Capacity of Symmetric Private Information Retrieval. IEEE Transactions on Information Theory, 2019, 65, 322-329.	2.4	112
33	&ItInline-formula> &Ittex-math notation="LaTeX" >\$K\$ &It/tex-math> &Itlinline-formula> -User Symmetric &Itinline-formula> &Ittex-math notation="LaTeX" >\$Mimes N\$ &It/tex-math> &It/inline-formula> MIMO Interference Channel Under Finite Precision CSIT: A GDoF Perspective. IEEE Transactions on Information Theory, 2019, 65,	2.4	8
34	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
35	Cross Subspace Alignment and the Asymptotic Capacity of \$X\$ -Secure \$T\$ -Private Information Retrieval. IEEE Transactions on Information Theory, 2019, 65, 5783-5798.	2.4	57
36	The Capacity of Linear Computation Broadcast. , 2019, , .		0

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37	On the MIMO Interference Channel with Reconfigurable Antennas and Partial CSIT., 2019, , .		1
38	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
39	GDoF of Interference Channel with Limited Cooperation under Finite Precision CSIT. , 2019, , .		4
40	Degrees of Freedom Region of the (M, N1, N2) MIMO Broadcast Channel with Partial CSIT: An Application of Sum-set Inequalities. , 2019 , , .		2
41	Towards an Extremal Network Theory – Robust GDoF Gain of Transmitter Cooperation over TIN. , 2019, , .		6
42	The Capacity of Private Computation. IEEE Transactions on Information Theory, 2019, 65, 3880-3897.	2.4	58
43	Private Information Retrieval from MDS Coded Data With Colluding Servers: Settling a Conjecture by Freij-Hollanti <i>et al</i> IEEE Transactions on Information Theory, 2018, 64, 1000-1022.	2.4	88
44	The Capacity of Robust Private Information Retrieval With Colluding Databases. IEEE Transactions on Information Theory, 2018, 64, 2361-2370.	2.4	192
45	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
46	Power Control by GDoF Duality of Treating Interference as Noise. IEEE Communications Letters, 2018, 22, 244-247.	4.1	7
47	Multiround Private Information Retrieval: Capacity and Storage Overhead. IEEE Transactions on Information Theory, 2018, 64, 5743-5754.	2.4	59
48	The Asymptotic Capacity of Private Search. , 2018, , .		21
49	The Capacity of Private Computation. , 2018, , .		4
50	Network Coherence Time Mattersâ€"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
51	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
52	CSIT Thresholds for Collapse of Degrees of Freedom in Wireless Networks. , 2018, , .		1
53	The Capacity of Private Information Retrieval. IEEE Transactions on Information Theory, 2017, 63, 4075-4088.	2.4	304
54	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

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55	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
56	Cognitive Blind Interference Alignment for Macro-Femto Networks. IEEE Transactions on Signal Processing, 2017, 65, 5121-5136.	5.3	20
57	Transmitter Cooperation Under Finite Precision CSIT: A GDoF Perspective. IEEE Transactions on Information Theory, 2017, 63, 6020-6030.	2.4	37
58	DoF region of the MIMO interference channel with partial CSIT. , 2017, , .		4
59	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
60	Private information retrieval from MDS coded data with colluding servers: Settling a conjecture by Freij-Hollanti et al. , 2017 , , .		7
61	Sum-set inequalities from aligned image sets: Instruments for robust GDoF bounds. , 2017, , .		12
62	Aligned Image Sets and the GDoF of Symmetric MIMO Interference Channel with Partial CSIT., 2017,,.		0
63	The Capacity of Private Information Retrieval with Disjoint Colluding Sets. , 2017, , .		14
64	Network Coherence Time Matters - Interference Networks with Finite Precision CSIT and Perfect CSIR. , 2017, , .		0
65	The capacity of private information retrieval with colluding databases. , 2016, , .		17
66	The Capacity of Private Information Retrieval., 2016,,.		27
67	The Capacity of Symmetric Private Information Retrieval. , 2016, , .		44
68	Elevated multiplexing and signal space partitioning in the 2 User MIMO IC with partial CSIT., 2016,,.		15
69	Canonical conditions for K/2 degrees of freedom. , 2016, , .		1
70	On the optimality of zero-forcing and treating interference as noise for K-user MIMO interference channels. , 2016, , .		2
71	Generalized DoF of the symmetric K-user interference channel under finite precision CSIT. , 2016, , .		1
72	On the Optimality of Treating Interference as Noise: Compound Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 4630-4653.	2.4	20

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73	Blind interference alignment for private information retrieval. , 2016, , .		29
74	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
75	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
76	GDoF of the MISO BC: Bridging the gap between finite precision CSIT and perfect CSIT., 2016, , .		18
77	On the Optimality of Treating Interference as Noise for -User Parallel Gaussian Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 1911-1930.	2.4	21
78	On the Symmetric 2-User Deterministic Interference Channel with Confidential Messages. , 2015, , .		14
79	Transmitter Cooperation under Finite Precision CSIT: A GDoF Perspective. , 2015, , .		4
80	On the separability of GDoF region for parallel Gaussian TIN optimal interference networks. , 2015, , .		6
81	On the Optimality of "Half the Cake" for K-User Rank-Deficient Mk x Mk Interference Channel. , 2015, , .		1
82	On the Optimality of Treating Interference as Noise: General Message Sets. IEEE Transactions on Information Theory, 2015, 61, 3722-3736.	2.4	29
83	Index Coding Capacity: How Far Can One Go With Only Shannon Inequalities?. IEEE Transactions on Information Theory, 2015, 61, 3041-3055.	2.4	24
84	Precoding-Based Network Alignment for Three Unicast Sessions. IEEE Transactions on Information Theory, 2015, 61, 426-451.	2.4	8
85	Degrees of Freedom of Rank-Deficient MIMO Interference Channels. IEEE Transactions on Information Theory, 2015, 61, 341-365.	2.4	21
86	On the Optimality of Treating Interference as Noise. IEEE Transactions on Information Theory, 2015, 61, 1753-1767.	2.4	151
87	Topological Interference Management for Hexagonal Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 2368-2376.	9.2	21
88	On the optimality of treating interference as noise for K-user compound interference channels. , 2015, , .		1
89	Secure GDoF of <inline-formula> <tex-math notation="LaTeX">\$K\$</tex-math </inline-formula> -User Gaussian Interference Channels: When Secrecy Incurs No Penalty. IEEE Communications Letters, 2015, 19, 1287-1290.	4.1	14
90	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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91	Rank Matching for Multihop Multiflow. IEEE Transactions on Information Theory, 2015, 61, 4751-4764.	2.4	6
92	Blind Interference Alignment for Cellular Networks. IEEE Transactions on Signal Processing, 2015, 63, 41-56.	5.3	82
93	Settling conjectures on the collapse of degrees of freedom under finite precision CSIT. , 2014, , .		10
94	Rank-matching for multihop multiflow. , 2014, , .		2
95	The DoF of the asymmetric MIMO interference channel with square direct link channel matrices. , 2014, , .		3
96	Degrees of freedom of interference channel with rank-deficient transfer matrix. , 2014, , .		3
97	On the optimality of treating interference as noise: General message sets. , 2014, , .		4
98	On the vector broadcast channel with alternating CSIT: A topological perspective. , 2014, , .		11
99	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
100	Topological interference management with multiple antennas. , 2014, , .		24
100	Topological interference management with multiple antennas., 2014, , . Correction to "On the Optimality of Beamforming with Quantized Feedback" [Dec 07 2288-2302]. IEEE Transactions on Communications, 2014, 62, 1151-1151.	7.8	0
	Correction to "On the Optimality of Beamforming with Quantized Feedback" [Dec 07 2288-2302]. IEEE	7.8 2.4	
101	Correction to "On the Optimality of Beamforming with Quantized Feedback" [Dec 07 2288-2302]. IEEE Transactions on Communications, 2014, 62, 1151-1151. Subspace Alignment Chains and the Degrees of Freedom of the Three-User MIMO Interference Channel.		0
101	Correction to "On the Optimality of Beamforming with Quantized Feedback" [Dec 07 2288-2302]. IEEE Transactions on Communications, 2014, 62, 1151-1151. Subspace Alignment Chains and the Degrees of Freedom of the Three-User MIMO Interference Channel. IEEE Transactions on Information Theory, 2014, 60, 2432-2479. Topological Interference Management Through Index Coding. IEEE Transactions on Information	2.4	73
101 102 103	Correction to "On the Optimality of Beamforming with Quantized Feedback" [Dec 07 2288-2302]. IEEE Transactions on Communications, 2014, 62, 1151-1151. Subspace Alignment Chains and the Degrees of Freedom of the Three-User MIMO Interference Channel. IEEE Transactions on Information Theory, 2014, 60, 2432-2479. Topological Interference Management Through Index Coding. IEEE Transactions on Information Theory, 2014, 60, 529-568. On the optimality of treating interference as noise for parallel deterministic interference networks.	2.4	0 73 230
101 102 103	Correction to "On the Optimality of Beamforming with Quantized Feedback" [Dec 07 2288-2302]. IEEE Transactions on Communications, 2014, 62, 1151-1151. Subspace Alignment Chains and the Degrees of Freedom of the Three-User MIMO Interference Channel. IEEE Transactions on Information Theory, 2014, 60, 2432-2479. Topological Interference Management Through Index Coding. IEEE Transactions on Information Theory, 2014, 60, 529-568. On the optimality of treating interference as noise for parallel deterministic interference networks. , 2014, , . Index Codingâ€"An Interference Alignment Perspective. IEEE Transactions on Information Theory, 2014,	2.4	0 73 230
101 102 103 104	Correction to "On the Optimality of Beamforming with Quantized Feedback" [Dec 07 2288-2302]. IEEE Transactions on Communications, 2014, 62, 1151-1151. Subspace Alignment Chains and the Degrees of Freedom of the Three-User MIMO Interference Channel. IEEE Transactions on Information Theory, 2014, 60, 2432-2479. Topological Interference Management Through Index Coding. IEEE Transactions on Information Theory, 2014, 60, 529-568. On the optimality of treating interference as noise for parallel deterministic interference networks., 2014,, Index Codingâ€"An Interference Alignment Perspective. IEEE Transactions on Information Theory, 2014, 60, 5402-5432. On the Capacity of the Finite Field Counterparts of Wireless Interference Networks. IEEE Transactions	2.4	0 73 230 3 112

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109	Transmitter Cooperation under Finite Precision CSIT: A GDoF Perspective., 2014,,.		O
110	Optimality of Orthogonal Access for One-Dimensional Convex Cellular Networks. IEEE Communications Letters, 2013, 17, 1770-1773.	4.1	19
111	Multilevel topological interference management. , 2013, , .		18
112	Asymptotic Interference Alignment for Optimal Repair of MDS Codes in Distributed Storage. IEEE Transactions on Information Theory, 2013, 59, 2974-2987.	2.4	146
113	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
114	On the Synergistic Benefits of Alternating CSIT for the MISO Broadcast Channel. IEEE Transactions on Information Theory, 2013, 59, 4106-4128.	2.4	115
115	Selection diversity for interference alignment systems. , 2013, , .		2
116	Degrees of freedom region of three-user MIMO interference channels. , 2013, , .		0
117	Two-user MISO broadcast channel: Synergistic benefits of alternating CSIT. , 2013, , .		2
118	Topological interference management with alternating connectivity. , $2013, , .$		43
119	Precoding based network Alignment and the capacity of a finite field X channel. , 2013, , .		1
120	On the optimality of treating interference as noise. , 2013, , .		9
121	Wireless index coding., 2012,,.		1
122	Subspace alignment chains and the degrees of freedom of the three-user MIMO interference channel. , 2012, , .		27
123	On optimal ergodic interference alignment. , 2012, , .		3
124	Index coding: An interference alignment perspective. , 2012, , .		60
125	Degrees of freedom of 2-user and 3-user rank-deficient MIMO interference channels. , 2012, , .		18
126	Towards the feasibility conditions for linear interference alignment with symbol extensions: A diversity constraint. , 2012, , .		4

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127	On the feasibility of precoding-based network alignment for three unicast sessions. , 2012, , .		14
128	MISO Broadcast Channels with Delayed Finite-Rate Feedback: Predict or Observe?. IEEE Transactions on Wireless Communications, 2012, 11, 1456-1467.	9.2	43
129	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
130	Ergodic Interference Alignment. IEEE Transactions on Information Theory, 2012, 58, 6355-6371.	2.4	105
131	Degrees of freedom of MIMO X networks: Spatial scale invariance, one-sided decomposability and linear feasibility. , $2012, $, .		23
132	Genie chains and the degrees of freedom of the K-user MIMO interference channel. , 2012, , .		24
133	Blind Interference Alignment. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 216-227.	10.8	177
134	Retrospective Interference Alignment Over Interference Networks. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 228-240.	10.8	132
135	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
136	Aligned Interference Neutralization and the Degrees of Freedom of the 2\$,imes ,\$2\$,imes ,\$2 Interference Channel. IEEE Transactions on Information Theory, 2012, 58, 4381-4395.	2.4	163
137	Interference Alignment and the Generalized Degrees of Freedom of the \$X\$ Channel. IEEE Transactions on Information Theory, 2012, 58, 5130-5150.	2.4	60
138	The net benefit of delayed finite-rate feedback in the MISO broadcast channel. , 2011, , .		0
139	Tensor product based subspace interference alignment for network coding applications. , 2011, , .		1
140	Aligned interference neutralization and the degrees of freedom of the $2\tilde{A}-2\tilde{A}-2$ interference channel with interfering relays. , 2011 , , .		5
141	When Alamouti codes meet interference alignment: Transmission schemes for two-user X channel. , $2011, \ldots$		29
142	Aiming Perfectly in the Dark-Blind Interference Alignment Through Staggered Antenna Switching. IEEE Transactions on Signal Processing, 2011, 59, 2734-2744.	5.3	250
143	Interference, cooperation and connectivity & mp; #x2014; A degrees of freedom perspective., 2011,,.		10
144	Sum Capacity of a Class of Symmetric SIMO Gaussian Interference Channels Within $\$ {cal O}(1) $\$. IEEE Transactions on Information Theory, 2011, 57, 1932-1958.	2.4	22

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145	Introduction to the Special Issue on Interference Networks. IEEE Transactions on Information Theory, 2011, 57, 2545-2547.	2.4	1
146	Degrees of Freedom Region of a Class of Multisource Gaussian Relay Networks. IEEE Transactions on Information Theory, 2011, 57, 3032-3044.	2.4	49
147	On the Degrees of Freedom of Finite State Compound Wireless Networks. IEEE Transactions on Information Theory, 2011, 57, 3286-3308.	2.4	59
148	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
149	The Ergodic Capacity of Phase-Fading Interference Networks. IEEE Transactions on Information Theory, 2011, 57, 7685-7694.	2.4	28
150	Retrospective interference alignment., 2011,,.		29
151	Degrees of freedom of a class of non-layered two unicast wireless networks. , 2011, , .		11
152	Aligned interference neutralization and the degrees of freedom of the 2 ± 0007 ; 2 ± 0007 ; 2 interference channel. , 2011, , .		13
153	Multiple Unicast Capacity of 2-Source 2-Sink Networks. , 2011, , .		14
154	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
155	Generalized Degrees of Freedom of the Symmetric Gaussian \$K\$ User Interference Channel. IEEE Transactions on Information Theory, 2010, 56, 3297-3303.	2.4	148
156	Interference Alignment With Asymmetric Complex Signalingâ€"Settling the Høst-Madsenâ€"Nosratinia Conjecture. IEEE Transactions on Information Theory, 2010, 56, 4552-4565.	2.4	190
157	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
158	Aiming Perfectly in the Dark - Blind Interference Alignment through Staggered Antenna Switching. , 2010, , .		9
159	Interference alignment through staggered antenna switching for MIMO BC with no CSIT., 2010, , .		25
160	Network coding for multiple unicasts: An interference alignment approach. , 2010, , .		47
161	On asymptotic interference alignment: Plenary talk. , 2010, , .		6
162	Asymptotic interference alignment for exact repair in distributed storage systems. , 2010, , .		2

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163	Sum-capacity and the unique separability of the parallel Gaussian MAC-Z-BC network., 2010,,.		9
164	On Feasibility of Interference Alignment in MIMO Interference Networks. IEEE Transactions on Signal Processing, 2010, 58, 4771-4782.	5.3	660
165	Soft Sensing and Optimal Power Control for Cognitive Radio. IEEE Transactions on Wireless Communications, 2010, 9, 3638-3649.	9.2	56
166	Exploiting Channel Correlations - Simple Interference Alignment Schemes with No CSIT. , 2010, , .		72
167	Minimum Repair Bandwidth for Exact Regeneration in Distributed Storage. , 2010, , .		16
168	Approximate capacity of a class of multi-source Gaussian relay networks. , 2010, , .		5
169	Network coding for three unicast sessions: Interference alignment approaches. , 2010, , .		36
170	Interference Alignment $\hat{a} \in$ "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
171	Optimal Use of Antennas in Interference Networks: A Tradeoff between Rate, Diversity and Interference Alignment. , 2009, , .		20
172	Degrees of freedom of multi-source relay networks. , 2009, , .		18
173	Interference alignment and the generalized degrees of freedom of the X channel. , 2009, , .		15
174	The capacity region of a class of deterministic Z channels. , 2009, , .		19
175	Feasibility Conditions for Interference Alignment. , 2009, , .		115
176	Capacity of a class of symmetric SIMO Gaussian interference channels within O(1). , 2009, , .		26
177	Interference alignment with asymmetric complex signaling. , 2009, , .		12
178	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
179	The Effect of Noise Correlation in Amplify-and-Forward Relay Networks. IEEE Transactions on Information Theory, 2009, 55, 731-745.	2.4	37
180	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

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181	Parallel Gaussian Interference Channels Are Not Always Separable. IEEE Transactions on Information Theory, 2009, 55, 3983-3990.	2.4	62
182	Degrees of Freedom of the MIMO Interference Channel With Cooperation and Cognition. IEEE Transactions on Information Theory, 2009, 55, 4211-4220.	2.4	57
183	Interference Alignment and the Degrees of Freedom of Wireless \$X\$ Networks. IEEE Transactions on Information Theory, 2009, 55, 3893-3908.	2.4	335
184	Breaking Spectrum Gridlock With Cognitive Radios: An Information Theoretic Perspective. Proceedings of the IEEE, 2009, 97, 894-914.	21.3	2,036
185	Ergodic interference alignment. , 2009, , .		90
186	Interference alignment at finite SNR: General message sets., 2009,,.		12
187	Interference alignment via random codes and he capacity of a class of deterministic interference channels., 2009,,.		1
188	On the beamforming design for efficient interference alignment. IEEE Communications Letters, 2009, 13, 847-849.	4.1	45
189	Cognitive radio: A path in the evolution of public wireless networks. Journal of Communications and Networks, 2009, 11, 99-103.	2.6	1
190	Degrees of Freedom Region of the MIMO <formula formulatype="inline"> <tex>\$X\$</tex></formula> Channel. IEEE Transactions on Information Theory, 2008, 54, 151-170.	2.4	630
191	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
192	Can feedback, cooperation, relays and full duplex operation increase the degrees of freedom of wireless networks?. , 2008, , .		18
193	On the capacity of cognitive relay assisted Gaussian interference channel. , 2008, , .		101
194	Approaching the Capacity of Wireless Networks through Distributed Interference Alignment. , 2008, , .		595
195	Rethinking information theory for mobile ad hoc networks. , 2008, 46, 94-101.		167
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