Xiangyun Zhou

List of Publications by Year in descending order

177 papers	8,391 citations	61984 43 h-index	53230 85 g-index
178 all docs	178 docs citations	178 times ranked	4633 citing authors

#	Article	IF	Citations
1	Rethinking the Mathematical Framework and Optimality of Set-Membership Filtering. IEEE Transactions on Automatic Control, 2022, 67, 2544-2551.	5.7	3
2	Intelligent Reflecting Surface-Assisted Bistatic Backscatter Networks: Joint Beamforming and Reflection Design. IEEE Transactions on Green Communications and Networking, 2022, 6, 799-814.	5.5	11
3	Whittle Index-Based Scheduling Policy for Minimizing the Cost of Age of Information. IEEE Communications Letters, 2022, 26, 54-58.	4.1	12
4	Truncated Channel Inversion Power Control to Enable One-Way URLLC With Imperfect Channel Reciprocity. IEEE Transactions on Communications, 2022, 70, 2313-2327.	7.8	1
5	Splitting Receiver With Joint Envelope and Coherent Detection. IEEE Communications Letters, 2022, 26, 1328-1332.	4.1	2
6	Deep Learning Based Passive Beamforming for IRS-Assisted Monostatic Backscatter Systems. , 2022, , .		4
7	Design of Intelligent Reflecting Surface (IRS)-Boosted Ambient Backscatter Systems. IEEE Access, 2022, 10, 65000-65010.	4.2	7
8	Finite Blocklength Entropy-Achieving Coding for Linear System Stabilization. IEEE Transactions on Automatic Control, 2021, 66, 153-167.	5.7	2
9	Covert Wireless Communications Under Quasi-Static Fading With Channel Uncertainty. IEEE Transactions on Information Forensics and Security, 2021, 16, 1104-1116.	6.9	50
10	Two-Tier Communication for UAV-Enabled Massive IoT Systems: Performance Analysis and Joint Design of Trajectory and Resource Allocation. IEEE Journal on Selected Areas in Communications, 2021, 39, 1132-1146.	14.0	24
11	IRS-Assisted Ambient Backscatter Communications Utilizing Deep Reinforcement Learning. IEEE Wireless Communications Letters, 2021, 10, 2374-2378.	5.0	23
12	Coverage Analysis for 3D Terahertz Communication Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 1817-1832.	14.0	33
13	Power Beacon Placement for Maximizing Guaranteed Coverage in Bistatic Backscatter Networks. IEEE Transactions on Communications, 2021, 69, 7895-7909.	7.8	4
14	Transfer Learning Based Detection for Intelligent Reflecting Surface Aided Communications. , 2021, , .		2
15	Reconfigurable Intelligent Surface Assisted Spatial Modulation for Symbiotic Radio. IEEE Transactions on Vehicular Technology, 2021, 70, 12918-12931.	6.3	21
16	Age of Information Analysis of Multi-user Mobile Edge Computing Systems. , 2021, , .		6
17	A Retrodirective Wireless Power Transfer Scheme for Ambient Backscatter Systems. , 2020, , .		2
18	Design of Ambient Backscatter Training for Wireless Power Transfer. IEEE Transactions on Wireless Communications, 2020, 19, 6316-6330.	9.2	11

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19	Age of Information of Multi-Source Systems with Packet Management. , 2020, , .		6
20	Impact of UAV Trajectory on NOMA-Assisted Cellular-Connected UAV Networks. , 2020, , .		2
21	Uplink NOMA for Cellular-Connected UAV: Impact of UAV Trajectories and Altitude. IEEE Transactions on Communications, 2020, 68, 5242-5258.	7.8	35
22	On the Performance of Splitting Receiver With Joint Coherent and Non-Coherent Processing. IEEE Transactions on Signal Processing, 2020, 68, 917-930.	5.3	6
23	Performance Characterization of Relaying Using Backscatter Devices. IEEE Open Journal of the Communications Society, 2020, 1, 819-834.	6.9	8
24	Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. IEEE Systems Journal, 2020, 14, 4131-4142.	4.6	10
25	Sequencing and Scheduling for Multi-User Machine-Type Communication. IEEE Transactions on Communications, 2020, 68, 2459-2473.	7.8	8
26	Intelligent Reflecting Surface-Aided Backscatter Communications. , 2020, , .		23
27	Proportionally-Fair Sequencing and Scheduling for Machine-Type Communication. , 2020, , .		0
28	Wireless Power Transfer via mmWave Power Beacons With Directional Beamforming. IEEE Wireless Communications Letters, 2019, 8, 17-20.	5.0	24
29	Covert Communication in Backscatter Radio. , 2019, , .		18
30	Is Gaussian Signalling Optimal for Covert Communications?. , 2019, , .		6
31	Gaussian Signalling for Covert Communications. IEEE Transactions on Wireless Communications, 2019, 18, 3542-3553.	9.2	103
32	Next generation backscatter communication: systems, techniques, and applications. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	85
33	Monostatic Backscatter System With Multi-Tag to Reader Communication. IEEE Transactions on Vehicular Technology, 2019, 68, 10320-10324.	6.3	17
34	Cooperative Localization in Mobile Wireless Networks With Asynchronous Measurements and Communications. IEEE Access, 2019, 7, 125442-125462.	4.2	1
35	Low Probability of Detection Communication: Opportunities and Challenges. IEEE Wireless Communications, 2019, 26, 19-25.	9.0	186
36	Covert Wireless Communication in Presence of a Multi-Antenna Adversary and Delay Constraints. IEEE Transactions on Vehicular Technology, 2019, 68, 12432-12436.	6.3	40

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37	Covert Wireless Communications With Channel Inversion Power Control in Rayleigh Fading. IEEE Transactions on Vehicular Technology, 2019, 68, 12135-12149.	6.3	56
38	Optimal Online Transmission Policy for Energy-Constrained Wireless-Powered Communication Networks. , 2019, , .		0
39	Decode-and-Forward Relaying Using a Backscatter Device: Power Allocation and BER Analysis. , 2019, , .		4
40	Wireless Powered Machine-Type Communication: Energy Minimization via Compressed Transmission. , 2019, , .		0
41	One-Way URLLC with Truncated Channel Inversion Power Control. , 2019, , .		3
42	Online Policies for Throughput Maximization of Energy-Constrained Wireless-Powered Communication Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1463-1476.	9.2	13
43	Delay-Intolerant Covert Communications With Either Fixed or Random Transmit Power. IEEE Transactions on Information Forensics and Security, 2019, 14, 129-140.	6.9	151
44	Design of Non-Orthogonal Multiple Access Enhanced Backscatter Communication. IEEE Transactions on Wireless Communications, 2018, 17, 6837-6852.	9.2	75
45	A Lifetime Maximization Scheme for a Sensor Based MTC Device. , 2018, , .		2
46	Achieving Covert Wireless Communications Using a Full-Duplex Receiver. IEEE Transactions on Wireless Communications, 2018, 17, 8517-8530.	9.2	155
47	Optimal Compression and Transmission Rate Control for Node-Lifetime Maximization. IEEE Transactions on Wireless Communications, 2018, 17, 7774-7788.	9.2	9
48	Backscatter communications with NOMA (Invited Paper). , 2018, , .		6
49	Covert Communication Achieved by a Greedy Relay in Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 4766-4779.	9.2	129
50	Secret Channel Training to Enhance Physical Layer Security With a Full-Duplex Receiver. IEEE Transactions on Information Forensics and Security, 2018, 13, 2788-2800.	6.9	45
51	Covert Communications with a Full-Duplex Receiver over Wireless Fading Channels. , 2018, , .		48
52	Covert Wireless Communication With a Poisson Field of Interferers. IEEE Transactions on Wireless Communications, 2018, 17, 6005-6017.	9.2	84
53	Error Bounds for Uplink and Downlink 3D Localization in 5G Millimeter Wave Systems. IEEE Transactions on Wireless Communications, 2018, 17, 4939-4954.	9.2	142
54	Enhancing CRDSA With Transmit Power Diversity for Machine-Type Communication. IEEE Transactions on Vehicular Technology, 2018, 67, 7790-7794.	6.3	23

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55	Performance of location and orientation estimation in 5G mmWave systems: Uplink vs downlink. , 2018, , .		15
56	Wireless Powered Sensor Networks. , 2018, , 241-270.		0
57	Secure Transmission in Linear Multihop Relaying Networks. IEEE Transactions on Wireless Communications, 2018, 17, 822-834.	9.2	19
58	Finite-Horizon Throughput Region for Wireless Multi-User Interference Channels. IEEE Transactions on Wireless Communications, 2017, 16, 634-646.	9.2	2
59	Full-Duplex Backscatter Interference Networks Based on Time-Hopping Spread Spectrum. IEEE Transactions on Wireless Communications, 2017, 16, 4361-4377.	9.2	53
60	A Novel Receiver Design with Joint Coherent and Non-Coherent Processing. IEEE Transactions on Communications, 2017, , 1-1.	7.8	11
61	Massive Machine Type Communication With Data Aggregation and Resource Scheduling. IEEE Transactions on Communications, 2017, 65, 4012-4026.	7.8	55
62	A New Metric for Measuring the Security of an Environment: The Secrecy Pressure. IEEE Transactions on Wireless Communications, 2017, 16, 3416-3430.	9.2	28
63	On Covert Communication With Noise Uncertainty. IEEE Communications Letters, 2017, 21, 941-944.	4.1	185
64	Channel training design in full-duplex wiretap channels to enhance physical layer security. , 2017, , .		10
65	Event-Trigger Based Robust-Optimal Control for Energy Harvesting Transmitter. IEEE Transactions on Wireless Communications, 2017, 16, 744-756.	9.2	8
66	Artificial-Noise-Aided Secure Transmission Scheme With Limited Training and Feedback Overhead. IEEE Transactions on Wireless Communications, 2017, 16, 193-205.	9.2	40
67	Device-to-Device Communication Underlaying a Finite Cellular Network Region. IEEE Transactions on Wireless Communications, 2017, 16, 332-347.	9.2	30
68	Covert Communication in Wireless Relay Networks. , 2017, , .		32
69	Machine-Type Communication with Random Access and Data Aggregation: A Stochastic Geometry Approach. , 2017, , .		1
70	Time-Hopping Multiple-Access for Backscatter Interference Networks. , 2017, , .		3
71	Covert Communication in Fading Channels under Channel Uncertainty. , 2017, , .		116
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73	Underlay D2D Communication in a Finite Cellular Network with Exclusion Zone. , 2017, , .		0
74	Base Station Preference Association with Network Dynamics. , 2017, , .		0
75	Mode Selection, Resource Allocation, and Power Control for D2D-Enabled Two-Tier Cellular Network. IEEE Transactions on Communications, 2016, 64, 3534-3547.	7.8	81
76	MIMO Y channel with imperfect CSI: Impact of training and feedback overhead. , 2016, , .		0
77	Random-Phase Beamforming for Initial Access in Millimeter-Wave Cellular Networks. , 2016, , .		6
78	Effects of load dependent dynamic biasing and association order for cell range expansion. , 2016, , .		2
79	A Proposed Network Balance Index for Heterogeneous Networks. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	1
80	Secure beamforming transmission with limited training and feedback. , 2016, , .		0
81	A Versatile Secure Transmission Strategy in the Presence of Outdated CSI. IEEE Transactions on Vehicular Technology, 2016, 65, 10084-10090.	6.3	10
82	Protecting cognitive radio networks against poisson distributed eavesdroppers. , 2016, , .		3
83	On Secrecy Metrics for Physical Layer Security Over Quasi-Static Fading Channels. IEEE Transactions on Wireless Communications, 2016, 15, 6913-6924.	9.2	53
84	Regularized Channel Inversion for Simultaneous Confidential Broadcasting and Power Transfer: A Large System Analysis. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1404-1416.	10.8	6
85	Artificial-Noise-Aided Secure Transmission in Wiretap Channels With Transmitter-Side Correlation. IEEE Transactions on Wireless Communications, 2016, 15, 8286-8297.	9.2	57
86	SWIPT with practical modulation and RF energy harvesting sensitivity. , 2016, , .		35
87	Correlation-Based Power Allocation for Secure Transmission with Artificial Noise. , 2016, , .		0
88	Offline Delay-Optimal Transmission for Energy Harvesting Nodes. , 2016, , .		1
89	Rate-Achieving Policy in Finite-Horizon Throughput Region for Multi-User Interference Channels. , 2016, , .		0
90	Graphical generalization of power control in multiuser interference channels. , 2016, , .		0

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91	Secure Transmission Design for Cognitive Radio Networks With Poisson Distributed Eavesdroppers. IEEE Transactions on Information Forensics and Security, 2016, 11, 373-387.	6.9	75
92	Energy Harvesting Wireless Sensor Networks: Delay Analysis Considering Energy Costs of Sensing and Transmission. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	47
93	On–Off-Based Secure Transmission Design With Outdated Channel State Information. IEEE Transactions on Vehicular Technology, 2016, 65, 6075-6088.	6.3	42
94	A Novel TOA-Based Mobile Localization Technique Under Mixed LOS/NLOS Conditions for Cellular Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 8841-8853.	6.3	51
95	Secure Routing in Multihop Wireless Ad-Hoc Networks With Decode-and-Forward Relaying. IEEE Transactions on Communications, 2016, 64, 753-764.	7.8	63
96	Secure Communication With a Wireless-Powered Friendly Jammer. IEEE Transactions on Wireless Communications, 2016, 15, 401-415.	9.2	117
97	Joint Resource Optimization for Multicell Networks With Wireless Energy Harvesting Relays. IEEE Transactions on Vehicular Technology, 2016, 65, 6168-6183.	6.3	101
98	Performance of Wireless-Powered Sensor Transmission Considering Energy Cost of Sensing. , 2015, , .		3
99	Interference nulling for offloaded heterogeneous users using macro generalized inverse precoder. , 2015, , .		0
100	Confidential broadcasting via coordinated beamforming in two-cell networks. , 2015, , .		1
101	Base Station Cooperation for Confidential Broadcasting in Multi-Cell Networks. IEEE Transactions on Wireless Communications, 2015, 14, 5287-5299.	9.2	22
102	Cutting the last wires for mobile communications by microwave power transfer. , 2015, 53, 86-93.		267
103	Achieving Secrecy Without Knowing the Number of Eavesdropper Antennas. IEEE Transactions on Wireless Communications, 2015, 14, 7030-7043.	9.2	10
104	Wireless-powered friendly jammer for physical layer security. , 2015, , .		2
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106	Performance Analysis of Arbitrarily-Shaped Underlay Cognitive Networks: Effects of Secondary User Activity Protocols. IEEE Transactions on Communications, 2015, 63, 376-389.	7.8	21
107	Interference Prediction in Mobile Ad Hoc Networks With a General Mobility Model. IEEE Transactions on Wireless Communications, 2015, 14, 4277-4290.	9.2	39
108	Wireless-Powered Relays in Cooperative Communications: Time-Switching Relaying Protocols and Throughput Analysis. IEEE Transactions on Communications, 2015, 63, 1607-1622.	7.8	247

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109	Outage Probability of Ad Hoc Networks With Wireless Information and Power Transfer. IEEE Wireless Communications Letters, 2015, 4, 409-412.	5.0	33
110	Interference Suppression Using Generalized Inverse Precoder for Downlink Heterogeneous Networks. IEEE Wireless Communications Letters, 2015, 4, 325-328.	5.0	5
111	Buffer-aided relay selection and secondary power minimization for two-way cognitive radio networks. , 2015, , .		2
112	Block-wise time-switching energy harvesting protocol for wireless-powered AF relays. , 2015, , .		8
113	Sum throughput maximization for heterogeneous multicell networks with RF-powered relays. , 2015, , .		4
114	Call completion probability in heterogeneous networks with energy harvesting base stations. , 2015, , .		3
115	Training-Based SWIPT: Optimal Power Splitting at the Receiver. IEEE Transactions on Vehicular Technology, 2015, 64, 4377-4382.	6.3	45
116	Throughput and ergodic capacity of wireless energy harvesting based DF relaying network. , 2014, , .		195
117	New physical layer security measures for wireless transmissions over fading channels. , 2014, , .		5
118	Wireless-powered cooperative communications via a hybrid relay. , 2014, , .		24
119	Characterization of aggregate interference in arbitrarily-shaped underlay cognitive networks. , 2014, , .		5
120	Performance Analysis of Asynchronous ABSF Configuration in Large-Scale Femtocell Networks. , 2014, , .		0
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122	Artificial-noise-aided secure multi-antenna transmission in slow fading channels with limited feedback. , 2014, , .		6
123	On the placement of RF energy harvesting node in wireless networks with secrecy considerations. , 2014, , .		7
124	Coverage and Throughput Analysis with a Non-Uniform Small Cell Deployment. IEEE Transactions on Wireless Communications, 2014, 13, 2047-2059.	9.2	60
125	Outage Probability in Arbitrarily-Shaped Finite Wireless Networks. IEEE Transactions on Communications, 2014, 62, 699-712.	7.8	68
126	A Semiblind Two-Way Training Method for Discriminatory Channel Estimation in MIMO Systems. IEEE Transactions on Communications, 2014, 62, 2400-2410.	7.8	37

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127	Buffer-aided relay selection with interference cancellation and secondary power minimization for cognitive radio networks. , 2014, , .		11
128	When Does Relay Transmission Give a More Secure Connection in Wireless Ad Hoc Networks?. IEEE Transactions on Information Forensics and Security, 2014, 9, 624-632.	6.9	48
129	On the Physical Layer Security of Backscatter Wireless Systems. IEEE Transactions on Wireless Communications, 2014, 13, 3442-3451.	9.2	84
130	Performance of Wireless-Powered Sensor Transmission Considering Energy Cost of Sensing. , 2014, , .		1
131	Jamming Energy Allocation in Training-Based Multiple Access Systems. IEEE Communications Letters, 2013, 17, 1140-1143.	4.1	7
132	On the jamming power allocation and signal design in DF relay networks. , 2013, , .		4
133	Relaying Protocols for Wireless Energy Harvesting and Information Processing. IEEE Transactions on Wireless Communications, 2013, 12, 3622-3636.	9.2	1,617
134	On the Design of Artificial-Noise-Aided Secure Multi-Antenna Transmission in Slow Fading Channels. IEEE Transactions on Vehicular Technology, 2013, 62, 2170-2181.	6.3	251
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136	On Cooperative and Malicious Behaviors in Multirelay Fading Channels. IEEE Transactions on Information Forensics and Security, 2013, 8, 1126-1139.	6.9	12
137	Enhancing Secrecy With Multi-Antenna Transmission in Wireless Ad Hoc Networks. IEEE Transactions on Information Forensics and Security, 2013, 8, 1802-1814.	6.9	95
138	Physical Layer Security in Cellular Networks: A Stochastic Geometry Approach. IEEE Transactions on Wireless Communications, 2013, 12, 2776-2787.	9.2	92
139	Secure On-Off Transmission Design With Channel Estimation Errors. IEEE Transactions on Information Forensics and Security, 2013, 8, 1923-1936.	6.9	78
140	Enhancing secrecy with sectorized transmission in decentralized wireless networks. , 2013, , .		4
141	Two-Way Training for Discriminatory Channel Estimation in Wireless MIMO Systems. IEEE Transactions on Signal Processing, 2013, 61, 2724-2738.	5.3	57
142	Impact of channel estimation error on secure transmission design. , 2013, , .		0
143	Analytical evaluation of coverage-oriented femtocell network deployment. , 2013, , .		16
144	Relaying energy allocation in training-based amplify and forward relay communications. , 2012, , .		1

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145	Tree Formation with Physical Layer Security Considerations in Wireless Multi-Hop Networks. IEEE Transactions on Wireless Communications, 2012, 11, 3980-3991.	9.2	46
146	Pilot Contamination for Active Eavesdropping. IEEE Transactions on Wireless Communications, 2012, 11, 903-907.	9.2	235
147	Opportunistic interference cancelation and user selection in cognitive multiple access network. , 2012, , .		7
148	Cooperative jamming for secrecy in decentralized wireless networks. , 2012, , .		37
149	Outage probability of wireless ad hoc networks with cooperative relaying. , 2012, , .		15
150	Hierarchical Coalition Formation Game of Relay Transmission in IEEE 802.16m. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 490-505.	0.3	0
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152	Secure Wireless Network Connectivity with Multi-Antenna Transmission. IEEE Transactions on Wireless Communications, 2011, 10, 425-430.	9.2	100
153	Optimal flashy transmission in training-based MISO TDD systems. , 2011, , .		0
154	Two-way discriminatory channel estimation for non-reciprocal wireless MIMO channels. , 2011, , .		1
155	Benefits of multiple transmit antennas in secure communication: A secrecy outage viewpoint. , 2011, , .		7
156	Cognitive Multiple Access Network with Outage Margin in the Primary System. IEEE Transactions on Wireless Communications, 2011, 10, 3343-3353.	9.2	39
157	On the Throughput Cost of Physical Layer Security in Decentralized Wireless Networks. IEEE Transactions on Wireless Communications, 2011, 10, 2764-2775.	9.2	202
158	Rethinking the Secrecy Outage Formulation: A Secure Transmission Design Perspective. IEEE Communications Letters, 2011, 15, 302-304.	4.1	222
159	Optimizing Training-Based Transmission Against Smart Jamming. IEEE Transactions on Vehicular Technology, 2011, 60, 2644-2655.	6.3	21
160	How Much Training Is Needed against Smart Jamming?. , 2011, , .		1
161	Secrecy transmission capacity of decentralized wireless networks. , 2011, , .		2
162	Two-Way Training Design for Discriminatory Channel Estimation in Wireless MIMO Systems. , 2011, , .		5

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163	Secure Transmission With Artificial Noise Over Fading Channels: Achievable Rate and Optimal Power Allocation. IEEE Transactions on Vehicular Technology, 2010, 59, 3831-3842.	6.3	498
164	Effect of Vehicle Mobility on Connectivity of Vehicular Ad Hoc Networks. , 2010, , .		43
165	Two-way training: optimal power allocation for pilot and data transmission. IEEE Transactions on Wireless Communications, 2010, 9, 564-569.	9.2	31
166	Optimizing Training-Based MIMO Systems: How Much Time is Needed for Actual Transmission?. , 2010, , .		1
167	Optimizing Training-Based Transmission for Correlated MIMO Systems with Hybrid Feedback. , 2009, , .		0
168	Kalman filter-based channel estimation for amplify and forward relay communications. , 2009, , .		20
169	Connectivity Analysis of Wireless Ad Hoc Networks With Beamforming. IEEE Transactions on Vehicular Technology, 2009, 58, 5247-5257.	6.3	31
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171	Design Guidelines for Training-Based MIMO Systems With Feedback. IEEE Transactions on Signal Processing, 2009, 57, 4014-4026.	5.3	15
172	Optimizing antenna configuration for MIMO systems with imperfect channel estimation. IEEE Transactions on Wireless Communications, 2009, 8, 1177-1181.	9.2	6
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174	Connectivity of ad hoc networks: Is fading good or bad?. , 2008, , .		8
175	Connectivity of wireless ad hoc networks with random beamforming: An analytical approach. , 2008, , .		5
176	Capacity of MIMO systems: Impact of spatial correlation with channel estimation errors. , 2008, , .		2
177	Iterative Channel Estimation for IDMA Systems in Time-Varying Channels. , 2007, , .		11