

# Xiaochen Xia

## List of Publications by Year in descending order

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56  
papers

1,242  
citations

430874

18  
h-index

377865

34  
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56  
all docs

56  
docs citations

56  
times ranked

1054  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hardware Impairments Aware Transceiver for Full-Duplex Massive MIMO Relaying. IEEE Transactions on Signal Processing, 2015, 63, 6565-6580.	5.3	138
2	Hybrid Time-Switching and Power Splitting SWIPT for Full-Duplex Massive MIMO Systems: A Beam-Domain Approach. IEEE Transactions on Vehicular Technology, 2018, 67, 7257-7274.	6.3	107
3	A 5G-Enabling Technology: Benefits, Feasibility, and Limitations of In-Band Full-Duplex mMIMO. IEEE Vehicular Technology Magazine, 2018, 13, 81-90.	3.4	90
4	Multi-Pair Two-Way Massive MIMO AF Full-Duplex Relaying With Imperfect CSI Over Ricean Fading Channels. IEEE Access, 2016, 4, 4933-4945.	4.2	87
5	Beam-Domain Full-Duplex Massive MIMO: Realizing Co-time Co-frequency Uplink and Downlink Transmission in the Cellular System. IEEE Transactions on Vehicular Technology, 2017, 66, 8845-8862.	6.3	86
6	Full-Duplex Massive MIMO AF Relaying With Semiblind Gain Control. IEEE Transactions on Vehicular Technology, 2016, 65, 5797-5804.	6.3	76
7	Spatial Sparsity Based Secure Transmission Strategy for Massive MIMO Systems Against Simultaneous Jamming and Eavesdropping. IEEE Transactions on Information Forensics and Security, 2020, 15, 3760-3774.	6.9	51
8	Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. IEEE Systems Journal, 2020, 14, 93-104.	4.6	46
9	Beam-Domain Anti-Jamming Transmission for Downlink Massive MIMO Systems: A Stackelberg Game Perspective. IEEE Transactions on Information Forensics and Security, 2021, 16, 2727-2742.	6.9	43
10	Beam-Domain SWIPT for mMIMO System With Nonlinear Energy Harvesting Legitimate Terminals and a Non-Cooperative Terminal. IEEE Transactions on Green Communications and Networking, 2019, 3, 703-720.	5.5	42
11	Downlink Power Optimization for Cell-Free Massive MIMO Over Spatially Correlated Rayleigh Fading Channels. IEEE Access, 2020, 8, 56214-56227.	4.2	36
12	Three-Dimension Massive MIMO for Air-to-Ground Transmission: Location-Assisted Precoding and Impact of AoD Uncertainty. IEEE Access, 2017, 5, 15582-15596.	4.2	33
13	Deep Learning-Based Channel Prediction for LEO Satellite Massive MIMO Communication System. IEEE Wireless Communications Letters, 2021, 10, 1835-1839.	5.0	31
14	Achievable Rate Optimization for Aerial Intelligent Reflecting Surface-Aided Cell-Free Massive MIMO System. IEEE Access, 2021, 9, 3828-3837.	4.2	28
15	On the design of relay selection strategy for two-way amplify-and-forward mobile relaying. IET Communications, 2013, 7, 1948-1957.	2.2	26
16	Learning the Time-Varying Massive MIMO Channels: Robust Estimation and Data-Aided Prediction. IEEE Transactions on Vehicular Technology, 2020, 69, 8080-8096.	6.3	26
17	Interference-Limited Two-Way DF Relaying: Symbol-Error-Rate Analysis and Comparison. IEEE Transactions on Vehicular Technology, 2014, 63, 3474-3480.	6.3	25
18	Relay selection of full-duplex decode-and-forward relaying over Nakagami- $m$ fading channels. IET Communications, 2016, 10, 170-179.	2.2	25

#	ARTICLE	IF	CITATIONS
19	Outage performance of AF-based time division broadcasting protocol in the presence of co-channel interference. , 2013, , .		24
20	2D Fingerprinting-Based Localization for mmWave Cell-Free Massive MIMO Systems. IEEE Communications Letters, 2021, 25, 3556-3560.	4.1	21
21	Secure Transmission Scheme Based on Fingerprint Positioning in Cell-Free Massive MIMO Systems. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 92-105.	2.8	19
22	On the hybrid relaying protocol for time division broadcasting. Transactions on Emerging Telecommunications Technologies, 2015, 26, 893-904.	3.9	16
23	Massive MIMO full-duplex relaying with hardware impairments. Journal of Communications and Networks, 2017, 19, 351-362.	2.6	16
24	Low-complexity transceiver design and antenna subset selection for cooperative half- and full-duplex relaying systems. , 2014, , .		12
25	Symbol error rate of two-way decode-and-forward relaying with co-channel interference. , 2013, , .		11
26	Learning the Structured Sparsity: 3-D Massive MIMO Channel Estimation and Adaptive Spatial Interpolation. IEEE Transactions on Vehicular Technology, 2019, 68, 10663-10678.	6.3	11
27	Beam-domain hybrid time-switching and power-splitting SWIPT in full-duplex massive MIMO system. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	10
28	User-Centric Access Point Selection in Cell-Free Massive MIMO Systems: A Game-Theoretic Approach. IEEE Communications Letters, 2022, 26, 2225-2229.	4.1	10
29	Hybrid One-Way Full-Duplex/Two-Way Half-Duplex Relaying Scheme. IEEE Access, 2017, 5, 7737-7745.	4.2	9
30	On Max-SINR receiver for Hexagonal Multicarrier Transmission over doubly dispersive channel. , 2012, , .		8
31	Practical opportunistic full-half-duplex relaying. IET Communications, 2015, 9, 745-753.	2.2	8
32	Multi-pair full-duplex amplify-and-forward relaying with very large antenna arrays. , 2015, , .		8
33	Energy and Information Beamforming in Airborne Massive MIMO System for Wireless Powered Communications. Sensors, 2018, 18, 3540.	3.8	8
34	Beam-domain SWIPT in massive MIMO system with energy-constrained terminals. IET Communications, 2018, 12, 1900-1909.	2.2	8
35	Location-assisted precoding for three-dimension massive MIMO in air-to-ground transmission. , 2017, , .		7
36	Resource allocation for hybrid TS and PS SWIPT in massive MIMO system. Physical Communication, 2018, 28, 201-213.	2.1	7

#	ARTICLE	IF	CITATIONS
37	Full-Duplex Massive MIMO Relaying: An Energy Efficiency Perspective. <i>Wireless Personal Communications</i> , 2015, 84, 1933-1961.	2.7	6
38	3D Massive MIMO Channel Model for High-Speed Railway Wireless Communication. <i>Radio Science</i> , 2020, 55, e2020RS007070.	1.6	5
39	Secure Transmission Based on Non-Overlapping AOA in Cell-Free Massive MIMO Networks. , 2020, , .		4
40	Relay selection for two-way opportunistic relaying with outdated Nakagami- $m$ estimates. <i>Transactions on Emerging Telecommunications Technologies</i> , 2016, 27, 278-293.	3.9	3
41	Channel estimation for FDD massive MIMO system by exploiting the sparse structures in angular domain. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2019, 2019, .	2.4	3
42	Channel Acquisition for Hybrid Analog-Digital mMIMO System by Exploiting the Clustered Sparsity. , 2019, , .		3
43	Achievable rate of full-duplex massive MIMO relaying with hardware impairments. , 2015, , .		2
44	Beam-domain full-duplex transmission in massive MIMO system. <i>Physical Communication</i> , 2018, 26, 116-127.	2.1	2
45	On the Outage Performance of Decode-and-Forward Opportunistic Mobile Relaying with Direct Link. <i>IEICE Transactions on Communications</i> , 2016, E99.B, 654-665.	0.7	1
46	A comparative study on interference-limited two-way transmission protocols. <i>Journal of Communications and Networks</i> , 2016, 18, 351-363.	2.6	1
47	Asynchronous Physical-layer Network Coding Scheme for Broadband Two-Way Relay Channels. <i>Wireless Personal Communications</i> , 2016, 89, 149-163.	2.7	1
48	Exploiting the Clustered Sparsity for Channel Estimation in Hybrid Analog-Digital Massive MIMO Systems. <i>IEEE Access</i> , 2019, 7, 4989-5000.	4.2	1
49	Secure Downlink Transmission in Cell-Free Massive MIMO System Enhanced by Intelligent Reflecting Surfaces. <i>Security and Communication Networks</i> , 2022, 2022, 1-16.	1.5	1
50	Differential Multiply-and-Forward and Selective Combining Based Multi-relay TDBC Protocol. , 2015, , .		0
51	DMF-SC: Exploring diversity of order two in TDBC without channel state information. , 2016, , .		0
52	Statistical Max-SINR Beamforming for Wireless Powered Communications in Airborne Massive MIMO System. , 2018, , .		0
53	Beam-Domain Full-Duplex Massive MIMO Transmission in the Cellular System. , 2019, , 155-192.		0
54	A Comparative Study on Full- and Half-Duplex Relaying Protocols with Practical Channel Estimates. <i>Lecture Notes in Computer Science</i> , 2014, , 458-469.	1.3	0

#	ARTICLE	IF	CITATIONS
55	Interference Management for Full-Duplex Massive MIMO Relaying System with Hardware Impairments. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2017, , 78-122.	0.4	0
56	Digital Channel Feature Map Assisted Airborne MIMO Communications. , 2020, , .		0