

# Xinping Yi

## List of Publications by Year in descending order

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33  
papers

857  
citations

687363

13  
h-index

677142

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33  
all docs

33  
docs citations

33  
times ranked

541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Polarized FDD Massive MIMO: A Comprehensive Framework. IEEE Transactions on Wireless Communications, 2022, 21, 840-854.	9.2	3
2	Massive Grant-Free OFDMA With Timing and Frequency Offsets. IEEE Transactions on Wireless Communications, 2022, 21, 3365-3380.	9.2	7
3	Asymptotic Spectral Representation of Linear Convolutional Layers. IEEE Transactions on Signal Processing, 2022, 70, 566-581.	5.3	3
4	Learning to Compute Ergodic Rate for Multi-Cell Scheduling in Massive MIMO. IEEE Transactions on Wireless Communications, 2021, 20, 785-797.	9.2	6
5	Deep Learning Based Robust Precoder Design for Massive MIMO Downlink. , 2021, , .		2
6	Learning to Localize: A 3D CNN Approach to User Positioning in Massive MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2021, 20, 4556-4570.	9.2	26
7	Topological Interference Management with Adversarial Perturbation. , 2021, , .		3
8	Channel Prediction in High-Mobility Massive MIMO: From Spatio-Temporal Autoregression to Deep Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 1915-1930.	14.0	28
9	Active Channel Sparsification for Uplink Massive MIMO With Uniform Planar Array. IEEE Transactions on Wireless Communications, 2021, 20, 6018-6032.	9.2	5
10	Deep Learning-Based Robust Precoding for Massive MIMO. IEEE Transactions on Communications, 2021, 69, 7429-7443.	7.8	22
11	OFDMA based Massive Grant-free Transmission in the Presence of Timing Offset. , 2021, , .		3
12	Opportunistic Treating Interference as Noise. IEEE Transactions on Information Theory, 2020, 66, 520-533.	2.4	13
13	Opportunistic Topological Interference Management. IEEE Transactions on Communications, 2020, 68, 521-535.	7.8	15
14	3D CNN-Enabled Positioning in 3D Massive MIMO-OFDM Systems. , 2020, , .		6
15	On the Optimality of Treating Inter-Cell Interference as Noise: Downlink Cellular Networks and Uplink-Downlink Duality. IEEE Transactions on Information Theory, 2020, 66, 6939-6961.	2.4	9
16	A survey of safety and trustworthiness of deep neural networks: Verification, testing, adversarial attack and defence, and interpretability. Computer Science Review, 2020, 37, 100270.	15.3	203
17	Energy Efficiency Optimization for Downlink Massive MIMO With Statistical CSIT. IEEE Transactions on Wireless Communications, 2020, 19, 2684-2698.	9.2	36
18	Artificial Noise Assisted Secure Massive MIMO Transmission Exploiting Statistical CSI. IEEE Communications Letters, 2019, 23, 2386-2389.	4.1	11

#	ARTICLE	IF	CITATIONS
19	Opportunistic Topological Interference Management. , 2019, , .		2
20	On Detecting Pilot Attack in Massive MIMO: An Information-based Clustering Approach. , 2019, , .		0
21	Energy Efficient Precoding for Massive MIMO Downlink Transmission with Statistical CSI. , 2019, , .		1
22	On Multi-Cell Uplink-Downlink Duality with Treating Inter-Cell Interference as Noise. , 2019, , .		6
23	FDD Massive MIMO via UL/DL Channel Covariance Extrapolation and Active Channel Sparsification. IEEE Transactions on Wireless Communications, 2019, 18, 121-135.	9.2	83
24	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
25	Topological Interference Management With Decoded Message Passing. IEEE Transactions on Information Theory, 2018, 64, 3842-3864.	2.4	19
26	FDD Massive MIMO: Efficient Downlink Probing and Uplink Feedback via Active Channel Sparsification. , 2018, , .		5
27	Optimality of Treating Interference as Noise: A Combinatorial Perspective. IEEE Transactions on Information Theory, 2016, 62, 4654-4673.	2.4	47
28	On the optimality of treating interference as noise: A combinatorial optimization perspective. , 2015, , .		6
29	ITLinQ+: An improved spectrum sharing mechanism for device-to-device communications. , 2015, , .		16
30	Topological Interference Management With Transmitter Cooperation. IEEE Transactions on Information Theory, 2015, 61, 6107-6130.	2.4	37
31	Achievable Degrees of Freedom of MIMO Y Channel With Delayed CSIT. IEEE Communications Letters, 2014, 18, 1583-1586.	4.1	5
32	Degrees of Freedom of Time Correlated MISO Broadcast Channel With Delayed CSIT. IEEE Transactions on Information Theory, 2013, 59, 315-328.	2.4	176
33	User Scheduling for Heterogeneous Multiuser MIMO Systems: A Subspace Viewpoint. IEEE Transactions on Vehicular Technology, 2011, 60, 4004-4013.	6.3	34