Xinping Yi

List of Publications by Year
in descending order

33 papers	857 citations	687363 13 h-index	677142 22 g-index
33 all docs	33 docs citations	33 times ranked	541 citing authors

#	Article	IF	Citations
1	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
2	Degrees of Freedom of Time Correlated MISO Broadcast Channel With Delayed CSIT. IEEE Transactions on Information Theory, 2013, 59, 315-328.	2.4	176
3	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
4	Optimality of Treating Interference as Noise: A Combinatorial Perspective. IEEE Transactions on Information Theory, 2016, 62, 4654-4673.	2.4	47
5	Topological Interference Management With Transmitter Cooperation. IEEE Transactions on Information Theory, 2015, 61, 6107-6130.	2.4	37
6	Energy Efficiency Optimization for Downlink Massive MIMO With Statistical CSIT. IEEE Transactions on Wireless Communications, 2020, 19, 2684-2698.	9.2	36
7	User Scheduling for Heterogeneous Multiuser MIMO Systems: A Subspace Viewpoint. IEEE Transactions on Vehicular Technology, 2011, 60, 4004-4013.	6.3	34
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	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
10	Deep Learning-Based Robust Precoding for Massive MIMO. IEEE Transactions on Communications, 2021, 69, 7429-7443.	7.8	22
11	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
12	Topological Interference Management With Decoded Message Passing. IEEE Transactions on Information Theory, 2018, 64, 3842-3864.	2.4	19
13	ITLinQ+: An improved spectrum sharing mechanism for device-to-device communications. , 2015, , .		16
14	Opportunistic Topological Interference Management. IEEE Transactions on Communications, 2020, 68, 521-535.	7.8	15
15	Opportunistic Treating Interference as Noise. IEEE Transactions on Information Theory, 2020, 66, 520-533.	2.4	13
16	Artificial Noise Assisted Secure Massive MIMO Transmission Exploiting Statistical CSI. IEEE Communications Letters, 2019, 23, 2386-2389.	4.1	11
17	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
18	Massive Grant-Free OFDMA With Timing and Frequency Offsets. IEEE Transactions on Wireless Communications, 2022, 21, 3365-3380.	9.2	7

#	Article	IF	Citations
19	On the optimality of treating interference as noise: A combinatorial optimization perspective. , 2015, , .		6
20	On Multi-Cell Uplink-Downlink Duality with Treating Inter-Cell Interference as Noise. , 2019, , .		6
21	3D CNN-Enabled Positioning in 3D Massive MIMO-OFDM Systems. , 2020, , .		6
22	Learning to Compute Ergodic Rate for Multi-Cell Scheduling in Massive MIMO. IEEE Transactions on Wireless Communications, 2021, 20, 785-797.	9.2	6
23	Achievable Degrees of Freedom of MIMO Y Channel With Delayed CSIT. IEEE Communications Letters, 2014, 18, 1583-1586.	4.1	5
24	FDD Massive MIMO: Efficient Downlink Probing and Uplink Feedback via Active Channel Sparsification. , 2018, , .		5
25	Active Channel Sparsification for Uplink Massive MIMO With Uniform Planar Array. IEEE Transactions on Wireless Communications, 2021, 20, 6018-6032.	9.2	5
26	Dual-Polarized FDD Massive MIMO: A Comprehensive Framework. IEEE Transactions on Wireless Communications, 2022, 21, 840-854.	9.2	3
27	Topological Interference Management with Adversarial Perturbation. , 2021, , .		3
28	OFDMA based Massive Grant-free Transmission in the Presence of Timing Offset. , 2021, , .		3
29	Asymptotic Spectral Representation of Linear Convolutional Layers. IEEE Transactions on Signal Processing, 2022, 70, 566-581.	5.3	3
30	Opportunistic Topological Interference Management. , 2019, , .		2
31	Deep Learning Based Robust Precoder Design for Massive MIMO Downlink. , 2021, , .		2
32	Energy Efficient Precoding for Massive MIMO Downlink Transmission with Statistical CSI. , 2019, , .		1
33	On Detecting Pilot Attack in Massive MIMO: An Information-based Clustering Approach. , 2019, , .		0