Yu, Xianghao

List of Publications by Year
in descending order

30 papers	2,734 citations	759233 12 h-index	996975 15 g-index
32 all docs	32 docs citations	32 times ranked	2019 citing authors

#	Article	IF	Citations
1	Alternating Minimization Algorithms for Hybrid Precoding in Millimeter Wave MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 485-500.	10.8	907
2	Robust and Secure Wireless Communications via Intelligent Reflecting Surfaces. IEEE Journal on Selected Areas in Communications, 2020, 38, 2637-2652.	14.0	435
3	Enabling Secure Wireless Communications via Intelligent Reflecting Surfaces. , 2019, , .		210
4	Coverage Analysis for Millimeter Wave Networks: The Impact of Directional Antenna Arrays. IEEE Journal on Selected Areas in Communications, 2017, 35, 1498-1512.	14.0	164
5	Resource Allocation for IRS-Assisted Full-Duplex Cognitive Radio Systems. IEEE Transactions on Communications, 2020, 68, 7376-7394.	7.8	162
6	MISO Wireless Communication Systems via Intelligent Reflecting Surfaces : (Invited Paper). , 2019, , .		158
7	Resource Allocation for Secure IRS-Assisted Multiuser MISO Systems. , 2019, , .		117
8	Hybrid Beamforming for 5G and Beyond Millimeter-Wave Systems: A Holistic View. IEEE Open Journal of the Communications Society, 2020, 1, 77-91.	6.9	84
9	A Hardware-Efficient Analog Network Structure for Hybrid Precoding in Millimeter Wave Systems. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 282-297.	10.8	78
10	Smart and Reconfigurable Wireless Communications: From IRS Modeling to Algorithm Design. IEEE Wireless Communications, 2021, 28, 118-125.	9.0	75
11	IRS-Assisted Green Communication Systems: Provable Convergence and Robust Optimization. IEEE Transactions on Communications, 2021, 69, 6313-6329.	7.8	52
12	Optimal Beamforming for MISO Communications via Intelligent Reflecting Surfaces. , 2020, , .		46
13	Resource Allocation for Active IRS-Assisted Multiuser Communication Systems. , 2021, , .		33
14	Channel Estimation for IRS-Assisted Millimeter-Wave MIMO Systems: Sparsity-Inspired Approaches. IEEE Transactions on Communications, 2022, 70, 4078-4092.	7.8	28
15	Resource Allocation for Intelligent Reflecting Surface-Assisted Cognitive Radio Networks. , 2020, , .		27
16	Optimal Resource Allocation Design for Large IRS-Assisted SWIPT Systems: A Scalable Optimization Framework. IEEE Transactions on Communications, 2022, 70, 1423-1441.	7.8	27
17	Resource Allocation for Simultaneous Wireless Information and Power Transfer Systems: A Tutorial Overview. Proceedings of the IEEE, 2022, 110, 127-149.	21.3	24
18	A Unified Framework for the Tractable Analysis of Multi-Antenna Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 7965-7980.	9.2	21

#	Article	IF	Citations
19	Partially-connected hybrid precoding in mm-wave systems with dynamic phase shifter networks. , 2017, , .		16
20	Resource Allocation for Large IRS-Assisted SWIPT Systems with Non-linear Energy Harvesting Model. , 2021, , .		16
21	Hybrid Precoding in Millimeter Wave Systems: How Many Phase Shifters Are Needed?. , 2017, , .		13
22	A Tractable Framework for Coverage Analysis of Cellular-Connected UAV Networks. , 2019, , .		9
23	A Low-Complexity Algorithmic Framework for Large-Scale IRS-Assisted Wireless Systems. , 2020, , .		8
24	A tractable framework for performance analysis of dense multi-antenna networks. , 2017, , .		6
25	Stochastic Geometry Analysis of Multi-Antenna Wireless Networks. , 2019, , .		6
26	Outage Probability and Finite-SNR DMT Analysis for IRS-Aided MIMO Systems: How Large IRSs Need to be?. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1070-1085.	10.8	5
27	Learn to Communicate With Neural Calibration: Scalability and Generalization. IEEE Transactions on Wireless Communications, 2022, 21, 9947-9961.	9.2	4
28	Hybrid Precoding for Mixture Use of Phase Shifters and Switches in mmWave Massive MIMO. IEEE Transactions on Communications, 2022, 70, 4121-4133.	7.8	3
29	An Analytical Framework for Multi-Antenna Wireless Networks. , 2019, , 37-84.		0
30	Analysis of Multi-Antenna Wireless Networks. , 2019, , 85-125.		0