Guangchi Zhang

List of Publications by Year
in descending order

54 papers	2,111 citations	516215 16 h-index	315357 38 g-index
55 all docs	55 docs citations	55 times ranked	1819 citing authors

#	Article	IF	Citations
1	Secure Wireless Communication via Intelligent Reflecting Surface. IEEE Wireless Communications Letters, 2019, 8, 1410-1414.	3.2	585
2	Securing UAV Communications via Joint Trajectory and Power Control. IEEE Transactions on Wireless Communications, 2019, 18, 1376-1389.	6.1	419
3	Robust Trajectory and Transmit Power Design for Secure UAV Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 9042-9046.	3.9	225
4	Outage Performance for Cognitive Relay Networks with Underlay Spectrum Sharing. IEEE Communications Letters, 2011, 15, 710-712.	2.5	163
5	Trajectory Optimization and Power Allocation for Multi-Hop UAV Relaying Communications. IEEE Access, 2018, 6, 48566-48576.	2.6	105
6	Securing UAV Communications via Trajectory Optimization. , 2017, , .		98
7	Wireless Powered Cooperative Jamming for Secure OFDM System. IEEE Transactions on Vehicular Technology, 2018, 67, 1331-1346.	3.9	86
8	Relay Beamforming for Amplify-and-Forward Multi-Antenna Relay Networks with Energy Harvesting Constraint. IEEE Signal Processing Letters, 2014, 21, 454-458.	2.1	47
9	Throughput Maximization for IRS-Assisted Wireless Powered Hybrid NOMA and TDMA. IEEE Wireless Communications Letters, 2021, 10, 1944-1948.	3.2	47
10	Throughput Improvement for Multi-Hop UAV Relaying. IEEE Access, 2019, 7, 147732-147742.	2.6	33
11	Cooperative UAV Enabled Relaying Systems: Joint Trajectory and Transmit Power Optimization. IEEE Transactions on Green Communications and Networking, 2022, 6, 543-557.	3.5	29
12	3D Trajectory and Transmit Power Optimization for UAV-Enabled Multi-Link Relaying Systems. IEEE Transactions on Green Communications and Networking, 2021, 5, 392-405.	3.5	29
13	Generalized Wireless-Powered Communications: When to Activate Wireless Power Transfer?. IEEE Transactions on Vehicular Technology, 2019, 68, 8243-8248.	3.9	25
14	Bandwidth, Power and Trajectory Optimization for UAV Base Station Networks With Backhaul and User QoS Constraints. IEEE Access, 2020, 8, 67625-67634.	2.6	25
15	Joint Power Allocation and Subcarrier Pairing for Cooperative OFDM AF Multi-Relay Networks. IEEE Communications Letters, 2013, 17, 872-875.	2.5	24
16	Signal and artificial noise beamforming for secure simultaneous wireless information and power transfer multipleâ€input multipleâ€output relaying systems. IET Communications, 2016, 10, 796-804.	1.5	17
17	Deep Reinforcement Learning-Based Optimization for IRS-Assisted Cognitive Radio Systems. IEEE Transactions on Communications, 2022, 70, 3849-3864.	4.9	16
18	Decentralized Blockchain-Based Dynamic Spectrum Acquisition for Wireless Downlink Communications. IEEE Transactions on Signal Processing, 2021, 69, 986-997.	3.2	12

#	Article	IF	Citations
19	Trajectory optimization and resource allocation for UAV base stations under in-band backhaul constraint. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	12
20	Signalâ€toâ€interferenceâ€plusâ€noise ratioâ€based multiâ€relay beamforming for multiâ€user multipleâ€input multipleâ€output cognitive relay networks with interference from primary network. IET Communications, 2015, 9, 227-238.	1.5	11
21	A Zigbee-based localization algorithm for indoor environments. , 2011, , .		10
22	Transmit Antenna Selection in the Alamouti-Coded MIMO Relay Systems. Wireless Personal Communications, 2012, 62, 879-891.	1.8	10
23	Statistically Robust Transceiver Design for Multi-RIS Assisted Multi-User MIMO Systems. IEEE Communications Letters, 2022, 26, 1428-1432.	2.5	9
24	Transceiver design for cognitive multi-user MIMO multi-relay networks using imperfect CSI. AEU - International Journal of Electronics and Communications, 2016, 70, 544-557.	1.7	8
25	Achievable Rate Maximization for Intelligent Reflecting Surface-Assisted Orbital Angular Momentum-Based Communication Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 7277-7282.	3.9	8
26	Resource allocation for OFDM relay systems with statistical QoS guarantees. International Journal of Communication Systems, 2014, 27, 991-1008.	1.6	6
27	Joint Optimization for Multi-Antenna AF-Relay Aided Over-the-Air Computation. IEEE Transactions on Vehicular Technology, 2022, 71, 6744-6749.	3.9	6
28	Joint resource allocation with subcarrier pairing in cooperative OFDM DF multiâ€relay networks. IET Communications, 2015, 9, 78-87.	1.5	5
29	Proactive Eavesdropping via Pilot Contamination and Jamming. Wireless Personal Communications, 2018, 99, 1405-1421.	1.8	5
30	Joint Beamforming Optimization in Multi-Relay Assisted MIMO Over-the-Air Computation for Multi-Modal Sensing Data Aggregation. IEEE Communications Letters, 2021, 25, 3937-3941.	2.5	5
31	Achievable Rate Region Maximization in Intelligent Reflecting Surfaces-Assisted Interference Channel. IEEE Transactions on Vehicular Technology, 2021, 70, 13406-13412.	3.9	4
32	IRS-assisted covert communication with eavesdropperâ€™s channel and noise information uncertainties. Physical Communication, 2022, 53, 101662.	1.2	4
33	Performance Analysis for Traffic Offloading with MU-MIMO Enabled AP in LTE-U Networks. , 2017, , .		3
34	Throughput maximization for wireless powered non-orthogonal multiple access networks with multiple antennas. , 2017, , .		3
35	Coplanar waveguide fed multiple input multiple output antenna with higher isolation and multi-sense circular polarization. Journal of Electromagnetic Waves and Applications, 2018, 32, 685-694.	1.0	3
36	Source and Destination Antenna Selection in MIMO Relay Systems. , 2011, , .		2

#	Article	IF	Citations
37	QoS-Driven Jointly Optimal Subcarrier Pairing and Power Allocation for Decode-and-Forward OFDM Relay Systems. Wireless Personal Communications, 2013, 71, 1597-1618.	1.8	2
38	QoSâ€driven jointly optimal subcarrier pairing and power allocation for OFDM amplifyâ€andâ€forward relay systems. International Journal of Communication Systems, 2014, 27, 4492-4509.	1.6	2
39	Optimal Precoder Design for Non-Regenerative MIMO Cognitive Two-Way Relay Systems with Underlay Spectrum Sharing. Wireless Personal Communications, 2014, 75, 1373-1390.	1.8	2
40	Subcarrier-pair Based Power Allocation for Cooperative OFDM AF Multi-Relay Networks. Wireless Personal Communications, 2014, 77, 3159-3175.	1.8	2
41	Performance Analysis of a Two-Hop Fixed-Gain MIMO Multiuser Relay Network with End-to-End Antenna Selection. ETRI Journal, 2012, 34, 264-267.	1.2	1
42	Resource allocation for MIMO multi-relay systems with zero-forcing relaying. , 2013, , .		1
43	Nearly optimal linear transceiver design for amplifyâ€andâ€forward MIMO multipleâ€relay systems under MMSE criterion. International Journal of Communication Systems, 2014, 27, 1702-1713.	1.6	1
44	Joint Source and Relays Power Allocation for MIMO AF Multi-relay Networks. Wireless Personal Communications, 2015, 83, 1915-1926.	1.8	1
45	Level Crossing Rate and Average Outage Duration of Incremental DF Relay Channel. , 2009, , .		0
46	QoS-Driven Resource Allocation Scheme for the OFDM Amplify-and-Forward Relay System. , 2011, , .		0
47	Outage Probability of MIMO Relay Systems with Relay Selection under Co-Channel Interferences. , 2012, , .		0
48	Outage probability and SER of two-hop MIMO relaying systems with a fixed-gain relay and antenna selection. , 2012, , .		0
49	Performance analysis of multiuser uplink amplify-and-forward relay networks with fixed-gain relaying. , 2012, , .		0
50	Zero-forcing transceiver design in the multi-user MIMO cognitive relay networks. , 2013, , .		0
51	Joint time switching and power allocation in large-scale MISO OFDM systems with wireless powered relay. , 2016, , .		0
52	Compact CPW-fed asymmetric UWB antenna with two symmetrical stubs. , 2016, , .		0
53	Joint resource allocation with energy harvesting base stations in two adjacent cells. , 2016, , .		0
54	Information and Power Simultaneously Transmission in Space Shift Keying Modulation System with Antenna Selection. , 2015, , .		0