Jiankang Zhang

List of Publications by Year in Descending Order

67 papers	868 citations	15 h-index	28 g-index
78 ext. papers	1,153 ext. citations	5.3 avg, IF	4.83 L-index

#	Paper	IF	Citations
67	Physical Layer Security of Intelligent Reflective Surface Aided NOMA Networks. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	5
66	Deep Learning Aided Routing for Space-Air-Ground Integrated Networks Relying on Real Satellite, Flight, and Shipping Data. *IEEE Wireless Communications*, **2022**, 1-8	13.4	1
65	Energy Efficiency Optimization of Massive MIMO Systems Based on the Particle Swarm Optimization Algorithm. *Wireless Communications and Mobile Computing*, **2021**, 2021, 1-11	1.9	
64	Deep Learning Aided Physical-Layer Security: The Security versus Reliability Trade-off. *IEEE Transactions on Cognitive Communications and Networking*, **2021**, 1-1	6.6	0
63	AirEdge: A Dependency-Aware Multi-Task Orchestration in Federated Aerial Computing. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	1
62	Sparsity Signal Detection for Indoor GSSK-VLC System. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	1
61	Priority-Aware Secure Precoding Based on Multi-Objective Symbol Error Ratio Optimization. *IEEE Transactions on Communications*, **2021**, 69, 1912-1929	6.9	
60	Early Collision Detection for Massive Random Access in Satellite-Based Internet of Things. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 5184-5189	6.8	30
59	Deep Reinforcement Learning Aided Packet-Routing for Aeronautical Ad-Hoc Networks Formed by Passenger Planes. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 5166-5171	6.8	8
58	. *IEEE Access*, **2021**, 9, 80360-80372	3.5	4
57	. *IEEE Access*, **2021**, 9, 42533-42542	3.5	3
56	A Novel Design of RIS for Enhancing the Physical Layer Security for RIS-aided NOMA Networks. *IEEE Wireless Communications Letters*, **2021**, 1-1	5.9	9
55	Minimum-Delay Routing for Integrated Aeronautical Ad Hoc Networks Relying on Real Flight Data in the North-Atlantic Region. *IEEE Open Journal of Vehicular Technology*, **2021**, 2, 310-320	5.3	2
54	Deep Learning Aided Packet Routing in Aeronautical Ad-Hoc Networks Relying on Real Flight Data: From Single-Objective to Near-Pareto Multi-Objective Optimization. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	6
53	Beam Selection Assisted UAV-BS Deployment and Trajectory for Beamspace mmWave Systems. *Wireless Communications and Mobile Computing*, **2021**, 2021, 1-21	1.9	
52	Multiobjective Optimization for Integrated Ground-Air-Space Networks: Current Research and Future Challenges. *IEEE Vehicular Technology Magazine*, **2021**, 16, 88-98	9.9	3
51	SVM aided LEDs selection for generalized spatial modulation of indoor VLC systems. *Optics Communications*, **2021**, 497, 127161	2	0

50	Twin-Component Near-Pareto Routing Optimization for AANETs in the North-Atlantic Region Relying on Real Flight Statistics. *IEEE Open Journal of Vehicular Technology*, **2021**, 2, 346-364	5.3	3
49	Semi-Stochastic Aircraft Mobility Modelling for Aeronautical Networks: An Australian Case-Study Based on Real Flight Data. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	1
48	Quantum algorithms for typical hard problems: a perspective of cryptanalysis. *Quantum Information Processing*, **2020**, 19, 1	1.6	7
47	Secure Millimeter Wave Cloud Radio Access Networks Relying on Microwave Multicast Fronthaul. *IEEE Transactions on Communications*, **2020**, 68, 3079-3095	6.9	4
46	Far-End Crosstalk Mitigation for Future Wireline Networks Beyond G.mgfast: A Survey and an Outlook. *IEEE Access*, **2020**, 8, 9998-10039	3.5	2
45	Edge Federation: A Dependency-Aware Multi-Task Dispatching and Co-location in Federated Edge Container-Instances **2020**,		3
44	Channel correlation relied grouped spatial modulation for massive MIMO systems. *IET Communications*, **2020**, 14, 1241-1250	1.3	1
43	Power Allocation and Outage Analysis for Secure MISO Cognitive Radio Networks With an Unknown Eavesdropper. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 16294-16298	6.8	1
42	Optimal-Power Superposition Modulation for Scalable Video Broadcasting. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 16230-16234	6.8	
41	Optimal Uplink Pilot-Data Power Allocation for Large-Scale Antenna Array-Aided OFDM Systems. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 428-442	6.8	1
40	Scalable Panoramic Wireless Video Streaming Relying on Optimal-Rate FEC-Coded Adaptive QAM. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 11206-11219	6.8	3
39	Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *IEEE Systems Journal*, **2020**, 14, 673-676	4.5	3
38	Constant-Envelope Space-Time Shift Keying. *IEEE Journal on Selected Topics in Signal Processing*, **2019**, 13, 1387-1402	7.5	9
37	Aeronautical $Ad~Hoc$ Networking for the Internet-Above-the-Clouds. *Proceedings of the IEEE*, **2019**, 107, 868-911	14.3	83
36	Short-Term Load Forecasting for Electric Vehicle Charging Stations Based on Deep Learning Approaches. *Applied Sciences (Switzerland)*, **2019**, 9, 1723	2.6	39
35	Impulsive Noise Mitigation in Digital Subscriber Lines: The State-of-the-Art and Research Opportunities. *IEEE Communications Magazine*, **2019**, 57, 145-151	9.1	7
34	Secrecy Analysis in SWIPT Systems Over Generalized- K Fading Channels. *IEEE Communications Letters*, **2019**, 23, 834-837	3.8	10
33	A Comprehensive Survey on UAV Communication Channel Modeling. *IEEE Access*, **2019**, 7, 107769-107792	3.5	112

32	Adaptive Coherent/Non-Coherent Spatial Modulation Aided Unmanned Aircraft Systems. *IEEE Wireless Communications*, **2019**, 26, 170-177	13.4	24
31	Energy Efficient Transmission Based on Grouped Spatial Modulation for Upstream DSL Systems. *IEEE Access*, **2019**, 7, 88312-88326	3.5	
30	Nonlinearity-Based Single-Channel Monopulse Tracking Method for OFDM-Aided UAV A2G Communications. *IEEE Access*, **2019**, 7, 148485-148494	3.5	5
29	Design of Reconfigurable SDR Platform for Antenna Selection Aided MIMO Communication System. *IEEE Access*, **2019**, 7, 169267-169280	3.5	3
28	Energy EfficiencyDelay Tradeoff for a Cooperative NOMA System. *IEEE Communications Letters*, **2019**, 23, 732-735	3.8	9
27	Transmitter-Selection Aided Adaptive Consensus-Based Data Sharing for UAV Swarms. *IEEE Access*, **2019**, 7, 182217-182224	3.5	3
26	Boosting Fronthaul Capacity: Global Optimization of Power Sharing for Centralized Radio Access Network. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 1916-1929	6.8	12
25	. *IEEE Transactions on Communications*, **2019**, 67, 1099-1116	6.9	19
24	Enhancing the secrecy performance of the spatial modulation aided VLC systems with optical jamming. *Signal Processing*, **2019**, 157, 288-302	4.4	8
23	Adaptive Coding and Modulation for Large-Scale Antenna Array-Based Aeronautical Communications in the Presence of Co-Channel Interference. *IEEE Transactions on Wireless Communications*, **2018**, 17, 1343-1357	9.6	42
22	Dynamic User-Centric Clustering for Uplink Cooperation in Multi-Cell Wireless Networks. *IEEE Access*, **2018**, 6, 8526-8538	3.5	10
21	Secrecy Analysis of Generalized Space-Shift Keying Aided Visible Light Communication. *IEEE Access*, **2018**, 6, 18310-18324	3.5	21
20	Secrecy performance analysis of MISO visible light communication systems with spatial modulation **2018**, 81, 116-128		6
19	Regularized Zero-Forcing Precoding-Aided Adaptive Coding and Modulation for Large-Scale Antenna Array-Based Air-to-Air Communications. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 2087-2103	14.2	21
18	A Parafac-Based Blind Channel Estimation and Symbol Detection Scheme for Massive MIMO Systems **2018**,		2
17	Differential Evolution Algorithm Aided Turbo Channel Estimation and Multi-User Detection for G.Fast Systems in the Presence of FEXT. *IEEE Access*, **2018**, 6, 33111-33128	3.5	5
16	Partial Cooperation Based on Dynamic Transmit Antennas for Two-Hop Massive MIMO Systems. *Wireless Communications and Mobile Computing*, **2018**, 2018, 1-7	1.9	1
15	Optical Jamming Enhances the Secrecy Performance of the Generalized Space-Shift-Keying-Aided Visible-Light Downlink. *IEEE Transactions on Communications*, **2018**, 66, 4087-4102	6.9	31

List of Publications

14	Discrete Multi-Tone Digital Subscriber Loop Performance in the Face of Impulsive Noise. *IEEE Access*, **2017**, 5, 10478-10495	3.5	13
13	Two-Stage Time-Domain Pilot Contamination Elimination in Large-Scale Multiple-Antenna Aided and TDD Based OFDM Systems. *IEEE Access*, **2017**, 5, 8629-8641	3.5	2
12	Antenna grouping assisted spatial modulation for massive MIMO systems **2017**,		5
11	Cooperation resource efficient user-centric clustering for QoS provisioning in uplink CoMP **2017**,		2
10	Compressed Blind Signal Reconstruction Model and Algorithm. *Circuits, Systems, and Signal Processing*, **2016**, 35, 3192-3219	2.2	2
9	Optimal Pilot Design for Pilot Contamination Elimination/Reduction in Large-Scale Multiple-Antenna Aided OFDM Systems. *IEEE Transactions on Wireless Communications*, **2016**, 15, 7229-7243	9.6	39
8	Tensor-based semi-blind channel estimation for three-hop MIMO relay systems **2015**,		1
7	. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 1204-1222	6.8	40
6	Pilot Contamination Elimination for Large-Scale Multiple-Antenna Aided OFDM Systems. *IEEE Journal on Selected Topics in Signal Processing*, **2014**, 8, 759-772	7.5	104
5	Benchmarking capabilities of evolutionary algorithms in joint channel estimation and turbo multi-user detection/decoding **2013**,		3
4	Turbo Multi-User Detection for OFDM/SDMA Systems Relying on Differential Evolution Aided Iterative Channel Estimation. *IEEE Transactions on Communications*, **2012**, 60, 1621-1633	6.9	35
3	Stochastic Optimization Assisted Joint Channel Estimation and Multi-User Detection for OFDM/SDMA **2012**,		1
2	Joint Decision-Directed Channel and Noise-Variance Estimation for MIMO OFDM/SDMA Systems Based on Expectation-Conditional Maximization. *IEEE Transactions on Vehicular Technology*, **2011**, 60, 2139-2151	6.8	10
1	. *IEEE Transactions on Vehicular Technology*, **2011**, 60, 3265-3275	6.8	26