Zhijing Qin

List of Publications by Year
in descending order

80 papers	5,884 citations	147801 31 h-index	197818 49 g-index
84 all docs	84 docs citations	84 times ranked	4480 citing authors

#	Article	IF	Citations
1	Nonorthogonal Multiple Access for 5G and Beyond. Proceedings of the IEEE, 2017, 105, 2347-2381.	21.3	961
2	Enhancing the Physical Layer Security of Non-Orthogonal Multiple Access in Large-Scale Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1656-1672.	9.2	485
3	Deep Learning in Physical Layer Communications. IEEE Wireless Communications, 2019, 26, 93-99.	9.0	399
4	Modulation and Multiple Access for 5G Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 629-646.	39.4	348
5	Joint Offloading and Trajectory Design for UAV-Enabled Mobile Edge Computing Systems. IEEE Internet of Things Journal, 2019, 6, 1879-1892.	8.7	308
6	Deep Learning Enabled Semantic Communication Systems. IEEE Transactions on Signal Processing, 2021, 69, 2663-2675.	5.3	296
7	A Software Defined Networking architecture for the Internet-of-Things. , 2014, , .		240
8	UAV Communications Based on Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2019, 26, 52-57.	9.0	198
9	Non-Orthogonal Multiple Access in Large-Scale Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 2667-2680.	14.0	176
10	Sparse Representation for Wireless Communications: A Compressive Sensing Approach. IEEE Signal Processing Magazine, 2018, 35, 40-58.	5.6	169
11	Semantic Communication Systems for Speech Transmission. IEEE Journal on Selected Areas in Communications, 2021, 39, 2434-2444.	14.0	158
12	A Lite Distributed Semantic Communication System for Internet of Things. IEEE Journal on Selected Areas in Communications, 2021, 39, 142-153.	14.0	152
13	Resource Allocation in Intelligent Reflecting Surface Assisted NOMA Systems. IEEE Transactions on Communications, 2020, 68, 7170-7183.	7.8	149
14	Wideband Spectrum Sensing on Real-Time Signals at Sub-Nyquist Sampling Rates in Single and Cooperative Multiple Nodes. IEEE Transactions on Signal Processing, 2016, 64, 3106-3117.	5.3	145
15	User Association and Resource Allocation in Unified NOMA Enabled Heterogeneous Ultra Dense Networks. , 2018, 56, 86-92.		91
16	Data-Assisted Low Complexity Compressive Spectrum Sensing on Real-Time Signals Under Sub-Nyquist Rate. IEEE Transactions on Wireless Communications, 2016, 15, 1174-1185.	9.2	90
17	UbiFlow: Mobility management in urban-scale software defined IoT. , 2015, , .		87
18	A Unified Framework for Non-Orthogonal Multiple Access. IEEE Transactions on Communications, 2018, 66, 5346-5359.	7.8	87

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19	Toward Wisdom-Evolutionary and Primitive-Concise 6G: A New Paradigm of Semantic Communication Networks. Engineering, 2022, 8, 60-73.	6.7	77
20	20 Years of Evolution From Cognitive to Intelligent Communications. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 6-20.	7.9	73
21	Multiple Access for Mobile-UAV Enabled Networks: Joint Trajectory Design and Resource Allocation. IEEE Transactions on Communications, 2019, 67, 4980-4994.	7.8	71
22	Scalable and Reliable IoT Enabled by Dynamic Spectrum Management for M2M in LTE-A. IEEE Internet of Things Journal, 2016, 3, 1135-1145.	8.7	68
23	Energy Efficiency Maximization in NOMA Enabled Backscatter Communications With QoS Guarantee. IEEE Wireless Communications Letters, 2021, 10, 353-357.	5.0	59
24	Task-Oriented Multi-User Semantic Communications for VQA. IEEE Wireless Communications Letters, 2022, 11, 553-557.	5.0	55
25	Deep Learning and Compressive Sensing-Based CSI Feedback in FDD Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 9217-9222.	6.3	54
26	Low-Power Wide-Area Networks for Sustainable IoT. IEEE Wireless Communications, 2019, 26, 140-145.	9.0	51
27	Intelligent Reflecting Surface Aided Multiple Access Over Fading Channels. IEEE Transactions on Communications, 2021, 69, 2015-2027.	7.8	48
28	Resource Allocation in Wireless Powered IoT Networks. IEEE Internet of Things Journal, 2019, 6, 4935-4945.	8.7	47
29	Resource Allocation in Uplink NOMA-IoT Networks: A Reinforcement-Learning Approach. IEEE Transactions on Wireless Communications, 2021, 20, 5083-5098.	9.2	47
30	Task-Oriented Multi-User Semantic Communications. IEEE Journal on Selected Areas in Communications, 2022, 40, 2584-2597.	14.0	46
31	Anti-Intelligent UAV Jamming Strategy via Deep Q-Networks. IEEE Transactions on Communications, 2020, 68, 569-581.	7.8	43
32	Resource Efficiency in Low-Power Wide-Area Networks for IoT Applications. , 2017, , .		42
33	Wireless Powered Cognitive Radio Networks With Compressive Sensing and Matrix Completion. IEEE Transactions on Communications, 2017, 65, 1464-1476.	7.8	40
34	Federated Learning and Wireless Communications. IEEE Wireless Communications, 2021, 28, 134-140.	9.0	37
35	Modeling and Analysis of Data Aggregation From Convergecast in Mobile Sensor Networks for Industrial IoT. IEEE Transactions on Industrial Informatics, 2018, 14, 4457-4467.	11.3	35
36	Resource Allocation for Text Semantic Communications. IEEE Wireless Communications Letters, 2022, 11, 1394-1398.	5.0	31

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37	LEDGE: Leveraging Edge Computing for Resilient Access Management of Mobile IoT. IEEE Transactions on Mobile Computing, 2021, 20, 1110-1125.	5.8	28
38	Task-Oriented Image Transmission for Scene Classification in Unmanned Aerial Systems. IEEE Transactions on Communications, 2022, 70, 5181-5192.	7.8	28
39	Energy Efficient Uplink Transmissions in LoRa Networks. IEEE Transactions on Communications, 2020, 68, 4960-4972.	7.8	27
40	Malicious User Detection Based on Low-Rank Matrix Completion in Wideband Spectrum Sensing. IEEE Transactions on Signal Processing, 2018, 66, 5-17.	5.3	25
41	Semantic Communications for Speech Signals. , 2021, , .		24
42	Performance Analysis of Clustered LoRa Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 7616-7629.	6.3	22
43	Power Optimization in Device-to-Device Communications: A Deep Reinforcement Learning Approach With Dynamic Reward. IEEE Wireless Communications Letters, 2021, 10, 508-511.	5.0	22
44	Modelling and analysis of low-power wide-area networks. , 2017, , .		18
45	Non-Orthogonal Multiple Access for Massive Connectivity. SpringerBriefs in Computer Science, 2020, , .	0.2	18
46	Semi-Grant-Free NOMA: Ergodic Rates Analysis With Random Deployed Users. IEEE Wireless Communications Letters, 2021, 10, 692-695.	5.0	18
47	Efficient compressive spectrum sensing algorithm for M2M devices. , 2014, , .		17
48	Downlink Analysis for Reconfigurable Intelligent Surfaces Aided NOMA Networks. , 2020, , .		17
49	Minimum Throughput Maximization in LoRa Networks Powered by Ambient Energy Harvesting. , 2019, , .		14
50	Rethinking Outage Constraints for Resource Management in NOMA Networks. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 423-435.	10.8	13
51	Reconfigurable Intelligent Surface Enhanced Device-to-Device Communications. , 2020, , .		13
52	Reconfigurable Intelligent Surface Aided Cellular Networks With Device-to-Device Users. IEEE Transactions on Communications, 2022, 70, 1808-1819.	7.8	12
53	Energy Efficient Resource Allocation for Uplink LoRa Networks. , 2018, , .		11
54	Joint Trajectory Design and Power Allocation for UAV-Enabled Non-Orthogonal Multiple Access Systems. , 2018, , .		10

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55	Compressive spectrum sensing augmented by geo-location database. , 2015, , .		9
56	The Application of Intelligent Reflecting Surface in Downlink NOMA Systems. , 2020, , .		9
57	User Fairness in Energy Harvesting-Based LoRa Networks With Imperfect SF Orthogonality. IEEE Transactions on Communications, 2021, 69, 4319-4334.	7.8	8
58	Reinforcement Learning for User Clustering in NOMA-Enabled Uplink IoT. , 2020, , .		7
59	Low-rank matrix completion based malicious user detection in cooperative spectrum sensing. , 2013, , .		6
60	Outage Performance of a Unified Non-Orthogonal Multiple Access Framework. , 2018, , .		6
61	Federated Generative Adversarial Networks based Channel Estimation. , 2022, , .		6
62	Pilot Contamination Attack Detection and Defense Strategy in Wireless Communications. IEEE Signal Processing Letters, 2019, 26, 938-942.	3.6	5
63	Smart communications via a tree-based overlay over multiple and heterogeneous (TOMH) spontaneous networks. , 2013, , .		4
64	Coverage Analysis of mmWave Networks With Cooperative NOMA Systems. IEEE Communications Letters, 2020, 24, 1544-1547.	4.1	4
65	Deep Neural Network-Based Robust Spectrum Sensing: Exploiting Phase Difference Distribution. , 2021, , .		4
66	Series Editorial: Inauguration Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1-3.	14.0	3
67	Joint User Activity and Data Detection in Grant-Free NOMA using Generative Neural Networks. , 2021, , .		3
68	Compressive Sensing in Massive MIMO Array Testing: A Practical Guide. IEEE Transactions on Antennas and Propagation, 2022, 70, 7978-7988.	5.1	3
69	Federated Learning Enabled Channel Estimation for RIS-Aided Multi-User Wireless Systems. , 2022, , .		2
70	Capacity Analysis of Asymmetric Multi-Antenna Relay Systems Using Free Probability Theory. , 2019, , .		1
71	Resource Allocation for NOMA Networks under Alternative Outage Constraints. , 2019, , .		1
72	Series Editorial: The Second Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1855-1857.	14.0	1

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73	Intelligent Reflecting Surface Assisted NOMA Over Fading Channels. , 2020, , .		1
74	Subchannel Assignment and Power Allocation for NOMA in Spatial Modulation Systems. , 2019, , .		0
75	Sparse Representation in Wireless Networks. Springer Briefs in Electrical and Computer Engineering, 2019, , 9-20.	0.5	0
76	Series Editorial: The Third Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 2267-2270.	14.0	0
77	Artificial Intelligence (AI) Enabled NOMA. SpringerBriefs in Computer Science, 2020, , 89-94.	0.2	0
78	Sustainability of NOMA. SpringerBriefs in Computer Science, 2020, , 45-65.	0.2	0
79	Series Editorial The Fourth Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 1-4.	14.0	0
80	The Fifth Issue of the Series on Machine Learning in Communications and Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 2251-2253.	14.0	0