

Guangxu Zhu

List of Publications by Year in descending order

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32
papers

1,871
citations

471509
17
h-index

713466
21
g-index

32
all docs

32
docs citations

32
times ranked

1191
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Analog Aggregation for Low-Latency Federated Edge Learning. IEEE Transactions on Wireless Communications, 2020, 19, 491-506.	9.2	405
2	Toward an Intelligent Edge: Wireless Communication Meets Machine Learning. IEEE Communications Magazine, 2020, 58, 19-25.	6.1	336
3	One-Bit Over-the-Air Aggregation for Communication-Efficient Federated Edge Learning: Design and Convergence Analysis. IEEE Transactions on Wireless Communications, 2021, 20, 2120-2135.	9.2	155
4	Wireless Information and Power Transfer in Relay Systems With Multiple Antennas and Interference. IEEE Transactions on Communications, 2015, 63, 1400-1418.	7.8	141
5	MIMO Over-the-Air Computation for High-Mobility Multimodal Sensing. IEEE Internet of Things Journal, 2019, 6, 6089-6103.	8.7	141
6	Optimized Power Control for Over-the-Air Computation in Fading Channels. IEEE Transactions on Wireless Communications, 2020, 19, 7498-7513.	9.2	101
7	Over-the-Air Computing for Wireless Data Aggregation in Massive IoT. IEEE Wireless Communications, 2021, 28, 57-65.	9.0	78
8	Wirelessly Powered Data Aggregation for IoT via Over-the-Air Function Computation: Beamforming and Power Control. IEEE Transactions on Wireless Communications, 2019, 18, 3437-3452.	9.2	73
9	Hybrid Beamforming via the Kronecker Decomposition for the Millimeter-Wave Massive MIMO Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2097-2114.	14.0	64
10	Outage Probability of Dual-Hop Multiple Antenna AF Systems with Linear Processing in the Presence of Co-Channel Interference. IEEE Transactions on Wireless Communications, 2014, 13, 2308-2321.	9.2	54
11	Reduced-Dimension Design of MIMO Over-the-Air Computing for Data Aggregation in Clustered IoT Networks. IEEE Transactions on Wireless Communications, 2019, 18, 5255-5268.	9.2	53
12	Optimized Power Control Design for Over-the-Air Federated Edge Learning. IEEE Journal on Selected Areas in Communications, 2022, 40, 342-358.	14.0	51
13	Transmission Power Control for Over-the-Air Federated Averaging at Network Edge. IEEE Journal on Selected Areas in Communications, 2022, 40, 1571-1586.	14.0	35
14	Inference From Randomized Transmissions by Many Backscatter Sensors. IEEE Transactions on Wireless Communications, 2018, 17, 3111-3127.	9.2	34
15	Data-Importance Aware User Scheduling for Communication-Efficient Edge Machine Learning. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 265-278.	7.9	33
16	Cooperative Interference Management for Over-the-Air Computation Networks. IEEE Transactions on Wireless Communications, 2021, 20, 2634-2651.	9.2	29
17	Wireless Data Acquisition for Edge Learning: Data-Importance Aware Retransmission. IEEE Transactions on Wireless Communications, 2021, 20, 406-420.	9.2	21
18	Analog Spatial Cancellation for Tackling the Near-Far Problem in Wirelessly Powered Communications. IEEE Journal on Selected Areas in Communications, 2016, 34, 3566-3576.	14.0	17

#	ARTICLE	IF	CITATIONS
19	Vertical Federated Edge Learning With Distributed Integrated Sensing and Communication. IEEE Communications Letters, 2022, 26, 2091-2095.	4.1	13
20	Optimal Power Control for Over-the-Air Computation. , 2019, , .		11
21	Automatic Recognition of Space-Time Constellations by Learning on the Grassmann Manifold. IEEE Transactions on Signal Processing, 2018, 66, 6031-6046.	5.3	6
22	Communication, Computing, and Learning on the Edge. , 2018, , .		5
23	Optimized Power Control for Over-the-Air Federated Edge Learning. , 2021, , .		5
24	Joint Annotator-and-Spectrum Allocation in Wireless Networks for Crowd Labeling. IEEE Transactions on Wireless Communications, 2020, 19, 6116-6129.	9.2	4
25	Beamforming via Kronecker Decomposition for Interference Cancellation in the Analog Domain. , 2017, , .		3
26	Accelerating Federated Edge Learning via Optimized Probabilistic Device Scheduling. , 2021, , .		2
27	Analog spatial decoupling for tackling the near-far problem in wirelessly powered communications. , 2016, , .		1
28	Ergodic capacity analysis of dual-hop ZF/MRT relaying systems with co-channel interference. , 2013, , .		0
29	Linear processing for dual-hop AF relay systems with interference: Outage probability analysis. , 2014, , .		0
30	Exploiting Diversity Via Importance-Aware User Scheduling for Fast Edge Learning. , 2020, , .		0
31	Spectrum Allocation in Wireless Networks for Crowd Labelling. , 2020, , .		0
32	Joint Annotator Clustering and Power Control for Energy-Efficient Wireless Crowd Labelling. , 2021, , .		0