Sandra Lagén

List of Publications by Year
in descending order

43 papers	**755** citations	840585 **11** h-index	996849 **15** g-index
43 all docs	**43** docs citations	**43** times ranked	**559** citing authors

#	Article	IF	Citations
1	An E2E simulator for 5G NR networks. Simulation Modelling Practice and Theory, 2019, 96, 101933.	2.2	100
2	New Radio Beam-Based Access to Unlicensed Spectrum: Design Challenges and Solutions. IEEE Communications Surveys and Tutorials, 2020, 22, 8-37.	24.8	88
3	3GPP NR V2X Mode 2: Overview, Models and System-Level Evaluation. IEEE Access, 2021, 9, 89554-89579.	2.6	64
4	NR-U and IEEE 802.11 Technologies Coexistence in Unlicensed mmWave Spectrum: Models and Evaluation. IEEE Access, 2020, 8, 71254-71271.	2.6	55
5	Coexisting Linear and Widely Linear Transceivers in the MIMO Interference Channel. IEEE Transactions on Signal Processing, 2016, 64, 652-664.	3.2	44
6	On the Superiority of Improper Gaussian Signaling in Wireless Interference MIMO Scenarios. IEEE Transactions on Communications, 2016, 64, 3350-3368.	4.9	39
7	Implementation of a Spatial Channel Model for ns-3. , 2020, , .		39
8	Listen before receive for coexistence in unlicensed mmWave bands. , 2018, , .		31
9	5G New Radio Numerologies and their Impact on the End-To-End Latency. , 2018, , .		30
10	Joint User Scheduling, Precoder Design, and Transmit Direction Selection in MIMO TDD Small Cell Networks. IEEE Transactions on Wireless Communications, 2017, 16, 2434-2449.	6.1	26
11	Modulation Compression in Next Generation RAN: Air Interface and Fronthaul Trade-offs. IEEE Communications Magazine, 2021, 59, 89-95.	4.9	20
12	Wake-Up Radio Based Access in 5G Under Delay Constraints: Modeling and Optimization. IEEE Transactions on Communications, 2020, 68, 1044-1057.	4.9	18
13	Calibration of the 5G-LENA system level simulator in 3GPP reference scenarios. Simulation Modelling Practice and Theory, 2022, 119, 102580.	2.2	18
14	LBT Switching Procedures for New Radio-Based Access to Unlicensed Spectrum. , 2018, , .		16
15	Improper Gaussian signaling for the Z-interference channel. , 2014, , .		14
16	Paired Listen before Talk for Multi-RAT Coexistence in Unlicensed mmWave Bands. , 2018, , .		14
17	Energy Efficiency in Latency-Constrained Application Offloading From Mobile Clients to Multiple Virtual Machines. IEEE Transactions on Signal Processing, 2018, 66, 1065-1079.	3.2	13
18	An Improved MAC Layer for the 5G NR ns-3 Module. , 2019, , .		12

#	Article	IF	Citations
19	Decentralized Coordinated Precoding for Dense TDD Small Cell Networks. IEEE Transactions on Wireless Communications, 2015, 14, 4546-4561.	6.1	11
20	Subband Configuration Optimization for Multiplexing of Numerologies in 5G TDD New Radio. , 2018, , .		11
21	Wake-Up Scheduling for Energy-Efficient Mobile Devices. IEEE Transactions on Wireless Communications, 2020, 19, 6020-6036.	6.1	11
22	Distributed inter-cluster interference management for CoMP-based cellular networks. , 2013, , .		10
23	The Impact of NR Scheduling Timings on End-to-End Delay for Uplink Traffic. , 2019, , .		10
24	Decentralized widely linear precoding design for the MIMO interference channel. , 2014, , .		7
25	Optimized Wake-Up Scheme with Bounded Delay for Energy-Efficient MTC. , 2019, , .		7
26	On the impact of numerology in NR V2X Mode 2 with sensing and random resource selection. , 2021, , .		6
27	Distributed User-Centric Clustering and Precoding Design for CoMP Joint Transmission. , 2015, , .		5
28	Efficient Use of Paired Spectrum Bands through TDD Small Cell Deployments. , 2017, 55, 210-211.		5
29	Implementation and evaluation of frequency division multiplexing of numerologies for 5G new radio in ns-3. , 2018, , .		5
30	Novel radio environment map for the ns-3 NR simulator. , 2021, , .		5
31	Long-term provisioning of radio resources based on their utilization in dense OFDMA networks. , 2016, , .		4
32	Realistic beamforming design using SRS-based channel estimate for ns-3 5G-LENA module. , 2021, , .		4
33	Proactive Wake-up Scheduler based on Recurrent Neural Networks. , 2020, , .		3
34	Network-MIMO backhauling for QOS-constrained relay transmission. , 2011, , .		2
35	Energy efficient cell load-aware coverage optimization for small-cell networks. , 2015, , .		2
36	Semi-Static Modulation Compression Optimization for Next Generation RANs. , 2021, , .		2

#	Article	IF	Citations
37	Network-MIMO for downlink in-band relay transmissions. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	1.5	1
38	Joint user scheduling and transmit direction selection in 5G TDD dense small cell networks. , 2016, , .		1
39	Performance analysis of feedback-free collision resolution NDMA protocol. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	1
40	ns-3 and 5G-LENA Extensions to Support Dual-Polarized MIMO. , 2022, , .		1
41	Channel training procedures for MIMO interfering point-to-multipoint channel. , 2014, , .		0
42	Distributed User-Centric Clustering and Precoding Design for CoMP Joint Transmission. , 2014, , .		0
43	Signal-Timing Offset Compensation in Dense TDD OFDM-Based Networks. , 2017, , .		0