

# Andreas Knopp

## List of Publications by Year in descending order

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papers

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citations

1307594

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1058476

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36  
all docs

36  
docs citations

36  
times ranked

197  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Fixed Service Interference in Aeronautical SATCOM Channels. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 942-961.	4.7	4
2	Filter Distortions in Ultra High-Throughput Satellites: Models, Parameters and Multicarrier Optimization. IEEE Transactions on Signal Processing, 2022, 70, 292-306.	5.3	4
3	Distributed Resource Optimization for NOMA Transmission in Beamforming SATCOM. IEEE Journal on Selected Areas in Communications, 2022, 40, 1190-1209.	14.0	5
4	Evaluation of a Multi-Mode-Transceiver for Enhanced UAV Visibility and Connectivity in Mixed ATM/UTM Contexts. Drones, 2022, 6, 80.	4.9	3
5	Unlocking higher data volumes from space to Earth: A boost to scientific experiments on board space stations. Acta Astronautica, 2022, , .	3.2	0
6	Field Trial of a 5G Non-Terrestrial Network Using OpenAirInterface. IEEE Open Journal of Vehicular Technology, 2022, 3, 243-250.	4.9	8
7	Emergency 5G Communication on the Move: Concept and field trial of a mobile satellite backhaul for public protection and disaster relief. International Journal of Satellite Communications and Networking, 2021, 39, 417-430.	1.8	7
8	Leveraging IoT Wearable Technology Towards Early Diagnosis of Neurological Diseases. IEEE Journal on Selected Areas in Communications, 2021, 39, 582-592.	14.0	13
9	Multuser MIMO Concept for Physical Layer Security in Multibeam Satellite Systems. IEEE Transactions on Information Forensics and Security, 2021, 16, 1670-1680.	6.9	21
10	Digital Predistortion in High Throughput Satellites: Architectures and Performance. IEEE Access, 2021, 9, 42291-42304.	4.2	5
11	Spectral Correlation for Signal Presence Detection and Frequency Acquisition of Small Satellites. Aerospace, 2021, 8, 57.	2.2	2
12	Performance Optimization for Multi-Gateway NOMA-Beamforming in Multi-Beam SATCOM. , 2021, , .		3
13	Impact of Phase Noise and Oscillator Stability on Ultra-Narrow-Band-IoT Waveforms for Satellite. , 2021, , .		4
14	A Laser Link From Lunar Surface Employing Line-of-Sight MIMO. Frontiers in Space Technologies, 2021, 2, .	1.4	1
15	Bandlimited Digital Predistortion for High Throughput Satellites. , 2021, , .		0
16	Distortions Characterization for Dynamic Carrier Allocation in Ultra High-Throughput Satellites. , 2021, , .		2
17	MIMO Throughput Performance Analysis in LEO Communication Scenario. , 2021, , .		3
18	Smart Diversity Through MIMO Satellite Q/V-Band Feeder Links. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 285-300.	4.7	13

#	ARTICLE	IF	CITATIONS
19	Physical Layer Security with Unknown Eavesdroppers in Beyond-5G MU-MIMO SATCOM. , 2020, , .		1
20	Multi-Satellite Multi-User MIMO Precoding: Testbed and Field Trial. , 2020, , .		16
21	Linear Distortions in the Communication Satellite Payload: An Analytical Characterization. , 2020, , .		4
22	Ultranarrowband Waveform for IoT Direct Random Multiple Access to GEO Satellites. IEEE Internet of Things Journal, 2019, 6, 10134-10149.	8.7	21
23	Statistics of Terrestrial Fixed Service Interference in the Aeronautical SATCOM Channel. , 2019, , .		5
24	MIMO Applications for Multibeam Satellites. IEEE Transactions on Broadcasting, 2019, 65, 664-681.	3.2	67
25	Geographical NOMA-Beamforming in Multi-Beam Satellite-Based Internet of Things. , 2019, , .		9
26	Multi-User MIMO Satellite Communications with Secrecy Constraints. , 2019, , .		4
27	MIMO Processing for Satellites in the 5G Era. , 2019, , .		4
28	Outage Analysis of a MIMO-Based Smart Gateway Architecture. , 2018, , .		2
29	Multisatellite UHF MIMO Channel Measurements. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2481-2484.	4.0	7
30	Fair User Grouping for Multibeam Satellites with MU-MIMO Precoding. , 2017, , .		32
31	Spatial MIMO over satellite: A proof of concept. , 2016, , .		26
32	Impact of the Atmosphere on the Signal Phase and the Channel Capacity in EHF MIMO Satellite Links. , 2015, , .		2
33	Measurements of phase fluctuations for reliable MIMO space communications. , 2015, , .		5
34	Secure MIMO SATCOM Transmission. , 2013, , .		8