

Fabio Paonessa

List of Publications by Year in descending order

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50
papers

809
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687363

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all docs

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50
times ranked

509
citing authors

#	ARTICLE	IF	CITATIONS
1	Antenna Pattern Verification System Based on a Micro Unmanned Aerial Vehicle (UAV). IEEE Antennas and Wireless Propagation Letters, 2014, 13, 169-172.	4.0	123
2	3D Printing of Microwave and Millimeter-Wave Filters: Additive Manufacturing Technologies Applied in the Development of High-Performance Filters with Novel Topologies. IEEE Microwave Magazine, 2020, 21, 24-45.	0.8	67
3	Medicina array demonstrator: calibration and radiation pattern characterization using a UAV-mounted radio-frequency source. Experimental Astronomy, 2015, 39, 405-421.	3.7	51
4	Integration of an π -Plane Bend, a Twist, and a Filter in Ku/K-Band Through Additive Manufacturing. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2210-2219.	4.6	46
5	Additive Manufacturing of Ka-Band Dual-Polarization Waveguide Components. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3589-3596.	4.6	42
6	Test-Driven Design of an Active Dual-Polarized Log-Periodic Antenna for the Square Kilometre Array. IEEE Open Journal of Antennas and Propagation, 2020, 1, 253-263.	3.7	35
7	SKA aperture array verification system: electromagnetic modeling and beam pattern measurements using a micro UAV. Experimental Astronomy, 2018, 45, 1-20.	3.7	32
8	3-D Printing of High-Performance Feed Horns From Ku- to V-Bands. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2036-2040.	4.0	32
9	Antenna pattern measurements with a flying far-field source (Hexacopter). , 2014, , .		28
10	Near-Field Experimental Verification of the EM Models for the LOFAR Radio Telescope. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 613-616.	4.0	26
11	From MAD to SAD: The Italian experience for the low-frequency aperture array of SKA1 ^{LOW} . Radio Science, 2016, 51, 160-175.	1.6	24
12	UAV-based pattern measurement of the SKALA. , 2015, , .		23
13	Strong Mutual Coupling Effects on LOFAR: Modeling and <i>In Situ</i> Validation. IEEE Transactions on Antennas and Propagation, 2018, 66, 2581-2588.	5.1	22
14	UAV-based radiation pattern verification for a small low-frequency array. , 2014, , .		19
15	VHF/UHF antenna pattern measurement with unmanned aerial vehicles. , 2016, , .		19
16	UAV-based antenna and field measurements. , 2016, , .		17
17	Progress Report on the Large-Scale Polarization Explorer. Journal of Low Temperature Physics, 2020, 200, 374-383.	1.4	16
18	The Aperture Array Verification System 1: System overview and early commissioning results. Astronomy and Astrophysics, 2021, 655, A5.	5.1	16

#	ARTICLE	IF	CITATIONS
19	Recent results in antenna pattern measurement with UAVs. , 2015, , .		15
20	UAV-based antenna measurements: Scan strategies. , 2017, , .		14
21	Antenna pattern measurement with UAVs: Modeling of the test source. , 2016, , .		13
22	The UAV-based test source as an end-to-end verification tool for aperture arrays. , 2016, , .		11
23	High-performance microwave waveguide devices produced by laser powder bed fusion process. Procedia CIRP, 2019, 79, 85-88.	1.9	11
24	Electromagnetic Analysis and Experimental Validation of the LOFAR Radiation Patterns. International Journal of Antennas and Propagation, 2019, 2019, 1-12.	1.2	11
25	3D Printing of a Monolithic K/Ka-Band Dual-Circular Polarization Antenna-Feeding Network. IEEE Access, 2021, 9, 88243-88255.	4.2	11
26	UAV-Based Antenna Measurements: Improvement of the Test Source Frequency Behavior. , 2018, , .		9
27	Antenna pattern characterization of the low-frequency receptor of LOFAR by means of an UAV-mounted artificial test source. Proceedings of SPIE, 2016, , .	0.8	8
28	Leveraging UAVs for Passive RF Charging and Ultralowpower Wake-Up of Ground Sensors. , 2020, 4, 1-4.		8
29	5G-Enabled Security Scenarios for Unmanned Aircraft: Experimentation in Urban Environment. Drones, 2020, 4, 22.	4.9	8
30	Large Horizontal Near-Field Scanner Based on a Non-Tethered Unmanned Aerial Vehicle. IEEE Open Journal of Antennas and Propagation, 2022, 3, 568-582.	3.7	8
31	3D Printing of Ka band Orthomode Transducers. , 2018, , .		7
32	Electromagnetic and mechanical analyses of a 3D-printed ka-band integrated twist and orthomode transducer. , 2019, , .		6
33	Sardinia aperture array demonstrator. Proceedings of SPIE, 2014, , .	0.8	4
34	Sardinia Array Demonstrator: Instrument overview and status. , 2015, , .		4
35	Recent results on the characterization of the LOFAR radio telescope by means of a micro UAV. , 2017, , .		3
36	UAV-Enabled RF Sensor Wake-up. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Design and Verification of a Q-Band Test Source for UAV-Based Radiation Pattern Measurements. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9366-9370.	4.7	3
38	UAV-mounted Corner Reflector for In-Situ Radar Verification and Calibration. , 2018, , .		2
39	The SKA Aperture Array Verification System: Measured Digitally-Beam-Formed Radiation Patterns. , 2019, , .		2
40	C band Self Diplexed Tx/Rx Feed System for Telecom. , 2020, , .		2
41	UAV-based technique for the characterization of the Intrinsic Cross-Polarization Ratio (IXR). , 2017, , .		2
42	UAV-based method for the sensitivity measurement on low-frequency receiving systems. , 2017, , .		1
43	Additive Manufacturing Technology for High Performances Feed Horn. , 2018, , .		1
44	In-Situ Verification of Aperture-Array Polarimetric Performance by Means of a Micro UAV: Preliminary Results on the LOFAR Low Band Antenna. , 2018, , .		1
45	Comparison between Measured and Simulated Antenna Patterns for a LOFAR LBA array. , 2020, , .		1
46	Preliminary Results on the Verification of the LOFAR-HBA with a Flying Test Source. , 2021, , .		1
47	Understanding phase pattern discrepancies in UAV-based measurements of a SKA-low prototype. , 2022, , .		1
48	From MAD to SAD: The Italian experience for SKA-LFAA. , 2015, , .		0
49	Electromagnetic Characterization of Installed Antennas Through UAVs. Mechanisms and Machine Science, 2018, , 471-482.	0.5	0
50	Effect of Conductive Propellers on VHF UAV-based Antenna Measurements: Experimental Results. , 2021, , .		0