

Alessandro Navarrini

List of Publications by Year in descending order

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58
papers

3,599
citations

623734

14
h-index

361022

35
g-index

58
all docs

58
docs citations

58
times ranked

8590
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
2	The EMIR multi-band mm-wave receiver for the IRAM 30-m telescope. Astronomy and Astrophysics, 2012, 538, A89.	5.1	162
3	A turnstile junction waveguide orthomode transducer. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 272-277.	4.6	133
4	Symmetric Reverse-Coupling Waveguide Orthomode Transducer for the 3-mm Band. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 80-88.	4.6	112
5	K-band orthomode transducer with waveguide ports and balanced coaxial probes. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1792-1801.	4.6	25
6	A Compact L-Band Orthomode Transducer for Radio Astronomical Receivers at Cryogenic Temperature. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3218-3227.	4.6	23
7	Single-dish and VLBI observations of Cygnus X-3 during the 2016 giant flare episode. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2703-2714.	4.4	23
8	The ALMA Band-7 Cartridge. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 29-39.	3.1	20
9	Imaging of SNR IC443 and W44 with the Sardinia Radio Telescope at 1.5 and 7 GHz. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1329-1341.	4.4	20
10	New light on the S235A-B star forming region. Astronomy and Astrophysics, 2004, 420, 553-569.	5.1	20
11	The Front-End of the NOEMA Interferometer. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 223-237.	3.1	19
12	Status of the Sardinia Radio Telescope project. Proceedings of SPIE, 2008, , .	0.8	17
13	Investigating the high-frequency spectral features of SNRs Tycho, W44, and IC443 with the Sardinia Radio Telescope. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3857-3867.	4.4	15
14	The dual-band LP feed system for the Sardinia Radio Telescope prime focus. Proceedings of SPIE, 2010, , .	0.8	14
15	Niobium SupraMEMS for Reconfigurable Millimeter Wave Filters. IEEE Transactions on Applied Superconductivity, 2007, 17, 910-913.	1.7	13
16	Analysis of Vivaldi array antenna for phased array feeds application. , 2017, , .		13
17	Design of PHAROS2 Phased Array Feed. , 2018, , .		10
18	Development of a New Digital Signal Processing Platform for the Square Kilometre Array. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
19	L-band orthomode transducer for the Sardinia Radio Telescope. , 2008, , .		8
20	Double Ridged 180° Hybrid Power Divider With Integrated Band Pass Filter. IEEE Microwave and Wireless Components Letters, 2011, 21, 13-15.	3.2	8
21	High-performance cryogenic fractal 180° hybrid power divider with integrated directional coupler. Radio Science, 2017, 52, 757-766.	1.6	8
22	The Room Temperature Multi-Channel Heterodyne Receiver Section of the PHAROS2 Phased Array Feed. Electronics (Switzerland), 2019, 8, 666.	3.1	8
23	Advantages of Using a C-band Phased Array Feed as a Receiver in the Sardinia Radio Telescope for Space Debris Monitoring. , 2019, , .		8
24	A waveguide orthomode transducer for 385-500 GHz. Proceedings of SPIE, 2010, , .	0.8	7
25	Electromagnetic simulation and beam-pattern optimization of a C-band Phased Array Feed for the Sardinia Radio Telescope. , 2019, , .		7
26	The Warm Receiver Section and the Digital Backend of the PHAROS2 Phased Array Feed. , 2019, , .		7
27	A waveguide cavity 180° hybrid coupler with coaxial ports. Microwave and Optical Technology Letters, 2009, 51, 1646-1649.	1.4	6
28	Superconductor-Insulator-Superconductor Mixers for the 2 mm Band (129-174 GHz). Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 536-562.	2.2	6
29	Frequency Multiplier and Mixer MMICs Based on a Metamorphic HEMT Technology Including Schottky Diodes. IEEE Access, 2020, 8, 12697-12712.	4.2	6
30	The Coaxial L-P Cryogenic Receiver of the Sardinia Radio Telescope. IEEE Access, 2022, 10, 2631-2645.	4.2	6
31	Simple 1-mm receivers with fixed tuned double sideband SIS mixer and wideband InP MMIC amplifier. , 2004, 5498, 556.		5
32	Architecture of Highly Integrated Cryogenic Active Planar OrthoMode Transducer for the 3-mm Band. , 2018, , .		5
33	A compact L-band Ortho Mode Junction. Proceedings of SPIE, 2010, , .	0.8	4
34	The 7-beam S-band cryogenic receiver for the SRT primary focus: project status. , 2016, , .		4
35	Status of the radio receiver system of the Sardinia Radio Telescope. Proceedings of SPIE, 2016, , .	0.8	4
36	Electronically Tuned Local Oscillators for the NOEMA Interferometer. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 212-222.	3.1	4

#	ARTICLE	IF	CITATIONS
37	A 2.3-8.2 GHz Room Temperature Multi-Channel Receiver for Phased Array Feed Application. , 2019, , .		4
38	Simple 1 MM Receivers with a Fixed Tuned Double Sideband SIS Mixer and a Wideband INP MMIC Amplifier. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 1733-1755.	0.6	3
39	Cryogenic photonic local oscillator for 2â€...mm band SIS heterodyne astronomical receiver array. Electronics Letters, 2007, 43, 1121.	1.0	3
40	The IF Output Impedance of SIS Mixers. IEEE Transactions on Terahertz Science and Technology, 2014, , 1-10.	3.1	3
41	Feasibility Study of a W-Band Multibeam Heterodyne Receiver for the Gregorian Focus of the Sardinia Radio Telescope. IEEE Access, 2022, 10, 26369-26403.	4.2	3
42	A simple K-band waveguide-to-microstrip probe transition. Microwave and Optical Technology Letters, 2007, 49, 1597-1600.	1.4	2
43	Dual-side backward coupler waveguide orthomode transducer for the 3 mm band. Proceedings of SPIE, 2008, , .	0.8	2
44	Optical design of S-band multifeed for the Sardinia Radio Telescope primary focus. , 2017, , .		2
45	Compact Dual-Polarization Cryogenic Receiver Module for the 75-116 GHz band. , 2018, , .		2
46	High-Resolution Imaging of the Solar Chromosphere in the Centimetre-Millimetre Band Through Single-Dish Observations. , 2018, , .		2
47	Metamaterial-based Toraldo pupils for super-resolution at millimetre wavelengths. , 2018, , .		2
48	22 GHz tunable bandpass filters based on niobium MEMS. , 2004, , .		1
49	A novel 180Â° hybrid power divider. , 2010, , .		1
50	A 3mm multipixel SIS receiver for IRAM 30-m Pico Veleta Telescope. , 2012, , .		1
51	A 3mm band SIS receiver for the Sardinia Radio Telescope. Proceedings of SPIE, 2014, , .	0.8	1
52	Preliminary Characterization of the Digitally Formed Beams of PHAROS2 Phased Array Feed. , 2021, , .		1
53	Characterization Techniques of Millimeter-Wave Orthomode Transducers (OMTs). Electronics (Switzerland), 2021, 10, 1844.	3.1	1
54	The control system of the 3 mm band SIS receiver for the Sardinia Radio Telescope. Proceedings of SPIE, 2016, , .	0.8	1

#	ARTICLE	IF	CITATIONS
55	A 3mm band dual polarization MMIC receiver for the 30-m Pico Veleta Radio Telescope. Proceedings of SPIE, 2012, , .	0.8	0
56	A real-time KLT implementation for radio-SETI applications. Proceedings of SPIE, 2016, , .	0.8	0
57	The Sardinia Radio Telescope (SRT): A large modern radio telescope for observations from meter to mm wavelengths. , 2017, , .		0
58	PHased Arrays for Reflector Observing Systems and its Upgrade. , 2018, , .		0