

Florent G Mertens

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,477
citations

516710

16
h-index

526287

27
g-index

29
all docs

29
docs citations

29
times ranked

1677
citing authors

#	ARTICLE	IF	CITATIONS
1	Transiting exoplanets from the CoRoT space mission. <i>Astronomy and Astrophysics</i> , 2009, 506, 287-302.	5.1	460
2	Improved upper limits on the 21-cm signal power spectrum of neutral hydrogen at $z \approx 9.1$ from LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1662-1685.	4.4	185
3	Kinematics of the jet in M87 on scales of 100–1000 Schwarzschild radii. <i>Astronomy and Astrophysics</i> , 2016, 595, A54.	5.1	167
4	The first power spectrum limit on the 21-cm signal of neutral hydrogen during the Cosmic Dawn at $z = 20 \pm 25$ from LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 4271-4287.	4.4	77
5	The stratified two-sided jet of Cygnus A. <i>Astronomy and Astrophysics</i> , 2016, 585, A33.	5.1	72
6	Constraining the intergalactic medium at $z \approx 9.1$ using LOFAR Epoch of Reionization observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4728-4747.	4.4	69
7	Statistical 21-cm Signal Separation via Gaussian Process Regression Analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	63
8	Tight constraints on the excess radio background at $z \approx 9.1$ from LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4178-4191.	4.4	55
9	Interpreting LOFAR 21-cm signal upper limits at $z \approx 9.1$ in the context of high- z galaxy and reionization observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1-13.	4.4	46
10	The impact of interference excision on 21-cm epoch of reionization power spectrum analyses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 2866-2875.	4.4	36
11	Comparing foreground removal techniques for recovery of the LOFAR-EoR 21-cm power spectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 2264-2277.	4.4	34
12	Wavelet-based decomposition and analysis of structural patterns in astronomical images. <i>Astronomy and Astrophysics</i> , 2015, 574, A67.	5.1	27
13	The AARTFAAC Cosmic Explorer: observations of the 21-cm power spectrum in the EDGES absorption trough. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4158-4173.	4.4	23
14	Global millimeter VLBI array survey of ultracompact extragalactic radio sources at 86 GHz. <i>Astronomy and Astrophysics</i> , 2019, 622, A92.	5.1	21
15	Foreground modelling via Gaussian process regression: an application to HERA data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2813-2826.	4.4	19
16	Observations of the Structure and Dynamics of the Inner M87 Jet. <i>Galaxies</i> , 2016, 4, 46.	3.0	17
17	Precision requirements for interferometric gridding in the analysis of a 21 cm power spectrum. <i>Astronomy and Astrophysics</i> , 2019, 631, A12.	5.1	17
18	A numerical study of 21-cm signal suppression and noise increase in direction-dependent calibration of LOFAR data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3693-3702.	4.4	15

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19	Detection of multiple velocity components in partially overlapping emitting regions. <i>Astronomy and Astrophysics</i> , 2016, 587, A52.	5.1	14
20	Deconvolving the wedge: maximum-likelihood power spectra via spherical-wave visibility modelling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 4552-4563.	4.4	13
21	The TeV-emitting radio galaxy 3C 264. <i>Astronomy and Astrophysics</i> , 2019, 627, A89.	5.1	11
22	Peering into the dark (ages) with low-frequency space interferometers. <i>Experimental Astronomy</i> , 2021, 51, 1641-1676.	3.7	10
23	A Detailed Kinematic Study of 3C 84 and Its Connection to $\hat{\Gamma}^3$ -Rays. <i>Astrophysical Journal</i> , 2021, 914, 43.	4.5	7
24	SKA-low intensity mapping pathfinder updates: deeper 21Åcm power spectrum limits from improved analysis frameworks. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2021, 8, .	1.8	7
25	Statistical analysis of the causes of excess variance in the 21 cm signal power spectra obtained with the Low-Frequency Array. <i>Astronomy and Astrophysics</i> , 2022, 663, A9.	5.1	6
26	Degree-scale galactic radio emission at 122 MHz around the North Celestial Pole with LOFAR-AARTFAAC. <i>Astronomy and Astrophysics</i> , 2022, 662, A97.	5.1	3
27	Large-scale 21Åcm signal predictions at cosmic dawn with calibrated subgrid galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 3179-3186.	4.4	2
28	Robust Foregrounds Removal for 21-cm Experiments. <i>Proceedings of the International Astronomical Union</i> , 2017, 12, 284-287.	0.0	1
29	Longitudinal and transverse velocity fields in parsec-scale jets. , 2015, , .		0