

Geraint Harker

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

2,454
citations

236925

25
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

1457
citing authors

#	ARTICLE	IF	CITATIONS
1	Upper Limits on the 21 cm Epoch of Reionization Power Spectrum from One Night with LOFAR. <i>Astrophysical Journal</i> , 2017, 838, 65.	4.5	219
2	Foreground simulations for the LOFAR-epoch of reionization experiment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 1319-1335.	4.4	217
3	A marked correlation function analysis of halo formation times in the Millennium Simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 1039-1049.	4.4	186
4	Foregrounds for observations of the cosmological 21 cm line. <i>Astronomy and Astrophysics</i> , 2009, 500, 965-979.	5.1	148
5	Foreground removal using <code>fastica</code> : a showcase of LOFAR-EoR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2518-2532.	4.4	141
6	Initial deep LOFAR observations of epoch of reionization windows. <i>Astronomy and Astrophysics</i> , 2013, 550, A136.	5.1	128
7	Probing the first stars and black holes in the early Universe with the Dark Ages Radio Explorer (DARE). <i>Advances in Space Research</i> , 2012, 49, 433-450.	2.6	104
8	The scale of the problem: recovering images of reionization with Generalized Morphological Component Analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 165-176.	4.4	100
9	Non-parametric foreground subtraction for 21-cm epoch of reionization experiments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 1138-1152.	4.4	95
10	Probing ionospheric structures using the LOFAR radio telescope. <i>Radio Science</i> , 2016, 51, 927-941.	1.6	95
11	Foregrounds for observations of the cosmological 21 cm line. <i>Astronomy and Astrophysics</i> , 2010, 522, A67.	5.1	94
12	Fast large-scale reionization simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 393, 32-48.	4.4	91
13	Probing reionization with LOFAR using 21-cm redshift space distortions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 460-474.	4.4	69
14	Initial LOFAR observations of epoch of reionization windows. <i>Astronomy and Astrophysics</i> , 2014, 568, A101.	5.1	67
15	The LOFAR radio environment. <i>Astronomy and Astrophysics</i> , 2013, 549, A11.	5.1	63
16	Linear polarization structures in LOFAR observations of the interstellar medium in the 3C196 field. <i>Astronomy and Astrophysics</i> , 2015, 583, A137.	5.1	60
17	Polarization leakage in epoch of reionization windows – I. Low Frequency Array observations of the 3C196 field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 3709-3727.	4.4	58
18	INTERPRETING THE GLOBAL 21-cm SIGNAL FROM HIGH REDSHIFTS. II. PARAMETER ESTIMATION FOR MODELS OF GALAXY FORMATION. <i>Astrophysical Journal</i> , 2015, 813, 11.	4.5	56

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19	Constraining the epoch of reionization with the variance statistic: simulations of the LOFAR case. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1113-1124.	4.4	54
20	Detection and extraction of signals from the epoch of reionization using higher-order one-point statistics. Monthly Notices of the Royal Astronomical Society, 2009, 393, 1449-1458.	4.4	52
21	An MCMC approach to extracting the global 21-cm signal during the cosmic dawn from sky-averaged radio observations. Monthly Notices of the Royal Astronomical Society, 2012, 419, 1070-1084.	4.4	51
22	Imaging neutral hydrogen on large scales during the Epoch of Reionization with LOFAR. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2964-2973.	4.4	46
23	Power spectrum extraction for redshifted 21-cm Epoch of Reionization experiments: the LOFAR case. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	43
24	INTERPRETING THE GLOBAL 21 cm SIGNAL FROM HIGH REDSHIFTS. I. MODEL-INDEPENDENT CONSTRAINTS. Astrophysical Journal, 2013, 777, 118.	4.5	35
25	Parametrizations of the 21-cm global signal and parameter estimation from single-dipole experiments. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3829-3840.	4.4	28
26	THE EFFECTS OF THE IONOSPHERE ON GROUND-BASED DETECTION OF THE GLOBAL 21 cm SIGNAL FROM THE COSMIC DAWN AND THE DARK AGES. Astrophysical Journal, 2016, 831, 6.	4.5	24
27	LOFAR insights into the epoch of reionization from the cross-power spectrum of 21-cm emission and galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2615-2624.	4.4	23
28	Prospects for detecting the 21-cm forest from the diffuse intergalactic medium with LOFAR. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1755-1765.	4.4	22
29	Lunar occultation of the diffuse radio sky: LOFAR measurements between 35 and 80 MHz. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2291-2305.	4.4	20
30	Barium Sulphate Precipitation In Porous Rock Through Dispersive Mixing. , 2003, , .		15
31	Simulating the 21-cm forest detectable with LOFAR and SKA in the spectra of high- z GRBs. Monthly Notices of the Royal Astronomical Society, 2015, 453, 101-105.	4.4	15
32	Constraints on δ_8 from galaxy clustering in N-body simulations and semi-analytic models. Monthly Notices of the Royal Astronomical Society, 2007, 382, 1503-1515.	4.4	13
33	The brightness and spatial distributions of terrestrial radio sources. Monthly Notices of the Royal Astronomical Society, 2013, 435, 584-596.	4.4	12
34	Cosmic Dawn and Epoch of Reionization Foreground Removal with the SKA. , 2015, , .		10
35	Data analysis and foreground removal algorithms for 21-cm cosmology experiments. , 2014, , .		0