Vibor JeliÄ

List of Publications by Year
in descending order

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64 papers	5,652 citations	126907 33 h-index	118850 62 g-index
64 all docs	64 docs citations	64 times ranked	3735 citing authors

#	Article	IF	Citations
1	LOFAR: The LOw-Frequency ARray. Astronomy and Astrophysics, 2013, 556, A2.	5.1	1,755
2	Reionization and the Cosmic Dawn with the Square Kilometre Array. Experimental Astronomy, 2013, 36, 235-318.	3.7	255
3	The VLA-COSMOS 3 GHz Large Project: Continuum data and source catalog release. Astronomy and Astrophysics, 2017, 602, A1.	5.1	230
4	Upper Limits on the 21 cm Epoch of Reionization Power Spectrum from One Night with LOFAR. Astrophysical Journal, 2017, 838, 65.	4.5	219
5	Foreground simulations for the LOFAR-epoch of reionization experiment. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1319-1335.	4.4	217
6	Improved upper limits on the 21â€‰cm signal power spectrum of neutral hydrogen at z â‰ˆ 9.1 from LOFAR. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1662-1685.	4.4	185
7	The LOFAR Two-metre Sky Survey. Astronomy and Astrophysics, 2022, 659, A1.	5.1	169
8	Foregrounds for observations of the cosmological 21Âcm line. Astronomy and Astrophysics, 2009, 500, 965-979.	5.1	148
9	Foreground removal using<scp>fastica</scp>: a showcase of LOFAR-EoR. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2518-2532.	4.4	141
10	Initial deep LOFAR observations of epoch of reionization windows. Astronomy and Astrophysics, 2013, 550, A136.	5.1	128
11	Realistic simulations of the Galactic polarized foreground: consequences for 21-cm reionization detection experiments. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1647-1659.	4.4	101
12	The scale of the problem: recovering images of reionization with Generalized Morphological Component Analysis. Monthly Notices of the Royal Astronomical Society, 2013, 429, 165-176.	4.4	100
13	Non-parametric foreground subtraction for 21-cm epoch of reionization experiments. Monthly Notices of the Royal Astronomical Society, 2009, 397, 1138-1152.	4.4	95
14	Probing ionospheric structures using the LOFAR radio telescope. Radio Science, 2016, 51, 927-941.	1.6	95
15	Foregrounds for observations of the cosmological 21Âcm line. Astronomy and Astrophysics, 2010, 522, A67.	5.1	94
16	Fast large-scale reionization simulations. Monthly Notices of the Royal Astronomical Society, 2009, 393, 32-48.	4.4	91
17	The LOFAR Multifrequency Snapshot Sky Survey (MSSS). Astronomy and Astrophysics, 2015, 582, A123.	5.1	85
18	Studying Galactic interstellar turbulence through fluctuations in synchrotron emission. Astronomy and Astrophysics, 2013, 558, A72.	5.1	78

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19	The first power spectrum limit on the 21-cm signal of neutral hydrogen during the Cosmic Dawn at zÂ= 20â€“25 from LOFAR. Monthly Notices of the Royal Astronomical Society, 2019, 488, 4271-4287.	4.4	77
20	Systematic biases in low-frequency radio interferometric data due to calibration: the LOFAR-EoR case. Monthly Notices of the Royal Astronomical Society, 2016, 463, 4317-4330.	4.4	73
21	Probing reionization with LOFAR using 21-cm redshift space distortions. Monthly Notices of the Royal Astronomical Society, 2013, 435, 460-474.	4.4	69
22	Constraining the intergalactic medium at z â‰ˆ 9.1 using LOFAR Epoch of Reionization observations. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4728-4747.	4.4	69
23	Initial LOFAR observations of epoch of reionization windows. Astronomy and Astrophysics, 2014, 568, A101.	5.1	67
24	The LOFAR radio environment. Astronomy and Astrophysics, 2013, 549, A11.	5.1	63
25	The LOFAR Two-meter Sky Survey: Deep Fields Data Release 1. Astronomy and Astrophysics, 2021, 648, A2.	5.1	61
26	Linear polarization structures in LOFAR observations of the interstellar medium in the 3Câ€‰196 field. Astronomy and Astrophysics, 2015, 583, A137.	5.1	60
27	The effect of foreground mitigation strategy on EoR window recovery. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2928-2939.	4.4	59
28	Polarization leakage in epoch of reionization windows â€“ I. Low Frequency Array observations of the 3C196 field. Monthly Notices of the Royal Astronomical Society, 2015, 451, 3709-3727.	4.4	58
29	Faraday tomography of the local interstellar medium with LOFAR: Galactic foregrounds towards IC 342. Astronomy and Astrophysics, 2017, 597, A98.	5.1	55
30	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
31	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
32	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
33	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
34	Recovering the Hâ€‰ii region size statistics from 21-cm tomography. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1936-1954.	4.4	36
35	Comparing foreground removal techniques for recovery of the LOFAR-EoR 21â€‰cm power spectrum. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2264-2277.	4.4	34
36	Polarized point sources in the LOFAR Two-meter Sky Survey: A preliminary catalog. Astronomy and Astrophysics, 2018, 613, A58.	5.1	29

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37	Galactic interstellar filaments as probed by LOFAR and Planck. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 454, L46-L50.	3.3	27
38	Predictions for the 21 cm-galaxy cross-power spectrum observable with LOFAR and Subaru. Monthly Notices of the Royal Astronomical Society, 2016, 457, 666-675.	4.4	27
39	Polarization leakage in epoch of reionization windows â€“ II. Primary beam model and direction-dependent calibration. Monthly Notices of the Royal Astronomical Society, 2016, 462, 4482-4494.	4.4	26
40	A cross-correlation study between the cosmological 21 cm signal and the kinetic Sunyaev-Zel'dovich effect. Monthly Notices of the Royal Astronomical Society, 2010, 402, 2279-2290.	4.4	24
41	The VLA-COSMOS Survey â€“ V. 324ÂMHz continuum observations. Monthly Notices of the Royal Astronomical Society, 2014, 443, 2590-2598.	4.4	24
42	Effects of the sources of reionization on 21-cm redshift-space distortions. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2080-2094.	4.4	24
43	Polarization leakage in epoch of reionization windows â€“ III. Wide-field effects of narrow-field arrays. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3051-3062.	4.4	24
44	LOFAR insights into the epoch of reionization from the cross-power spectrum of 21â€‰cm emission and galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2615-2624.	4.4	23
45	Diffuse polarized emission in the LOFAR Two-meter Sky Survey. Astronomy and Astrophysics, 2019, 623, A71.	5.1	23
46	Prospects for detecting the 21Âcm forest from the diffuse intergalactic medium with LOFAR. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1755-1765.	4.4	22
47	Wide-field LOFAR-LBA power-spectra analyses: impact of calibration, polarization leakage, and ionosphere. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1484-1501.	4.4	22
48	Magnetically aligned straight depolarization canals and the rolling Hough transform. Astronomy and Astrophysics, 2018, 615, L3.	5.1	22
49	Lunar occultation of the diffuse radio sky: LOFAR measurements between 35 and 80ÂMHz. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2291-2305.	4.4	20
50	Stars and reionization: the cross-correlation of the 21â€‰cm line and the near-infrared background. Monthly Notices of the Royal Astronomical Society, 2014, 440, 298-306.	4.4	18
51	A Bayesian analysis of redshifted 21-cm HÂisignal and foregrounds: simulations for LOFAR. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1587-1600.	4.4	15
52	Simulating the 21Âcm forest detectable with LOFAR and SKA in the spectra of high-zGRBs. Monthly Notices of the Royal Astronomical Society, 2015, 453, 101-105.	4.4	15
53	Detectability of the 21-cm CMB cross-correlation from the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2010, 402, 2617-2625.	4.4	13
54	The multiphase and magnetized neutral hydrogen seen by LOFAR. Astronomy and Astrophysics, 2020, 644, L3.	5.1	12

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55	Predictions for the 21cm-galaxy cross-power spectrum observable with SKA and future galaxy surveys. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	11
56	Peering into the dark (ages) with low-frequency space interferometers. Experimental Astronomy, 2021, 51, 1641-1676.	3.7	10
57	Cosmic Dawn and Epoch of Reionization Foreground Removal with the SKA. , 2015, , .		10
58	Spectral index of synchrotron emission: insights from the diffuse and magnetised interstellar medium. Astronomy and Astrophysics, 2021, 651, A116.	5.1	9
59	Multi-tracer analysis of straight depolarisation canals in the surroundings of the 3C 196 field. Astronomy and Astrophysics, 2021, 654, A5.	5.1	8
60	Second order cross-correlation between kinetic Sunyaev-Zelâ€™dovich effect and 21-cm fluctuations from the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2011, 414, 3424-3433.	4.4	7
61	Extended X-ray emission from non-thermal sources in the COSMOS field: a detailed study of a large radio galaxy atz= 1.168. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2753-2763.	4.4	7
62	Faraday tomography of LoTSS-DR2 data. Astronomy and Astrophysics, 2022, 663, A7.	5.1	7
63	LOFAR Deep Fields: probing a broader population of polarized radio galaxies in ELAIS-N1. Astronomy and Astrophysics, 2021, 648, A12.	5.1	6
64	First look at the multiphase interstellar medium using synthetic observations from low-frequency Faraday tomography. Astronomy and Astrophysics, 2022, 663, A37.	5.1	5