

Vibor JeliÄ

List of Publications by Year in descending order

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Version: 2024-02-01

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	The LOFAR Two-metre Sky Survey. <i>Astronomy and Astrophysics</i> , 2022, 659, A1.	5.1	169
2	Faraday tomography of LoTSS-DR2 data. <i>Astronomy and Astrophysics</i> , 2022, 663, A7.	5.1	7
3	First look at the multiphase interstellar medium using synthetic observations from low-frequency Faraday tomography. <i>Astronomy and Astrophysics</i> , 2022, 663, A37.	5.1	5
4	Spectral index of synchrotron emission: insights from the diffuse and magnetised interstellar medium. <i>Astronomy and Astrophysics</i> , 2021, 651, A116.	5.1	9
5	LOFAR Deep Fields: probing a broader population of polarized radio galaxies in ELAIS-N1. <i>Astronomy and Astrophysics</i> , 2021, 648, A12.	5.1	6
6	The LOFAR Two-meter Sky Survey: Deep Fields Data Release 1. <i>Astronomy and Astrophysics</i> , 2021, 648, A2.	5.1	61
7	Peering into the dark (ages) with low-frequency space interferometers. <i>Experimental Astronomy</i> , 2021, 51, 1641-1676.	3.7	10
8	Multi-tracer analysis of straight depolarisation canals in the surroundings of the 3C 196 field. <i>Astronomy and Astrophysics</i> , 2021, 654, A5.	5.1	8
9	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
10	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
11	The multiphase and magnetized neutral hydrogen seen by LOFAR. <i>Astronomy and Astrophysics</i> , 2020, 644, L3.	5.1	12
12	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
13	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
14	Diffuse polarized emission in the LOFAR Two-meter Sky Survey. <i>Astronomy and Astrophysics</i> , 2019, 623, A71.	5.1	23
15	Polarization leakage in epoch of reionization windows – III. Wide-field effects of narrow-field arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3051-3062.	4.4	24
16	Wide-field LOFAR-LBA power-spectra analyses: impact of calibration, polarization leakage, and ionosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 1484-1501.	4.4	22
17	Polarized point sources in the LOFAR Two-meter Sky Survey: A preliminary catalog. <i>Astronomy and Astrophysics</i> , 2018, 613, A58.	5.1	29
18	Magnetically aligned straight depolarization canals and the rolling Hough transform. <i>Astronomy and Astrophysics</i> , 2018, 615, L3.	5.1	22

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19	The VLA-COSMOS 3 GHz Large Project: Continuum data and source catalog release. <i>Astronomy and Astrophysics</i> , 2017, 602, A1.	5.1	230
20	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
21	Recovering the H&#i%ii region size statistics from 21-cm tomography. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 1936-1954.	4.4	36
22	Faraday tomography of the local interstellar medium with LOFAR: Galactic foregrounds towards IC 342. <i>Astronomy and Astrophysics</i> , 2017, 597, A98.	5.1	55
23	Systematic biases in low-frequency radio interferometric data due to calibration: the LOFAR-EoR case. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 4317-4330.	4.4	73
24	Probing ionospheric structures using the LOFAR radio telescope. <i>Radio Science</i> , 2016, 51, 927-941.	1.6	95
25	The effect of foreground mitigation strategy on EoR window recovery. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2928-2939.	4.4	59
26	Polarization leakage in epoch of reionization windows â€“ II. Primary beam model and direction-dependent calibration. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 4482-4494.	4.4	26
27	Predictions for the 21 cm-galaxy cross-power spectrum observable with LOFAR and Subaru. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 666-675.	4.4	27
28	Effects of the sources of reionization on 21-cm redshift-space distortions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2080-2094.	4.4	24
29	A Bayesian analysis of redshifted 21-cm H&#i signal and foregrounds: simulations for LOFAR. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 1587-1600.	4.4	15
30	The LOFAR Multifrequency Snapshot Sky Survey (MSSS). <i>Astronomy and Astrophysics</i> , 2015, 582, A123.	5.1	85
31	Simulating the 21&#i cm forest detectable with LOFAR and SKA in the spectra of high-<i>GRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 101-105.	4.4	15
32	Lunar occultation of the diffuse radio sky: LOFAR measurements between 35 and 80&#i MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2291-2305.	4.4	20
33	Galactic interstellar filaments as probed by LOFAR and <i>Planck</i>. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 454, L46-L50.	3.3	27
34	Polarization leakage in epoch of reionization windows â€“ 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
35	Linear polarization structures in LOFAR observations of the interstellar medium in the 3C&#i 196 field. <i>Astronomy and Astrophysics</i> , 2015, 583, A137.	5.1	60
36	Cosmic Dawn and Epoch of Reionization Foreground Removal with the SKA. , 2015, , .		10

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37	The VLA-COSMOS Survey â€“ V. 324MHz continuum observations. Monthly Notices of the Royal Astronomical Society, 2014, 443, 2590-2598.	4.4	24
38	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
39	Stars and reionization: the cross-correlation of the 21cm line and the near-infrared background. Monthly Notices of the Royal Astronomical Society, 2014, 440, 298-306.	4.4	18
40	Initial LOFAR observations of epoch of reionization windows. Astronomy and Astrophysics, 2014, 568, A101.	5.1	67
41	Reionization and the Cosmic Dawn with the Square Kilometre Array. Experimental Astronomy, 2013, 36, 235-318.	3.7	255
42	LOFAR insights into the epoch of reionization from the cross-power spectrum of 21cm emission and galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2615-2624.	4.4	23
43	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
44	Probing reionization with LOFAR using 21-cm redshift space distortions. Monthly Notices of the Royal Astronomical Society, 2013, 435, 460-474.	4.4	69
45	Prospects for detecting the 21cm forest from the diffuse intergalactic medium with LOFAR. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1755-1765.	4.4	22
46	Studying Galactic interstellar turbulence through fluctuations in synchrotron emission. Astronomy and Astrophysics, 2013, 558, A72.	5.1	78
47	The LOFAR radio environment. Astronomy and Astrophysics, 2013, 549, A11.	5.1	63
48	LOFAR: The LOW-Frequency ARray. Astronomy and Astrophysics, 2013, 556, A2.	5.1	1,755
49	Initial deep LOFAR observations of epoch of reionization windows. Astronomy and Astrophysics, 2013, 550, A136.	5.1	128
50	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
51	Extended X-ray emission from non-thermal sources in the COSMOS field: a detailed study of a large radio galaxy at $z = 1.168$. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2753-2763.	4.4	7
52	Foreground removal using <i>fastICA</i> : a showcase of LOFAR-EoR. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2518-2532.	4.4	141
53	Second order cross-correlation between kinetic Sunyaev-Zeldovich effect and 21-cm fluctuations from the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2011, 414, 3424-3433.	4.4	7
54	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

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55	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
56	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
57	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
58	Foregrounds for observations of the cosmological 21Åcm line. Astronomy and Astrophysics, 2010, 522, A67.	5.1	94
59	Foregrounds for observations of the cosmological 21Åcm line. Astronomy and Astrophysics, 2009, 500, 965-979.	5.1	148
60	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
61	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
62	Fast large-scale reionization simulations. Monthly Notices of the Royal Astronomical Society, 2009, 393, 32-48.	4.4	91
63	Foreground simulations for the LOFAR-epoch of reionization experiment. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1319-1335.	4.4	217
64	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