Bharat Kumar Gehlot

List of Publications by Year
in descending order

16 papers	778 citations	759233 12 h-index	996975 15 g-index
16 all docs	16 docs citations	16 times ranked	486 citing authors

#	Article	IF	Citations
1	Upper Limits on the 21 cm Epoch of Reionization Power Spectrum from One Night with LOFAR. Astrophysical Journal, 2017, 838, 65.	4.5	219
2	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
3	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
4	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
5	Tight constraints on the excess radio background at zÂ= 9.1 from LOFAR. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4178-4191.	4.4	55
6	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
7	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
8	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
9	The AARTFAAC Cosmic Explorer: observations of the 21-cm power spectrum in the EDGES absorption trough. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4158-4173.	4.4	23
10	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
11	Precision requirements for interferometric gridding in the analysis of a 21 cm power spectrum. Astronomy and Astrophysics, 2019, 631, A12.	5.1	17
12	A numerical study of 21-cm signal suppression and noise increase in direction-dependent calibration of LOFAR data. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3693-3702.	4.4	15
13	Statistical analysis of the causes of excess variance in the 21 cm signal power spectra obtained with the Low-Frequency Array. Astronomy and Astrophysics, 2022, 663, A9.	5.1	6
14	Degree-scale galactic radio emission at 122 MHz around the North Celestial Pole with LOFAR-AARTFAAC. Astronomy and Astrophysics, 2022, 662, A97.	5.1	3
15	Effects of model incompleteness on the drift-scan calibration of radio telescopes. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4578-4592.	4.4	2
16	Characterization of the AARTFAAC-12 aperture array: radio source counts at 42 and 61ÂMHz. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1036-1045.	4.4	1