# Bharat Kumar Gehlot

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 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 | 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 |
| 11 | 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 |
| 12 | Precision requirements for interferometric gridding in the analysis of a 21 cm power spectrum. Astronomy and Astrophysics, 2019, 631, A12. | 5.1 | 17 |
| 13 | 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 |
| 14 | 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 |
| 15 | Upper Limits on the 21 cm Epoch of Reionization Power Spectrum from One Night with LOFAR. Astrophysical Journal, 2017, 838, 65. | 4.5 | 219 |
| 16 | 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 |