

Nicolas Fagnoni

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

980
citations

623734

14
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

657
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Detection of Antenna Malfunctions in Large Interferometers: A Case Study With the Hydrogen Epoch of Reionization Array. <i>Radio Science</i> , 2022, 57, .	1.6	2
2	HERA Phase I Limits on the Cosmic 21 cm Signal: Constraints on Astrophysics and Cosmology during the Epoch of Reionization. <i>Astrophysical Journal</i> , 2022, 924, 51.	4.5	63
3	Validation of the HERA Phase I Epoch of Reionization 21 cm Power Spectrum Software Pipeline. <i>Astrophysical Journal</i> , 2022, 924, 85.	4.5	11
4	First Results from HERA Phase I: Upper Limits on the Epoch of Reionization 21 cm Power Spectrum. <i>Astrophysical Journal</i> , 2022, 925, 221.	4.5	82
5	Radio Antenna Design for Sky-Averaged 21cm Cosmology Experiments: The REACH Case. <i>Journal of Astronomical Instrumentation</i> , 2022, 11, .	1.5	11
6	Simulations of primary beam effects on the cosmic bispectrum phase observed with the Hydrogen Epoch of Reionization Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2716-2727.	4.4	1
7	Array element coupling in radio interferometry I: a semi-analytic approach. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1804-1827.	4.4	7
8	Effects of model incompleteness on the drift-scan calibration of radio telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 4578-4592.	4.4	2
9	Design of the New Wideband Vivaldi Feed for the HERA Radio-Telescope Phase II. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 8143-8157.	5.1	10
10	Quantifying EoR delay spectrum contamination from diffuse radio emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3712-3727.	4.4	11
11	Detection of cosmic structures using the bispectrum phase. II. First results from application to cosmic reionization using the Hydrogen Epoch of Reionization Array. <i>Physical Review D</i> , 2020, 102, .	4.7	17
12	Foreground modelling via Gaussian process regression: an application to HERA data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2813-2826.	4.4	19
13	Absolute Calibration Strategies for the Hydrogen Epoch of Reionization Array and Their Impact on the 21 cm Power Spectrum. <i>Astrophysical Journal</i> , 2020, 890, 122.	4.5	35
14	Mitigating Internal Instrument Coupling for 21 cm Cosmology. II. A Method Demonstration with the Hydrogen Epoch of Reionization Array. <i>Astrophysical Journal</i> , 2020, 888, 70.	4.5	41
15	Imaging and Modeling Data from the Hydrogen Epoch of Reionization Array. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 67.	7.7	7
16	Redundant-baseline calibration of the hydrogen epoch of reionization array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5840-5861.	4.4	33
17	Understanding the HERA Phase I receiver system with simulations and its impact on the detectability of the EoR delay power spectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1232-1242.	4.4	29
18	<tt>DAYENU:</tt> a simple filter of smooth foregrounds for intensity mapping power spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 5195-5213.	4.4	21

#	ARTICLE	IF	CITATIONS
19	Measuring HERA's Primary Beam in Situ: Methodology and First Results. <i>Astrophysical Journal</i> , 2020, 897, 5.	4.5	8
20	Optimizing sparse RFI prediction using deep learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2605-2615.	4.4	29
21	The HERA-19 Commissioning Array: Direction-dependent Effects. <i>Astrophysical Journal</i> , 2019, 882, 58.	4.5	20
22	Mitigating Internal Instrument Coupling for 21 cm Cosmology. I. Temporal and Spectral Modeling in Simulations. <i>Astrophysical Journal</i> , 2019, 884, 105.	4.5	42
23	Antenna design for the SKA1-LOW and HERA super radio telescopes. , 2018, , .		8
24	The hydrogen epoch of reionization array dish III: measuring chromaticity of prototype element with reflectometry. <i>Experimental Astronomy</i> , 2018, 45, 177-199.	3.7	19
25	Hydrogen Epoch of Reionization Array (HERA). <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 045001.	3.1	448
26	The "Hydrogen Epoch of Reionization Array" (HERA) " Improvement of the antenna response with a matching network and scientific impacts. , 2016, , .		4