

# Nirupam Roy

## List of Publications by Year in descending order

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62  
papers

784  
citations

516215

16  
h-index

580395

25  
g-index

62  
all docs

62  
docs citations

62  
times ranked

973  
citing authors

#	ARTICLE	IF	CITATIONS
1	The GMRT archive atomic gas survey – I. Survey definition, methodology, and initial results from the pilot sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 168-185.	1.6	2
2	Calibration requirements for Epoch of Reionization 21-cm signal observations – II. Analytical estimation of the bias and variance with time-correlated residual gains. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 186-198.	1.6	4
3	Possible TeV Gamma-Ray Binary Origin of HESS J1828+099. <i>Astrophysical Journal Letters</i> , 2022, 927, L35.	3.0	3
4	Stringent constraint on the radio signal from dark matter annihilation in dwarf spheroidal galaxies using the TGSS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1605-1611.	1.6	8
5	The auto- and cross-angular power spectrum of the Cas A supernova remnant in radio and X-ray. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 5313-5324.	1.6	3
6	A global view on star formation: the GLOSTAR Galactic plane survey. <i>Astronomy and Astrophysics</i> , 2021, 651, A87.	2.1	14
7	First Multi-redshift Limits on Post-Epoch of Reionization 21 cm Signal from $z=1.96-3.58$ Using uGMRT. <i>Astrophysical Journal Letters</i> , 2021, 907, L7.	3.0	14
8	The magnetic field in the dense photodissociation region of DR21. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4825-4836.	1.6	3
9	Classical Novae at Radio Wavelengths. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 49.	3.0	12
10	All-sky angular power spectrum – I. Estimating brightness temperature fluctuations using the 150-MHz TGSS survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1936-1945.	1.6	17
11	Characterizing EoR foregrounds: a study of the Lockman Hole region at 325 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 4071-4084.	1.6	12
12	Hypermassive black holes have faint broad and narrow emission lines. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2992-3010.	1.6	1
13	Calibration requirements for epoch of reionization 21-cm signal observations – I. Effect of time-correlated gains. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3683-3694.	1.6	10
14	Regulation of accretion by its outflow in a symbiotic star: the 2016 outflow fast state of MWC 560. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3107-3127.	1.6	15
15	Gas-dust correlations in nearby galaxies: a case study of NGC 3184 and NGC 7793. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 2517-2527.	1.6	3
16	The study of the angular and spatial distribution of radio-selected AGNs and star-forming galaxies in the ELAIS N1 field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 3392-3404.	1.6	9
17	Characterization of unresolved and unclassified sources detected in radio continuum surveys of the Galactic plane. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 2236-2240.	1.6	8
18	Milky Way globular cluster dynamics: are they preferentially co-rotating?. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 130.	0.7	0

#	ARTICLE	IF	CITATIONS
19	Instrumental Calibration for Observations of Redshifted 21-cm Signal from Neutral Hydrogen. , 2020, ,		0
20	Search for H i emission from superdisk candidates associated with radio galaxies. Research in Astronomy and Astrophysics, 2019, 19, 083.	0.7	1
21	A study of Kepler supernova remnant: angular power spectrum estimation from radio frequency data. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5866-5875.	1.6	8
22	Detailed study of ELAIS N1 field with the uGMRT " II. Source properties and spectral variation of foreground power spectrum from 300"500MHz observations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 243-259.	1.6	28
23	High-velocity H" jet-like feature towards the SNR candidate G351.7"1.2. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 488, L59-L63.	1.2	0
24	Estimating the kinetic temperature from H" 21-cm absorption studies: correction for turbulence broadening. Monthly Notices of the Royal Astronomical Society, 2019, 483, 593-598.	1.6	10
25	Turbulent power spectrum in warm and cold neutral medium using the Galactic H" 21cm emission. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3437-3443.	1.6	8
26	On estimating the atomic hydrogen column density from the H" 21cm emission spectra. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 480, L126-L130.	1.2	5
27	Confirmation Of Two Galactic Supernova Remnant Candidates Discovered by THOR. Astrophysical Journal, 2018, 866, 61.	1.6	8
28	Detection of the Galactic warm neutral medium in H" 21-cm absorption. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 479, L7-L11.	1.2	5
29	C ii RADIATIVE COOLING OF THE GALATIC DIFFUSE INTERSTELLAR MEDIUM: INSIGHT INTO THE STAR FORMATION IN DAMPED Ly" SYSTEMS. Astrophysical Journal, 2017, 834, 171.	1.6	6
30	Validating a novel angular power spectrum estimator using simulated low frequency radio-interferometric data. New Astronomy, 2017, 57, 94-103.	0.8	6
31	The angular power spectrum measurement of the Galactic synchrotron emission in two fields of the TGSS survey. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 470, L11-L15.	1.2	18
32	The angular power spectrum measurement of the Galactic synchrotron emission using the TGSS survey. Proceedings of the International Astronomical Union, 2017, 12, 157-161.	0.0	0
33	The visibility-based tapered gridded estimator (TGE) for the redshifted 21-cm power spectrum. Monthly Notices of the Royal Astronomical Society, 2016, 463, 4093-4107.	1.6	38
34	Prospects of Measuring the Angular Power Spectrum of the Diffuse Galactic Synchrotron Emission with SKA1 Low. Journal of Astrophysics and Astronomy, 2016, 37, 1.	0.4	1
35	Tapering the sky response for angular power spectrum estimation from low-frequency radio-interferometric data. Monthly Notices of the Royal Astronomical Society, 2016, 459, 151-156.	1.6	26
36	Insights into the evolution of symbiotic recurrent novae from radio synchrotron emission: V745 Scorpii and RS Ophiuchi. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 456, L49-L53.	1.2	12

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37	Multiphase Turbulent Interstellar Medium: Some Recent Results from Radio Astronomy. Proceedings of the Indian National Science Academy, 2015, 81, .	0.5	2
38	The structure function of Galactic H $\alpha$ opacity fluctuations on au scales based on MERLIN, VLA and VLBA data. Monthly Notices of the Royal Astronomical Society, 2014, 442, 647-655.	1.6	10
39	THE 2011 OUTBURST OF RECURRENT NOVA T Pyx: X-RAY OBSERVATIONS EXPOSE THE WHITE DWARF MASS AND EJECTION DYNAMICS. Astrophysical Journal, 2014, 788, 130.	1.6	30
40	THE 2011 OUTBURST OF RECURRENT NOVA T PYX: RADIO OBSERVATIONS REVEAL THE EJECTA MASS AND HINT AT COMPLEX MASS LOSS. Astrophysical Journal, 2014, 785, 78.	1.6	33
41	Binary orbits as the driver of $\hat{\Gamma}^3$ -ray emission and mass ejection in classical novae. Nature, 2014, 514, 339-342.	13.7	90
42	The temperature of the diffuse H $\alpha$ in the Milky Way - II. Gaussian decomposition of the H $\alpha$ -21 $\hat{\alpha}$ cm absorption spectra. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2366-2385.	1.6	38
43	Accurate measurement of the H $\alpha$ column density from H $\alpha$ -21 $\hat{\alpha}$ cm absorption-emission spectroscopy. Monthly Notices of the Royal Astronomical Society, 2013, 432, 3074-3079.	1.6	28
44	The temperature of the diffuse H $\alpha$ in the Milky Way $\hat{\alpha}$ I. High resolution H $\alpha$ -21 $\hat{\alpha}$ cm absorption studies. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2352-2365.	1.6	39
45	Stringent constraints on the H $\alpha$ spin temperature in two z $\hat{\alpha}$ 3 damped Lyman $\hat{\alpha}$ systems from redshifted 21 $\hat{\alpha}$ cm absorption studies. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 436, L94-L98.	1.2	8
46	THE RADIO LIGHT CURVE OF THE GAMMA-RAY NOVA IN V407 CYG: THERMAL EMISSION FROM THE IONIZED SYMBIOTIC ENVELOPE, DEVoured FROM WITHIN BY THE NOVA BLAST. Astrophysical Journal, 2012, 761, 173.	1.6	33
47	An H $\alpha$ shell-like structure associated with nova V458 Vulpeculae?. Monthly Notices of the Royal Astronomical Society: Letters, 2012, , no-no.	1.2	3
48	TINY SCALE OPACITY FLUCTUATIONS FROM VLBA, MERLIN, AND VLA OBSERVATIONS OF H I ABSORPTION TOWARD 3C 138. Astrophysical Journal, 2012, 749, 144.	1.6	19
49	EXPANDED VERY LARGE ARRAY NOVA PROJECT OBSERVATIONS OF THE CLASSICAL NOVA V1723 AQUILAE. Astrophysical Journal Letters, 2011, 739, L6.	3.0	20
50	IMAGING OF THE CCS 22.3 GHz EMISSION IN THE TAURUS MOLECULAR CLOUD COMPLEX. Astrophysical Journal Letters, 2011, 739, L4.	3.0	6
51	Constraining the MOdified Newtonian Dynamics from spherically symmetrical hydrodynamic accretion. Monthly Notices of the Royal Astronomical Society, 2011, 413, 2873-2876.	1.6	0
52	EFFECT OF DARK MATTER HALO SUBSTRUCTURES ON GALAXY ROTATION CURVES. Astrophysical Journal, 2010, 723, 781-786.	1.6	1
53	H $\hat{\alpha}$ 21 cm opacity fluctuations power spectra towards Cassiopeia A. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 404, L45-L49.	1.2	19
54	The curious case of J113924.74+164144.0: a possible new group of galaxies at $\langle z \rangle = 0.069$ . Monthly Notices of the Royal Astronomical Society: Letters, 2010, 407, L64-L68.	1.2	0

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55	Fractal features in accretion discs. Monthly Notices of the Royal Astronomical Society, 2009, 397, 1374-1385.	1.6	10
56	Magnetohydrodynamic turbulence in supernova remnants. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 393, L26-L30.	1.2	19
57	Turbulence measurements from H <sub>i</sub> absorption spectra. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 387, L18-L22.	1.2	16
58	H <sub>i</sub> aperture synthesis and optical observations of the pair of galaxies NGC 6907 and 6908. Monthly Notices of the Royal Astronomical Society, 2008, 386, 963-972.	1.6	9
59	Occultation Observation to Probe the Turbulence Scale Size in the Plasma Tail of Comet Schwassmann-Wachmann 3-B. Astrophysical Journal, 2007, 668, L67-L70.	1.6	3
60	Critical properties of spherically symmetric accretion in a fractal medium. Monthly Notices of the Royal Astronomical Society, 2007, 380, 733-740.	1.6	12
61	Detailed study of the ELAIS N1 field with the uGMRT - I. Characterizing the 325 MHz foreground for redshifted 21 cm observations. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	17
62	Angular power spectrum of supernova remnants: effects of structure, geometry and diffuse foreground. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	1