

Nirupam Roy

List of Publications by Year in descending order

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62
papers

784
citations

516215
16
h-index

580395
25
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62
all docs

62
docs citations

62
times ranked

973
citing authors

#	ARTICLE	IF	CITATIONS
1	Binary orbits as the driver of \hat{f}^3 -ray emission and mass ejection in classical novae. <i>Nature</i> , 2014, 514, 339-342.	13.7	90
2	The temperature of the diffuse H&#i%oi in the Milky Way “ I. High resolution H&#i%oi-21 %cm absorption studies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 2352-2365.	1.6	39
3	The temperature of the diffuse H&#i%oi in the Milky Way - II. Gaussian decomposition of the H&#i%oi-21 %cm absorption spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 2366-2385.	1.6	38
4	The visibility-based tapered gridded estimator (TGE) for the redshifted 21-cm power spectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 4093-4107.	1.6	38
5	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. <i>Astrophysical Journal</i> , 2012, 761, 173.	1.6	33
6	THE 2011 OUTBURST OF RECURRENT NOVA T PYX: RADIO OBSERVATIONS REVEAL THE EJECTA MASS AND HINT AT COMPLEX MASS LOSS. <i>Astrophysical Journal</i> , 2014, 785, 78.	1.6	33
7	THE 2011 OUTBURST OF RECURRENT NOVA T Pyx: X-RAY OBSERVATIONS EXPOSE THE WHITE DWARF MASS AND EJECTION DYNAMICS. <i>Astrophysical Journal</i> , 2014, 788, 130.	1.6	30
8	Accurate measurement of the H&#i%oi column density from H&#i%oi 21 %cm absorption-emission spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 3074-3079.	1.6	28
9	Detailed study of ELAIS N1 field with the uGMRT “ II. Source properties and spectral variation of foreground power spectrum from 300�“mHz observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 243-259.	1.6	28
10	Tapering the sky response for angular power spectrum estimation from low-frequency radio-interferometric data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 151-156.	1.6	26
11	EXPANDED VERY LARGE ARRAY NOVA PROJECT OBSERVATIONS OF THE CLASSICAL NOVA V1723 AQUILAE. <i>Astrophysical Journal Letters</i> , 2011, 739, L6.	3.0	20
12	Magnetohydrodynamic turbulence in supernova remnants. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 393, L26-L30.	1.2	19
13	H <sc>i</sc> 21 cm opacity fluctuations power spectra towards Cassiopeia A. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 404, L45-L49.	1.2	19
14	TINY SCALE OPACITY FLUCTUATIONS FROM VLBA, MERLIN, AND VLA OBSERVATIONS OF H I ABSORPTION TOWARD 3C 138. <i>Astrophysical Journal</i> , 2012, 749, 144.	1.6	19
15	The angular power spectrum measurement of the Galactic synchrotron emission in two fields of the TGSS survey. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 470, L11-L15.	1.2	18
16	Detailed study of the ELAIS N1 field with the uGMRT - I. Characterizing the 325“mHz foreground for redshifted 21“m observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	17
17	All-sky angular power spectrum““. 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
18	Turbulence measurements from H<sc>i</sc> absorption spectra. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008, 387, L18-L22.	1.2	16

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19	Regulation of accretion by its outflow in a symbiotic star: the 2016 outflow fast state of MWC 560. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3107-3127.	1.6	15
20	A global view on star formation: the GLOSTAR Galactic plane survey. Astronomy and Astrophysics, 2021, 651, A87.	2.1	14
21	First Multi-redshift Limits on Post-Epoch of Reionization 21 cm Signal from $z=1.96-3.58$ Using uGMRT. Astrophysical Journal Letters, 2021, 907, L7.	3.0	14
22	Critical properties of spherically symmetric accretion in a fractal medium. Monthly Notices of the Royal Astronomical Society, 2007, 380, 733-740.	1.6	12
23	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
24	Characterizing EoR foregrounds: a study of the Lockman Hole region at 325 MHz. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4071-4084.	1.6	12
25	Classical Novae at Radio Wavelengths. Astrophysical Journal, Supplement Series, 2021, 257, 49.	3.0	12
26	Fractal features in accretion discs. Monthly Notices of the Royal Astronomical Society, 2009, 397, 1374-1385.	1.6	10
27	The structure function of Galactic HI 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
28	Estimating the kinetic temperature from HI 21-cm absorption studies: correction for turbulence broadening. Monthly Notices of the Royal Astronomical Society, 2019, 483, 593-598.	1.6	10
29	Calibration requirements for epoch of reionization 21-cm signal observations I. Effect of time-correlated gains. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3683-3694.	1.6	10
30	HI 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
31	The study of the angular and spatial distribution of radio-selected AGNs and star-forming galaxies in the ELAIS N1 field. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3392-3404.	1.6	9
32	Stringent constraints on the HI spin temperature in two $z > 3$ damped Lyman α systems from redshifted 21 cm absorption studies. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 436, L94-L98.	1.2	8
33	Confirmation Of Two Galactic Supernova Remnant Candidates Discovered by THOR. Astrophysical Journal, 2018, 866, 61.	1.6	8
34	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
35	Turbulent power spectrum in warm and cold neutral medium using the Galactic HI 21 cm emission. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3437-3443.	1.6	8
36	Characterization of unresolved and unclassified sources detected in radio continuum surveys of the Galactic plane. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2236-2240.	1.6	8

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37	Stringent constraint on the radio signal from dark matter annihilation in dwarf spheroidal galaxies using the TGSS. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1605-1611.	1.6	8
38	IMAGING OF THE CCS 22.3 GHz EMISSION IN THE TAURUS MOLECULAR CLOUD COMPLEX. Astrophysical Journal Letters, 2011, 739, L4.	3.0	6
39	C ii RADIATIVE COOLING OF THE GALACTIC DIFFUSE INTERSTELLAR MEDIUM: INSIGHT INTO THE STAR FORMATION IN DAMPED Ly α SYSTEMS. Astrophysical Journal, 2017, 834, 171.	1.6	6
40	Validating a novel angular power spectrum estimator using simulated low frequency radio-interferometric data. New Astronomy, 2017, 57, 94-103.	0.8	6
41	On estimating the atomic hydrogen column density from the H&%lt;scpi> 21ɬm emission spectra. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 480, L126-L130.	1.2	5
42	Detection of the Galactic warm neutral medium in H&%lt;scpi> 21-cm absorption. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 479, L7-L11.	1.2	5
43	Calibration requirements for Epoch of Reionization 21-cm signal observations &quot; II. Analytical estimation of the bias and variance with time-correlated residual gains. Monthly Notices of the Royal Astronomical Society, 2022, 512, 186-198.	1.6	4
44	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
45	An Hɯ<scpi> shell-like structure associated with nova V458 Vulpeculae?. Monthly Notices of the Royal Astronomical Society: Letters, 2012, , no-no.	1.2	3
46	Gas-dust correlations in nearby galaxies: a case study of NGC 3184 and NGC 7793. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2517-2527.	1.6	3
47	The auto- and cross-angular power spectrum of the Cas A supernova remnant in radio and X-ray. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5313-5324.	1.6	3
48	The magnetic field in the dense photodissociation region of DR☡. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4825-4836.	1.6	3
49	Possible TeV Gamma-Ray Binary Origin of HESS J1828&quot;099. Astrophysical Journal Letters, 2022, 927, L35.	3.0	3
50	Multiphase Turbulent Interstellar Medium: Some Recent Results from Radio Astronomy. Proceedings of the Indian National Science Academy, 2015, 81, .	0.5	2
51	The GMRT archive atomic gas survey &quot; I. Survey definition, methodology, and initial results from the pilot sample. Monthly Notices of the Royal Astronomical Society, 2022, 513, 168-185.	1.6	2
52	EFFECT OF DARK MATTER HALO SUBSTRUCTURES ON GALAXY ROTATION CURVES. Astrophysical Journal, 2010, 723, 781-786.	1.6	1
53	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
54	Search for H i emission from superdisk candidates associated with radio galaxies. Research in Astronomy and Astrophysics, 2019, 19, 083.	0.7	1

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55	Hypermassive black holes have faint broad and narrow emission lines. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2992-3010.	1.6	1
56	Angular power spectrum of supernova remnants: effects of structure, geometry and diffuse foreground. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	1
57	The curious case of J113924.74+164144.0: a possible new group of galaxies at $z = 0.069$. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 407, L64-L68.	1.2	0
58	Constraining the MODified Newtonian Dynamics from spherically symmetrical hydrodynamic accretion. Monthly Notices of the Royal Astronomical Society, 2011, 413, 2873-2876.	1.6	0
59	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
60	High-velocity H α 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
61	Milky Way globular cluster dynamics: are they preferentially co-rotating?. Research in Astronomy and Astrophysics, 2020, 20, 130.	0.7	0
62	Instrumental Calibration for Observations of Redshifted 21-cm Signal from Neutral Hydrogen. , 2020, , .		0