

Ravi Subrahmanyam

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,474
citations

201674

27
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206112

48
g-index

62
all docs

62
docs citations

62
times ranked

2240
citing authors

#	ARTICLE	IF	CITATIONS
1	The Australia Telescope 20 GHz Survey: the source catalogue. Monthly Notices of the Royal Astronomical Society, 2010, 402, 2403-2423.	4.4	298
2	IMAGING THE EPOCH OF REIONIZATION: LIMITATIONS FROM FOREGROUND CONFUSION AND IMAGING ALGORITHMS. Astrophysical Journal, 2012, 745, 176.	4.5	175
3	A STUDY OF FUNDAMENTAL LIMITATIONS TO STATISTICAL DETECTION OF REDSHIFTED H I FROM THE EPOCH OF REIONIZATION. Astrophysical Journal, 2013, 776, 6.	4.5	123
4	On the detection of a cosmic dawn signal in the radio background. Nature Astronomy, 2022, 6, 607-617.	10.1	106
5	The Redshifted 21 cm Signal in the EDGES Low-band Spectrum. Astrophysical Journal, 2019, 880, 26.	4.5	95
6	Improving the Epoch of Reionization Power Spectrum Results from Murchison Widefield Array Season 1 Observations. Astrophysical Journal, 2019, 884, 1.	4.5	92
7	First Results on the Epoch of Reionization from First Light with SARAS 2. Astrophysical Journal Letters, 2017, 845, L12.	8.3	88
8	Modulations in the radio light curve of the Type IIb supernova 2001ig: evidence for a Wolf-Rayet binary progenitor?. Monthly Notices of the Royal Astronomical Society, 2004, 349, 1093-1100.	4.4	85
9	The Australia Telescope 20-GHz (AT20G) Survey: the Bright Source Sample. Monthly Notices of the Royal Astronomical Society, 0, 384, 775-802.	4.4	83
10	The Australia Telescope 20GHz (AT20G) Survey: analysis of the extragalactic source sample. Monthly Notices of the Royal Astronomical Society, 2011, 412, 318-330.	4.4	76
11	SARAS: a precision system for measurement of the cosmic radio background and signatures from the epoch of reionization. Experimental Astronomy, 2013, 36, 319-370.	3.7	76
12	SARAS 2 Constraints on Global 21 cm Signals from the Epoch of Reionization. Astrophysical Journal, 2018, 858, 54.	4.5	76
13	A Case for Renewed Activity in the Giant Radio Galaxy J0116+473. Astrophysical Journal, 2002, 565, 256-264.	4.5	67
14	SARAS 2: a spectral radiometer for probing cosmic dawn and the epoch of reionization through detection of the global 21-cm signal. Experimental Astronomy, 2018, 45, 269-314.	3.7	59
15	IS THERE AN UNACCOUNTED FOR EXCESS IN THE EXTRAGALACTIC COSMIC RADIO BACKGROUND?. Astrophysical Journal, 2013, 776, 42.	4.5	56
16	Renewed Activity in the Radio Galaxy PKS B1545+321: Twin Edge-brightened Beams within Diffuse Radio Lobes. Astrophysical Journal, 2003, 590, 181-191.	4.5	55
17	On the Relationship between a Giant Radio Galaxy MSH 05-22 and the Ambient Large-scale Galaxy Structure. Astrophysical Journal, 2008, 677, 63-78.	4.5	54
18	THE GENESIS OF MORPHOLOGIES IN EXTENDED RADIO SOURCES: X-SHAPES, OFF-AXIS DISTORTIONS, AND GIANT RADIO SOURCES. Astrophysical Journal, 2009, 695, 156-170.	4.5	54

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19	SARAS MEASUREMENT OF THE RADIO BACKGROUND AT LONG WAVELENGTHS. <i>Astrophysical Journal</i> , 2015, 801, 138.	4.5	53
20	First results from the Australia Telescope Compact Array 18-GHz pilot survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 354, 305-320.	4.4	50
21	An Australia Telescope survey for CMB anisotropies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 315, 808-822.	4.4	40
22	FIRST SPECTROSCOPIC IMAGING OBSERVATIONS OF THE SUN AT LOW RADIO FREQUENCIES WITH THE MURCHISON WIDEFIELD ARRAY PROTOTYPE. <i>Astrophysical Journal Letters</i> , 2011, 728, L27.	8.3	38
23	The temperature of the warm neutral medium in the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 346, L57-L61.	4.4	35
24	ON THE DETECTION OF SPECTRAL RIPPLES FROM THE RECOMBINATION EPOCH. <i>Astrophysical Journal</i> , 2015, 810, 3.	4.5	35
25	Extragalactic sources towards the central region of the Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 360, 1305-1324.	4.4	33
26	Serendipitous discovery of a dying Giant Radio Galaxy associated with NGC 1534, using the Murchison Widefield Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2468-2478.	4.4	31
27	PKS B1400+33: An Unusual Radio Relic in a Poor Cluster. <i>Astronomical Journal</i> , 2003, 125, 1095-1106.	4.7	31
28	Modeling the Radio Foreground for Detection of CMB Spectral Distortions from the Cosmic Dawn and the Epoch of Reionization. <i>Astrophysical Journal</i> , 2017, 840, 33.	4.5	30
29	GMOSS: ALL-SKY MODEL OF SPECTRAL RADIO BRIGHTNESS BASED ON PHYSICAL COMPONENTS AND ASSOCIATED RADIATIVE PROCESSES. <i>Astronomical Journal</i> , 2017, 153, 26.	4.7	29
30	Wavelet-based Characterization of Small-scale Solar Emission Features at Low Radio Frequencies. <i>Astrophysical Journal</i> , 2017, 843, 19.	4.5	26
31	LOW-FREQUENCY IMAGING OF FIELDS AT HIGH GALACTIC LATITUDE WITH THE MURCHISON WIDEFIELD ARRAY 32 ELEMENT PROTOTYPE. <i>Astrophysical Journal</i> , 2012, 755, 47.	4.5	25
32	ON THE DETECTION OF GLOBAL 21-cm SIGNAL FROM REIONIZATION USING INTERFEROMETERS. <i>Astrophysical Journal</i> , 2015, 815, 88.	4.5	23
33	SARAS 3 CD/EoR radiometer: design and performance of the receiver. <i>Experimental Astronomy</i> , 2021, 51, 193-234.	3.7	23
34	Electron temperatures in the Galactic H II regions W43 and M17. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 281, 239-244.	4.4	20
35	Radio Continuum Structure of the Orion Nebula. <i>Astronomical Journal</i> , 2001, 121, 399-407.	4.7	20
36	THE ABUNDANCE OF X-SHAPED RADIO SOURCES. I. VLA SURVEY OF 52 SOURCES WITH OFF-AXIS DISTORTIONS. <i>Astrophysical Journal, Supplement Series</i> , 2015, 220, 7.	7.7	19

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37	A digital-receiver for the Murchison Widefield Array. <i>Experimental Astronomy</i> , 2015, 39, 73-93.	3.7	17
38	Assessment of Ionospheric Activity Tolerances for Epoch of Reionization Science with the Murchison Widefield Array. <i>Astrophysical Journal</i> , 2018, 867, 15.	4.5	17
39	DELAY SPECTRUM WITH PHASE-TRACKING ARRAYS: EXTRACTING THE H I POWER SPECTRUM FROM THE EPOCH OF REIONIZATION. <i>Astrophysical Journal</i> , 2016, 833, 213.	4.5	15
40	What are “X-shaped” Radio Sources Telling Us? I. Very Large Array Imaging of a Large Sample of Candidate XRGs. <i>Astrophysical Journal</i> , 2018, 852, 47.	4.5	15
41	SGRS J0515+8100: A Fat Double Giant Radio Galaxy. <i>Astrophysical Journal</i> , 2006, 636, 172-180.	4.5	12
42	An Octave Bandwidth Frequency Independent Dipole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2013, 61, 3411-3419.	5.1	12
43	THE ABUNDANCE OF X-SHAPED RADIO SOURCES: IMPLICATIONS FOR THE GRAVITATIONAL WAVE BACKGROUND. <i>Astrophysical Journal Letters</i> , 2015, 810, L6.	8.3	11
44	The Australia telescope 20 GHz survey: hardware, observing strategy, and scanning survey catalog. <i>Experimental Astronomy</i> , 2011, 32, 147-177.	3.7	10
45	STUDY OF REDSHIFTED H I FROM THE EPOCH OF REIONIZATION WITH DRIFT SCAN. <i>Astrophysical Journal</i> , 2014, 793, 28.	4.5	10
46	SARAS CD/EoR Radiometer: Design and Performance of the Digital Correlation Spectrometer. <i>Journal of Astronomical Instrumentation</i> , 2020, 09, .	1.5	10
47	Peering into the dark (ages) with low-frequency space interferometers. <i>Experimental Astronomy</i> , 2021, 51, 1641-1676.	3.7	10
48	Constraints on structure formation models from the Sunyaev-Zel'dovich effect. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 312, 724-732.	4.4	7
49	A measurement of the cosmic microwave background temperature 1280 MHz. <i>Journal of Astrophysics and Astronomy</i> , 2000, 21, 1-17.	1.0	6
50	Hydrogen 2 <i>p</i> →2 <i>s</i> Transition: Signals from the Epochs of Recombination and Reionization. <i>Astrophysical Journal</i> , 2007, 664, 1-7.	4.5	6
51	The alignment of distant radio sources. <i>Nature</i> , 1985, 313, 463-465.	27.8	5
52	330-MHz radio continuum observations of the H II regions M42 and M43. <i>Monthly Notices of the Royal Astronomical Society</i> , 1992, 254, 291-294.	4.4	5
53	Contaminants in ATCA baselines with shadowing: a case study of cross-talk in short-spacing interferometers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 349, 1365-1380.	4.4	5
54	A Floating Octave Bandwidth Cone-Disk Antenna for Detection of Cosmic Dawn. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 6209-6217.	5.1	5

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55	A thermal plume in NGC 2024. Monthly Notices of the Royal Astronomical Society, 1997, 290, 431-438.	4.4	4
56	A search for protoclusters at $z = 3.3$. Journal of Astrophysics and Astronomy, 1990, 11, 221-235.	1.0	3
57	An observational constraint on the existence of proto-superclusters at $z = 3.3$. Journal of Astrophysics and Astronomy, 1990, 11, 237-253.	1.0	3
58	18 GHz SZ Measurements of the Bullet Cluster. Journal of Astrophysics and Astronomy, 2011, 32, 541-544.	1.0	3
59	Episodic ejection from super-massive black holes. Proceedings of the International Astronomical Union, 2006, 2, 441-442.	0.0	2
60	Microwave background radiation related evidence in favour of the standard model. Journal of Astrophysics and Astronomy, 1997, 18, 251-255.	1.0	1
61	Radio interferometers with wide bandwidths. Monthly Notices of the Royal Astronomical Society, 2004, 348, 1208-1214.	4.4	1
62	Radio Monitoring of Supernova 2001ig: The First Year. International Astronomical Union Colloquium, 2005, 192, 123-128.	0.1	0