

Jayaram N Chengalur

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

3,505
citations

109321

35
h-index

149698

56
g-index

106
all docs

106
docs citations

106
times ranked

3080
citing authors

#	ARTICLE	IF	CITATIONS
1	Thick gas discs in faint dwarf galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 404, L60-L63.	3.3	334
2	FIGGS: Faint Irregular Galaxies GMRT Survey – overview, observations and first results. Monthly Notices of the Royal Astronomical Society, 2008, 386, 1667-1682.	4.4	177
3	New lessons from the $H\alpha$ size–mass relation of galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2143-2151.	4.4	163
4	DISCOVERY OF PSR J1227+4853: A TRANSITION FROM A LOW-MASS X-RAY BINARY TO A REDBACK MILLISECOND PULSAR. Astrophysical Journal Letters, 2015, 800, L12.	8.3	122
5	Characterizing foreground for redshifted 21-cm radiation: 150-MHz Giant Metrewave Radio Telescope observations. Monthly Notices of the Royal Astronomical Society, 2012, 426, 3295-3314.	4.4	100
6	Foregrounds for redshifted 21-cm studies of reionization: Giant Meter Wave Radio Telescope 153-MHz observations. Monthly Notices of the Royal Astronomical Society, 2008, 385, 2166-2174.	4.4	98
7	Fast, low-ionization emission regions and other microstructures in planetary nebulae. Astrophysical Journal, 1993, 411, 778.	4.5	91
8	Gas distribution, kinematics and star formation in faint dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2006, 365, 1220-1234.	4.4	84
9	Neutral atomic hydrogen ($H\alpha$) gas evolution in field galaxies at $z \sim 0.1$ and $z \sim 0.2$. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2693-2706.	4.4	80
10	The $H\alpha$ gas content of galaxies around Abell 370, a galaxy cluster at $z = 0.37$. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1447-1470.	4.4	76
11	Baryonic Tully–Fisher relation for extremely low mass Galaxies. Monthly Notices of the Royal Astronomical Society, 2008, 386, 138-144.	4.4	74
12	Star formation in extremely faint dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2009, 397, 1435-1453.	4.4	67
13	Neutral hydrogen ($H\alpha$) gas content of galaxies at $z \sim 0.32$. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1879-1894.	4.4	62
14	Improved foreground removal in GMRT 610-MHz observations towards redshifted 21-cm tomography. Monthly Notices of the Royal Astronomical Society, 2011, 418, 2584-2589.	4.4	61
15	New OH/IR stars from color-selected IRAS sources. 3: A complete survey. Astrophysical Journal, Supplement Series, 1993, 89, 189.	7.7	60
16	$H\alpha$ and star formation in the most metal-deficient galaxies. Monthly Notices of the Royal Astronomical Society, 2008, 391, 881-890.	4.4	59
17	The spatially resolved Kennicutt–Schmidt relation in the $H\alpha$ -dominated regions of spiral and dwarf irregular galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3700-3709.	4.4	57
18	Constraining the Variation of Fundamental Constants using 18-cm OH Lines. Physical Review Letters, 2003, 91, 241302.	7.8	56

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19	H α 21-centimetre emission from an ensemble of galaxies at an average redshift of one. <i>Nature</i> , 2020, 586, 369-372.	27.8	55
20	Power spectrum of HI intensity fluctuations in DDO 210. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 372, L33-L37.	3.3	53
21	VLA Observations of HI 1225+01. <i>Astronomical Journal</i> , 1995, 109, 2415.	4.7	51
22	A study of interstellar medium of dwarf galaxies using H α fi power spectrum analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 887-897.	4.4	50
23	Close Galaxy pairs in Medium Density Regions: The Northern Sky. <i>Astronomical Journal</i> , 1997, 114, 77.	4.7	49
24	FLAGCAL: a flagging and calibration package for radio interferometric data. <i>Experimental Astronomy</i> , 2012, 33, 157-171.	3.7	47
25	Giant Metrewave Radio Telescope observations of neutral atomic hydrogen gas in the COSMOS field at $z \approx 0.37$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 2675-2686.	4.4	44
26	GMRT observation towards detecting the post-reionization 21-cm signal. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 2426-2438.	4.4	42
27	The intrinsic shapes of dwarf irregular galaxies. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 436, L104-L108.	3.3	42
28	Atomic Hydrogen in Star-forming Galaxies at Intermediate Redshifts. <i>Astrophysical Journal Letters</i> , 2019, 882, L7.	8.3	41
29	The temperature of the diffuse H α in the Milky Way - I. High resolution H α -21cm absorption studies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 2352-2365.	4.4	39
30	The temperature of the diffuse H α in the Milky Way - II. Gaussian decomposition of the H α -21cm absorption spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 2366-2385.	4.4	38
31	H α power spectrum of the spiral galaxy NGC 628. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008, 384, L34-L37.	3.3	37
32	H α fi in very metal-poor galaxies: the SBS 0335-052 system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 963-970.	4.4	37
33	Conjugate 18 μ m OH Satellite Lines at a Cosmological Distance. <i>Physical Review Letters</i> , 2004, 93, 051302.	7.8	36
34	A METALLICITY-SPIN TEMPERATURE RELATION IN DAMPED Ly α SYSTEMS. <i>Astrophysical Journal</i> , 2009, 705, L40-L44.	4.5	36
35	The scaleheight of NGC 1058 measured from its H α power spectrum. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 397, L60-L63.	3.3	36
36	High-Mass-HIGH HI MASS, HI-RICH GALAXIES AT $z \approx 0$ SAMPLE DEFINITION, OPTICAL AND HI IMAGING, AND STAR FORMATION PROPERTIES. <i>Astrophysical Journal</i> , 2014, 793, 40.	4.5	36

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37	The temperature of the warm neutral medium in the Milky Way. Monthly Notices of the Royal Astronomical Society, 2003, 346, L57-L61.	4.4	35
38	On modelling the Fast Radio Burst population and event rate predictions. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2530-2539.	4.4	30
39	Dynamics of Binary Galaxies. I. Wide Pairs. Astrophysical Journal, 1993, 419, 30.	4.5	30
40	Non-linear redundancy calibration. Monthly Notices of the Royal Astronomical Society, 2014, 437, 524-531.	4.4	29
41	The little galaxy that could: kinematics of. New Astronomy, 2003, 8, 267-280.	1.8	28
42	PROBING FUNDAMENTAL CONSTANT EVOLUTION WITH REDSHIFTED CONJUGATE-SATELLITE OH LINES. Astrophysical Journal Letters, 2010, 716, L23-L26.	8.3	28
43	Accurate measurement of the H α column density from H α 21 μ m absorption-emission spectroscopy. Monthly Notices of the Royal Astronomical Society, 2013, 432, 3074-3079.	4.4	28
44	The relation between atomic gas and star formation rate densities in faint dwarf irregular galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1392-1402.	4.4	28
45	Probing interstellar turbulence in spiral galaxies using H I power spectrum analysis. New Astronomy, 2013, 19, 89-98.	1.8	27
46	The Morphology and Kinematics of 16 Markarian Galaxies with Multiple Nuclei. I. Basic Data. Astrophysical Journal, Supplement Series, 1995, 99, 461.	7.7	27
47	H α in isolated extremely metal-deficient galaxies. Monthly Notices of the Royal Astronomical Society, 2010, 403, 295-299.	4.4	26
48	The Ooty Wide Field Array. Journal of Astrophysics and Astronomy, 2017, 38, 1.	1.0	26
49	H α studies of extremely metal-deficient galaxies - II. Giant Metrewave Radio Telescope observations of SBS 1129+576. Monthly Notices of the Royal Astronomical Society, 2006, 372, 853-861.	4.4	25
50	Angular momentum of dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 479, 228-239.	4.4	25
51	A Search for Hi21 cm Absorption toward the Highest Redshift ($z \sim 5.2$) Radio-loud Objects. Astronomical Journal, 2007, 133, 2841-2845.	4.7	23
52	Dynamics of binary galaxies. 2: Close pairs. Astronomical Journal, 1994, 107, 1984.	4.7	22
53	Close galaxy pairs in low and medium density regions: The southern sky.. Astronomical Journal, 1997, 114, 913.	4.7	22
54	ANOMALOUS H I IN NGC 2997. Astrophysical Journal, 2009, 699, 76-88.	4.5	21

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55	Small Bites: star formation recipes in extreme dwarfs. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 414, L55-L59.	3.3	20
56	The radio-far-infrared correlation in the faintest star-forming dwarf galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 423, L127-L131.	3.3	20
57	H τ 21 cm opacity fluctuations power spectra towards Cassiopeia A. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 404, L45-L49.	3.3	19
58	High-Mass HI MASS, HI-RICH GALAXIES AT $z \sim 0$ HIGH-RESOLUTION VLA IMAGING OF UGC 9037 AND UGC 12506. Astronomical Journal, 2014, 148, 69.	4.7	19
59	Mass modelling of a superthin galaxy, FGC 1540. Monthly Notices of the Royal Astronomical Society, 2018, 479, 5686-5695.	4.4	19
60	A search for H α in some peculiar faint dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2005, 362, 609-611.	4.4	18
61	Stringent Constraints on Fundamental Constant Evolution Using Conjugate 18 μ m Satellite OH Lines. Physical Review Letters, 2018, 120, 061302.	7.8	17
62	The GMRT High-resolution Southern Sky Survey for Pulsars and Transients. II. New Discoveries, Timing, and Polarization Properties. Astrophysical Journal, 2019, 881, 59.	4.5	17
63	Dynamics of Binary Galaxies. III. Details of the Close Pairs. Astronomical Journal, 1995, 110, 167.	4.7	17
64	Outflowing atomic and molecular gas at $z \sim 0.67$ towards 1504 + 377. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 384, L6-L10.	3.3	16
65	Angular momentum content in gas-rich dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 467, 3856-3863.	4.4	16
66	ORT observations of the damped Lyman τ system towards PKS 0201 + 113. Monthly Notices of the Royal Astronomical Society, 1997, 292, 831-834.	4.4	15
67	Very Wide Galaxy Pairs of the Northern and Southern Sky. Astrophysical Journal, Supplement Series, 1998, 115, 43-57.	7.7	15
68	Galaxy Pairs, Redshift Catalogs, and the Cosmic Peculiar Velocity. Astrophysical Journal, 1996, 461, 546.	4.5	15
69	Giant Metrewave Radio Telescope Detections of Two High-opacity Hi 21 cm Absorbers at $z \sim 1.2$. Astrophysical Journal Letters, 2020, 900, L30.	8.3	15
70	Atomic hydrogen, star formation and feedback in the lowest mass blue compact dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 426, 665-672.	4.4	14
71	A slow bar in the dwarf irregular galaxy NGC 3741. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1257-1263.	4.4	13
72	The H α column density distribution function in faint dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1596-1601.	4.4	11

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73	Cold HI in faint dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2467-2485.	4.4	11
74	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.	4.4	10
75	HIGHMASS-HIGH HI MASS, HI-RICH GALAXIES AT Z~0: COMBINED HI AND H ₂ OBSERVATIONS. Astronomical Journal, 2016, 152, 225.	4.7	10
76	Study of Eclipses for Redback Pulsar J1227-4853. Astrophysical Journal, 2020, 900, 194.	4.5	10
77	Modelling HI distribution and kinematics in the edge-on dwarf irregular galaxy KK250. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1424-1429.	4.4	9
78	Simulated predictions for HI at z~3.35 with the Ooty Wide Field Array - I. Instrument and the foregrounds. Monthly Notices of the Royal Astronomical Society, 2017, 471, 3112-3126.	4.4	9
79	Turbulence in the harassed galaxy NGC4254. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 405, L102-L106.	3.3	8
80	FIGGS 2: An HI survey of extremely faint irregular galaxies. Astrophysical Bulletin, 2016, 71, 408-421.	1.3	8
81	Mass models of gas-rich void dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4993-5014.	4.4	8
82	Insufficient Gas Accretion Caused the Decline in Cosmic Star-formation Activity Eight Billion Years Ago. Astrophysical Journal Letters, 2022, 931, L34.	8.3	8
83	Hi21 cm Emission as a Tracer of Gas During the Evolution from Protoplanetary to Debris Disks. Astrophysical Journal, 2007, 660, 469-478.	4.5	7
84	The Atomic Gas Mass of Green Pea Galaxies. Astrophysical Journal Letters, 2021, 913, L15.	8.3	7
85	The HI angular momentum-mass relation. Monthly Notices of the Royal Astronomical Society, 2021, 507, 565-578.	4.4	7
86	Detection of the Galactic warm neutral medium in HI 21-cm absorption. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 479, L7-L11.	3.3	5
87	Phased array observations with infield phasing. Experimental Astronomy, 2017, 44, 97-112.	3.7	3
88	Radio Astronomy and the Giant Metre-Wave Radio Telescope. Resonance, 2018, 23, 165-182.	0.3	3
89	A Post-correlation Beamformer for Time-domain Studies of Pulsars and Transients. Astrophysical Journal, 2018, 864, 160.	4.5	3
90	A high-resolution study of carbon radio recombination lines towards Cassiopeia A. Monthly Notices of the Royal Astronomical Society, 2019, 486, 42-51.	4.4	3

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91	GMRT observations of interstellar clouds in the 21cm line of atomic hydrogen. Journal of Astrophysics and Astronomy, 2001, 22, 35-50.	1.0	2
92	FRB Event Rate Predictions for the Ooty Wide Field Array. Journal of Astrophysics and Astronomy, 2017, 38, 1.	1.0	2
93	A Green Pea Starburst Arising from a Galaxy-Galaxy Merger. Astrophysical Journal Letters, 2022, 933, L11.	8.3	2
94	HI 21cm absorption studies of damped Lyman- α systems. Proceedings of the International Astronomical Union, 2005, 1, 156-161.	0.0	1
95	Neutral Hydrogen Gas in Star Forming Galaxies at $z=0.24$. Proceedings of the International Astronomical Union, 2007, 3, 366-367.	0.0	1
96	Atomic Hydrogen in Distant Galaxies. Resonance, 2021, 26, 919-938.	0.3	1
97	The 1.0 Megaparsec Galaxy Pair Sample in Low-Density Regions. Astrophysical Journal, 2000, 544, 176-187.	4.5	1
98	The nature of low redshift damped Ly- α systems. Pramana - Journal of Physics, 1999, 53, 1013-1019.	1.8	0
99	Kinematics of Extremely Faint Dwarf Galaxies. Symposium - International Astronomical Union, 2004, 220, 347-352.	0.1	0
100	High Resolution Spectroscopy at Low Radio Frequencies. Highlights of Astronomy, 2005, 13, 828-830.	0.0	0
101	A search for the 55-MHz OH line. Monthly Notices of the Royal Astronomical Society, 2010, 407, 258-262.	4.4	0
102	The First Polarization Maps from the GMRT. Journal of Astrophysics and Astronomy, 2011, 32, 475-476.	1.0	0
103	Kennicutt-Schmidt relation in the HI dominated regime. Proceedings of the International Astronomical Union, 2014, 10, 341-341.	0.0	0
104	Very gas-rich extremely metal-poor blue void dwarfs. Proceedings of the International Astronomical Union, 2018, 14, 400-403.	0.0	0
105	Probing Fundamental Constant Evolution with Redshifted OH Lines. , 2008, , 109-112.		0