Barbara Catinella

List of Publications by Year
in descending order

119 papers	7,211 citations	70961 41 h-index	62479 80 g-index
121 all docs	121 docs citations	121 times ranked	3608 citing authors

#	Article	IF	Citations
1	The Arecibo Legacy Fast ALFA Survey. I. Science Goals, Survey Design, and Strategy. Astronomical Journal, 2005, 130, 2598-2612.	1.9	636
2	COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - I. Relations between H2, Hâ€ƒi, stellar content and structural properties. Monthly Notices of the Royal Astronomical Society, 2011, 415, 32-60.	1.6	418
3	The GALEX Arecibo SDSS Survey - I. Gas fraction scaling relations of massive galaxies and first data release. Monthly Notices of the Royal Astronomical Society, 0, 403, 683-708.	1.6	355
4	xCOLD GASS: The Complete IRAM 30 m Legacy Survey of Molecular Gas for Galaxy Evolution Studies. Astrophysical Journal, Supplement Series, 2017, 233, 22.	3.0	350
5	COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - II. The non-universality of the molecular gas depletion time-scale. Monthly Notices of the Royal Astronomical Society, 2011, 415, 61-76.	1.6	313
6	xGASS: total cold gas scaling relations and molecular-to-atomic gas ratios of galaxies in the local Universe. Monthly Notices of the Royal Astronomical Society, 2018, 476, 875-895.	1.6	261
7	THE IMPACT OF INTERACTIONS, BARS, BULGES, AND ACTIVE GALACTIC NUCLEI ON STAR FORMATION EFFICIENCY IN LOCAL MASSIVE GALAXIES. Astrophysical Journal, 2012, 758, 73.	1.6	215
8	Molecular and atomic gas along and across the main sequence of star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1749-1756.	1.6	184
9	Cold gas stripping in satellite galaxies: from pairs to clusters. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1275-1289.	1.6	184
10	The effect of the environment on the Hâ€ƒi scaling relations. Monthly Notices of the Royal Astronomical Society, 2011, 415, 1797-1806.	1.6	178
11	The GALEX Arecibo SDSS Survey â€“ VIII. Final data release. The effect of group environment on the gas content of massive galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 436, 34-70.	1.6	172
12	Cold gas properties of theHerschelReference Survey. Astronomy and Astrophysics, 2014, 564, A66.	2.1	142
13	Cold gas properties of theHerschelReference Survey. Astronomy and Astrophysics, 2014, 564, A67.	2.1	138
14	The SAMI Galaxy Survey: the link between angular momentum and optical morphology. Monthly Notices of the Royal Astronomical Society, 2016, 463, 170-184.	1.6	128
15	WALLABY â€“ an SKA Pathfinder Hâ€‰i survey. Astrophysics and Space Science, 2020, 365, 1.	0.5	128
16	Template Rotation Curves for Disk Galaxies. Astrophysical Journal, 2006, 640, 751-761.	1.6	105
17	The GALEX Arecibo SDSS Survey - II. The star formation efficiency of massive galaxies. Monthly Notices of the Royal Astronomical Society, 2010, 408, 919-934.	1.6	102
18	The Dawes Review 9: The role of cold gas stripping on the star formation quenching of satellite galaxies. Publications of the Astronomical Society of Australia, 2021, 38, .	1.3	101

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19	ALFALFA Hâ€ƒi data stacking - I. Does the bulge quench ongoing star formation in early-type galaxies?. Monthly Notices of the Royal Astronomical Society, 2011, 411, 993-1012.	1.6	94
20	The effect of structure and star formation on the gas content of nearby galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2479-2489.	1.6	94
21	THEGALEXARECIBO SDSS SURVEY. V. THE RELATION BETWEEN THE H I CONTENT OF GALAXIES AND METAL ENRICHMENT AT THEIR OUTSKIRTS. Astrophysical Journal, 2012, 745, 66.	1.6	93
22	CONNECTION BETWEEN THE CIRCUMGALACTIC MEDIUM AND THE INTERSTELLAR MEDIUM OF GALAXIES: RESULTS FROM THE COS-GASS SURVEY. Astrophysical Journal, 2015, 813, 46.	1.6	90
23	The SAMI Galaxy Survey: spatially resolving the main sequence of star formation. Monthly Notices of the Royal Astronomical Society, 2018, 475, 5194-5214.	1.6	89
24	Estimating the Hâ€ƒi gas fractions of galaxies in the local Universe. Monthly Notices of the Royal Astronomical Society, 2009, 397, 1243-1253.	1.6	85
25	Deriving a multivariate Î±CO conversion function using the [CII]/CO(1-0) ratio and its application to molecular gas scaling relations. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	79
26	The GALEX Arecibo SDSS Survey. Astronomy and Astrophysics, 2012, 544, A65.	2.1	78
27	The Arecibo Legacy Fast ALFA Survey. II. Results of Precursor Observations. Astronomical Journal, 2005, 130, 2613-2624.	1.9	76
28	Atomic hydrogen in IllustrisTNG galaxies: the impact of environment parallelled with local 21-cm surveys. Monthly Notices of the Royal Astronomical Society, 2019, 483, 5334-5354.	1.6	75
29	Quantifying the role of bars in the build-up of central mass concentrations in disc galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 423, 3486-3501.	1.6	72
30	Galaxy cold gas contents in modern cosmological hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2020, 497, 146-166.	1.6	71
31	The KMOS Redshift One Spectroscopic Survey (KROSS): the origin of disc turbulence in zâ€‰â‰ˆâ€‰1 star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5076-5104.	1.6	70
32	The SAMI Galaxy Survey: the third and final data release. Monthly Notices of the Royal Astronomical Society, 2021, 505, 991-1016.	1.6	70
33	Enhanced atomic gas fractions in recently merged galaxies: quenching is not a result of post-merger gas exhaustion. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3447-3466.	1.6	68
34	The Cold Interstellar Medium of Galaxies in the Local Universe. Annual Review of Astronomy and Astrophysics, 2022, 60, 319-361.	8.1	67
35	The Arecibo Galaxy Environment Survey: precursor observations of the NGC 628 group. Monthly Notices of the Royal Astronomical Society, 2006, 371, 1617-1640.	1.6	66
36	A Pilot Survey of H <scp>i</scp> in Field Galaxies at Redshift z ~ 0.2. Astrophysical Journal, 2008, 685, L13-L17.	1.6	65

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37	HIGHz: a survey of the most Hâ€‰i-massive galaxies at z âˆ¼ 0.2. Monthly Notices of the Royal Astronomical Society, 2015, 446, 3526-3544.	1.6	65
38	The SAMI Galaxy Survey: Data Release One with emission-line physics value-added products. Monthly Notices of the Royal Astronomical Society, 2018, 475, 716-734.	1.6	65
39	ALFALFA H I data stacking - III. Comparison of environmental trends in H I gas mass fraction and specific star formation rate. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2841-2851.	1.6	61
40	THE PROPERTIES OF THE CIRCUMGALACTIC MEDIUM IN RED AND BLUE GALAXIES: RESULTS FROM THE COS-GASS+COS-HALOS SURVEYS. Astrophysical Journal, 2016, 833, 259.	1.6	60
41	The GALEX Arecibo SDSS Survey - IV. Baryonic mass-velocity-size relations of massive galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1959-1976.	1.6	54
42	The GALEX Arecibo SDSS survey - III. Evidence for the inside-out formation of Galactic discs. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	49
43	Rotational Widths for Use in the Tully-Fisher Relation. I. Long-Slit Spectroscopic Data. Astronomical Journal, 2005, 130, 1037-1048.	1.9	48
44	xGASS: Gas-rich central galaxies in small groups and their connections to cosmic web gas feeding. Monthly Notices of the Royal Astronomical Society, 0, , stx046.	1.6	46
45	The Arecibo Galaxy Environment Survey - II. A Hâ€ƒi view of the Abell cluster 1367 and its outskirts. Monthly Notices of the Royal Astronomical Society, 0, 383, 1519-1537.	1.6	44
46	Arecibo Legacy Fast ALFA Hâ€ƒi data stacking - II. Hâ€ƒi content of the host galaxies of active galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1739-1744.	1.6	43
47	The role of atomic hydrogen in regulating the scatter of the massâ€“metallicity relation. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1868-1878.	1.6	42
48	The selective effect of environment on the atomic and molecular gas-to-dust ratio of nearby galaxies in theHerschelReference Survey. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3574-3584.	1.6	41
49	COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - III. Comparison with semi-analytic models of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2012, 422, 997-1006.	1.6	39
50	The SAMI Galaxy Survey: energy sources of the turbulent velocity dispersion in spatially resolved local star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4573-4582.	1.6	37
51	Rotational Widths for Use in the Tully-Fisher Relation. II. The Impact of Surface Brightness. Astronomical Journal, 2007, 134, 334-343.	1.9	36
52	YZiCS: Preprocessing of Dark Halos in the Hydrodynamic Zoom-in Simulation of Clusters. Astrophysical Journal, 2018, 866, 78.	1.6	36
53	DEEP 21 cm H I OBSERVATIONS ATzâ‰ˆ 0.1: THE PRECURSOR TO THE ARECIBO ULTRA DEEP SURVEY. Astrophysical Journal, 2011, 727, 40.	1.6	35
54	xGASS: cold gas content and quenching in galaxies below the star-forming main sequence. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1982-1995.	1.6	34

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55	The Hâ€‰ix galaxy survey â€“ II. Hâ€‰i kinematics of Hâ€‰i eXtreme galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3744-3780.	1.6	33
56	The SAMI Galaxy Survey: satellite galaxies undergo little structural change during their quenching phase. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2656-2665.	1.6	32
57	xGASS: H i Fueling of Star Formation in Disk-dominated Galaxies. Astrophysical Journal, 2020, 890, 63.	1.6	32
58	WALLABY Pilot Survey: The Diversity of Ram Pressure Stripping of the Galactic H i Gas in the Hydra Cluster. Astrophysical Journal, 2021, 915, 70.	1.6	31
59	An accurate low-redshift measurement of the cosmic neutral hydrogen density. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1619-1632.	1.6	29
60	xGASS: Robust quantification of asymmetries in global Hâ€‰i spectra and their relationship to environmental processes. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3672-3684.	1.6	29
61	A blind ATCA HI survey of the Fornax galaxy cluster. Astronomy and Astrophysics, 2021, 648, A31.	2.1	29
62	GASS 3505: the prototype of Hâ€‰i-excess, passive galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 462, 382-394.	1.6	27
63	Atomic gas fractions in active galactic nucleus host galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5694-5703.	1.6	26
64	Molecular hydrogen in IllustrisTNG galaxies: carefully comparing signatures of environment with local CO and SFR data. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3158-3178.	1.6	25
65	VERTICO: The Virgo Environment Traced in CO Survey. Astrophysical Journal, Supplement Series, 2021, 257, 21.	3.0	25
66	The SAMI galaxy survey: gas velocity dispersions in low-z star-forming galaxies and the drivers of turbulence. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2265-2284.	1.6	24
67	The SAMI Galaxy Survey: massâ€“kinematics scaling relations. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2924-2936.	1.6	23
68	xGASS: The impact of photometric bulges on the scatter of HI scaling relations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4060-4079.	1.6	23
69	SDSS-IV MaNGA: The Roles of AGNs and Dynamical Processes in Star Formation Quenching in Nearby Disk Galaxies. Astrophysical Journal, 2019, 870, 19.	1.6	21
70	xGASS: the role of bulges along and across the local star-forming main sequence. Monthly Notices of the Royal Astronomical Society, 2020, 493, 5596-5605.	1.6	21
71	Global Hâ€‰i asymmetries in IllustrisTNG: a diversity of physical processes disturb the cold gas in galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5205-5219.	1.6	21
72	The SAMI Galaxy Survey: the low-redshift stellar mass Tullyâ€“Fisher relation. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1809-1824.	1.6	20

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73	xGASS: passive discs do not host unexpectedly large reservoirs of cold atomic hydrogen. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 494, L42-L47.	1.2	20
74	A SAMI and MaNGA view on the stellar kinematics of galaxies on the star-forming main sequence. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4992-5005.	1.6	20
75	UGC8802: A MASSIVE DISK GALAXY IN FORMATION. Astrophysical Journal, 2010, 720, 1126-1135.	1.6	19
76	ALMA Shows that Gas Reservoirs of Star-forming Disks over the Past 3 Billion Years Are Not Predominantly Molecular. Astrophysical Journal Letters, 2017, 848, L7.	3.0	19
77	RESOLVED H I IMAGING OF A POPULATION OF MASSIVE H I-RICH GALAXIES WITH SUPPRESSED STAR FORMATION. Astrophysical Journal, 2014, 790, 27.	1.6	18
78	The SAMI galaxy survey: Mass and environment as independent drivers of galaxy dynamics. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2307-2328.	1.6	18
79	VERTICO II: How H i-identified Environmental Mechanisms Affect the Molecular Gas in Cluster Galaxies. Astrophysical Journal, 2022, 933, 10.	1.6	17
80	THE GALEX ARECIBO SDSS SURVEY. VII. THE BIVARIATE NEUTRAL HYDROGEN-STELLAR MASS FUNCTION FOR MASSIVE GALAXIES. Astrophysical Journal, 2013, 776, 74.	1.6	16
81	Lurking systematics in predicting galaxy cold gas masses using dust luminosities and star formation rates. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1390-1404.	1.6	16
82	The HIX galaxy survey I: Study of the most gas rich galaxies from HIPASS. Monthly Notices of the Royal Astronomical Society, 0, , stx053.	1.6	15
83	Self-consistent Bulge/Disk/Halo Galaxy Dynamical Modeling Using Integral Field Kinematics. Astrophysical Journal, 2017, 850, 70.	1.6	15
84	Tidal origin of NGC 1427A in the Fornax cluster. Monthly Notices of the Royal Astronomical Society, 2018, 474, 1108-1115.	1.6	15
85	WALLABY pre-pilot survey: Hâ€‰<scp>i</scp> content of the Eridanus supergroup. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2300-2317.	1.6	13
86	xGASS: characterizing the slope and scatter of the stellar massâ€“angular momentum relation for nearby galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3751-3763.	1.6	13
87	A multiwavelength survey of HI-excess galaxies with surprisingly inefficient star formation. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	12
88	WALLABY pilot survey: first look at the Hydra I cluster and ram pressure stripping of ESOâ€‰501â˜’G075. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1891-1904.	1.6	12
89	The prevalence of type III disc breaks in Hâ€‰i-rich and low-spin galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4292-4306.	1.6	11
90	WALLABY Pre-pilot Survey: The Effects of Tidal Interaction on Radial Distribution of Color in Galaxies of the Eridanus Supergroup. Astrophysical Journal, 2022, 927, 66.	1.6	11

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91	The SAMI Galaxy Survey: gas streaming and dynamical M/L in rotationally supported systems. Monthly Notices of the Royal Astronomical Society, 2016, 456, 1299-1319.	1.6	10
92	The cosmic atomic hydrogen mass density as a function of mass and galaxy hierarchy from spectral stacking. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1587-1595.	1.6	10
93	WALLABY pilot survey: Hâ€‰<scp>i</scp> gas disc truncation and star formation of galaxies falling into the Hydra I cluster. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1716-1732.	1.6	10
94	Discovery of a Damped LyÎ± System in a Low-z Galaxy Group: Possible Evidence for Gas Inflow and Nuclear Star Formation. Astrophysical Journal, 2019, 871, 239.	1.6	9
95	WALLABY pre-pilot survey: two dark clouds in the vicinity of NGCÂ1395. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2905-2921.	1.6	9
96	On the relationship between gas content, star formation, and global Hâ€‰<scp>i</scp> asymmetry of galaxies on the star-forming main-sequence. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1989-1998.	1.6	8
97	WALLABY Pre-Pilot Survey: the effects of angular momentum and environment on the Hâ€‰<scp>i</scp> gas and star formation properties of galaxies in the Eridanus supergroup. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2949-2967.	1.6	8
98	xCOLD GASS and xGASS: Radial metallicity gradients and global properties on the star-forming main sequence. Astronomy and Astrophysics, 2021, 649, A39.	2.1	6
99	The atomic hydrogen content of galaxies as a function of group-centric radius. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5580-5591.	1.6	6
100	Centrally concentrated molecular gas driving galactic-scale ionized gas outflows in star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3802-3820.	1.6	6
101	The SAMI Galaxy Survey: the drivers of gas and stellar metallicity differences in galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 510, 320-333.	1.6	6
102	The Hâ€‰<scp>i</scp> and stellar mass bivariate distribution of centrals and satellites for all, late-, and early-type local galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 505, 304-324.	1.6	5
103	The SAMI Galaxy Survey: The contribution of different kinematic classes to the stellar mass function of nearby galaxies. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	4
104	The growth of bulges and discs in relatively Hâ€‰i-rich galaxies: indication from Hâ€‰i scaling relations. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2393-2404.	1.6	4
105	The H IX galaxy survey. Astronomy and Astrophysics, 2020, 635, A69.	2.1	3
106	The ALFA Zone of Avoidance Survey. AIP Conference Proceedings, 2008, , .	0.3	2
107	The physical connection between central stellar surface density and stellar spin in SAMI and MaNGA nearby galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 513, 3709-3718.	1.6	2
108	Looking at the Distant Universe with the MeerKAT Array: Discovery of a Luminous OH Megamaser at z > 0.5. Astrophysical Journal Letters, 2022, 931, L7.	3.0	2

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109	The ALFA Ultra Deep Survey (AUDS). AIP Conference Proceedings, 2008, , .	0.3	1
110	The GALEX Arecibo SDSS Survey (GASS). AIP Conference Proceedings, 2008, , .	0.3	1
111	HI and Star Formation Properties of Massive Galaxies: First Results from the GALEX Arecibo SDSS Survey. , 2010, , .		1
112	The Arecibo Galaxy Environments Surveyâ€"Description of the Survey and Early Results. Proceedings of the International Astronomical Union, 2006, 2, 227-229.	0.0	0
113	Evolution of the Mass-to-light Ratio of Galaxies to z~ 0.25. Proceedings of the International Astronomical Union, 2006, 2, 395-396.	0.0	0
114	AGES Observations of Abell1367 and its Outskirts. Proceedings of the International Astronomical Union, 2006, 2, 196-196.	0.0	0
115	The Arecibo Galaxy Environment Survey â€" Potential for finding Dark Galaxies and Results so far. Proceedings of the International Astronomical Union, 2007, 3, 112-119.	0.0	0
116	Arecibo Survey of H<scp>I</scp> Emission from Disk Galaxies at Redshift z~0.2. Proceedings of the International Astronomical Union, 2007, 3, 348-349.	0.0	0
117	AGES Observations of Abell 1367. Proceedings of the International Astronomical Union, 2007, 3, 350-351.	0.0	0
118	The ALFA Zone of Avoidance Survey: Results from the Precursor Observations. Proceedings of the International Astronomical Union, 2007, 3, 383-384.	0.0	0
119	Pushing Arecibo to the Limit: Detection of HI Emission from Galaxies at Redshift zâˆ¼0.2. AIP Conference Proceedings, 2008, , .	0.3	0