

Santiago Garcia-Burillo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7393513/publications.pdf>

Version: 2024-02-01

60
papers

7,090
citations

94381

37
h-index

143943

57
g-index

62
all docs

62
docs citations

62
times ranked

3760
citing authors

#	ARTICLE	IF	CITATIONS
1	High molecular gas fractions in normal massive star-forming galaxies in the young Universe. <i>Nature</i> , 2010, 463, 781-784.	13.7	807
2	A study of the gas-star formation relation over cosmic time... <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 407, 2091-2108.	1.6	776
3	PHIBSS: MOLECULAR GAS CONTENT AND SCALING RELATIONS IN $z \sim 1-3$ MASSIVE, MAIN-SEQUENCE STAR-FORMING GALAXIES. <i>Astrophysical Journal</i> , 2013, 768, 74.	1.6	752
4	COMBINED CO AND DUST SCALING RELATIONS OF DEPLETION TIME AND MOLECULAR GAS FRACTIONS WITH COSMIC TIME, SPECIFIC STAR-FORMATION RATE, AND STELLAR MASS. <i>Astrophysical Journal</i> , 2015, 800, 20.	1.6	482
5	PHIBSS: Unified Scaling Relations of Gas Depletion Time and Molecular Gas Fractions*. <i>Astrophysical Journal</i> , 2018, 853, 179.	1.6	467
6	THE METALLICITY DEPENDENCE OF THE CO \rightarrow H ₂ CONVERSION FACTOR IN $z \sim 1$ STAR-FORMING GALAXIES. <i>Astrophysical Journal</i> , 2012, 746, 69.	1.6	232
7	THE PdBI ARCSECOND WHIRLPOOL SURVEY (PAWS): ENVIRONMENTAL DEPENDENCE OF GIANT MOLECULAR CLOUD PROPERTIES IN M51. <i>Astrophysical Journal</i> , 2014, 784, 3.	1.6	198
8	A Multi-Transition HCN and HCO ⁺ Study of 12 Nearby Active Galaxies: Active Galactic Nucleus versus Starburst Environments. <i>Astrophysical Journal</i> , 2008, 677, 262-275.	1.6	191
9	THE PdBI ARCSECOND WHIRLPOOL SURVEY (PAWS). I. A CLOUD-SCALE/MULTI-WAVELENGTH VIEW OF THE INTERSTELLAR MEDIUM IN A GRAND-DESIGN SPIRAL GALAXY. <i>Astrophysical Journal</i> , 2013, 779, 42.	1.6	191
10	A 2 Millimeter Spectral Line Survey of the Starburst Galaxy NGC 253. <i>Astrophysical Journal</i> , Supplement Series, 2006, 164, 450-476.	3.0	183
11	ALMA RESOLVES THE TORUS OF NGC 1068: CONTINUUM AND MOLECULAR LINE EMISSION. <i>Astrophysical Journal Letters</i> , 2016, 823, L12.	3.0	170
12	A COMPARATIVE STUDY OF GIANT MOLECULAR CLOUDS IN M51, M33, AND THE LARGE MAGELLANIC CLOUD. <i>Astrophysical Journal</i> , 2013, 779, 46.	1.6	149
13	VARIATIONS IN THE STAR FORMATION EFFICIENCY OF THE DENSE MOLECULAR GAS ACROSS THE DISKS OF STAR-FORMING GALAXIES. <i>Astronomical Journal</i> , 2015, 150, 115.	1.9	145
14	GAS KINEMATICS ON GIANT MOLECULAR CLOUD SCALES IN M51 WITH PAWS: CLOUD STABILIZATION THROUGH DYNAMICAL PRESSURE. <i>Astrophysical Journal</i> , 2013, 779, 45.	1.6	142
15	THE PLATEAU DE BURE + 30m ARCSECOND WHIRLPOOL SURVEY REVEALS A THICK DISK OF DIFFUSE MOLECULAR GAS IN THE M51 GALAXY. <i>Astrophysical Journal</i> , 2013, 779, 43.	1.6	135
16	Is HCN a True Tracer of Dense Molecular Gas in Luminous and Ultraluminous Infrared Galaxies?. <i>Astrophysical Journal</i> , 2006, 640, L135-L138.	1.6	133
17	Cloud-scale ISM Structure and Star Formation in M51. <i>Astrophysical Journal</i> , 2017, 846, 71.	1.6	119
18	SUBMILLIMETER ARRAY/PLATEAU DE BURE INTERFEROMETER MULTIPLE LINE OBSERVATIONS OF THE NEARBY SEYFERT 2 GALAXY NGC 1068: SHOCK-RELATED GAS KINEMATICS AND HEATING IN THE CENTRAL 100 pc?. <i>Astrophysical Journal</i> , 2011, 736, 37.	1.6	98

#	ARTICLE	IF	CITATIONS
19	THE EMPIRE SURVEY: SYSTEMATIC VARIATIONS IN THE DENSE GAS FRACTION AND STAR FORMATION EFFICIENCY FROM FULL-DISK MAPPING OF M51. <i>Astrophysical Journal Letters</i> , 2016, 822, L26.	3.0	98
20	DYNAMICAL EVOLUTION OF AGN HOST GALAXIESâ€™ GAS IN/OUT-FLOW RATES IN SEVEN NUGA GALAXIES. <i>Astrophysical Journal</i> , 2009, 692, 1623-1661.	1.6	89
21	EMPIRE: The IRAM 30 m Dense Gas Survey of Nearby Galaxies. <i>Astrophysical Journal</i> , 2019, 880, 127.	1.6	84
22	Photon-dominated Chemistry in the Nucleus of M82: Widespread HOC + Emission in the Inner 650 Parsec Disk. <i>Astrophysical Journal</i> , 2005, 619, L155-L158.	1.6	83
23	PHIBSS: MOLECULAR GAS, EXTINCTION, STAR FORMATION, AND KINEMATICS IN THE $z \approx 1.5$ STAR-FORMING GALAXY EGS13011166. <i>Astrophysical Journal</i> , 2013, 773, 68.	1.6	78
24	SHORT GMC LIFETIMES: AN OBSERVATIONAL ESTIMATE WITH THE PdBI ARCSECOND WHIRLPOOL SURVEY (PAWS). <i>Astrophysical Journal</i> , 2015, 806, 72.	1.6	77
25	Sulfur Chemistry and Isotopic Ratios in the Starburst Galaxy NGC 253. <i>Astrophysical Journal</i> , 2005, 620, 210-216.	1.6	77
26	Dense Gas, Dynamical Equilibrium Pressure, and Star Formation in Nearby Star-forming Galaxies. <i>Astrophysical Journal</i> , 2018, 858, 90.	1.6	75
27	THE PdBI ARCSECOND WHIRLPOOL SURVEY (PAWS): MULTI-PHASE COLD GAS KINEMATIC OF M51. <i>Astrophysical Journal</i> , 2014, 784, 4.	1.6	70
28	S[CLC]i[/CLC]O Chimneys and Supershells in M82. <i>Astrophysical Journal</i> , 2001, 563, L27-L30.	1.6	70
29	PROBABILITY DISTRIBUTION FUNCTIONS OF $^{12}\text{CO}(j=1 \rightarrow 0)$ BRIGHTNESS AND INTEGRATED INTENSITY IN M51: THE PAWS VIEW. <i>Astrophysical Journal</i> , 2013, 779, 44.	1.6	67
30	Resolving the Nuclear Obscuring Disk in the Compton-thick Seyfert Galaxy NGC 5643 with ALMA. <i>Astrophysical Journal</i> , 2018, 859, 144.	1.6	67
31	Widespread HCO Emission in the Nuclear Starburst of M82. <i>Astrophysical Journal</i> , 2002, 575, L55-L58.	1.6	65
32	A New Probe of Dense Gas at High Redshift: Detection of HCO + (5-4) Line Emission in APM 08279+5255. <i>Astrophysical Journal</i> , 2006, 645, L17-L20.	1.6	59
33	Molecular and Ionized Gas Phases of an AGN-driven Outflow in a Typical Massive Galaxy at $z \approx 2$. <i>Astrophysical Journal</i> , 2019, 871, 37.	1.6	56
34	Physical properties of dense molecular gas in centres of Seyfert galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 1963-1976.	1.6	48
35	The resolved star-formation relation in nearby active galactic nuclei. <i>Astronomy and Astrophysics</i> , 2015, 577, A135.	2.1	47
36	The PdBI Arcsecond Whirlpool Survey (PAWS): The Role of Spiral Arms in Cloud and Star Formation. <i>Astrophysical Journal</i> , 2017, 836, 62.	1.6	47

#	ARTICLE	IF	CITATIONS
37	HIGH-RESOLUTION IMAGING OF PHIBSS $z \approx 1.5$ 2 MAIN-SEQUENCE GALAXIES IN CO $J = 1 \rightarrow 0$. <i>Astrophysical Journal</i> , 2015, 809, 175.	1.6	42
38	ATOMIC HYDROGEN PROPERTIES OF ACTIVE GALACTIC NUCLEI HOST GALAXIES: H I IN 16 NUCLEI OF GALAXIES (NUGA) SOURCES. <i>Astronomical Journal</i> , 2008, 135, 232-257.	1.9	39
39	Detection of Reactive Ions in the Ultracompact H ii Regions Monoceros R2 and G29.96-0.02. <i>Astrophysical Journal</i> , 2003, 597, L153-L156.	1.6	36
40	Plateau de Bure High-z Blue Sequence Survey 2 (PHIBSS2): Search for Secondary Sources, CO Luminosity Functions in the Field, and the Evolution of Molecular Gas Density through Cosmic Time*. <i>Astronomical Journal</i> , 2020, 159, 190.	1.9	36
41	The feeding of activity in galaxies: a molecular line perspective. <i>Journal of Physics: Conference Series</i> , 2012, 372, 012050.	0.3	34
42	HIGH-LYING OH ABSORPTION, [C II] DEFICITS, AND EXTREME $L_{\text{FIR}}/M_{\text{H}_2}$ RATIOS IN GALAXIES. <i>Astrophysical Journal</i> , 2015, 800, 69.	1.6	33
43	The diverse cold molecular gas contents, morphologies, and kinematics of type-2 quasars as seen by ALMA. <i>Astronomy and Astrophysics</i> , 2022, 658, A155.	2.1	31
44	Separating line emission from star formation, shocks, and AGN ionization in NGC 1068. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4153-4168.	1.6	26
45	The Diverse Molecular Gas Content of Massive Galaxies Undergoing Quenching at $z \approx 1$. <i>Astrophysical Journal Letters</i> , 2021, 909, L11.	3.0	24
46	Star formation and gas flows in the centre of the NUGA galaxy NGC 1808 observed with SINFONI. <i>Astronomy and Astrophysics</i> , 2017, 598, A55.	2.1	23
47	ALMA Polarimetry Measures Magnetically Aligned Dust Grains in the Torus of NGC 1068. <i>Astrophysical Journal</i> , 2020, 893, 33.	1.6	21
48	PHIBSS: exploring the dependence of the CO \rightarrow H ₂ conversion factor on total mass surface density at $z < 1.5$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 4886-4901.	1.6	20
49	ALMA-backed NIR high resolution integral field spectroscopy of the NUGA galaxy NGC 1433. <i>Astronomy and Astrophysics</i> , 2014, 567, A119.	2.1	18
50	Near-infrared observations of star formation and gas flows in the NUGA galaxy NGC 1365. <i>Astronomy and Astrophysics</i> , 2019, 622, A128.	2.1	18
51	Two Orders of Magnitude Variation in the Star Formation Efficiency across the Premerger Galaxy NGC 2276. <i>Astrophysical Journal Letters</i> , 2018, 869, L38.	3.0	16
52	A proto-pseudobulge in ESO 320-G030 fed by a massive molecular inflow driven by a nuclear bar. <i>Astronomy and Astrophysics</i> , 2021, 645, A49.	2.1	13
53	Dense molecular gas in a sample of LIRGs and ULIRGs: The low-redshift connection to the huge high-redshift starbursts and AGNs. <i>Astrophysics and Space Science</i> , 2008, 313, 331-335.	0.5	12
54	ALMA resolves giant molecular clouds in a tidal dwarf galaxy. <i>Astronomy and Astrophysics</i> , 2021, 645, A97.	2.1	10

#	ARTICLE	IF	CITATIONS
55	The Complex Infrared Dust Continuum Emission of NGC 1068: Ground-based N- and Q-band Spectroscopy and New Radiative Transfer Models. <i>Astrophysical Journal</i> , 2022, 926, 192.	1.6	5
56	Probing the Gas Fueling and Outflows in Nearby AGN with ALMA. <i>Frontiers in Astronomy and Space Sciences</i> , 2017, 4, .	1.1	4
57	Gas flows in galactic nuclei: observational constraints on BH-galaxy coevolution. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 207-214.	0.0	1
58	Feeding and feedback in nuclei of galaxies. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 307-311.	0.0	1
59	The ALMA view of the Antennae galaxy collision: How galaxy interaction triggers the formation of super star clusters. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 138-141.	0.0	0
60	AGN Feeding and AGN Feedback. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2008, , 150-155.	0.3	0