Zhi-Yu Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5888726/publications.pdf

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68 2,309 30 46 papers citations h-index g-index

times ranked

citing authors

docs citations

all docs

#	Article	IF	CITATIONS
1	Asymmetric Star Formation Triggered by Gas Inflow in a Barred Lenticular Galaxy PGC 34107. Astrophysical Journal, 2022, 927, 215.	4.5	3
2	Unusually High HCO ⁺ /CO Ratios in and outside Supernova Remnant W49B. Astrophysical Journal, 2022, 931, 144.	4.5	6
3	Properties of Dense Molecular Gas along the Major Axis of M82. Astrophysical Journal, 2022, 933, 139.	4.5	2
4	A massive stellar bulge in a regularly rotating galaxy 1.2 billion years after the Big Bang. Science, 2021, 371, 713-716.	12.6	53
5	A Cuspy Dark Matter Halo. Astrophysical Journal, 2021, 909, 20.	4.5	20
6	Dense gas in local galaxies revealed by multiple tracers. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4508-4528.	4.4	9
7	HCN (1â^30) opacity of outflowing gas in Arp 220W. Astronomy and Astrophysics, 2021, 649, A125.	5.1	2
8	PGC 38025: A Star-forming Lenticular Galaxy with an Off-nuclear Star-forming Core. Astrophysical Journal, 2021, 915, 1.	4.5	4
9	Molecular Gas in a Gravitationally Lensed Galaxy Group at $z = 2.9$. Astrophysical Journal, 2021, 917, 79.	4.5	3
10	Extremely weak CO emission in IZw 18. Astronomy and Astrophysics, 2021, 653, L10.	5.1	4
11	VALES VI: ISM enrichment in star-forming galaxies up to z â^¼â€‰0.2 using 12CO(1–0), 13CO(1–0), a line luminosity ratios. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2771-2785.	and _{4.4} 180	(1â €" 0)
12	High molecular gas content and star formation rates in local galaxies that host quasars, outflows, and jets. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1560-1575.	4.4	49
13	The MALATANG survey: dense gas and star formation from high-transition HCN and HCO+ maps of NGC 253. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1276-1296.	4.4	9
14	Weak CS emission in an extremely metal-poor galaxy DDOÂ70. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 496, L38-L42.	3.3	0
15	HCN 3–2 survey towards a sample of local galaxies. Publication of the Astronomical Society of Japan, 2020, 72, .	2.5	7
16	CO observations towards H <scp>i</scp> -rich Ultradiffuse Galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 499, L26-L30.	3.3	5
17	Oversized Gas Clumps in an Extremely Metal-poor Molecular Cloud Revealed by ALMA's Parsec-scale Maps. Astrophysical Journal, 2020, 892, 147.	4.5	7
18	Isotopologues of dense gas tracers in nearby infrared bright galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1095-1113.	4.4	7

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19	Molecular Oxygen in the Nearest QSO Mrk 231. Astrophysical Journal, 2020, 889, 129.	4.5	6
20	The Chemical Structure of Young High-mass Star-forming Clumps. II. Parsec-scale CO Depletion and Deuterium Fraction of HCO ⁺ . Astrophysical Journal, 2020, 901, 145.	4.5	13
21	A Systematic Observational Study on Galactic Interstellar Ratio $\langle \sup 18 \langle \sup 0 \rangle 17 \langle \sup 0 \rangle$. I. C $\langle \sup 18 \langle \sup 0 \rangle 0 \rangle$ and C $\langle \sup 17 \langle \sup 0 \rangle 0 \rangle$ i. $ 19 \rangle$ Data Analysis. Astrophysical Journal, Supplement Series, 2020, 249, 6.	7.7	10
22	Resolved Neutral Carbon Emission in Nearby Galaxies: [C i]ÂLines as Total Molecular Gas Tracers. Astrophysical Journal, 2019, 880, 133.	4.5	37
23	The evolution of CNO isotopes: the impact of massive stellar rotators. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2838-2854.	4.4	62
24	A SiO JÂ=Â5Ââ†'Â4 Survey Toward Massive Star Formation Regions. Astrophysical Journal, 2019, 878, 29.	4.5	30
25	The molecular gas properties in the gravitationally lensed merger HATLAS J142935.3–002836. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2366-2378.	4.4	1
26	13C/18O ratio as a litmus test of stellar IMF variations in high-redshift starbursts. Proceedings of the International Astronomical Union, 2019, 15, 234-238.	0.0	0
27	Extreme conditions in the molecular gas of lensed star-forming galaxies at z \sim 3. Astronomy and Astrophysics, 2018, 615, A142.	5.1	20
28	Molecular Gas toward Supernova Remnant Cassiopeia A. Astrophysical Journal, 2018, 865, 6.	4.5	16
29	Catching the Birth of a Dark Molecular Cloud for the First Time. Astrophysical Journal, 2018, 867, 13.	4.5	13
30	New places and phases of CO-poor/C i-rich molecular gas in the Universe. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1716-1725.	4.4	44
31	The MALATANG Survey: The L _{GAS} –L _{IR} Correlation on Sub-kiloparsec Scale in Six Nearby Star-forming Galaxies as Traced by HCN JÂ=Â4Â→Â3 and HCO ⁺ JÂ=Â4Â→Â3. Astrophysi Journal, 2018, 860, 165.	c a l5	35
32	Revisiting the Extended Schmidt Law: The Important Role of Existing Stars in Regulating Star Formation. Astrophysical Journal, 2018, 853, 149.	4.5	54
33	ALMA [C i] ³ P ₁ â€" ³ P ₀ Observations of NGC 6240: A Puzzling Molecular Outflow, and the Role of Outflows in the Global α _{CO} Factor of (U)LIRGs. Astrophysical Journal, 2018, 863, 143.	4.5	57
34	Stellar populations dominated by massive stars in dusty starburst galaxies across cosmic time. Nature, 2018, 558, 260-263.	27.8	156
35	Cosmic-ray Induced Destruction of CO in Star-forming Galaxies. Astrophysical Journal, 2017, 839, 90.	4.5	92
36	Neutral Carbon Emission in Luminous Infrared Galaxies: The [C i] Lines as Total Molecular Gas Tracers ^{â^—} . Astrophysical Journal Letters, 2017, 840, L18.	8.3	53

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37	Cloud Structure of Three Galactic Infrared Dark Star-forming Regions from Combining Ground-Âand Space-based Bolometric Observations. Astrophysical Journal, 2017, 840, 22.	4.5	33
38	The Molecular Gas Environment in the 20 km s \sup \hat{a} 1 < \sup Cloud in the Central Molecular Zone. Astrophysical Journal, 2017, 839, 1.	4.5	34
39	ALMA Maps of Dust and Warm Dense Gas Emission in the Starburst Galaxy IC 5179*. Astrophysical Journal, 2017, 845, 58.	4.5	2
40	Millimetre spectral line mapping observations towards four massive star-forming H ii regions. Monthly Notices of the Royal Astronomical Society, 2017, 466, 248-275.	4.4	7
41	The evolution of CNO isotopes: a new window on cosmic star formation history and the stellar IMF in the age of ALMA. Monthly Notices of the Royal Astronomical Society, 2017, 470, 401-415.	4.4	108
42	The Dependence of the IR–Radio Correlation on the Metallicity. Astrophysical Journal, 2017, 846, 68.	4.5	5
43	The most distant, luminous, dusty star-forming galaxies: redshifts from NOEMA and ALMA spectral scans. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2028-2041.	4.4	51
44	OUTFLOW DETECTION IN A 70 ν m DARK HIGH-MASS CORE. Astrophysical Journal, 2016, 828, 100.	4.5	32
45	Gone with the heat: a fundamental constraint on the imaging of dust and molecular gas in the early Universe. Royal Society Open Science, 2016, 3, 160025.	2.4	64
46	EXPANDING MOLECULAR BUBBLE SURROUNDING TYCHO'S SUPERNOVA REMNANT (SN 1572) OBSERVED THE IRAM 30 m TELESCOPE: EVIDENCE FOR A SINGLE-DEGENERATE PROGENITOR. Astrophysical Journal, 2016, 826, 34.	WITH 4.5	44
47	MULTI-WAVELENGTH STUDY OF THE SUPERNOVA REMNANT KES 79 (G33.6+0.1): ON ITS SUPERNOVA PROPERTIES AND EXPANSION INTO A MOLECULAR ENVIRONMENT. Astrophysical Journal, 2016, 831, 192.	4.5	25
48	Carbon monoxide in an extremely metal-poor galaxy. Nature Communications, 2016, 7, 13789.	12.8	34
49	CLOUD STRUCTURE OF GALACTIC OB CLUSTER-FORMING REGIONS FROM COMBINING GROUND- AND SPACE-BASED BOLOMETRIC OBSERVATIONS. Astrophysical Journal, 2016, 828, 32.	4.5	38
50	WITNESSING THE BIRTH OF THE RED SEQUENCE: ALMA HIGH-RESOLUTION IMAGING OF AND DUST IN TWO INTERACTING ULTRA-RED STARBURSTS AT $z=4.425$. Astrophysical Journal, 2016, 827, 34.	4.5	75
51	Dense-gas properties in Arp 220 revealed by isotopologue lines. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3986-3990.	4.4	13
52	THE WEAK CARBON MONOXIDE EMISSION IN AN EXTREMELY METAL-POOR GALAXY, SEXTANS A. Astrophysical Journal Letters, 2015, 804, L11.	8.3	28
53	SUB-MILLIMETER TELESCOPE CO (2-1) OBSERVATIONS OF NEARBY STAR-FORMING GALAXIES. Astrophysical Journal, 2015, 799, 92.	4.5	19
54	SMA OBSERVATIONS OF C ₂ H IN HIGH-MASS STAR-FORMING REGIONS. Astrophysical Journal, 2015, 808, 114.	4.5	10

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55	Physical conditions of molecular gas in the Circinus galaxy Multi- <i>J</i> CO and Ci ³ PP _O observations. Astronomy and Astrophysics, 2014, 568, A122.	5.1	35
56	SiO and CH3OH mega-masers in NGC 1068. Nature Communications, 2014, 5, 5449.	12.8	26
57	ISOTOPOLOGUES OF DENSE GAS TRACERS IN NGC 1068. Astrophysical Journal, 2014, 796, 57.	4.5	18
58	STAR FORMATION RELATIONS AND CO SPECTRAL LINE ENERGY DISTRIBUTIONS ACROSS THE $\$ i> J /i>-LADDER AND REDSHIFT. Astrophysical Journal, 2014, 794, 142.	4.5	130
59	MOLECULAR GAS HEATING MECHANISMS, AND STAR FORMATION FEEDBACK IN MERGER/STARBURSTS: NGC 6240 AND Arp 193 AS CASE STUDIES. Astrophysical Journal, 2014, 788, 153.	4.5	67
60	DENSE GAS TRACERS AND STAR FORMATION LAWS IN ACTIVE GALAXIES: APEX SURVEY OF HCN $\langle i \rangle J \langle i \rangle = 4 \text{ ât'}$ 3 HCO $\langle \sup \rangle + \langle \sup \rangle \langle i \rangle J \langle i \rangle = 4 \text{ ât'}$ 3, AND CS $\langle i \rangle J \langle i \rangle = 7 \text{ ât'}$ 6. Astrophysical Journal Letters, 2014, 784, L31.	3, _{8.3}	75
61	Inefficient star formation in extremely metal poor galaxies. Nature, 2014, 514, 335-338.	27.8	176
62	A SiO 2-1 SURVEY TOWARD GAS-RICH ACTIVE GALAXIES. Astrophysical Journal Letters, 2013, 778, L39.	8.3	6
63	High resolution observations of the 6 cm H2CO maser in NGC 6240. Research in Astronomy and Astrophysics, 2013, 13, 270-276.	1.7	1
64	MUSCLE W49: A MULTI-SCALE CONTINUUM AND LINE EXPLORATION OF THE MOST LUMINOUS STAR FORMATION REGION IN THE MILKY WAY. I. DATA AND THE MASS STRUCTURE OF THE GIANT MOLECULAR CLOUD. Astrophysical Journal, 2013, 779, 121.	4.5	63
65	THE ORIGIN OF OB CLUSTERS: FROM 10 pc TO 0.1 pc. Astrophysical Journal, 2012, 745, 61.	4.5	42
66	LARGE-SCALE KINEMATICS, ASTROCHEMISTRY, AND MAGNETIC FIELD STUDIES OF MASSIVE STAR-FORMING REGIONS THROUGH HC ₃ N, HNC, AND C ₂ H MAPPINGS. Astrophysical Journal, 2012, 745, 47.	4.5	35
67	A KILOPARSEC-SCALE BINARY ACTIVE GALACTIC NUCLEUS CONFIRMED BY THE EXPANDED VERY LARGE ARRAY. Astrophysical Journal Letters, 2011, 740, L44.	8.3	84
68	¹² CO, ¹³ CO and C ¹⁸ O observations along the major axes of nearby bright infrared galaxies. Research in Astronomy and Astrophysics, 2011, 11, 787-810.	1.7	27