

Xing Lu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8435466/publications.pdf>

Version: 2024-02-01

55
papers

1,497
citations

304743

22
h-index

330143

37
g-index

57
all docs

57
docs citations

57
times ranked

1042
citing authors

#	ARTICLE	IF	CITATIONS
1	FRAGMENTATION OF MOLECULAR CLUMPS AND FORMATION OF A PROTOCLUSTER. <i>Astrophysical Journal</i> , 2015, 804, 141.	4.5	139
2	The ALMA Survey of 70 $\hat{1}$ / ₄ m Dark High-mass Clumps in Early Stages (ASHES). I. Pilot Survey: Clump Fragmentation. <i>Astrophysical Journal</i> , 2019, 886, 102.	4.5	104
3	The Galactic Center Molecular Cloud Survey. <i>Astronomy and Astrophysics</i> , 2017, 603, A89.	5.1	85
4	A Massive Prestellar Clump Hosting No High-mass Cores. <i>Astrophysical Journal</i> , 2017, 841, 97.	4.5	84
5	Filamentary Fragmentation and Accretion in High-mass Star-forming Molecular Clouds. <i>Astrophysical Journal</i> , 2018, 855, 9.	4.5	76
6	Distributed Star Formation throughout the Galactic Center Cloud Sgr B2. <i>Astrophysical Journal</i> , 2018, 853, 171.	4.5	74
7	VERY LARGE ARRAY OBSERVATIONS OF AMMONIA IN HIGH-MASS STAR FORMATION REGIONS. <i>Astrophysical Journal</i> , 2014, 790, 84.	4.5	65
8	The TOP-SCOPE Survey of <i>Planck</i> Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 28.	7.7	50
9	The Galactic Center Molecular Cloud Survey. <i>Astronomy and Astrophysics</i> , 2017, 603, A90.	5.1	42
10	Dust polarized emission observations of NGC 6334. <i>Astronomy and Astrophysics</i> , 2021, 647, A78.	5.1	41
11	Gravity-driven Magnetic Field at $\hat{1}$ / ₄ 1000 au Scales in High-mass Star Formation. <i>Astrophysical Journal Letters</i> , 2021, 915, L10.	8.3	41
12	Star formation in a high-pressure environment: an SMA view of the Galactic Centre dust ridge. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2373-2388.	4.4	38
13	Cloud–cloud collision as drivers of the chemical complexity in Galactic Centre molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4896-4909.	4.4	38
14	The ALMA Survey of 70 $\hat{1}$ / ₄ m Dark High-mass Clumps in Early Stages (ASHES). II. Molecular Outflows in the Extreme Early Stages of Protocluster Formation. <i>Astrophysical Journal</i> , 2020, 903, 119.	4.5	37
15	The Molecular Gas Environment in the 20 km s ^{>} $\hat{1}$ / ₁ Cloud in the Central Molecular Zone. <i>Astrophysical Journal</i> , 2017, 839, 1.	4.5	34
16	Star Formation Rates of Massive Molecular Clouds in the Central Molecular Zone. <i>Astrophysical Journal</i> , 2019, 872, 171.	4.5	32
17	Young massive star cluster formation in the Galactic Centre is driven by global gravitational collapse of high-mass molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 283-303.	4.4	29
18	CMZoom: Survey Overview and First Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2020, 249, 35.	7.7	27

#	ARTICLE	IF	CITATIONS
19	INITIAL FRAGMENTATION IN THE INFRARED DARK CLOUD G28.53 $\hat{\sim}$ 0.25. <i>Astrophysical Journal</i> , 2015, 805, 171.	4.5	25
20	DEEPLY EMBEDDED PROTOSTELLAR POPULATION IN THE 20 km s ⁻¹ CLOUD OF THE CENTRAL MOLECULAR ZONE. <i>Astrophysical Journal Letters</i> , 2015, 814, L18.	8.3	24
21	A Census of Early-phase High-mass Star Formation in the Central Molecular Zone. <i>Astrophysical Journal</i> , Supplement Series, 2019, 244, 35.	7.7	24
22	The ALMA Survey of 70 $\hat{\sim}$ 4m Dark High-mass Clumps in Early Stages (ASHES). IV. Star Formation Signatures in G023.477. <i>Astrophysical Journal</i> , 2021, 923, 147.	4.5	23
23	SCOPE: SCUBA-2 Continuum Observations of Pre-protostellar Evolution $\hat{\sim}$ survey description and compact source catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2895-2908.	4.4	22
24	The JCMT BISTRO Survey: Revealing the Diverse Magnetic Field Morphologies in Taurus Dense Cores with Sensitive Submillimeter Polarimetry. <i>Astrophysical Journal Letters</i> , 2021, 912, L27.	8.3	21
25	ALMA-IMF. <i>Astronomy and Astrophysics</i> , 2022, 662, A8.	5.1	21
26	ALMA Observations of Massive Clouds in the Central Molecular Zone: Jeans Fragmentation and Cluster Formation. <i>Astrophysical Journal Letters</i> , 2020, 894, L14.	8.3	20
27	Star formation in $\hat{\sim}$ the Brick $\hat{\sim}$: ALMA reveals an active protocluster in the Galactic centre cloud G0.253+0.016. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 77-95.	4.4	19
28	Digging into the Interior of Hot Cores with ALMA (DIHCA). I. Dissecting the High-mass Star-forming Core G335.579-0.292 MM1. <i>Astrophysical Journal</i> , 2021, 909, 199.	4.5	17
29	Observations of Magnetic Fields Surrounding LkH $\hat{\pm}$ 101 Taken by the BISTRO Survey with JCMT-POL-2. <i>Astrophysical Journal</i> , 2021, 908, 10.	4.5	16
30	CMZoom. II. Catalog of Compact Submillimeter Dust Continuum Sources in the Milky Way $\hat{\sim}$ s Central Molecular Zone. <i>Astrophysical Journal</i> , Supplement Series, 2020, 251, 14.	7.7	16
31	ALMA Observations of NGC 6334S. II. Subsonic and Transonic Narrow Filaments in a High-mass Star Formation Cloud. <i>Astrophysical Journal</i> , 2022, 926, 165.	4.5	16
32	B-fields in Star-forming Region Observations (BISTRO): Magnetic Fields in the Filamentary Structures of Serpens Main. <i>Astrophysical Journal</i> , 2022, 926, 163.	4.5	16
33	The ALMA Survey of 70 $\hat{\sim}$ 4m Dark High-mass Clumps in Early Stages (ASHES). III. A Young Molecular Outflow Driven by a Decelerating Jet. <i>Astrophysical Journal</i> , 2021, 913, 131.	4.5	15
34	Molecular Cloud Cores with a High Deuterium Fraction: Nobeyama Single-pointing Survey. <i>Astrophysical Journal</i> , Supplement Series, 2020, 249, 33.	7.7	15
35	ALMA Observations of Massive Clouds in the Central Molecular Zone: Ubiquitous Protostellar Outflows. <i>Astrophysical Journal</i> , 2021, 909, 177.	4.5	14
36	Propionamide (C ₂ H ₅ CONH ₂): The Largest Peptide-like Molecule in Space. <i>Astrophysical Journal</i> , 2021, 919, 4.	4.5	13

#	ARTICLE	IF	CITATIONS
37	The JCMT BISTRO Survey: An 850/450 $\hat{1}$ / $\hat{4}$ m Polarization Study of NGC 2071IR in Orion B. <i>Astrophysical Journal</i> , 2021, 918, 85.	4.5	13
38	ALMA ACA and Nobeyama Observations of Two Orion Cores in Deuterated Molecular Lines. <i>Astrophysical Journal</i> , 2020, 895, 119.	4.5	13
39	The Chemical Structure of Young High-mass Star-forming Clumps. II. Parsec-scale CO Depletion and Deuterium Fraction of HCO ⁺ . <i>Astrophysical Journal</i> , 2020, 901, 145.	4.5	13
40	The ALMA Survey of 70 $\hat{1}$ / $\hat{4}$ m Dark High-mass Clumps in Early Stages (ASHES). V. Deuterated Molecules in the 70 $\hat{1}$ / $\hat{4}$ m Dark IRDC G14.492-00.139. <i>Astrophysical Journal</i> , 2022, 925, 144.	4.5	12
41	A Low-mass Cold and Quiescent Core Population in a Massive Star Protocluster. <i>Astrophysical Journal Letters</i> , 2021, 912, L7.	8.3	10
42	Magnetic Fields in Massive Star-forming Regions (MagMaR). II. Tomography through Dust and Molecular Line Polarization in NGC 6334(N). <i>Astrophysical Journal</i> , 2021, 923, 204.	4.5	10
43	Digging into the Interior of Hot Cores with ALMA (DIHCA). II. Exploring the Inner Binary (Multiple) System Embedded in G335 MM1 ALMA1. <i>Astrophysical Journal</i> , 2022, 929, 68.	4.5	10
44	SMA Observations of the Hot Molecular Core IRAS 18566+0408. <i>Astrophysical Journal</i> , 2017, 847, 87.	4.5	9
45	Submillimeter Array Observations of Extended CO (J = 2 $\hat{1}$ 1) Emission in the Interacting Galaxy NGC 3627. <i>Astrophysical Journal</i> , 2018, 865, 17.	4.5	9
46	A massive Keplerian protostellar disk with flyby-induced spirals in the Central Molecular Zone. <i>Nature Astronomy</i> , 2022, 6, 837-843.	10.1	8
47	First Data Release of the ESO-ARO Public Survey SAMPLING ^{SMT} $\hat{1}$ All-sky $\hat{1}$ Mapping of Planck Interstellar Nebulae in the Galaxy. <i>Research Notes of the AAS</i> , 2018, 2, 2.	0.7	7
48	Molecular Cloud Cores with High Deuterium Fractions: Nobeyama Mapping Survey. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 25.	7.7	5
49	The initial conditions for young massive cluster formation in the Galactic Centre: convergence of large-scale gas flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 578-595.	4.4	5
50	SMA observations towards massive clouds in the central molecular zone. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 191-193.	0.0	0
51	Deeply Embedded Protostellar Population in the Central Molecular Zone Suggested by H ₂ O Masers and Dense Cores. <i>Proceedings of the International Astronomical Union</i> , 2016, 11, 99-102.	0.0	0
52	A Brief Update on the <i>CMZoom</i> Survey. <i>Proceedings of the International Astronomical Union</i> , 2016, 11, 90-94.	0.0	0
53	How maser observations unravel the gas motions in the Galactic Center. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 176-179.	0.0	0
54	Erratum $\hat{1}$ A Low-mass Cold and Quiescent Core Population in a Massive Star Protocluster $\hat{1}$ (2021, ApJL), Tj ETQ ₀ 0 0 rgBT /Overlo	8.3	0

#	ARTICLE	IF	CITATIONS
55	Little Massive Substructure in CMZ Molecular Clouds. EAS Publications Series, 2015, 75-76, 93-96.	0.3	0