

Tie Liu

List of Publications by Year in descending order

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91
papers

2,045
citations

186265

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289244

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docs citations

91
times ranked

1436
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt. <i>Astrophysical Journal</i> , 2017, 842, 66.	4.5	79
3	GAS EMISSIONS IN PLANCK COLD DUST CLUMPSâ€”A SURVEY OF THE $J=1-0$ TRANSITIONS OF ¹² CO, ¹³ CO, AND C ¹⁸ O. <i>Astrophysical Journal</i> , 2012, 756, 76.	4.5	63
4	High-mass Star Formation through Filamentary Collapse and Clump-fed Accretion in G22. <i>Astrophysical Journal</i> , 2018, 852, 12.	4.5	58
5	A Holistic Perspective on the Dynamics of G035.39-00.33: The Interplay between Gas and Magnetic Fields. <i>Astrophysical Journal</i> , 2018, 859, 151.	4.5	57
6	Infall Signatures in a Prestellar Core Embedded in the High-mass 70 $\hat{1}$ / ₄ m Dark IRDC G331.372-00.116. <i>Astrophysical Journal</i> , 2018, 861, 14.	4.5	55
7	The Effect of Galaxy Interactions on Molecular Gas Properties. <i>Astrophysical Journal</i> , 2018, 868, 132.	4.5	51
8	Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. <i>Astrophysical Journal</i> , 2018, 861, 65.	4.5	51
9	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
10	A First Look at BISTRO Observations of the $\hat{1}$ Oph-A core. <i>Astrophysical Journal</i> , 2018, 859, 4.	4.5	46
11	ATOMS: ALMA Three-millimeter Observations of Massive Star-forming regions â€” I. Survey description and a first look at G9.62+0.19. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2790-2820.	4.4	45
12	JCMT BISTRO Survey: Magnetic Fields within the Hub-filament Structure in IC 5146. <i>Astrophysical Journal</i> , 2019, 876, 42.	4.5	42
13	Astrochemical Properties of Planck Cold Clumps. <i>Astrophysical Journal, Supplement Series</i> , 2017, 228, 12.	7.7	41
14	ALMA Reveals Sequential High-mass Star Formation in the G9.62+0.19 Complex. <i>Astrophysical Journal</i> , 2017, 849, 25.	4.5	41
15	JCMT BISTRO Survey Observations of the Ophiuchus Molecular Cloud: Dust Grain Alignment Properties Inferred Using a Ricean Noise Model. <i>Astrophysical Journal</i> , 2019, 880, 27.	4.5	40
16	MOLECULAR ENVIRONMENTS OF 51 PLANCK COLD CLUMPS IN THE ORION COMPLEX. <i>Astrophysical Journal, Supplement Series</i> , 2012, 202, 4.	7.7	38
17	STAR FORMATION LAWS IN BOTH GALACTIC MASSIVE CLUMPS AND EXTERNAL GALAXIES: EXTENSIVE STUDY WITH DUST CONTINUUM, HCN (4-3), AND CS (7-6). <i>Astrophysical Journal</i> , 2016, 829, 59.	4.5	38
18	The JCMT BISTRO Survey: The Magnetic Field in the Starless Core $\hat{1}$ Ophiuchus C. <i>Astrophysical Journal</i> , 2019, 877, 43.	4.5	38

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19	Magnetic Fields in the Infrared Dark Cloud G34.43+0.24. <i>Astrophysical Journal</i> , 2019, 883, 95.	4.5	38
20	The JCMT BISTRO Survey: The Magnetic Field of the Barnard 1 Star-forming Region. <i>Astrophysical Journal</i> , 2019, 877, 88.	4.5	37
21	GASEOUS CO ABUNDANCE—AN EVOLUTIONARY TRACER FOR MOLECULAR CLOUDS. <i>Astrophysical Journal Letters</i> , 2013, 775, L2.	8.3	33
22	INTERACTIONS OF THE INFRARED BUBBLE N4 WITH ITS SURROUNDINGS. <i>Astrophysical Journal</i> , 2016, 818, 95.	4.5	33
23	MAPPING STUDY OF 71 <i>PLANCK</i> COLD CLUMPS IN THE TAURUS, PERSEUS, AND CALIFORNIA COMPLEXES. <i>Astrophysical Journal, Supplement Series</i> , 2013, 209, 37.	7.7	31
24	DISCOVERY OF AN EXTREMELY WIDE-ANGLE BIPOLAR OUTFLOW IN AFGL 5142. <i>Astrophysical Journal</i> , 2016, 824, 31.	4.5	31
25	PLANCK COLD CLUMPS IN THE $\hat{\nu}$ ORIONIS COMPLEX. I. DISCOVERY OF AN EXTREMELY YOUNG CLASS 0 PROTOSTELLAR OBJECT AND A PROTO-BROWN DWARF CANDIDATE IN THE BRIGHT-RIMMED CLUMP PGCC G192.32—11.88. <i>Astrophysical Journal, Supplement Series</i> , 2016, 222, 7.	7.7	31
26	Star Formation Occurs in Dense Gas, but What Does “Dense” Mean?. <i>Astrophysical Journal</i> , 2020, 894, 103.	4.5	30
27	UNIFORM INFALL TOWARD THE COMETARY H II REGION IN THE G34.26+0.15 COMPLEX?. <i>Astrophysical Journal</i> , 2013, 776, 29.	4.5	29
28	TRIGGERED STAR FORMATION SURROUNDING WOLF-RAYET STAR HD 211853. <i>Astrophysical Journal</i> , 2012, 751, 68.	4.5	28
29	High-mass Starless Clumps in the Inner Galactic Plane: The Sample and Dust Properties. <i>Astrophysical Journal, Supplement Series</i> , 2017, 231, 11.	7.7	28
30	EVOLUTION OF THE DUST/GAS ENVIRONMENT AROUND HERBIG Ae/Be STARS. <i>Astrophysical Journal</i> , 2011, 734, 22.	4.5	27
31	A FEEDBACK-DRIVEN BUBBLE G24.136+00.436: A POSSIBLE SITE OF TRIGGERED STAR FORMATION. <i>Astrophysical Journal</i> , 2015, 798, 30.	4.5	27
32	PROPERTIES AND GRAVITATIONAL COLLAPSE OF THE CORE IN G19.61 — 0.23. <i>Astrophysical Journal</i> , 2009, 697, L116-L121.	4.5	25
33	HIGH-RESOLUTION CO OBSERVATION OF THE CARBON STAR CIT 6 REVEALING THE SPIRAL STRUCTURE AND A NASCENT BIPOLAR OUTFLOW. <i>Astrophysical Journal</i> , 2015, 814, 61.	4.5	25
34	SMA OBSERVATIONS OF THE W3(OH) COMPLEX: PHYSICAL AND CHEMICAL DIFFERENTIATION BETWEEN W3(H ₂ O) AND W3(OH). <i>Astrophysical Journal</i> , 2015, 803, 39.	4.5	25
35	INFALL AND OUTFLOW MOTIONS IN THE HIGH-MASS STAR-FORMING COMPLEX G9.62+0.19. <i>Astrophysical Journal</i> , 2011, 730, 102.	4.5	23
36	A STUDY OF DYNAMICAL PROCESSES IN THE ORION KL REGION USING ALMA—PROBING MOLECULAR OUTFLOW AND INFLOW. <i>Astrophysical Journal</i> , 2014, 791, 123.	4.5	23

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37	Dust spectrum and polarisation at 850 μm in the massive IRDC G035.39-00.33. <i>Astronomy and Astrophysics</i> , 2018, 620, A26.	5.1	22
38	Planck Cold Clumps in the $\rho\text{O}2$ Orionis Complex. II. Environmental Effects on Core Formation. <i>Astrophysical Journal</i> , Supplement Series, 2018, 236, 51.	7.7	22
39	SCOPE: SCUBA-2 Continuum Observations of Pre-protostellar Evolution “survey description and compact source catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2895-2908.	4.4	22
40	Physical properties and chemical composition of the cores in the California molecular cloud. <i>Astronomy and Astrophysics</i> , 2018, 620, A163.	5.1	21
41	Competitive accretion in the protocluster G10.6 \pm 0.4?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 1335-1342.	4.4	20
42	<i>Herschel</i> and SCUBA-2 observations of dust emission in a sample of <i>Planck</i> cold clumps. <i>Astronomy and Astrophysics</i> , 2018, 612, A71.	5.1	20
43	Multi-scale analysis of the Monoceros OB 1 star-forming region. <i>Astronomy and Astrophysics</i> , 2019, 631, A3.	5.1	20
44	ATOMS: ALMA three-millimeter observations of massive star-forming regions “ II. Compact objects in ACA observations and star formation scaling relations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2821-2835.	4.4	20
45	The Properties of Planck Galactic Cold Clumps in the L1495 Dark Cloud. <i>Astrophysical Journal</i> , 2018, 856, 141.	4.5	19
46	GAS OF 96 PLANCK COLD CLUMPS IN THE SECOND QUADRANT. <i>Astrophysical Journal</i> , Supplement Series, 2016, 224, 43.	7.7	18
47	DENSE GAS IN MOLECULAR CORES ASSOCIATED WITH PLANCK GALACTIC COLD CLUMPS. <i>Astrophysical Journal</i> , 2016, 820, 37.	4.5	18
48	SMA observations of the W3(OH) complex: Dynamical differentiation between W3(H ₂ O) and W3(OH). <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2681-2691.	4.4	18
49	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP). I. Detection of New Hot Corinos with the ACA. <i>Astrophysical Journal</i> , 2020, 898, 107.	4.5	18
50	Outflow activities in the young high-mass stellar object G23.44 \pm 0.18. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 415, L49-L53.	3.3	17
51	ALMA Observations of Vibrationally Excited HC ₃ N Lines Toward Orion KL. <i>Astrophysical Journal</i> , 2017, 837, 49.	4.5	17
52	MHD Simulation of Prominence-Cavity System. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	2.8	16
53	ALMA Observations Reveal No Preferred Outflow-filament and Outflow-magnetic Field Orientations in Protoclusters. <i>Astrophysical Journal</i> , 2020, 890, 44.	4.5	16
54	INFALL AND OUTFLOW DETECTIONS IN A MASSIVE CORE JCMT 18354 \pm 0649S. <i>Astrophysical Journal</i> , 2011, 728, 91.	4.5	15

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55	The molecular emissions and the infall motion in the high-mass young stellar object G8.68 \hat{a} 0.37. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1098-1108.	4.4	15
56	Magnetic Field Modeling of Hot Channels in Four Flare/Coronal Mass Ejection Events. Astrophysical Journal, 2018, 868, 59.	4.5	15
57	TWO NEW SiO MASER SOURCES IN HIGH-MASS STAR-FORMING REGIONS. Astrophysical Journal, 2016, 826, 157.	4.5	14
58	TRAO Survey of Nearby Filamentary Molecular Clouds, the Universal Nursery of Stars (TRAO FUNS). I. Dynamics and Chemistry of L1478 in the California Molecular Cloud. Astrophysical Journal, 2019, 877, 114.	4.5	12
59	FOLLOW-UP OBSERVATIONS TOWARD PLANCK COLD CLUMPS WITH GROUND-BASED RADIO TELESCOPES. Publications of the Korean Astronomical Society, 2015, 30, 79-82.	0.0	12
60	Multi-scale analysis of the Monoceros OB 1 star-forming region. Astronomy and Astrophysics, 2019, 631, L1.	5.1	11
61	Tether-cutting and Overlying Magnetic Reconnections in an MHD Simulation of Prominence-cavity System. Astrophysical Journal, 2021, 915, 55.	4.5	11
62	A search for massive young stellar objects with 98 CH ₃ OH maser sources. Research in Astronomy and Astrophysics, 2010, 10, 67-82.	1.7	10
63	L1599B: CLOUD ENVELOPE AND C ⁺ EMISSION IN A REGION OF MODERATELY ENHANCED RADIATION FIELD. Astrophysical Journal, 2016, 824, 141.	4.5	10
64	The TOP-SCOPE Survey of PGCCs: PMO and SCUBA-2 Observations of 64 PGCCs in the Second Galactic Quadrant. Astrophysical Journal, Supplement Series, 2018, 236, 49.	7.7	10
65	Complex molecules in the W51 North region. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1428-1437.	4.4	9
66	Star Formation Conditions in a <i>Planck</i> Galactic Cold Clump, G108.84 \hat{a} 00.81. Astrophysical Journal, Supplement Series, 2017, 231, 9.	7.7	9
67	Compressed Magnetic Field in the Magnetically Regulated Global Collapsing Clump of G9.62+0.19. Astrophysical Journal Letters, 2018, 869, L5.	8.3	9
68	Carbon-chain molecules in molecular outflows and Lupus I region \hat{a} new producing region and new forming mechanism. Monthly Notices of the Royal Astronomical Society, 2019, 488, 495-511.	4.4	9
69	Initial phases of high-mass star formation: a multiwavelength study towards the extended green object G12.42+0.50. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1775-1799.	4.4	9
70	Unveiling the Importance of Magnetic Fields in the Evolution of Dense Clumps Formed at the Waist of Bipolar H ii Regions: A Case Study of Sh 2-201 with JCMT SCUBA-2/POL-2. Astrophysical Journal, 2020, 897, 90.	4.5	9
71	EXTREMELY ENERGETIC OUTFLOW AND DECELERATED EXPANSION IN W49N. Astrophysical Journal, 2015, 810, 147.	4.5	8
72	A particular carbon-chain-producing region: L1489 starless core. Astronomy and Astrophysics, 2019, 627, A162.	5.1	8

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73	Partial Eruption, Confinement, and Twist Buildup and Release of a Double-decker Filament. <i>Astrophysical Journal</i> , 2021, 923, 142.	4.5	8
74	Infrared dust bubble CS51 and its interaction with the surrounding interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4750-4768.	4.4	7
75	Three-dimensional Projection Effects on Chemistry in a Planck Galactic Cold Clump. <i>Astrophysical Journal</i> , 2020, 891, 36.	4.5	7
76	First Sub-parsec-scale Mapping of Magnetic Fields in the Vicinity of a Very-low-luminosity Object, L1521F-IRS. <i>Astrophysical Journal</i> , 2019, 883, 9.	4.5	7
77	First Data Release of the ESO-ARO Public Survey SAMPLINGâ€”SMT â€œAll-skyâ€•Mapping of Planck Interstellar Nebulae in the Galaxy. <i>Research Notes of the AAS</i> , 2018, 2, 2.	0.7	7
78	The nearby evolved stars survey â€” I. JCMT/SCUBA-2 submillimetre detection of the detached shell of U Antliae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 3218-3231.	4.4	4
79	Sequential star formation in the filamentary structures of the Planck Galactic cold clump G181.84+0.31. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1315-1334.	4.4	4
80	Gas infall in the massive star formation core G192.16â€”3.84. <i>Research in Astronomy and Astrophysics</i> , 2019, 19, 040.	1.7	3
81	Planck Galactic Cold Clumps in Two Regions: The First Quadrant and the Anticenter Direction Region. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 29.	7.7	2
82	A CO observation of the Galactic methanol masers. <i>Astronomy and Astrophysics</i> , 2014, 567, A40.	5.1	2
83	Chemical Properties of Two Dense Cores in a Planck Galactic Cold Clump G168.72-15.48. <i>Astrophysical Journal</i> , 2019, 887, 243.	4.5	2
84	Understanding high-mass star formation through KaVA observations of water and methanol masers. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 259-262.	0.0	1
85	Apparent Footpoint Rotation and Writhe of Double Hot Channels in a Solar Flare. <i>Astrophysical Journal</i> , 2022, 930, 130.	4.5	1
86	Molecular gas and triggered star formation surrounding Wolf-Rayet stars. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 48-48.	0.0	0
87	The feedback of Herbig Ae/Be stars. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, .	0.0	0
88	Millimetre molecular lines in Planck cold clumps. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 60-60.	0.0	0
89	Spiral-shells and nascent bipolar outflow in CIT 6: hints for an eccentric-orbit binary?. <i>Journal of Physics: Conference Series</i> , 2016, 728, 072018.	0.4	0
90	Submillimeter Continuum Variability in Planck Galactic Cold Clumps. <i>Astrophysical Journal, Supplement Series</i> , 2019, 242, 27.	7.7	0

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91	INFLOWS IN MASSIVE STAR FORMATION REGIONS. Publications of the Korean Astronomical Society, 2015, 30, 93-97.	0.0	0