

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

40
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all docs

91
docs citations

91
times ranked

1436
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Apparent Footpoint Rotation and Writhe of Double Hot Channels in a Solar Flare. <i>Astrophysical Journal</i> , 2022, 930, 130. | 4.5 | 1 |
| 2 | Tether-cutting and Overlying Magnetic Reconnections in an MHD Simulation of Prominence-cavity System. <i>Astrophysical Journal</i> , 2021, 915, 55. | 4.5 | 11 |
| 3 | Partial Eruption, Confinement, and Twist Buildup and Release of a Double-decker Filament. <i>Astrophysical Journal</i> , 2021, 923, 142. | 4.5 | 8 |
| 4 | ATOMS: ALMA three-millimeter observations of massive star-forming regions â€” 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 |
| 5 | Star Formation Occurs in Dense Gas, but What Does â€œDenseâ€ Mean?. <i>Astrophysical Journal</i> , 2020, 894, 103. | 4.5 | 30 |
| 6 | Planck Galactic Cold Clumps in Two Regions: The First Quadrant and the Anticenter Direction Region. <i>Astrophysical Journal</i> , Supplement Series, 2020, 247, 29. | 7.7 | 2 |
| 7 | ALMA Observations Reveal No Preferred Outflow-filament and Outflow-magnetic Field Orientations in Protoclusters. <i>Astrophysical Journal</i> , 2020, 890, 44. | 4.5 | 16 |
| 8 | Three-dimensional Projection Effects on Chemistry in a Planck Galactic Cold Clump. <i>Astrophysical Journal</i> , 2020, 891, 36. | 4.5 | 7 |
| 9 | 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 |
| 10 | 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. <i>Astrophysical Journal</i> , 2020, 897, 90. | 4.5 | 9 |
| 11 | 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 |
| 12 | A particular carbon-chain-producing region: L1489 starless core. <i>Astronomy and Astrophysics</i> , 2019, 627, A162. | 5.1 | 8 |
| 13 | 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 |
| 14 | MHD Simulation of Prominence-Cavity System. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, . | 2.8 | 16 |
| 15 | 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 |
| 16 | JCMT BISTRO Survey: Magnetic Fields within the Hub-filament Structure in IC 5146. <i>Astrophysical Journal</i> , 2019, 876, 42. | 4.5 | 42 |
| 17 | The JCMT BISTRO Survey: The Magnetic Field in the Starless Core <i>ï</i> Ophiuchus C. <i>Astrophysical Journal</i> , 2019, 877, 43. | 4.5 | 38 |
| 18 | Submillimeter Continuum Variability in Planck Galactic Cold Clumps. <i>Astrophysical Journal</i> , Supplement Series, 2019, 242, 27. | 7.7 | 0 |

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|----|--|-----|-----------|
| 19 | Carbon-chain molecules in molecular outflows and Lupus I region – new producing region and new forming mechanism. Monthly Notices of the Royal Astronomical Society, 2019, 488, 495-511. | 4.4 | 9 |
| 20 | Sequential star formation in the filamentary structures of the Planck Galactic cold clump G181.84+0.31. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1315-1334. | 4.4 | 4 |
| 21 | The JCMT BISTRO Survey: The Magnetic Field of the Barnard 1 Star-forming Region. Astrophysical Journal, 2019, 877, 88. | 4.5 | 37 |
| 22 | 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 |
| 23 | Gas infall in the massive star formation core G192.16 – 3.84. Research in Astronomy and Astrophysics, 2019, 19, 040. | 1.7 | 3 |
| 24 | SCOPE: SCUBA-2 Continuum Observations of Pre-protostellar Evolution – survey description and compact source catalogue. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2895-2908. | 4.4 | 22 |
| 25 | 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 |
| 26 | Multi-scale analysis of the Monoceros OB 1 star-forming region. Astronomy and Astrophysics, 2019, 631, A3. | 5.1 | 20 |
| 27 | Multi-scale analysis of the Monoceros OB 1 star-forming region. Astronomy and Astrophysics, 2019, 631, L1. | 5.1 | 11 |
| 28 | The ALMA Survey of 70 λ 4m Dark High-mass Clumps in Early Stages (ASHES). I. Pilot Survey: Clump Fragmentation. Astrophysical Journal, 2019, 886, 102. | 4.5 | 104 |
| 29 | Magnetic Fields in the Infrared Dark Cloud G34.43+0.24. Astrophysical Journal, 2019, 883, 95. | 4.5 | 38 |
| 30 | First Sub-parsec-scale Mapping of Magnetic Fields in the Vicinity of a Very-low-luminosity Object, L1521F-IRS. Astrophysical Journal, 2019, 883, 9. | 4.5 | 7 |
| 31 | Chemical Properties of Two Dense Cores in a Planck Galactic Cold Clump G168.72-15.48. Astrophysical Journal, 2019, 887, 243. | 4.5 | 2 |
| 32 | The Properties of Planck Galactic Cold Clumps in the L1495 Dark Cloud. Astrophysical Journal, 2018, 856, 141. | 4.5 | 19 |
| 33 | The TOP-SCOPE Survey of Planck Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17. Astrophysical Journal, Supplement Series, 2018, 234, 28. | 7.7 | 50 |
| 34 | High-mass Star Formation through Filamentary Collapse and Clump-fed Accretion in G22. Astrophysical Journal, 2018, 852, 12. | 4.5 | 58 |
| 35 | The Effect of Galaxy Interactions on Molecular Gas Properties. Astrophysical Journal, 2018, 868, 132. | 4.5 | 51 |
| 36 | Dust spectrum and polarisation at 850 μ m in the massive IRDC G035.39-00.33. Astronomy and Astrophysics, 2018, 620, A26. | 5.1 | 22 |

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| 37 | Magnetic Field Modeling of Hot Channels in Four Flare/Coronal Mass Ejection Events. <i>Astrophysical Journal</i> , 2018, 868, 59. | 4.5 | 15 |
| 38 | Planck Cold Clumps in the ρ Orionis Complex. II. Environmental Effects on Core Formation. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 51. | 7.7 | 22 |
| 39 | Physical properties and chemical composition of the cores in the California molecular cloud. <i>Astronomy and Astrophysics</i> , 2018, 620, A163. | 5.1 | 21 |
| 40 | Compressed Magnetic Field in the Magnetically Regulated Global Collapsing Clump of G9.62+0.19. <i>Astrophysical Journal Letters</i> , 2018, 869, L5. | 8.3 | 9 |
| 41 | A First Look at BISTRO Observations of the ρ -Oph-A core. <i>Astrophysical Journal</i> , 2018, 859, 4. | 4.5 | 46 |
| 42 | Infall Signatures in a Prestellar Core Embedded in the High-mass 70 μ m Dark IRDC G331.372-00.116. <i>Astrophysical Journal</i> , 2018, 861, 14. | 4.5 | 55 |
| 43 | The TOP-SCOPE Survey of PGCCs: PMO and SCUBA-2 Observations of 64 PGCCs in the Second Galactic Quadrant. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 49. | 7.7 | 10 |
| 44 | 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 |
| 45 | <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 |
| 46 | Magnetic Fields toward Ophiuchus-B Derived from SCUBA-2 Polarization Measurements. <i>Astrophysical Journal</i> , 2018, 861, 65. | 4.5 | 51 |
| 47 | First Data Release of the ESO-ARO Public Survey SAMPLING ^{SMT} – All-sky Mapping of <i>Planck</i> Interstellar Nebulae in the Galaxy. <i>Research Notes of the AAS</i> , 2018, 2, 2. | 0.7 | 7 |
| 48 | ALMA Observations of Vibrationally Excited HC ₃ N Lines Toward Orion KL. <i>Astrophysical Journal</i> , 2017, 837, 49. | 4.5 | 17 |
| 49 | Astrochemical Properties of <i>Planck</i> Cold Clumps. <i>Astrophysical Journal, Supplement Series</i> , 2017, 228, 12. | 7.7 | 41 |
| 50 | First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt. <i>Astrophysical Journal</i> , 2017, 842, 66. | 4.5 | 79 |
| 51 | 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 |
| 52 | Star Formation Conditions in a <i>Planck</i> Galactic Cold Clump, G108.84 – 00.81. <i>Astrophysical Journal, Supplement Series</i> , 2017, 231, 9. | 7.7 | 9 |
| 53 | ALMA Reveals Sequential High-mass Star Formation in the G9.62+0.19 Complex. <i>Astrophysical Journal</i> , 2017, 849, 25. | 4.5 | 41 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | Understanding high-mass star formation through KaVA observations of water and methanol masers. Proceedings of the International Astronomical Union, 2017, 13, 259-262. | 0.0 | 1 |
| 56 | DISCOVERY OF AN EXTREMELY WIDE-ANGLE BIPOLAR OUTFLOW IN AFGL 5142. Astrophysical Journal, 2016, 824, 31. | 4.5 | 31 |
| 57 | L1599B: CLOUD ENVELOPE AND C ⁺ EMISSION IN A REGION OF MODERATELY ENHANCED RADIATION FIELD. Astrophysical Journal, 2016, 824, 141. | 4.5 | 10 |
| 58 | Spiral-shells and nascent bipolar outflow in CIT 6: hints for an eccentric-orbit binary?. Journal of Physics: Conference Series, 2016, 728, 072018. | 0.4 | 0 |
| 59 | PLANCK COLD CLUMPS IN THE Î» ORIONIS COMPLEX. I. DISCOVERY OF AN EXTREMELY YOUNG CLASS 0 PROTOSTELLAR OBJECT AND A PROTO-BROWN DWARF CANDIDATE IN THE BRIGHT-RIMMED CLUMP PGCC G192.32â€“11.88. Astrophysical Journal, Supplement Series, 2016, 222, 7. | 7.7 | 31 |
| 60 | INTERACTIONS OF THE INFRARED BUBBLE N4 WITH ITS SURROUNDINGS. Astrophysical Journal, 2016, 818, 95. | 4.5 | 33 |
| 61 | STAR FORMATION LAWS IN BOTH GALACTIC MASSIVE CLUMPS AND EXTERNAL GALAXIES: EXTENSIVE STUDY WITH DUST CONTINUUM, HCN (4-3), AND CS (7-6). Astrophysical Journal, 2016, 829, 59. | 4.5 | 38 |
| 62 | GAS OF 96 PLANCK COLD CLUMPS IN THE SECOND QUADRANT. Astrophysical Journal, Supplement Series, 2016, 224, 43. | 7.7 | 18 |
| 63 | DENSE GAS IN MOLECULAR CORES ASSOCIATED WITH PLANCK GALACTIC COLD CLUMPS. Astrophysical Journal, 2016, 820, 37. | 4.5 | 18 |
| 64 | TWO NEW SiO MASER SOURCES IN HIGH-MASS STAR-FORMING REGIONS. Astrophysical Journal, 2016, 826, 157. | 4.5 | 14 |
| 65 | SMA observations of the W3(OH) complex: Dynamical differentiation between W3(H ₂ O) and W3(OH). Monthly Notices of the Royal Astronomical Society, 2016, 456, 2681-2691. | 4.4 | 18 |
| 66 | Complex molecules in the W51 North region. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1428-1437. | 4.4 | 9 |
| 67 | EXTREMELY ENERGETIC OUTFLOW AND DECELERATED EXPANSION IN W49N. Astrophysical Journal, 2015, 810, 147. | 4.5 | 8 |
| 68 | HIGH-RESOLUTION CO OBSERVATION OF THE CARBON STAR CIT 6 REVEALING THE SPIRAL STRUCTURE AND A NASCENT BIPOLAR OUTFLOW. Astrophysical Journal, 2015, 814, 61. | 4.5 | 25 |
| 69 | The feedback of Herbig Ae/Be stars. Proceedings of the International Astronomical Union, 2015, 11, . | 0.0 | 0 |
| 70 | Millimetre molecular lines in Planck cold clumps. Proceedings of the International Astronomical Union, 2015, 11, 60-60. | 0.0 | 0 |
| 71 | A FEEDBACK-DRIVEN BUBBLE G24.136+00.436: A POSSIBLE SITE OF TRIGGERED STAR FORMATION. Astrophysical Journal, 2015, 798, 30. | 4.5 | 27 |
| 72 | SMA OBSERVATIONS OF THE W3(OH) COMPLEX: PHYSICAL AND CHEMICAL DIFFERENTIATION BETWEEN W3(H ₂ O) AND W3(OH). Astrophysical Journal, 2015, 803, 39. | 4.5 | 25 |

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|----|---|-----|-----------|
| 73 | 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 |
| 74 | INFLOWS IN MASSIVE STAR FORMATION REGIONS. Publications of the Korean Astronomical Society, 2015, 30, 93-97. | 0.0 | 0 |
| 75 | A STUDY OF DYNAMICAL PROCESSES IN THE ORION KL REGION USING ALMAâ€”PROBING MOLECULAR OUTFLOW AND INFLOW. Astrophysical Journal, 2014, 791, 123. | 4.5 | 23 |
| 76 | A CO observation of the Galactic methanol masers. Astronomy and Astrophysics, 2014, 567, A40. | 5.1 | 2 |
| 77 | Competitive accretion in the protocluster G10.6â€”0.4?. Monthly Notices of the Royal Astronomical Society, 2013, 436, 1335-1342. | 4.4 | 20 |
| 78 | MAPPING STUDY OF 71 PLANCK COLD CLUMPS IN THE TAURUS, PERSEUS, AND CALIFORNIA COMPLEXES. Astrophysical Journal, Supplement Series, 2013, 209, 37. | 7.7 | 31 |
| 79 | GASEOUS CO ABUNDANCEâ€”AN EVOLUTIONARY TRACER FOR MOLECULAR CLOUDS. Astrophysical Journal Letters, 2013, 775, L2. | 8.3 | 33 |
| 80 | UNIFORM INFALL TOWARD THE COMETARY H II REGION IN THE G34.26+0.15 COMPLEX?. Astrophysical Journal, 2013, 776, 29. | 4.5 | 29 |
| 81 | MOLECULAR ENVIRONMENTS OF 51 PLANCK COLD CLUMPS IN THE ORION COMPLEX. Astrophysical Journal, Supplement Series, 2012, 202, 4. | 7.7 | 38 |
| 82 | Molecular gas and triggered star formation surrounding Wolf-Rayet stars. Proceedings of the International Astronomical Union, 2012, 8, 48-48. | 0.0 | 0 |
| 83 | GAS EMISSIONS IN PLANCK COLD DUST CLUMPSâ€”A SURVEY OF THE $J=1-0$ TRANSITIONS OF ^{12}CO , ^{13}CO , AND C^{18}O . Astrophysical Journal, 2012, 756, 76. | 4.5 | 63 |
| 84 | TRIGGERED STAR FORMATION SURROUNDING WOLF-RAYET STAR HD 211853. Astrophysical Journal, 2012, 751, 68. | 4.5 | 28 |
| 85 | The molecular emissions and the infall motion in the high-mass young stellar object G8.68â€”0.37. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1098-1108. | 4.4 | 15 |
| 86 | EVOLUTION OF THE DUST/GAS ENVIRONMENT AROUND HERBIG Ae/Be STARS. Astrophysical Journal, 2011, 734, 22. | 4.5 | 27 |
| 87 | INFALL AND OUTFLOW MOTIONS IN THE HIGH-MASS STAR-FORMING COMPLEX G9.62+0.19. Astrophysical Journal, 2011, 730, 102. | 4.5 | 23 |
| 88 | INFALL AND OUTFLOW DETECTIONS IN A MASSIVE CORE JCMT 18354â€”0649S. Astrophysical Journal, 2011, 728, 91. | 4.5 | 15 |
| 89 | Outflow activities in the young high-mass stellar object G23.44â€”0.18. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 415, L49-L53. | 3.3 | 17 |
| 90 | A search for massive young stellar objects with 98 CH_3OH maser sources. Research in Astronomy and Astrophysics, 2010, 10, 67-82. | 1.7 | 10 |

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|----|--|-----|-----------|
| 91 | PROPERTIES AND GRAVITATIONAL COLLAPSE OF THE CORE IN G19.61 \hat{a} 0.23. Astrophysical Journal, 2009, 697, L116-L121. | 4.5 | 25 |