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## RESEARCH INTERESTS

- Large-scale structure and kinematics of molecular clouds
- Star formation in molecular clouds
- Astrochemistry
- Astronomical masers
- Circumstellar envelopes of late-type stars

## EDUCATION

- 09/2009–07/2016 Ph.D. in Astrophysics, **Purple Mountain Observatory**  
Thesis: "A search for triggered star formation and a 1.3 cm spectral line survey"  
Advisors: Prof. Dr. Rui-qing Mao & Dr. Christian Henkel
- 09/2005–07/2009 B.Sc. in physics, **Central China Normal University**

## PROFESSIONAL APPOINTMENTS

- 07/2016–08/2017 Research assistant, **Purple Mountain Observatory**  
09/2017–09/2021 Postdoc, **Max-Planck Institut für Radioastronomie**  
09/2021– Scientific Staff, **Max-Planck Institut für Radioastronomie**

## REFEREED PUBLICATIONS

54. Sun, Li ; Chen, Xuepeng ; Fang, Min ; Zhang, Shaobo ; **Gong, Yan** ; Feng, Jiancheng ; Li, Xuefu ; Yan, Qing-Zeng ; Yang, Ji, 2024, AJ, accepted, **Magnetically Aligned Striations in the L914 Filamentary Cloud**
53. Lin, Yuxin ; Wyrowski, Friedrich ; Liu, Hauyu Baobab ; **Gong, Yan**; Sipilä, Olli ; Izquierdo, Andrés F. ; Csengeri, Timea ; Ginsburg, Adam ; Li, Guang-Xing ; Spezzano, Silvia ; Pineda, Jaime E. ; Leurini, Silvia ; Caselli, Paola ; Menten, Karl M., 2024, A&A, accepted, **Massive clumps in W43-main: Structure formation in an extensively shocked molecular cloud**
52. Liu, Xunchuan ; Liu, Tie ; Shen, Zhiqiang ; Qin, Sheng-Li ; Luo, Qiuyi ; **Gong, Yan** ; Cheng, Yu ; Henkel, Christian ; Gu, Qilao ; Zhu, Fengyao ; Zhang, Tianwei ; Zhao, Rongbing ; Wu, Yajun ; Li, Bin ; Li, Juan ; Zhao, Zhang ; Wang, Jinqing ; Zhong, Weiye ; Liu, Qinghui ; Xia, Bo ; Fu, Li ; Yan, Zhen ; Zhang, Chao ; Wang, Lingling ; Ye, Qian ; Yang, Aiyuan ; Xu, Fengwei ; Zhang, Chao ; Dutta,

Somnath ; Li, Shanghuo ; Liu, Meizhu ; Yang, Dongting ; Li, Chuanshou ; Chen, Li 2023, ApJS, 271, 3, **The first Ka-band (26.1-35 GHz) blind line survey towards Orion KL**

51. Yang, Wenjin ; Wu, Yuanwei ; **Gong, Yan** ; Mauron, Nicolas ; Zhang, Bo ; Menten, Karl M. ; Mai, Xiaofeng ; Liu, Dejian ; Li, Juan ; Li, Jingjing, 2024, ApJ, 961, 190, **Maser Investigation toward Off-Plane Stars (MIOPS): detection of SiO masers in the Galactic thick disk and halo**

50. Yang, A. Y. ; Dzib, S. A. ; Urquhart, J. S. ; Brunthaler, A. ; Medina, S. -N. X. ; Menten, K. M. ; Wyrowski, F. ; Ortiz-León, G. N. ; Cotton, W. D. ; **Gong, Y.** ; Dokara, R. ; Rugel, M. R. ; Beuther, H. ; Pandian, J. D. ; Csengeri, T. ; Veena, V. S. ; Roy, N. ; Nguyen, H. ; Winkel, B. ; Ott, J. ; Carrasco-Gonzalez, C. ; Khan, S. ; Cheema, A., 2023, A&A, 680, A92, **A global view on star formation: The GLOSTAR Galactic plane survey. IX. Radio Source Catalog III:  $2^\circ < l < 28^\circ$ ,  $36^\circ < l < 40^\circ$ ,  $56^\circ < l < 60^\circ$  and  $|b| < 1^\circ$ , VLA B-configuration**

49. **Gong, Y.** ; Henkel, C. ; Menten, K. M. ; R. Chen, C. -H. ; Zhang, Z. Y. ; Yan, Y. T. ; Weiss, A. ; Langer, N. ; Wang, J. Z. ; Mao, R. Q. ; Tang, X. D. ; Yang, W. ; Ao, Y. P. ; Wang, M., 2023, A&A, 679, L6, **Sulfur Isotope Ratios in the Large Magellanic Cloud**

48. **Gong, Y.** ; Du, F. J. ; Henkel, C. ; Jacob, A. M. ; Belloche, A. ; Wang, J. Z. ; Menten, K. M. ; Yang, W. ; Quan, D. H. ; Bop, C. T. ; Ortiz-León, G. N. ; Tang, X. D. ; Rugel, M. R. ; Liu, S., 2023, A&A, 679, A39, **Protonated hydrogen cyanide as a tracer of pristine molecular gas**

47. **Gong, Y.** ; Ortiz-León, G. N. ; Rugel, M. R. ; Menten, K. M. ; Brunthaler, A. ; Wyrowski, F. ; Henkel, C. ; Beuther, H. ; Dzib, S. A. ; Urquhart, J. S. ; Yang, A. Y. ; Pandian, J. D. ; Dokara, R. ; Veena, V. S. ; Nguyen, H. ; Medina, S. -N. X. ; Cotton, W. D. ; Reich, W. ; Winkel, B. ; MÄijller, P. ; Skretas, I. ; Csengeri, T. ; Khan, S. ; Cheema, A., 2023, A&A, 678, A130, **A global view on star formation: The GLOSTAR Galactic plane survey VIII. Formaldehyde absorption in Cygnus X**

46. Zhou, J. W. ; Wyrowski, F. ; Neupane, S. ; Urquhart, J. S. ; Evans, N. J., II ; Vázquez-Semadeni, E. ; Menten, K. M. ; **Gong, Y.** ; Liu, T.; 2023, A&A, 676, A69 **High-resolution APEX/LAsMA  $^{12}\text{CO}$  and  $^{13}\text{CO}$  (3-2) observation of the G333 giant molecular cloud complex : I. Evidence for gravitational acceleration in hub-filament systems**

45. Yang, W. ; **Gong, Y.**; Menten, K. M. ; Urquhart, J. S. ; Henkel, C. ; Wyrowski, F. ; Csengeri, T. ; Ellingsen, S. P. ; Bemis, A. R. ; Jang, J.; 2023, A&A, 675, A112 **ATLASGAL: 3-mm class I methanol masers in high-mass star formation regions**

44. Szabó, Zs. M.; **Gong, Y.**; Yang, W.; Menten, K. M.; Bayandina, O. S.; Cyganowski, C. J.; Kóspál, Á.; Ábrahám, P.; Belloche, A.; Wyrowski., F.; 2023, A&A, 674, A202 **The Effelsberg survey of FU Orionis and EX Lupi objects II.  $\text{H}_2\text{O}$  maser observations**

43. Gisela N. Ortiz-León; Sergio A. Dzib; Laurent Loinard; **Yan Gong**; Thushara Pillai; Adele Plunkett; 2023, A&A, 673, L1, **The distance to the Serpens South Cluster from  $\text{H}_2\text{O}$  masers**

42. Szabó, Zs. M.; **Gong, Y.**; Menten, K. M.; Yang, W.; Cyganowski, C. J.; Kóspál, Á.; Ábrahám, P.; Belloche, A.; Wyrowski., F.; 2023, A&A, 672, A158 **The Effelsberg survey of FU Orionis and EX Lupi objects I. Host environments of FUors/EXors traced by  $\text{NH}_3$**

41. Yan, Y. T. ; Henkel, C. ; Kobayashi, C. ; Menten, K. M. ; **Gong, Y.** ; Zhang, J. S. ; Yu, H. Z. ; Yang, K. ; Xie, J. J. ; Wang, Y. X.; 2022, A&A, 670, A98, **Direct measurements of carbon and sulfur isotope ratios in the Milky Way**

40. Dokara, R. ; **Gong, Y.**; Reich, W. ; Rugel, M. ; Brunthaler, A. ; Menten, K. ; Cotton, W. ; Dzib, S. ; Khan, S. ; Medina, S. ; Nguyen, H. ; Ortiz-León, G. ; Urquhart, J. ; Wyrowski, F. ; Yang, A. ; Anderson, L. D. ; Beuther, H. ; Csengeri, T. ; MÄijller, P. ; Ott, J. ; Pandian, J. D. ; Roy, N.; 2022, A&A, 671, A145, **A global view on star formation: The GLOSTAR Galactic plane survey. VII. Supernova remnants in the Galactic longitude range  $28^\circ < l < 36^\circ$**
39. Dzib, S. A. ; Yang, A. Y. ; Urquhart, J. S. ; Medina, S. -N. X. ; Brunthaler, A. ; Menten, K. M. ; Wyrowski, F. ; Cotton, W. D. ; Dokara, R. ; Ortiz-León, G. N. ; Rugel, M. R. ; Nguyen, H. ; **Gong, Y.**; Chakraborty, A. ; Beuther, H. ; Billington, S. J. ; Carrasco-Gonzalez, C. ; Csengeri, T. ; Hofner, P. ; Ott, J. ; Pandian, J. D. ; Roy, N. ; Yanza, V.; 2022, A&A, 670, A9, **A global view on star formation: The GLOSTAR Galactic plane survey. VI. Radio Source Catalog II:  $28^\circ < l < 36^\circ$  and  $|b| < 1^\circ$ , VLA B-configuration**
38. Yan, Y. T. ; Henkel, C. ; Menten, K. M. ; **Gong, Y.**; Nguyen, H. ; Ott, J. ; Ginsburg, A. ; Wilson, T. L. ; Brunthaler, A. ; Belloche, A. ; Zhang, J. S. ; Budaiev, N. ; Jeff, D.; 2022, A&A, 666, L15, **Discovery of non-metastable ammonia masers in Sagittarius B2**
37. Nguyen, H. ; Rugel, M. R. ; Murugesan, C. ; Menten, K. M. ; Brunthaler, A. ; Urquhart, J. S. ; Dokara, R. ; Dzib, S. A. ; **Gong, Y.**; Khan, S. ; Medina, S-N. X. ; Ortiz-León, G. N. ; Reich, W. ; Wyrowski, F. ; Yang, A. Y. ; Beuther, H. ; Cotton, W. D. ; Pandian, J. D.; 2022, A&A, 666, A59, **A Global View on Star Formation: The GLOSTAR Galactic Plane Survey V. 6.7 GHz Methanol Maser Catalogue**
36. Ladeyschikov, Dmitry A.; **Gong, Yan**; Sobolev, Andrey M.; Menten, Karl M.; Urquhart, James S.; Breen, Shari L.; Shakhvorostova, Nadezhda N.; Bayandina, Olga S.; Tsivilev, Alexander P.; 2022, ApJS, 261, 14, **Water Masers as an Early Tracer of Star Formation**
35. Moutzouri, M. ; Mackey, J. ; Carrasco González, C. ; **Gong, Y.** ; Brose, R. ; Zargaryan, D. ; Toalá, J. A. ; Menten, K. M. ; Gvaramadze, V. V. ; Rugel, M. R.; 2022, A&A, 663, A80, **And then they were two: detection of non-thermal radio emission from the bow shocks of two runaway stars**
34. Jeste, M.; **Gong, Y.**; Wong, K. T.; Menten, K. M.; Kamiński, T.; Wyrowski, F.; 2022, A&A, 666, A69, **Vibrationally excited HCN transitions in circumstellar envelopes of carbon-rich AGB stars**
33. **Gong, Y.**; Liu, S.; Wang, J. Z.; Zhu, W. S.; Li, G. X.; Yang, W. J.; Sun, J. X.; 2022, A&A, 663, A82, **Widespread subsonic turbulence in Ophiuchus North 1**
32. Yang, W. J. ; Menten, K. M. ; Yang, A. Y.; Wyrowski, F. ; **Gong, Y.** ; Ellingsen, S. P. ; Henkel, C. ; Chen, X. ; Xu, Y.; 2022, A&A, 658, A192, **Redshifted methanol absorption tracing infall motions of high-mass star formation regions**
31. Yan, Y. T. ; Henkel, C. ; Menten, K. M. ; **Gong, Y.** ; Ott, J. ; Wilson, T. L. ; Wootten, A. ; Brunthaler, A. ; Zhang, J. S. ; Chen, J. L. ; Yang, K.; 2022, A&A, 659, A5, **Discovery of ammonia (9,6) masers in two high-mass star-forming regions**
30. Scicluna, P. + 90 authors including (**Gong, Y.**); 2022, MNRAS, 512, 1091, **The Nearby Evolved Stars Survey II: Constructing a volume-limited sample and first results from the James Clerk Maxwell Telescope**
29. Skalidis, R.; Tassis, K. ; Panopoulou, G. V. ; Pineda, J. L. ; **Gong, Y.** ; Mandarakas, N. ; Blinov, D. ; Kiehlmann, S. ; Kyriiotakis, J. A.; 2022, A&A, accepted, **HI-H<sub>2</sub> transition: exploring the role of the magnetic field**

28. Tang, X. D. ; Henkel, C. ; Menten, K. M. ; Gong, Y. ; Chen, C. -H. R. ; Li, D. L. ; Lee, M. -Y. ; Mangum, J. G. ; Ao, Y. P. ; Mühle, S. ; Aalto, S. ; García-Burillo, S. ; Martín, S. ; Viti, S. ; Muller, S. ; Costagliola, F. ; Asiri, H. ; Levshakov, S. A. ; Spaans, M. ; Ott, J. Impellizzeri, C. M. V. ; Fukui, Y. ; He, Y. X. ; Esimbek, J. ; Zhou, J. J. ; Zheng, X. W. ; Zhao, X. ; Li, J. S.; 2021, A&A, 665, A12, **Kinetic temperature of massive star-forming molecular clumps measured with formaldehyde IV. The ALMA view of N<sub>113</sub> and N<sub>159W</sub> in the LMC**
27. Brunthaler, A.; Menten, K. M.; Dzib, S. A.; Cotton, W. D.; Wyrowski, F.; Dokara, R.; Gong, Y.; Medina, S-N. X.; MÄijller, P.; Nguyen, H.; Ortiz-León, G. N.; Reich, W.; Rugel, M. R.; Urquhart, J. S.; Winkel, B.; Yang, A. Y.; Beuther, H.; Billington, S.; Carrasco-Gonzales, C.; Csengeri, T. Murugeshan, C.; Pandian, J. D.; Roy, N.; 2021, A&A, 651, A85, **A global view on star formation: The GLOSTAR Galactic Plane Survey. I. Overview and first results for the Galactic longitude range  $28^\circ < l < 36^\circ$**  MPIFR/NRAO press release
26. Ortiz-León, Gisela N.; Plunkett, Adele; Loinard, Laurent; Dzib, Sergio A.; Rodríguez-Garza, Carolina B.; Pillai, Thushara; Gong, Yan; Brunthaler, Andreas; 2021, AJ, 162, 68, **Discovery of 22 GHz Water Masers in the Serpens South Region**
25. Ortiz-León, Gisela N.; Menten, Karl M.; Brunthaler, Andreas; Csengeri, Timea; Urquhart, James S.; Wyrowski, Friedrich; Gong, Yan; Rugel, Michael R.; Dzib, Sergio A.; Yang, Aiyuan; Nguyen, Hans; Cotton, William D.; Medina, Sac Nicte X.; Dokara, Rohit; Koenig, Carsten; Beuther, Henrik; Pandian, Jagadheep D.; Reich, Wolfgang; Roy, Nirupam; 2021, A&A, 651, A87, **A Global View on Star Formation: The GLOSTAR Galactic Plane Survey III. 6.7 GHz Methanol maser survey in Cygnus X** MPIFR/NRAO press release
24. Nguyen, H.; Rugel, M. R.; Menten, K. M.; Brunthaler, A.; Dzib, S. A.; Yang, A. Y.; Kauffmann, J.; Pillai, T.; Nandakumar, G.; Schultheis, M.; Urquhart, J. S.; Dokara, R.; Gong, Y.; Medina, S-N. X.; Ortiz-León, G. N.; Reich, W.; Wyrowski, F.; Beuther, H.; Cotton, W. D.; Csengeri, T. Pandian, J. D.; Roy, N.; 2021, A&A, 651, A88, **A global view on star formation: The GLOSTAR Galactic plane survey IV. Radio continuum detections of young stellar objects in the Galactic Centre region** MPIFR/NRAO press release
23. Dokara, Rohit; Brunthaler, A.; Menten, K. M.; Dzib, S. A.; Reich, W.; Cotton, W. D.; Anderson, L. D.; Chen, C. -H. R.; Gong, Y.; Medina, S. -N. X.; Ortiz-León, G. N.; Rugel, M.; Urquhart, J. S.; Wyrowski, F.; Yang, A. Y.; Beuther, H.; Billington, S. J.; Csengeri, T.; Carrasco-González, C.; Roy, N.; 2021, A&A, 651, A86, **A global view on star formation: The GLOSTAR Galactic plane survey. II. Supernova Remnants in the first quadrant of the Milky Way** MPIFR/NRAO press release
22. Li, Fei; Wang, Junzhi; Gao, Feng; Liu, Shu; Zhang, Zhi-Yu; Li, Shanghuo; Gong, Yan; Li, Juan; Shi, Yong; 2021, MNRAS, 503, 4508, **Dense gas in local galaxies revealed by multiple tracers**
21. Jacob, A. M.; Menten, K. M.; Gong, Y.; Bergman, P.; Tiwari, M.; Bruenken, S.; Olofsson, A.O.H.; 2021, A&A, 647, A42 **Hunting for the elusive methylene radical**, Highlight
20. Gong, Y.; Belloche, A.; Du, F. J.; Menten, K. M.; Henkel, C.; Li, G. X.; Wyrowski, F.; Mao, R. Q.; 2021, A&A, 646, A170, **Physical and chemical structure of the Serpens filament: fast formation and gravity-driven accretion**
19. Li, Dalei; Tang, Xindi; Henkel, Christian; Menten, Karl M.; Wyrowski, Friedrich; Gong, Yan; Wu, Gang; He, Yuxin; Esimbek, Jarken; Zhou, Jianjun, 2020, ApJ, 901, 62, **Evidence for dense gas heated by the explosion in Orion KL**

18. Chen, Xi; Sobolev, Andrej M.; Ren, Zhi-Yuan; Parfenov, Sergey; Breen, Shari L.; Ellingsen, Simon P.; Shen, Zhi-Qiang; Li, Bin; MacLeod, Gordon C.; Baan, Willem; Brogan, Crystal; Hirota, Tomoya; Hunter, Todd R.; Linz, Hendrik; Menten, Karl; Sugiyama, Koichiro; Stecklum, Bringfried; Gong, Yan; Zheng, Xingwu; 2020, *NatAs*, 4, 1170, **New maser species tracing spiral-arm accretion flows in a high-mass young stellar object**
17. Sanz-Novo, M.; Belloche, A.; Alonso, J. L.; Kolesniková, L.; Garrod, R. T.; Mata, S.; Müller, H. S. P.; Menten, K. M., Gong, Y.; 2020, *A&A*, 639, A135, **Interstellar glycolamide: A comprehensive rotational study and an astronomical search in Sgr B2(N)**
16. Su, Y.; Yang, J.; Yan, Q. Z., Gong, Y.; Chen, Z. W.; Zhang, S. B.; Sun, Y.; Zhang, M. M.; Chen, X. P.; Zhou, X.; Wang, M.; Wang, H. C.; Xu, Y.; Jiang, Z. B., 2020, *ApJ*, 893, 91, **Local molecular gas toward the Aquila Rift region**
15. Humire, P.; Henkel, C.; Gong, Y.; Leurini, S.; Mauersberger, R.; Levshakov, S. A.; Winkel, B.; Tarchi, A.; Castangia, P.; Malawi, A.; Asiri, H.; Ellingsen, S. P.; McCarthy, T. P.; Chen, X.; Tang, X., 2020, *A&A*, 633, A106, **36 GHz methanol lines from nearby galaxies: maser or quasi-thermal emission?**
14. Gong, Y.; Tang, X.D.; Henkel, C.; Menten, K.M.; Mao, R.Q.; Wang, Y.; Lee, M.-Y.; Zhu, W.S.; Lin, Y.; Zhang, S.B.; Chen, X.P.; Yang, W.J., 2019, *A&A*, 632, A115, **Search for further evidence for cloud-cloud collisions in L1188**
13. Tang, X. D.; Henkel, C.; Menten, K. M.; Gong, Y.; Martin, S.; Muhle, S.; Aalto, S.; Muller, S.; Garcia-Burillo, S.; Levshakov, S.; Aladro, R.; Spaans, M.; Viti, S.; Asiri, H. M.; Ao, Y. P.; Zhang, J. S.; Zheng, X. W.; Esimbek, J.; Zhou, J. J., *A&A*, 629, A6, **ALMA view of the  $^{12}\text{C}/^{13}\text{C}$  isotopic ratio in starburst galaxies**
12. Medina, S. N. X.; Urquhart, J. S.; Dzib, S. A.; Brunthaler, A.; Cotton, B.; Menten, K. M.; Wyrowski, F.; Beuther, H.; Billington, S. J.; Carrasco-Gonzalez, C.; Csengeri, T.; Gong, Y.; Hofner, P.; Nguyen, H.; Ortiz-León, G. N.; Ott, J.; Pandian, J. D.; Roy, N.; Sarkar, E.; Wang, Y. Winkel, B., *A&A*, 627, A175, **GLOSTAR – Radio Source Catalog I:  $28^\circ < l < 36^\circ$  and  $|b| < 1^\circ$**
11. Su, Yang; Yang, Ji; Zhang, Shaobo; Gong, Yan; Wang, Hongchi; Zhou, Xin; Wang, Min; Chen, Zhiwei; Sun, Yan; Chen, Xuepeng; Xu, Ye; Jiang, Zhibo, 2019, *ApJS*, 240, 9, **The Milky Way Imaging Scroll Painting (MWISP): Project Details and Initial Results from the Galactic Longitudes of  $25^\circ 8\text{--}49^\circ 7$**
10. Gong, Y.; Li, G. X.; Mao, R. Q.; Henkel, C.; Menten, K. M.; Fang, M.; Wang, M.; Sun, J. X., 2018, *A&A*, 620, A62, **The Serpens filament at the onset of slightly supercritical collapse**
9. Henkel, C.; Mühle S.; Bendo, G.; Józsa, G. I. G.; Gong, Y.; Viti, S.; Aalto, S.; Combes, F.; García-Burillo, S; Hunt, L. K.; Mangum, J.; Martín, S.; Muller, S.; Ott, J.; van der Werf, P.; Malawi, A. A.; Ismail, H.; Alkhujah, E.; Asiri, H. M.; Aladro, R.; Alves, F.; Ao, Y.; Baan, W. A.; Costagliola, F.; Fuller, G.; Greene, J.; Impellizzeri, C. M. V.; Kamali, F.; Klessen, R. S.; Mauersberger, R.; Tang, X. D.; Tristram, K.; Wang, M.; Zhang, J. S. 2018, *A&A*, 615, A155, **Molecular line emission in NGC 4945, imaged with ALMA**
8. Tang, X. D.; Henkel, C.; Menten, K. M.; Wyrowski, F.; Brinkmann, N.; Zheng, X. W.; Gong, Y.; Lin, Y. X.; Esimbek, J.; Zhou, J. J.; Yuan, Y.; Li, D. L.; He, Y. X., 2018, *A&A*, 609, A16, **Kinetic temperature of massive star-forming molecular clumps measured with formaldehyde. III. The Orion molecular cloud 1**
7. Su, Yang; Zhou, Xin; Yang, Ji; Chen, Yang; Chen, Xuepeng; Gong, Yan; Zhang, Shaobo, 2017, *ApJ*,

845, 48, "Is HESS J<sub>1912+101</sub> associated with an old Supernova Remnant?"

6. **Gong, Y.**; Henkel, C.; J. Ott; K. M. Menten; M. R. Morris; D. Keller; M. J. Claussen; M. Grasshoff; R. Q. Mao, 2017, ApJ, 843, 54, "*SiS in the circumstellar envelope of IRC +10216: maser and quasi-thermal emission*"

5. **Gong, Yan**; Fang, Min; Mao, Ruiqing; Zhang, Shaobo; Wang, Yuan; Su, Yang; Chen, Xuepeng; Yang, Ji; Wang, Hongchi; Lu, Dengrong, 2017, ApJL, 835, L14, "*L<sub>1188</sub>: a promising candidate of cloud-cloud collision triggering the formation of the low- and intermediate-mass stars*"

4. **Gong, Y.**; Mao, R. Q.; Fang, M.; Zhang, S. B.; Su, Y.; Yang, J.; Jiang, Z. B.; Xu, Y.; Wang, M.; Wang, Y.; Lu, D. R.; Sun, J. X., 2016, A&A, 588, A104, "*Molecular clouds and star formation toward the Galactic plane within 216.25° ≤ l ≤ 218.75° and 0.75° ≤ b ≤ 1.25°*"

3. Zhang, C. P.; Li, G. X.; Wyrowski, F.; Wang, J. J.; Yuan, J. H.; Xu, J. L.; **Gong, Y.**; Yeh, Cosmos C.; Menten, K. M., 2016, A&A, 585, A117, "*N<sub>131</sub>: A dust bubble born from the disruption of a gas filament*"

2. **Gong, Y.**; Henkel, C.; Thorwirth, S.; Spezzano, S.; Menten, K. M.; Walmsley, C. M.; Wyrowski, F.; Mao, R. Q.; Klein, B, 2015, A&A, 581, A48, "*A 1.3 cm line survey toward Orion KL*"

1. **Gong, Y.**; Henkel, C.; Spezzano, S.; Thorwirth, S.; Menten, K. M.; Wyrowski, F.; Mao, R. Q.; Klein, B, 2015, A&A, 574, A56, "*A 1.3 cm line survey toward IRC +10216*"

## PROCEEDINGS

2. **Gong, Y.**, Mao, R. Q.; Henkel, C.; Urquhart, J.; Wang, Y.; Zhang, Z. Y.; Wyrowski, F., 2013b, in Protostars and Planets VI Posters, 11, "*Triggered Star Formation at the End of the Galactic Bar?*"
1. **Gong, Y.**, Mao, R., Fang, M., Sun, J., & Lu, D. 2013a, in IAU Symposium, Vol. 292, IAU Symposium, ed. T. Wong & J. Ott, 43–43, "*Molecular gas around infrared dust bubbles*"

## HONORS AND AWARDS

- 2011-2012 Merit Student, University of Chinese Academy of Sciences
- 2012-2015 MPG-CAS Joint Doctoral Promotion Program
- 2016 The Zhu-Li Yuehua outstanding doctoral award of Chinese Academy of Sciences
- 2017 Excellent Doctoral Dissertation of Chinese Academy of Sciences

## REFEREEING DUTIES

- PASJ, MNRAS, RAA, ALMA, FAST

## PRESENTATIONS

- 08/2023: talk, Shanghai, SHAO  
"Recent progress on the GLOSTAR survey"
- 07/2023: talk, Hangzhou, Zhejiang lab  
"Decoding interstellar and circumstellar environments with molecular tools"
- 07/2023: talk, Wuhu, Anhui Normal University  
"Recent progress on the GLOSTAR survey"
- 07/2023: talk, PMO Youth Forum, Nanjing, PMO  
"Recent progress on the GLOSTAR survey"
- 06/2021: e-poster, EAS2021  
"Physical and chemical structure of the Serpens filament: fast formation and gravity-driven accretion"
- 11/2020: Online talk, Guangzhou University  
"The Serpens filament as a key to the initial conditions of filament evolution"
- 02/2020: talk, APEX2020, Schloss Ringberg  
"The Serpens filament as a key to the initial conditions of filament evolution"
- 06/2019: talk, the CASSACA & Calan star formation joint meeting, CASSACA, Santiago  
" $L_{1188}$ : a tangoing molecule cloud complex"
- 06/2018: talk, Star and Planet Formation Seminar, Garching, ESO  
"The Serpens filament: at the onset of slightly supercritical collapse"
- 11/2016: talk, The Chinese Annual Astronomy / Astrophysics Meeting, Wuhan, China  
"Star formation triggered by a collision of molecular clouds in  $L_{1188}$ "
- 04/2016: talk, JCMT PI Science, Mitaka, Japan

“Studying the thermal state of dense gas with JCMT”

- 08/2015: talk, **Zhangheng academic seminar**, Delingha  
“Molecular clouds and star formation toward the Galactic plane within  $216.25^\circ \leq l \leq 218.75^\circ$  and  $0.75^\circ \leq b \leq 1.25^\circ$ ”
- 08/2015: talk, **Scientific talk at XAO**, Urumqi  
“A 1.3 cm line survey toward Orion KL”
- 08/2014: talk, MPIFR group meeting, Bonn  
“A 1.3 cm line survey toward IRC +10216”
- 07/2013: **Protostars & Planets VI**, Heidelberg, (poster)  
“Triggered Star Formation at the End of the Galactic Bar?”
- 08/2012: **The 28th IAU**, Beijing, (poster)  
“Molecular gas around infrared dust bubbles”

## SKILLS OF NOTE

- Advanced: GILDAS, IDL, PYTHON
- Experienced: CASA, DS9, LATEX, KARMA, MONTAGE, HTML, vi, Emacs, NOD3, Markdown
- Operating systems: Linux, Mac OS, Windows
- Observing experience: IRAM-30 m (>1000 hours, on site+remote); PMO-13.7 m (>500 hours, on site/service); Effelsberg-100 m (>2000 hours, on site+remote); APEX (>300 hours, four weeks, on site+remote); Onsala-20 m (a week, onsite); SMT-10 m (a week, remote), ALMA (>200 hours), VLA (>100 hours), SMA (>50 hours)
- Speaking languages: Chinese (mother tongue), English (fluent), and German (A1)

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