Yan Gong

Max-Planck Institut für Radioastronomie
Auf dem Hügel 69
Bonn 53121, Germany
Homepage: http://gongyan2444.github.io/

Mobile: (0049) 157 7154 4476
Fax : (0049) 228 525 435
Skype : gongyan2444
Email : ygong@mpifr-bonn.mpg.de
gongyan2444@gmail.com
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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
09/2021–12/2023	Scientific Staff, Max-Planck Institut für Radioastronomie
01/2024–	guest scientist, Max-Planck Institut für Radioastronomie
01/2024–	guest scientist, Purple Mountain Observatory

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 2024, 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. ; MÃijller, 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}CO and ^{13}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. H_2O 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 H_2O 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 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. ; MÃijller, 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 $28° < l < 36°$

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: $28° < l < 36°$ and $|b| < 1°$, 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. ; Murugeshan, 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. ; Kypriotakis, J. A.; 2022, A&A, accepted, HI-H_2 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 N113 and N159W 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.; MÃijller, 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

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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 $^{12}C/^{13}C$ 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° < l <36° and |b| < 1°*

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°.8–49°.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.; Alkhuja, 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 J1912+101 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, *"L1188: 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, *"N131: 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

- 04/2024: invited talk (Martes talk #42), Nanjing, Nanjing University
"Decoding interstellar and circumstellar environments with molecular tools"

- 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
"L1188: 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, Wuhu, China

"Star formation triggered by a collision of molecular clouds in L1188"

• 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° ≤ l ≤218.75° and 0.75° ≤ b ≤1.25°"

• 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; PI: 262 hours); PMO-13.7 m (>800 hours, on site/service); Effelsberg-100 m (>2000 hours, on site+remote; PI: >100 hours); APEX (>300 hours, four weeks, on site+remote; PI: 398 hours); Onsala-20 m (a week, onsite); SMT-10 m (a week, remote), ALMA (17.2 hours), ACA (∼240 hours), VLA (>100 hours; PI: 15 hours), SMA (>50 hours; PI: 27 hours)

• Speaking languages: Chinese (mother tongue), English (fluent), and German (A1)

Professional References

Prof. Dr. Karl M. Menten
Director of Dept. Millimeter and Submillimeter Astronomy
Max-Planck Institut für Radioastronomie
Auf dem Hügel 69
D-53121 Bonn
Phone: (0049) 228 525 471
kmenten@mpifr-bonn.mpg.de

Dr. Christian Henkel
Staff of Dept. Millimeter and Submillimeter Astronomy
Max-Planck Institut für Radioastronomie
Auf dem Hügel 69
D-53121 Bonn
Phone: (0049) 228 525 305
chenkel@mpifr-bonn.mpg.de

Prof. Dr. Rui-qing Mao
Deputy director of Purple Mountain Observatory
Purple Mountain Observatory, CAS
No.10 Yuanhua Road, Qixia District
Nanjing 210023, China
Phone: (0086) 25 8333 2018
rqmao@pmo.ac.cn

Dr. Wolfgang Reich
Former station manager of the Effelsberg 100m telescope
Research Department Fundamental Physics in Radio Astronomy
Max-Planck Institut für Radioastronomie
Auf dem Hügel 69
D-53121 Bonn
Phone: (0049) 228-525-357
wreich@mpifr-bonn.mpg.de