

YAN GONG

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I am an astronomer working at Purple Mountain Observatory and Max-Planck-Institut für Radioastronomie.

Updated on September 14, 2025

RESEARCH INTERESTS

- Molecular clouds and star formation
- Astrochemistry
- Circumstellar envelopes of late-type stars
- Astronomical masers

EDUCATION

- **Purple Mountain Observatory** 2009.09–2016.07
Ph.D in Astrophysics
Thesis: *A search for triggered star formation and a 1.3 cm spectral line survey*
Advisors: Prof. Dr. Rui-qing Mao & Dr. Christian Henkel
- **Central China Normal University** 2005.09–2009.07
B.Sc. in physics

EMPLOYMENT

- **Purple Mountain Observatory** 2024.12–present
Research Associate
- **Purple Mountain Observatory** 2024.01–2024.12
Guest scientist
- **Max-Planck-Institut für Radioastronomie** 2024.01–present
Guest scientist
- **Max-Planck-Institut für Radioastronomie** 2021.09–2023.12
Scientific Staff
- **Max-Planck-Institut für Radioastronomie** 2017.09–2021.09
Postdoc
- **Purple Mountain Observatory** 2016.06–2017.08
Research assistant

HONOR AND AWARDS

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

REFEREEING DUTIES

PASJ, MNRAS, RAA, ALMA, FAST, JCMT

SKILLS OF NOTE

- | | |
|-----------------------------|---|
| Software/Language | GILDAS, python, IDL, CASA, MIRIAD (basic), html/css (basic), markdown, NOD3, DS9, LATEX, KARMA, MONTAGE, vi, emacs |
| 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 language Chinese (mother tongue), English (fluent), and German (A1)

PROFESSIONAL REFERENCES

Prof. Dr. Rui-qing Mao (Purple Mountain Observatory)
Deputy director of Purple Mountain Observatory
E-mail: rqmao@pmo.ac.cn

Prof. Dr. Arshia M. Jacob (Universität zu Köln)
Head of Galactic Ecosystems group
E-mail: ajacob@ph1.uni-koeln.de

Dr. Christian Henkel (Max-Planck-Institut für Radioastronomie)
Staff of Dept. Millimeter and Submillimeter Astronomy
E-mail: chenkel@mpifr-bonn.mpg.de

Dr. Arnaud Belloche (Max-Planck-Institut für Radioastronomie)
Staff of Dept. Millimeter and Submillimeter Astronomy
E-mail: belloche@mpifr-bonn.mpg.de

Dr. Wolfgang Reich (Max-Planck-Institut für Radioastronomie)
Former station manager of the Effelsberg 100m telescope
E-mail: wreich@mpifr-bonn.mpg.de

PRESENTATIONS

- 2025.08 [[Contributed talk](#)] Special Colloquium, Max Planck Institute for Radio Astronomy, Bonn, Germany, "China's Roadmap for Submillimeter Astronomy"
- 2025.08 [[Contributed talk](#)] [WE-Heraeus Seminar](#) titled, "Charting the Cosmos: From Cosmic Stellar Nurseries to Evolved Stars using High Powered Telescopes", Wasem Kloster Engelthal, Ingelheim, Germany, "Molecules in the Magellanic Clouds"
- 2025.08 [[Contributed talk](#)] [The 2025 Symposium on Molecular Clouds and Star Formation](#), Southwest Jiaotong University, Emeishan, China, "Effelsberg Continuum Results from the GLOSTAR survey"
- 2025.07 [[Invited talk](#)] XAO, Urumqi, China, "Molecules in the Magellanic Clouds"
- 2025.03 [[Contributed talk](#)] Gaochun, Nanjing, China, "[CII] line intensity mapping the epoch of reionization"
- 2024.12 [[Contributed talk](#)] [25th East Asia Submillimeter-wave Receiver Technology Workshop](#), Daejeon, Korea, "Tracing Molecular Clouds from Pristine to Extreme: Insights from HCNH⁺ observations"
- 2024.11 [[Invited talk](#)] [KIAA Colloquium](#), Beijing, China, "Exploring the Cycle of the Interstellar Medium: Insights from the GLOSTAR Survey, Molecular Chemistry, and Maser Studies"
- 2024.10 [[Invited talk](#)] International Symposium on Polar Sciences – The 40th anniversary of CHINARE, Shanghai, China, "Unveiling the Mystery of Stellar Physics with THz HCN Lasers: Resolving Stellar Atmospheres from Dome A"
- 2024.10 [[Contributed talk](#)] The Eleventh Interstellar Physics and Chemistry workshop, Lishui, China, "Tracing Molecular Clouds from Pristine to Extreme: Insights from HCNH⁺ observations"
- 2024.08 [[invited talk](#)] QTT workshop, XAO, Urumqi, China, "Studying ISM with QTT"
- 2024.04 [[invited talk](#)] Martes talk #42, Nanjing University, Nanjing, China, "Decoding interstellar and circumstellar environments with molecular tools"
- 2023.08 [[invited talk](#)], Shanghai Astronomical Observatory, Shanghai, China, "Recent progress on the GLOSTAR survey"
- 2023.07 [[invited talk](#)], Zhejiang lab, Hangzhou, China, "Decoding interstellar and circumstellar environments with molecular tools"
- 2023.07 [[invited talk](#)], Anhui Normal University, Wuhu, China, "Recent progress on the GLOSTAR survey"
- 2023.07 [[invited talk](#)], [PMO Youth Forum](#), Purple Mountain Observatory, Nanjing, China, "Recent progress on the GLOSTAR survey"
- 2021.06 [[e-poster](#)], [EAS2021](#), "Physical and chemical structure of the Serpens filament: fast formation and gravity-driven accretion"

- 2020.11 [invited-talk (on-line)] Guangzhou University, China, "The Serpens filament as a key to the initial conditions of filament evolution"
- 2020.02 [contributed talk] APEX2020, Schloss Ringberg, Germany, "The Serpens filament as a key to the initial conditions of filament evolution"
- 2019.06 [invited talk] the CASSACA & Calan star formation joint meeting, CASSACA, Santiago, Chile, "L1188: a tangoing molecule cloud complex"
- 2018.06 [invited talk] Star and Planet Formation Seminar, ESO, Garching, Germany, "The Serpens filament: at the onset of slightly supercritical collapse"
- 2016.11 [contributed talk] The Chinese Annual Astronomy/Astrophysics Meeting, Wuhan, China, "Star formation triggered by a collision of molecular clouds in L1188"
- 2016.04 [contributed talk] JCMT PI Science, Mitaka, Japan, "Studying the thermal state of dense gas with JCMT"
- 2015.08 [contributed talk] Zhangheng academic seminar, Delingha, China, "Molecular clouds and star formation toward the Galactic plane within $216.25^\circ \leq l \leq 218.75^\circ$ and $0.75^\circ \leq b \leq 1.25^\circ$ "
- 2015.07 [invited talk] Scientific talk at XAO, Urumqi, China, "A 1.3 cm line survey toward Orion KL"
- 2015.07 [contributed talk] MPIFR group meeting, Bonn, Germany, "A 1.3 cm line survey toward IRC +10216"
- 2013.07 [poster] Protostars & Planets VI., Heidelberg, Germany, "Triggered Star Formation at the End of the Galactic Bar?"
- 2012.08 [poster] The 28th IAU, Beijing, China, "Molecular gas around infrared dust bubbles"

REFEREED PUBLICATIONS

A full list via ADS

14 first-author paper, 6 second-author paper, 4 third-author paper

70. Ammonia in the hot core W51-IRS2: Maser line profiles, variability and saturation

Alkhuja, E. ; Henkel, C. ; Yan, Y. T. ; Winkel, B. ; **Gong, Y.** ; Wu, G. ; Wilson, T. L. ; Wootten, A. ; Malawi, A., 2025, A&A, accepted

69. Network of velocity-coherent filaments formed by supersonic turbulence in a very-high-velocity HI cloud [phys.org](#)

Liu, Xunchuan ; Liu, Tie ; Li, Pak-Shing ; Mai, Xiaofeng ; Henkel, Christian ; Goldsmith, Paul F. ; Qin, Sheng-Li ; **Gong, Yan** ; Lu, Xing ; Xu, Fengwei ; Luo, Qiuyi ; Liu, Hong-Li ; Zhang, Tianwei ; Cheng, Yu ; Di, Yihuan ; Wu, Yuefang ; Gu, Qilao ; Tang, Ningyu ; Yang, Aiyuan ; Shen, Zhiqiang, 2025, Nature Astronomy, accepted

68. Molecular Clouds at the Edge of the Galaxy I. Variation of CO J=2-1/1-0 Line Ratio [phys.org](#)

Luo, C. S. ; Tang, X. D. ; Henkel, C. ; Menten, K. M. ; Sun, Y. ; **Gong, Y.** ; Zheng, X. W. ; Li, D. L. ; He, Y. X. ; Lu, X. ; Ao, Y. P. ; Chen, X. P. ; Liu, T. ; Wang, K. ; Wu, J. W. ; Esimbek, J. ; Zhou, J. J. ; Qiu, J. J. ; Zhao, X. ; Li, J. S. ; Zhao, Q. ; Liu, L. D., 2025, A&A, 698, 54

67. New submillimetre HCN lasers in carbon-rich evolved stars

Yang, W. ; Wong, K. T. ; Wiesemeyer, H. ; Menten, K. M. ; **Gong, Y.** ; Cernicharo, J. ; De Beck, E. ; Klein, B. ; Durán, C. A., 2025, A&A, 696, A60

66. Shock-induced HCNH⁺ abundance enhancement in the heart of the starburst galaxy NGC 253 unveiled by [ALCHEMI](#)

Gong, Y. ; Henkel, C. ; Bop, C. T. ; Mangum, J. G. ; Behrens, E. ; Du, F. J. ; Zhang, S. B. ; Martin, S. ; Menten, K. M. ; Harada, N. ; Bouvier, M. ; Tang, X. D. ; Tanaka, K. ; Viti, S. ; Yan, Y. T. ; Yang, W. ; Mao, R. Q. ; Quan, D. H., 2025, A&A, 696, A31

65. Molecular inventory of a young eruptive star's environment – Case study of the classical FU Orionis star [V1057 Cyg](#)

Szabó, Zs. M. ; Belloche, A. ; Menten, K. M. ; **Gong, Y.** ; Kóspál, Á. ; Ábrahám, P. ; Yang, W. ; Cyganowski, C. J. ; Wyrowski, F., 2025, A&A, 694, A329

64. Inadequate turbulent support in low-metallicity molecular clouds

Lin, Lingrui ; Zhang, Zhi-Yu ; Wang, Junzhi ; Papadopoulos, Padelis P. ; Shi, Yong ; **Gong, Yan** ; Sun, Yan ; Sun, Yichen ; Bisbas, Thomas G. ; Romano, Donatella ; Li, Di ; Liu, Haoyu Baobab ; Qiu, Keping ; Liu, Lijie ; Luo, Gan ; Tsai, Chao-Wei ; Wu, Jingwen ; Feng, Siyi ; Zhang, Bo 2025, NatAs, 9, 406

63. [Dynamic Massive Star Formation: Radio Flux Variability in Regions](#)

Yang, A. Y. ; Thompson, M. A. ; Urquhart, J. S. ; Brunthaler, A. ; Menten, K. M. ; **Gong, Yan** ; Tsai, Chao-Wei ; Patel, A. L. ; Li, D. ; Cotton, W. D. [2025, A&A, 694, A26](#)

62. [Nitrogen Abundance Distribution in the inner Milky Way](#)

Pineda, Jorge L. ; Horiuchi, Shinji ; Anderson, L. D. ; Luisi, Matteo ; Langer, William D. ; Goldsmith, Paul F. ; Kuiper, Thomas B. H. ; Fischer, Christian ; **Gong, Yan**; Brunthaler, Andreas ; Rugel, Michael ; Menten, Karl M. , [2024, ApJ, 932, 89](#)

61. [A global view on star formation: The GLOSTAR Galactic plane survey. XI. Radio source catalog IV: \$2^\circ < l < 28^\circ\$, \$36^\circ < l < 60^\circ\$ and \$|b| < 1^\circ\$](#) [A&A cover page](#)

Medina, S. -N. X. ; Dzib, S. A. ; Urquhart, J. S. ; Yang, A. Y. ; Brunthaler, A. ; Menten, K. M. ; Wyrowski, F. ; Cotton, W. D. ; Cheema, A. ; Dokara, R. ; **Gong, Y.** ; Khan, S. ; Nguyen, H. ; Ortiz-Leon, G. N. ; Rugel, M. R. ; Veena, V. S. ; Beuther, H. ; Csengeri, T. ; Pandian, J. D. ; Roy, N., [2024, A&A, 689, A196](#)

60. [Hyperfine structure of the methanol molecule as traced by Class I methanol masers](#)

Agafonova, I. I. ; Bayandina, O. S. ; **Gong, Y.** ; Henkel, C. ; Kim, Kee-Tae ; Kozlov, M. G. ; Lankhaar, B. ; Levshakov, S. A. ; Menten, K. M. ; Ubachs, W. ; Val'tts, I. E. ; Yang, W., [2024, MNRAS, 533, 1714](#)

59. [A global view on star formation: The GLOSTAR Galactic plane survey X. Galactic HII region catalog using radio recombination lines](#)

Khan, S. ; Rugel, M. R. ; Brunthaler, A. ; Menten, K. M. ; Wyrowski, F. ; Urquhart, J. S. ; **Gong, Y.** ; Yang, A. Y.; Nguyen, H. ; Dokara, R. ; Dzib, S. A. ; Medina, S. -N. X. ; Ortiz-León, G. N. ; Pandian, J. D. ; Beuther, H. ; Veena, V. S. ; Neupane, S. ; Cheema, A. ; Reich, W. ; Roy, N., [2024, A&A, 689, A81](#)

58. [Spatial Distribution of C₄H and c-C₂H₂ in Cold Molecular Cores](#)

Liu, Yijia; Wang, Junzhi; Liu, Shu; Tang, Ningyu; **Gong, Yan**; Li, Yuqiang; Li, Juan; Luo, Rui; Xu, Yani, [2024, ApJ, 969, 33](#)

57. [Kinetic temperature of massive star-forming molecular clumps measured with formaldehyde V. The massive filament DR21](#)

Zhao, X. ; Tang, X. D. ; Henkel, C. ; **Gong, Y.** ; Lin, Y. ; Li, D. L. ; He, Y. X. ; Ao, Y. P. ; Lu, X. ; Liu, T. ; Sun, Y. ; Wang, K. ; Chen, X. P. ; Esimbek, J. ; Zhou, J. J. ; Wu, J. W. ; Qiu, J. J. ; Zheng, X. W. ; Li, J. S. ; Luo, C. S. ; Zhao, Q. [2024, A&A, 687, A207](#)

56. [First detection of CF⁺ in the Large Magellanic Cloud](#)

Gong, Yan, Menten Karl M., Jacob Arshia M., Christian Henkel, Chen C.-H. Rosie, [2024, A&A, 687, A29](#)

55. [Discovery of widespread non-metastable ammonia masers in the Milky Way](#)

Yan, Y. T. ; Henkel, C. ; Menten, K. M. ; Wilson, T. L. ; Wootten, A. ; **Gong, Y.** ; Wyrowski, F. ; Yang, W. ; Brunthaler, A. ; Kraus, A. ; Winkel, B., [2024, A&A, 686, A205](#)

54. [Magnetically Aligned Striations in the L914 Filamentary Cloud](#)

Sun, Li ; Chen, Xuepeng ; Fang, Min ; Zhang, Shaobo ; **Gong, Yan** ; Feng, Jiancheng ; Li, Xuefu ; Yan, Qing-Zeng ; Yang, Ji, [2024, AJ, 167, 176](#)

53. [Massive clumps in W43-main: Structure formation in an extensively shocked molecular cloud](#)

Lin, Yuxin ; Wyrowski, Friedrich ; Liu, Hanyu 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, 685, 101](#)

52. [The first Ka-band \(26.1-35 GHz\) blind line survey towards Orion KL](#)

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](#)

51. [Maser Investigation toward Off-Plane Stars \(MIOPS\): detection of SiO masers in the Galactic thick disk and halo](#)

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](#)

50. [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](#)
 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**
49. [Sulfur Isotope Ratios in the Large Magellanic Cloud](#)
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**
48. [Protonated hydrogen cyanide as a tracer of pristine molecular gas](#)
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**
47. [A global view on star formation: The GLOSTAR Galactic plane survey VIII. Formaldehyde absorption in Cygnus X](#)
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. ; Müller, P. ; Skretas, I. ; Csengeri, T. ; Khan, S. ; Cheema, A., **2023, A&A, 678, A130**
46. [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](#)
 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**
45. [ATLASGAL: 3-mm class I methanol masers in high-mass star formation regions](#)
 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**
44. [The Effelsberg survey of FU Orionis and EX Lupi objects II. \$\text{H}_2\text{O}\$ maser observations](#)
 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**
43. [The distance to the Serpens South Cluster from \$\text{H}_2\text{O}\$ masers](#)
 Ortiz-León, Gisela N.; Dzib, Sergio A.; Loinard, Laurent; **Gong Yan**; Pillai Thushara; Plunkett Adele; **2023, A&A, 673, L1**
42. [The Effelsberg survey of FU Orionis and EX Lupi objects I. Host environments of FUors/EXors traced by \$\text{NH}_3\$](#)
 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**
41. [Direct measurements of carbon and sulfur isotope ratios in the Milky Way](#)
 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**
40. [A global view on star formation: The GLOSTAR Galactic plane survey. VII. Supernova remnants in the Galactic longitude range \$28^\circ < l < 36^\circ\$](#)
 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. ; Müller, P. ; Ott, J. ; Pandian, J. D. ; Roy, N.; **2022, A&A, 671, A145**
39. [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](#)
 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**

38. [Discovery of non-metastable ammonia masers in Sagittarius B2](#)

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](#)

37. [A Global View on Star Formation: The GLOSTAR Galactic Plane Survey V. 6.7 GHz Methanol Maser Catalogue](#)

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](#)

36. [Water Masers as an Early Tracer of Star Formation](#)

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](#)

35. [And then they were two: detection of non-thermal radio emission from the bow shocks of two runaway stars](#)

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](#)

34. [Vibrationally excited HCN transitions in circumstellar envelopes of carbon-rich AGB stars](#)

Jeste, M.; **Gong, Y.**; Wong, K. T.; Menten, K. M.; Kamiński, T.; Wyrowski, F.; [2022, A&A, 666, A69](#)

33. [Widespread subsonic turbulence in Ophiuchus North 1](#)

Gong, Y.; Liu, S.; Wang, J. Z.; Zhu, W. S.; Li, G. X.; Yang, W. J.; Sun, J. X.; [2022, A&A, 663, A82](#)

32. [Redshifted methanol absorption tracing infall motions of high-mass star formation regions](#)

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](#)

31. [Discovery of ammonia \(9,6\) masers in two high-mass star-forming regions](#)

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](#)

30. [The Nearby Evolved Stars Survey II: Constructing a volume-limited sample and first results from the James Clerk Maxwell Telescope](#)

Scicluna, P. + 90 authors including (**Gong, Y.**); [2022, MNRAS, 512, 1091](#)

29. [HI-H₂ transition: Exploring the role of the magnetic field. A case study toward the Ursa Major cirrus](#)

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