

YAN GONG

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I am an astronomer working at Purple Mountain Observatory.

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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
Host: Prof. Jing Li
- **Max-Planck-Institut für Radioastronomie** **2024.01–2025.10**
Guest scientist
Host: Prof. Karl M. Menten
- **Max-Planck-Institut für Radioastronomie** **2021.09–2023.12**
Scientific Staff
Host: Prof. Karl M. Menten
- **Max-Planck-Institut für Radioastronomie** **2017.09–2021.09**
Postdoc
Host: Prof. Karl M. Menten
- **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

REFEREING 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. Jing Li (Purple Mountain Observatory)
Head of Millimeter and Submillimeter Astronomy group
E-mail: lijing@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

- 2025.11 [[Invited talk](#)] [The 1st National Conference on Astrochemistry](#), Shenzheng, China, "Molecules in the Magellanic Clouds"
- 2025.11 [[Contributed talk](#)] [East Asia Submillimeter-wave Receiver Workshop](#), ASIAA, Taipei, "First Submillimeter light at Dome A and its prospects" (online talk)
- 2025.09 [[Contributed talk](#)] Xiangshan Forum, Symposium on Submm-wave/THz Astronomy Frontier Sciences and key Technologies, Delingha, China, "Astrochemistry and the origin of life"
- 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

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

79. [Exploring the interplay between molecular and ionized gas in HII regions](#)

Khan, S. ; Jacob, A. M. ; Rugel, M. R. ; Urquhart, J. S. ; Neupane, S. ; Wyrowski, F. ; Brunthaler, A. ; Pandian, J. D. ; **Gong, Y.** ; Barlach Christensen, I. ; Menten, K. M., 2026, [A&A](#), [accepted](#)

78. [A global view on star formation: The GLOSTAR Galactic plane survey XII. Effelsberg's continuum view and data release](#)

Gong, Y. ; Reich, W. ; Rugel, M. R. ; Menten, K. M. ; Brunthaler, A. ; Wyrowski, F. ; Müller, P. ; Dzib, S. A. ; Urquhart, J. S. ; Yang, A. Y. ; Dokara, R. ; Ortiz-León, G. N. ; Winkel, B. ; Kraus, A. ; Sathyanarayanan, S. P. ; Kim, W.-J. ; Beuther, H. ; Pandian, J. D. ; Cheema, A. ; Khan, S. ; Veena, V. S. ; Roy, N. ; Carrasco-Gonzalez, C. ; Cotton, W. ; Csengeri, T. ; Medina, S.-N. X. ; Nguyen, H., 2025, [A&A](#), [accepted](#)

77. [The Milky Way Imaging Scroll Painting Survey: Data Release 1](#)

Yang, Ji ; Yan, Qing-Zeng ; Su, Yang ; Zhang, Shaobo ; Zhou, Xin ; Sun, Yan ; Ao, Yiping ; Chen, Xuepeng ; Chen, Zhiwei ; Du, Fujun ; Fang, Min ; **Gong, Yan** ; Jiang, Zhibo ; Jin, Shengyu ; Ju, Binggang ; Li, Chong ; Li, Yingjie ; Liu, Yi ; Lu, Dengrong ; Luo, Chunsheng ; Ma, Yuehui ; Mao, Ruiqing ; Sun, Jixian ; Wang, Chen ; Wang, Hongchi ; Wang, Min ; Wang, Min ; Wang, Xindong ; Xu, Wenting ; Xu, Ye ; Yan, Kun ; Yan, Ping ; Yuan, Lixia ; Zhang, Miaomiao ; Zhang, Yongxing, 2025, [ApJS](#), [accepted](#)

76. [First Submillimeter Lights from Dome A: Tracing the Carbon Cycle in the Feedback of Massive Stars](#)

Gong, Yan ; Zhong, Jiaqiang ; Ren, Yuan ; Zhang, Yilong ; Liu, Daizhong ; Ao, Yiping ; Yao, Qijun ; Zhang, Wen ; Miao, Wei ; Lin, Zhenhui ; Duan, Wenying ; Liu, Dong ; Zhou, Kangmin ; Liu, Jie ; Wang, Zheng ; Jin, Junda ; Zhang, Kun ; Wu, Feng ; Li, Jinpeng ; Liu, Boliang ; Zhang, Xuan ; Luo, Zhengheng ; Wang, Jiameng ; Hao,

- Huiqian ; Lu, Xingming ; Xie, Shaoming ; Quan, Jia ; Liu, Yanjie ; Liang, Jingtao ; Deng, Xianjin ; Jiang, Jun ; Li, Li ; Guo, Liang ; Ji, Tuo ; Jiang, Peng ; Zhang, Yi ; Shu, Chenggang ; Neupane, Sudeep ; Mao, Ruiqing ; Shi, Shengcai ; Li, Jing, [2026, Sci. Adv. 12, eaea9433](#)
- 75 [Mock Observations for the CSST Mission: HSTDM–Synthetic Data Generation](#)
Tan, SiYuan ; Duan, WenYin ; Zhang, YiLong ; Ao, YiPing ; **Gong, Yan** ; Lin, ZhenHui ; Zhang, Xuan ; Shi, Yong ; Tang, Jing ; Li, Jing ; Mao, RuiQing ; Shi, Sheng-Cai, [2026, Research in Astronomy and Astrophysics, 26, 2, 024012](#)
74. [A targeted radio survey of infrared-selected bow shock candidates](#)
Moutzouri, M. ; Mackey, J. ; Castro, N. ; **Gong, Y.** ; Jiménez-Hernández, P. ; Toalá, J. A. ; Burger-Scheidlin, C. ; Rugel, M. ; Carrasco-González, C. ; Brose, R. ; Menten, K. M., [2025, A&A, 704, A268](#)
- 73 [Oxygen isotopes reveal low-mass star dominance in the Small Magellanic Cloud](#)
Gong, Yan ; Zhang, Zhi-yu ; Henkel, Christian ; Chen, C. -H. Rosie ; Yang, Wenjin ; Tang, Xindi ; Hunt, Leslie K. ; Weiss, Axel ; Wu, Gang ; Yan, Yaoting ; Grishunin, Konstantin ; Menten, Karl M. , [2025, ApJ, 994, 158](#)
72. [The Diamond Ring in Cygnus X: Advanced stage of an expanding bubble of ionised carbon](#) [A&A/Colonge University press release phys.org](#)
Dannhauer, Simon M. ; Vider, Sebastian ; Schneider, Nicola ; Simon, Robert ; Comeron, Fernando ; Keilmann, Eduard ; Walch, Stefanie ; Bonne, Lars ; Kabanovic, Slawa ; Ossenkopf-Okada, Volker ; Seifried, Daniel ; Csengeri, Timea ; Djupvik, Amanda ; **Gong, Yan** ; Brunthaler, Andreas ; Rugel, Michael ; Riechers, Dominik A. ; Bontemps, Sylvain ; Honingh, Netty ; Graf, Urs U. ; Tielens, A. G. G. M., [2025, A&A, 703, A197](#)
71. [Scientific Objectives of the Xue-shan-mu-chang 15-meter Submillimeter Telescope](#)
XSMT Project Collaboration Group; Ao, Yiping; Chang, Jin; Chen, Zhiwei; Cui, Xiangqun; Du, Kaiyi; Du, Fujun; **Gong, Yan**; Han, Zhanwen; Herczeg, Gregory; Ho, Luis C.; Hu, Jie; Jing, Yipeng; Jiao, Sihan; Ju, Binggang; Li, Jing; Li, Xiaohu; Li, Xiangdong; Lin, Lingrui; Lin, Zhenhui; Liu, Daizhong; Liu, Dong; Liu, Guoxi; Lou, Zheng; Lu, Dengrong; Mao, Ruiqing; Miao, Wei; Qian, Yuan; Qiu, Keping; Shen, Zhiqiang; Shi, Yong; Shi, Shengcai; Shu, Chenggang; Sun, Jixian; Sun, Xiaohui; Sun, Yichen; Wang, Junzhi; Wang, Ke; Wang, Na; Wang, Ran; Wang, Tao; Wu, Jingwen; Wu, Xiangping; Wu, Xuefeng; Xiao, Di; Yao, Qijun; Yao, Yong; Zhang, Wen; Zhang, Xuguo; Zhang, Zhiyu; Zheng, Yuanpeng, [2025, Science China Physics, Mechanics & Astronomy, accepted](#)
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, 700, A192](#)
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, 9, 1366](#)
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, Hauyu 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 \$C_4H\$ and \$c-C_2H_2\$ 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, Hauyu Baobab ; **Gong, Yan** ; Sipilä, Olli ; Izquierdo, Andrés F. ; Csengeri, Tímea ; 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](#)
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