

# YAN GONG

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I am an astronomer working at Purple Mountain Observatory.

Updated on January 16, 2024

## RESEARCH INTERESTS

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

## EDUCATION

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- 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

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- 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

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- 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

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PASJ, MNRAS, RAA, ALMA, FAST, JCMT

## SKILLS OF NOTE

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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);

<b>Speaking language</b>	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) Chinese (mother tongue), English (fluent), and German (A1)
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## PROFESSIONAL REFERENCES

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**Prof. Dr. Rui-qing Mao** (Purple Mountain Observatory)

Deputy director of Purple Mountain Observatory

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**Prof. Dr. Jing Li** (Purple Mountain Observatory)

Head of Millimeter and Submillimeter Astronomy group

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**Prof. Dr. Arshia M. Jacob** (Universität zu Köln)

Head of Galactic Ecosystems group

E-mail: [ajacob@ph1.uni-koeln.de](mailto: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](mailto: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](mailto: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](mailto:wreich@mpifr-bonn.mpg.de)

## PRESENTATIONS

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- 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<sup>+</sup> 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<sup>+</sup> 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

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### 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. ; Sathanarayanan, 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 Science

**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/Colunge 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

Alkuaja, 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<sup>+</sup> 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-León, 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  $\text{C}_4\text{H}$  and  $\text{c-C}_2\text{H}_2$  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  $\text{CF}^+$  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, 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**

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