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Research Interests:

- Radio astronomy
- Molecular clouds and star formation

Selected Publications:

1. Komesch, Toktarkhan; Baan, Willem; Esimbek, Jarken; Zhou, Jianjun; Li, Dalei; Wu, Gang; He, Yuxin; Rosli, Zulfazli; Ibraimov, Margulan
Studies of the distinct regions due to CO selective dissociation in the Aquila molecular cloud
2020A&A...644A..46K
2. Tursun, Kadirya; Esimbek, Jarken; Henkel, Christian; Tang, Xindi; Wu, Gang; Li, Dalei; Zhou, Jianjun; He, Yuxin; Komesch, Toktarkhan; Sailanbek, Serikbek
Ammonia observations towards the Aquila Rift cloud complex
2020A&A...643A.178T

3. Li, Dalei; Tang, Xindi; Henkel, Christian; Menten, Karl M.; Wyrowski, Friedrich; Gong, Yan; Wu, Gang; He, Yuxin; Esimbek, Jarken; Zhou, Jianjun
Evidence for Dense Gas Heated by the Explosion in Orion KL
2020ApJ...901...62L
4. Chang, Zhengxue; Zhou, Jianjun; Wilson, Christine D.; Esimbek, Jarken; Qiu, Jianjie; Li, Dalei; Zhou, Minhua; He, Yuxin; Ji, Weiguang; Tang, Xindi; Wu, Gang; Li, Jun
Dissecting the Global Cold Dust Properties and Possible Submillimeter Excess of 13
Nearby Spiral Galaxies from the NGLS
2020ApJ...900...53C
5. Zhou, Dong-dong; Wu, Gang; Esimbek, Jarken; Henkel, Christian; Zhou, Jian-jun; Li, Da-lei; Ji, Wei-guang; Zheng, Xing-wu
NH₃ (1,1) hyperfine intensity anomalies in the Orion A molecular cloud
2020A&A...640A.114Z
6. Zhang, Xia; Quan, Donghui; Chang, Qiang; Herbst, Eric; Esimbek, Jarken; Webb, Matthew
Chemical models of interstellar cyanomethanimine isomers
2020MNRAS.497..609Z
7. Zhou, Jianjun; Zhou, Dongdong; Esimbek, Jarken; Baan, Willem; Wu, Gang; Ji, Weiguang; He, Yuxin; Li, Dalei; Sailanbek, Serikbek; Komesh, Toktarkhan; Tang, Xindi
G15.684-0.29: One of the Largest Galactic Infrared Bubbles Showing Strong Evidence of Triggered Star Formation
2020ApJ...897...74Z
8. Zhang, Xia; Quan, Donghui; Esimbek, Jarken
Gas-grain modeling of interstellar O₂
2020ChJCP..33..107Z
9. Zhou, Jian-jun; Li, Run-xia; Quan, Donghui; Esimbek, Jarken; He, Yu-xin; Li, Da-lei; Tang, Xin-di; Wu, Gang; Ji, Wei-guang; Chang, Zheng-xue; Zhang, Xia

Effect of optical depth on study of chemical properties of massive star forming clumps

2020ChJCP..33..114Z

10. Li, Qiang; Zhou, Jianjun; Esimbek, Jarken; He, Yuxin; Baan, Willem; Li, Dalei; Wu, Gang; Tang, Xindi; Ji, Weiguang; Komesch, Toktarkhan; Sailanbek, Serikbek
Effects of infall and outflow on massive star-forming regions
2019MNRAS.488.4638L

11. Tang, X. D.; Henkel, C.; Menten, K. M.; Gong, Y.; Martín, S.; Mühle, S.; Aalto, S.; Muller, S.; García-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
ALMA view of the $^{12}\text{C}/^{13}\text{C}$ isotopic ratio in starburst galaxies
2019A&A...629A...6T

12. Li, Xu; Esimbek, Jarken; Zhou, Jianjun; Baan, W. A.; Ji, Weiguang; Tang, Xindi; Wu, Gang; Tang, Xiaoke; Li, Qiang; Ma, Yingxiu; Sailanbek, Serikbek; Li, Dalei; Alimbetova, Dina
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13. Li, Mingyue; Zhou, Jianjun; Esimbek, Jarken; Quan, Donghui; He, Yuxin; Li, Qiang; Zhu, Chunhua
Spatial Variation of the Chemical Properties of Massive Star-forming Clumps
2019ApJS..243...13

14. Komesch, Toktarkhan; Esimbek, Jarken; Baan, Willem; Zhou, Jianjun; Li, Dalei; Wu, Gang; He, Yuxin; Sailanbek, Serikbek; Tang, Xindi; Manapbayeva, Arailym
 H_2CO and H^{13}CO^+ Observations toward the Aquila Molecular Cloud
2019ApJ...874..172K

15. Li, Qiang; Zhou, Jianjun; Esimbek, Jarken; He, Yuxin; Baan, W. A.; Li, Dalei; Wu, Gang; Tang, Xindi; Ji, Weiguang; Zhaxeray, Dauren
High-mass Outflows Identified from COHRS CO (3–2) Survey,
2018ApJ...867..167L

16. Wu, Gang; Jarken, Esimbek; Baan, Willem; Zhou, Jian-Jun; Zhou, Dong-Dong;

Han, Xiao-Hong; Agishev, Aldiyar

A kinematic study of the integral shaped filament: what roles do filaments play in forming young stellar clusters?

2018RAA....18...77W

17. He, Yu-Xin; Esimbek, Jarken; Zhou, Jian-Jun; Wu, Gang; Tang, Xin-Di; Ji, Wei-Guang; Yuan, Ye; Li, Da-Lei

H₂O maser observation using the 26-meter Nanshan Radio Telescope of the XAO;

2018IAUS..336..449H

18. Wu, Gang; Qiu, Keping; Esimbek, Jarken; Zheng, Xingwu

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19. Wu, Gang; Qiu, Keping; Esimbek, Jarken; Zheng, Xingwu; Henkel, Christian; Li, Dalei; Han, XiaoHong

Extended ammonia observations towards the integral-shaped filament;

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20. Tang, X. D.; Henkel, C.; Wyrowski, F.; Giannetti, A.; Menten, K. M.; Csengeri, T.; Leurini, S.; Urquhart, J. S.; König, C.; Güsten, R.; and 4 coauthors

ATLASGAL-selected massive clumps in the inner Galaxy. VI. Kinetic temperature and spatial density measured with formaldehyde;

2018A&A...611A...6T

21. Li, DaLei; Lou, Yu-Qing; Esimbek, Jarken

Lane-Emden equation with inertial force and general polytropic dynamic model for molecular cloud cores;

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22. 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.; and 3 coauthors

Kinetic temperature of massive star-forming molecular clumps measured with formaldehyde. III. The Orion molecular cloud 1;

2018A&A...609A..16T