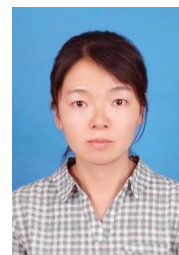


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Research Interests:

Astrochemical modeling and observations

Selected Publications:

1. Xia Zhang*, Donghui Quan, Xiaohu Li et al. Chemical models of interstellar glycine and adenine precursor aminoacetonitrile ($\text{NH}_2\text{CH}_2\text{CN}$), MNRAS, 2024, 533(3):3623-3636
2. Xia Zhang, Donghui Quan, Runxia Li et al. Chemical models of adenine precursors cyanamide and carbodiimide in the interstellar medium, MNRAS, 2023, 521(1):1578-1589
3. Xia Zhang, Donghui Quan, Qiang Chang et al. Chemical models of interstellar cyanomethanimine isomers, MNRAS, 2020, 497(1): 609-625.
4. Xia Zhang, Donghui Quan, Jarken Esimbek, Gas-Grain Modeling of Interstellar O_2 , Chinese Journal of Chemical Physics, 2020, 33(1): 107-113.
5. Qiang Chang, Xu-Li Zheng, Xia Zhang* et al. On the encounter desorption of hydrogen atoms on an ice mantle, RAA, 2021, 21(2): 39
6. Rui Luo, Junzhi Wang, Xia Zhang, et al. Observational studies on S-bearing molecules in massive star forming regions, accepted by A&A.
7. Ziwen Song, Qiang Chang, Qingkuan Meng, Xia Zhang, Modeling long carbon-chain species formation with porous multiphase models, accepted by A&A.

8. Juan Li, Donghui Quan, Junzhi Wang, Xia Zhang et al. Tentative detection of cyanoformamide NCCONH_2 in space, *PASJ*, 2024, 76(1): 54-64.
9. Fangfang Li, Donghui Quan, Xia Zhang et al. Quantum mechanical modeling of interstellar molecules on cosmic dusts: H_2O , NH_3 , and CO_2 , *Frontiers in Chemistry*, 2022, 10:1040703
10. Gang Zhao, Qiang Chang, Xia Zhang et al. Effect of surface H_2 on molecular hydrogen formation on interstellar grains. *MNRAS*, 2022, 512(3): 3137-3148.
11. Long-Fei Chen, Di Li, Donghui Quan, Xia Zhang et al. Chemical Variations Across the TMC-1 Boundary: Molecular Tracers from the Translucent Phase to the Dense Phase. *ApJ*, 2022, 928(2):175.
12. Guoming Zhao, Donghui Quan, Xia Zhang et al. Glycolonitrile (HOCH_2CN) Chemistry in Star-forming Regions. *ApJS*, 2021, 257(2):26.
13. Yao Chang, Yong Yu, Feng An, Zijie Luo, Donghui Quan, Xia Zhang et al. Three body photodissociation of the water molecule and its implications for prebiotic oxygen production, *Nature Communications*, 2021, 12(1): 2476.
14. Yan Zhou, Dong-Hui Quan, Xia Zhang et al. Detection of hydroxyacetone in protostar IRAS 16293-2422 B, *RAA*, 2020, 20(8):125.
15. Pei Zuo, Di Li, J E G Peek, Qiang Chang, Xia Zhang et al. Catching the Birth of a Dark Molecular Cloud for the First Time, *ApJ*, 2018, 867(1):13.

