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EDUCATION

- **Nanjing University, Ph.D. student** 2022–today
School of Astronomy & Space Science, China
- **Nanjing University, master student** 2020–2022
School of Astronomy & Space Science, China
- **Shandong University, BSc.** 2016–2020
School of Physics, China

PAPERS

- **Limited imprint of high-mass IMF variations on sodium abundances in main-sequence galaxies** *accepted*
Astronomy and Astrophysics
CONTRIBUTORS: Ziyi Guo; Donatella Romano; Zhiqiang Yan; Zhi-Yu Zhang; Xiaoting Fu; Lizhi Xie; Tereza Jerabkova; Gabriella De Lucia; Michaela Hirschmann; Fabio Fontanot; Eda Gjergo; Alice Concas; Xiaodong Tang
- **First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function** 2024-08
the Astrophysical Journal
CONTRIBUTORS: Ziyi Guo; Zhi-Yu Zhang; Zhiqiang Yan; Eda Gjergo; Rob Ivison; Allison Man; Xiaoting Fu; Yong Shi.
- **Massive Star Formation at Supersolar Metallicities: Constraints on the Initial Mass Function** 2026-02
Research in Astronomy and Astrophysics
CONTRIBUTORS: Gjergo, Eda; Zhang, Zhi-Yu; Kroupa, Pavel; Sorokin, Aleksei; Yan, Zhiqiang; Guo, Ziyi; Jerabkova, Tereza; Zonoozi, Akram Hasani; Haghi, Hosein
- **Stellar population astrophysics (SPA) with the TNG. The phosphorus abundance on the young side of Milky Way** 2026-01
Monthly Notices of the Royal Astronomical Society
CONTRIBUTORS: Jian, Mingjie; Fu, Xiaoting; D'Orazi, Valentina; Bragaglia, Angela; Bijavara Seshashayana, S.; Zhao, He; Guo, Ziyi; Lind, Karin; Matsunaga, Noriyuki; Nunnari, Antonino; Bono, Giuseppe; Sanna, Nicoletta; Romano, Donatella; Dal Ponte, Marina
- **A Spectroscopic survey of biased halos In the Reionization Era (ASPIRE): Impact of Galaxies on the Circumgalactic Medium Metal Enrichment at $z > 6$ Using the JWST and VLT** 2024-03
The Astrophysical Journal Letters
CONTRIBUTORS: Zou Siwei; Cai Zheng; Wang Feige; Fan Xiaohui; Champagne Jaclyn B.; Hennawi Joseph F.; Schindler Jan-Torge; Farina Emanuele Paolo; Yang Jinyi; Inayoshi Kohei; Bañados Eduardo; Bosman Sarah E. I.; Li Zihao; Lin Xiaojing; Wu Yunjing; Sun Fengwu; Guo Ziyi; Kulkarni Girish; Habouzit Mélanie; Charlot Stephane; Chevallard Jacopo; Connor Thomas; Eilers Anna-Christina; Jiang Linhua; Jin Xiangyu; Kakiichi Koki; Li Mingyu; Meyer Romain A.; Walter Fabian; Zhang Huanian
- **α -enhanced astrochemistry: the carbon cycle in extreme galactic conditions** 2024-01
Monthly Notices of the Royal Astronomical Society
CONTRIBUTORS: Thomas G. Bisbas; Zhi-Yu Zhang; Eda Gjergo; Ying-He Zhao; Gan Luo; Donghui Quan; Xue-Jian Jiang; Yichen Sun; Theodoros Topkaras; Di Li; Ziyi Guo
- **Properties of Dense Molecular Gas along the Major Axis of M82** 2022-07-01
The Astrophysical Journal
CONTRIBUTORS: Fei Li; Zhi-Yu Zhang; Junzhi Wang; Feng Gao; Shanghuo Li; Jing Zhou; Yichen Sun; Ziyi Guo; Shu Liu.

TALKS

- **Exploring the Evolution of CNOPS Elements from Earth and Space** 2026-02
ORGANIZER: Sexten Center for Astrophysics (SCfA)
 $^{13}\text{C}/^{18}\text{O}$ as IMF tracer in high- z galaxies
- **Galaxy Formation in the Cosmic Web: Bridging Simulations and Observations** 2025-09
ORGANIZER: the 12th Sino-German Meeting
IMF in High- z Universe—CO isotopologues ratio reveals the IMF in high- z galaxies
- **Astronomy Talk** 2024-03
ORGANIZER: Istituto Nazionale di Astrofisica, Osservatorio di Astrofisica e Scienza dello Spazio di Bologna
First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function
- **Cosmic Threads: Interlinking the stellar Initial Mass Function from Star-birth to Galaxies** 2024-03
ORGANIZER: Sexten Center for Astrophysics (SCfA) "Riccardo Giacconi"
First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function

- The 3rd International Workshop on Origin of Elements and Cosmic Evolution**

ORGANIZER: Beihang University; International research Institute for Multidisciplinary Science; Institute of Nuclear Astrophysics of China; COSNAP

From Stellar yield to Evolution of the Universe – The First detection of CO isotopologues in high-z Main Sequence galaxy: Evidence of a top-heavy IMF

2023-11
- Nearby and Distant Star Formation Conference**

ORGANIZER: Yunnan Observatories, Chinese Academy of Sciences

The First detection of CO isotopologues in high-z Main Sequence galaxy: Indications of a Top-heavy IMF

2023-07
- Seminar**

ORGANIZER: Tsinghua University

The First detection of CO isotopologues in high-z Main Sequence galaxy: Indicate top-heavy IMF

2023-03
- Gravitational Lensing Spring Conference**

ORGANIZER: Beijing Normal University

Constrain the Initial Mass Function in Main-Sequence Galaxies at $z \sim 2$

2023-03

ACHIEVEMENTS

- Tiangong Scholarship**

2024
- Institute for nuclear astrophysics of China award for young scientist**

For outstanding presentation at the Pre-Workshop of the 3rd International Workshop on ‘Origin of Elements and Cosmic Evolution’.

2023

TECHNICAL SKILLS AND INTERESTS

Languages: Chinese, English, python

Software Skills: NuPyCEE, CASA

Areas of Interest: High-z galaxies; ALMA observations; Galactic chemical evolution