

Short Bio

Dr. Ziliang Jin received his Ph.D. at China University of Geosciences, Beijing (CUGB) in 2017. In 2015-2017, he also worked as a guest scientist in the GeoForschung Zentrum (GFZ) 1280HR SIMS lab in Potsdam, Germany.

His postdoctoral research work in years 2017-2020 at Arizona State University (ASU) focused on the study of water and hydrogen isotopic compositions in anhydrous minerals from the asteroid Itokawa and ordinary chondrites using the NanoSIMS 50L.

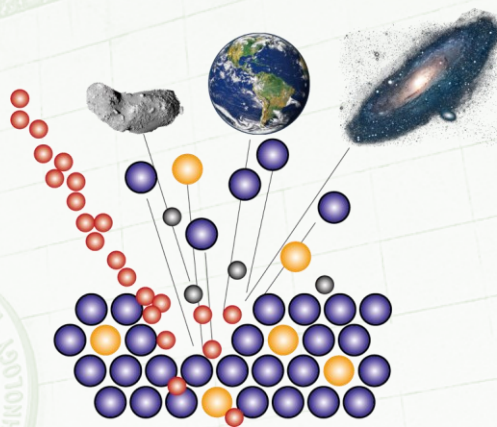
In 2021, he joined the State Key Lab of Lunar and Planetary Science at Macau University of Science and Technology (MUST) as an Assistant Professor.

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Research interests

- Derivation and migration of the primordial materials in the solar system
- The behaviors of volatiles during the formation of solar system bodies
- Development of matrix-matched reference materials used for high-precision SIMS measurements

Publications (*corresponding author)

- **Z. Jin***, M. Bose, T. Lichtenberg, G. Mulders (2021), New evidence for wet accretion of inner solar system planetesimals from meteorites Chelyabinsk and Benenitra. *The Planetary Science Journal*, 2, 244.
- Q. Xie, Z. Zhang*, **Z. Jin***, M. Santosh, L. Han, K. Wang, P. Zhao, H. He (2021), The high-grade Fe skarn deposit of Jinling, North China Craton: Insights into hydrothermal iron mineralization. *Ore Geology Reviews*, 138, 104395.
- **Z. Jin*** and M. Bose (2021), Hydration of Nebular Minerals through the Implantation–Diffusion Process. *The Astrophysical Journal*, 913, 116.



Cosmochemistry



- **Z. Jin*** and M. Bose (2019), New clues to ancient water on Itokawa. **Science Advances**, eaav8106.
- **Z. Jin**, Z. Zhang*, M. Santosh, L. Han (2018), Occurrence and chemical compositions of amphiboles in altered dioritic rocks of Laiwu skarn-type iron deposit in West Shandong area, China. **Resource Geology**, 68(4), 425-445.
- X. Fei, Z. Zhang*, Z. Cheng, M. Santosh, **Z. Jin**, B. Wen (2018) Highly differentiated magmas linked with polymetallic mineralization: A case study from the Cuihongshan granitic intrusions, Lesser Xing'an Range, NE China. **Lithos**, 302, 158-177.
- Q. Xie, Z. Zhang*, T. Hou, T., **Z. Jin**, M. Santosh (2017). Geochemistry and oxygen isotope composition of magnetite from the Zhangmatun deposit, North China Craton: Implications for the magmatic-hydrothermal evolution of Cornwall-type iron mineralization. **Ore Geology Reviews**, 88, 57-70.
- **Z. Jin**, Z. Zhang*, M. Santosh, T. Hou, L. Han (2015), Genetic relationship of high-Mg dioritic pluton to iron mineralization: A case study from the Jinling skarn-type iron deposit in the North China Craton. **Journal of Asian Earth Sciences**, 113, 957-979. [SEP]
- Q. Xie, Z. Zhang*, T. Hou, M. Santosh, **Z. Jin**, L. Han, Z. Cheng (2015), Petrogenesis of the Zhangmatun gabbro in the Ji'nan complex, North China Craton: Implications for skarn-type iron mineralization. **Journal of Asian Earth Sciences**, 113, 1197-1217.
- **Z. Jin**, Z. Zhang*, M. Santosh, H. Huang, T. Hou, Y. Ma (2014), Geochronology and geochemistry of the Airikenqiken granite, Central Tianshan Terrane, Xinjiang, China: implications for petrogenesis and continental growth. **International Geology Review**, 56, 801-822. [SEP]

Grants

- **FDCT** – 2021-2023 – **PI**: A comprehensive study of mineral disequilibrium in the achondrite EC002

Instrument expertise

- LA-ICP-MS (MUST): GeoLasHD + Agilent 7900: managing
- CAMECA IMS 1280 (HR) (GFZ): Tune, operate, and maintain
- CAMECA NanoSIMS 50L (ASU): Tune, operate, and maintain

Service

- Editor of *Reviews of Geophysics and Planetary Physics*