

# Curriculum Vitae

Name: Xiandi Zeng                      Gender: male  
Day of Birth: 1992.10                  Living: Guangzhhou  
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Major: Geochemistry  
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## Education Background

- 2011.09-2015.06    **China University of Geosciences, Wuhan**    **Bachelor**  
Major in: Marine Geography
- 2015.09-2018.06    **University of Chinese Academy of Sciences (Institute of Geochemistry, Chinese Academy of Sciences)**    **Master**  
Major in: Geological Engineering
- 2018.09-2022.06    **University of Chinese Academy of Sciences (Institute of Geochemistry, Chinese Academy of Sciences)**    **Ph.D.**  
Major in: Geochemistry

## Work Experience

December 2022 – Present: **Postdoctoral Researcher** at the State Key Laboratory of Lunar and Planetary Sciences, Macau University of Science and Technology

Key Research Endeavors:

1. Investigating the space weathering processes affecting the surfaces of airless celestial bodies.
2. The formation process of lunar surface water and analysis of lunar soil properties.
3. Probing the origins of volatile substances in protostellar environments within the early Solar System.

## Academic achievements

1. **Zeng X D**, Tang H, Li X Y, et al. Research Review and Significance of Lunar Water Originated from Solar Wind [J]. *Advances in Earth Science*, 2018, 33(5): 473-482

2. **Zeng X D**, Tang H, Li X Y, et al. Experimental investigation of OH/H<sub>2</sub>O in H<sup>+</sup>-irradiated plagioclase: Implications for the thermal stability of water on the lunar surface[J]. *Earth and Planetary Science Letters*, 2021, 560(1):116806.
3. Chuanjiao Zhou; Hong Tang; Xiongyao Li; Xiaojia Zeng; Bing Mo; Wen Yu; Yanxue Wu; **Xiandi Zeng**; Jianzhong Liu; Yuanyun Wen ; Chang'E-5 samples reveal high water content in lunar minerals[J], *Nature Communications*, 2022, 13(1)
4. **Zeng X D**, Tang H, Li X, et al. Depth profiling of implanted D<sup>+</sup> in silicates: Contribution of solar wind protons to water in the Moon and terrestrial planets[J]. *Astronomy & Astrophysics*, 2024, 691: A275.
5. **Zeng X D**, Jin Z, Bose M, et al. Effects of Crystal Orientation and Temperature on H-Implantation in Olivine[J]. *LPI Contributions*, 2024, 3040: 1868.
6. **Zeng X D**, Jin Z, Dong C, et al. Formation Mechanism of Hematite on the Lunar Surface[J]. *LPI Contributions*, 2025, 3090: 1756.
7. Zhang J Y, Cao W, Lu Y, Gázquez F, Krijgsman W, **Zeng X D**, Zhong Y, Liu W, Liu Q S; A novel approach of semi-quantifying gypsum in sedimentary rocks by visible and near-infrared diffuse reflectance spectroscopy[J]. *Geochemistry, Geophysics, Geosystems*, 2025, 26(3): e2024GC012118.