

Academic Staff Resume

Name: Wu, Yunzhao

Title: Associate Professor

Space Science Institute

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Academic Qualification:

Ph.D. in Geochemistry and Remote Sensing, Nanjing University, China, 2005

B.Sc. in Geology, Nanjing University, China, 2000

Teaching Area

Research Area

Lunar Science

Planetary Remote Sensing

Reflectance Spectroscopy

Working Experience

April. 2008 to present: School of Geographic and Oceanographic Sciences, Nanjing University, AP

Nov.2005 to April.2008 :Institute of Remote Sensing Applications of Chinese Academy of Sciences,Postdoc

Aug. 2014 to Jan. 2015: University of Notre Dame, Visiting Scholar

Feb. 2013 to May. 2013: Brown University, Visiting Scholar

Jan. 2013 to Aug. 2014: Indiana University –Purdue University (IUPUI),Visiting Scholar

Feb. 2012 to Mar. 2012:University of Maryland,Visiting Scholar

Academic Publication

Journal Articles:

1.Zhang, X., Wu, Y., Ouyang, Z., Roberto, B.,et al.Mineralogical Variation of the Late Stage Mare Basalts. Journal of 1.Geophysical Research: Planets, 2016, doi:10. 1002/2016JE005051.

2.Tang, X., Luo, X., Jiang, Y., Wu, Y. Estimation of lunar FeO abundance based on imaging by LRO Diviner. Research in Astronomy & Astrophysics, 2016, 16(2).

3.Zhang, X. , Ziyuan, O.,.....Wu, Y. (2016), Study of the continuum removal method for the Moon Mineralogy Mapper (M3) and its application to Mare Humorum and Mare Nubium, Research in Astronomy and Astrophysics, 16(7), 115, doi:10.1088/167-4527/16/7/115.

4.Wong, U., Wu, Y., et al. Modeling the Reflectance of the Lunar Regolith by a New Method Combining Monte Carlo Ray Tracing and Hapke's Model with Application to Chang'E-1 IIM Data. The scientific World Journal. 2014, 457138.

5.Wu, Y., et al. Photometric correction and in-flight calibration of Chang'E-1 Interference Imaging Spectrometer data. Icarus. 2013, 222: 283-295.

6.Wu, Y., et al. Global estimates of lunar iron and titanium contents from the Chang' E-1 IIM data. Journal of Geophysical Research-Planets. 2012, 117: 1-23.

7. Wu, Y. Major elements and Mg# of the Moon: Result from Chang'E-1 Interference Imaging Spectrometer(IIM) data. *Geochimica et Cosmochimica Acta*. 2012, 93, 214-234.
8. Yan, B.,.....Wu, Y., et al. Mapping Lunar global chemical composition from Chang'E-1 IIM data. *Planetary and Space Science*. 2012, 67: 119-129.
9. Wu, Y., et al. Can contaminant elements in soils be assessed by remote sensing technology: A case study with simulated data. *Soil Science*. 2011, 176 (4).
10. Wu, Y., et al. A preliminary experience in the use of Chang'E-1 IIM data. *Planetary and Space Science*. 2010, 58(14): 1922-1931.
11. Wu, Y., et al. Global absorption center map of the mafic minerals on the Moon as viewed by CE-1 IIM. *Science in China Series G*. 2010, 53(12): 2160–2171.
12. Wu, Y., et al. Inversion of the asymmetry factor for desert areas of China. *Sci China Earth Sci*. 2010, 53: 1–7, doi: 10.1007/s11430-010-0026-y.
21. Wu, Y., et al. Retrieving photometric properties of desert surfaces in China using the Hapke model and MISR data. *Remote Sensing of Environment*. 2009, 113: 213–223.

Books & Book Chapters:

1. Wu, Y. "Estimates of the Major Elemental Abundances with Chang'E-1 Interference Imaging Spectrometer Data," in *Planetary Geodesy and Remote Sensing*, (edited by S. G. Jin), Chp. 6, 120-155, Taylor & Francis Group, LLC, New York, 2015.

Conference Papers:

1. Wu, Y., et al. An unusual geology of mare imbrium and implication to the global evolution. *Lunar and Planetary Science Conference*, 2016, #1406.
2. Wu, Y., et al. Exploring young high-Ti basalts with Chang'e-3 rover. *Lunar and Planetary Science Conference*, 2015, #1528.
3. Chen, Y., Wu, Y., et al. The thickness of late stage basalts in Mare Imbrium. *Lunar and Planetary Science Conference*, 2015, #1806.
4. Wu, Y., et al. Regional geology of the Chang'e-3 landing zone. *Lunar and Planetary Science Conference*, 2014, #2613.
5. Wu, Y., et al. Mapping the absorption center of the lunar minerals: preliminary results from CE-1 IIM data. *Lunar Planetary Science Conference*, 2010, #1216.

Research Projects

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| <p>Jan. 2015 to Dec. 2017 The National Science Fund for Distinguished Young Scholars
Lunar Remote Sensing</p> <p>Jan. 2012 to Dec. 2015 National Natural Science Foundation
inversion of lunar compositions using the Chang'E-1 IIM data</p> <p>Jan. 2012 to Dec. 2015 Program for New Century Excellent Talents in University
Photometric correction and in-flight calibration of Chang' E-1 IIM data</p> <p>Oct. 2012 to Sept. 2017 National High Technology Research and Development Program
R & D and industrialization of core spectrometer</p> | <p>The</p> |
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Professional Certification and Awards

Professional Society Membership