

Academic Staff Resume

Name: Xie Lianghai
Title: Assistant Professor
Space Science Institute

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Academic Qualification:

Ph.D. in Space Physics, University of Chinese Academy of Sciences, China, 2014
Bachelor in Applied Physics, Central South University, China, 2009

Teaching Area

Physics and planetary sciences

Research Area

Interactions between space environment and airless bodies: space weathering, dust, exospheric wake

Numerical simulations of space plasma and lunar dust

Dynamics in Barium release/artificial comet with multi-species MHD simulation.

Working Experience

2017/09-present: Assistant Professor in Space Science Institute, Macau University of Science and Technology

2016/10-2017/01: Visiting scholar in Department of Earth, Planetary, and Space Sciences, University of California, Los Angeles

2015/08-2017/08: PostDoc in Space Science Institute, Macau University of Science and Technology

2014/01-2015/07: Assistant Researcher in National Space Science Center, Chinese Academy of Sciences

Academic Publication

Journal Articles:

1. **Xie, L.**, X. Zhang, Y. Zheng, and D. Guo (2017), The effects of spacecraft charging and outgassing on LADEE ion measurements, *J. Geophys. Res. Space Physics*, 122, 5825–5834, doi:10.1002/2017JA021647.

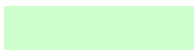
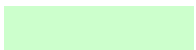
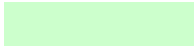
2. **Xie, L.**, X. Zhang, Y. Zheng, and D. Guo (2016), Solar wind-generated current in the Lunar LAMP Experiment, *Geophysical Research Letters*, 43, 3662–3669, doi:10.1002/2016GL068640.

3. **Xie, L.**, L. Li, Y. Zhang, Y. Feng, X. Wang, A. Zhang, and L. Kong (2015), Three-dimensional simulation of lunar minimagnetosphere: General characteristics and comparison with Chang'E-2 observations, *J. Geophys. Res. Space Physics*, 120, 6559–6568, doi:10.1002/2015JA021647.

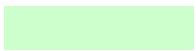
4. **Xie, L.**, Li, L., Wang, J. et al. (2015), Determining Wind Field and Electric Field by a Barium Experiment in the Ionosphere, *Sci. China Earth Sci*, 58(7), doi: 10.1007/s11430-014-5051-9.
5. **Lianghai Xie**, Lei Li, Jingdong WANG and Yiteng Zhang (2014), Three-dimensional, two-sp magnetohydrodynamic studies of the early time behaviors of the Combined Release and Radiat Satellite G2 barium release, *Physics of Plasmas*, 21: 042903, <http://dx.doi.org/10.1063/1.48711>
6. Wang Jindong, Li Lei, Tao Ran, Liu Cheng, Liu Yue, Cheng Bingjun, **Xie Lianghai**. Research plasma release experiment in ionosphere. *Chin. J. Space Sci.*, 2014, 34(6): 837-842, doi:10.11728/cjss2014.06.837.
7. **Lianghai Xie**, LI Lei, WANG Jingdong, TAO Ran, CHENG Bingjun and ZHANG Yiteng (2011), Photometric calibration of the barium cloud image in a space active experiment: determining the efficiency, *Chin. Phys. Lett.*, 30(01):019401, doi:10.1088/0256-307X/31/1/019401.
8. Lei Li, **Lianghai Xie**, Yiteng Zhang and Tongdi Liu (2013), Model investigation of current system influence of the crustal fields on the large scale structure of current sheets at Mars, *Planet. Space Sci.*, 77: 103-112, doi:10.1016/j.pss.2013.07.004.
9. **Xie, L. H.**, L. Li, Y. T. Zhang, and D. L. De Zeeuw (2013), Three-dimensional MHD simulation of the wake, *Sci. China Earth Sci.*, 56(2), 330–338, doi:10.1007/s11430-012-4383-6.
10. Liu Tongdi, Li Lei, Zhang Yiteng, **Xie Lianghai**. Global distribution of currents in Martian space. *Space Sci.*, 2012, 32(6): 765-770.



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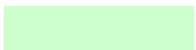


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