



北京大学地球与空间科学学院

School of Earth and Space Sciences, Peking University

[English](#)

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教育经历

- 2011.09.12-22 第二届中欧火星科学高级研修班
2003.09-2009.01 复旦大学, 电路与系统, 理学博士
1999.09-2003.07 西安电子科技大学, 应用物理系, 理学学士

工作经历

- 2011.08- 北京大学“百人计划”特聘研究员, 博士生导师
2011.03-2011.05 法国巴黎地球物理研究所(IPGP) 访问科学家
2010.03-2010.04 美国喷气推进实验室(JPL) 访问科学家
2009.02-2011.02 法国巴黎地球物理研究所(IPGP) 博士后

研究经历

- 2011.08- 月球与行星探测中的微波遥感技术
2009.02-2011.07 月球表面雷达散射建模与模拟, Arecibo雷达数据分析与月表参数反演
2007.08-2008.08 月球表面合成孔径雷达成像模拟
2007.02-2009.01 雷达探测仪对月球表面次表层结构的探测研究
2005.03-2009.02 中国“嫦娥”1号探月计划微波辐射计对月球表面月壤特性研究
2003.09-2006.12 微波辐射计对地表特征参数反演研究

研究方向

月球与行星科学, 微波遥感理论与方法, 电磁散射理论, 行星雷达, 地球物理参数反演等

学术兼职

1. 美国地球物理学会(AGU)会员, 欧洲地球科学联合会(EGU)会员
2. Journal of Geophysical Research-Planets, Icarus, Planetary and Space Science, IEEE Geosciences and Remote Sensing Letters, Journal of Earth Science, Science China 审稿人

获奖情况

- 2011 国家自然科学二等奖(第三完成人)
2009 教育部自然科学一等奖(第四完成人)

代表性论文

1. Wenzhe Fa, Mark A. Wieczorek, and Essam Heggy, Modeling polarimetric radar scattering from the lunar surface: study on the effect of physical properties of the regolith layer, *Journal of Geophysical Research-Planets*, 2011, 116, E03005, doi:10.1029/2010JE003649.
2. Wenzhe Fa, and Ya-Qiu Jin. Global inventory of Helium-3 in lunar regolith estimated by multi-channel microwave radiometer on Chang-E 1, *Chinese Science Bulletin*, 2010, 55(35): 4005-4009.
3. Wenzhe Fa, and Ya-Qiu Jin. A primary analysis of microwave brightness temperature of lunar surface from Chang-E 1 multi-channel radiometer observation and inversion of regolith layer thickness, *Icarus*, 2010, 207(2): 605-615.
4. Zhiyong Xiao, Zuoxun Zeng, Long Xiao, Wenzhe Fa, and Qian Huang. Origin of pit chains in the floor of lunar Copernican craters. *Science China Physics, Mechanics Astronomy*, 2010, 53: 2145-2159.
5. Wenzhe Fa, and Ya-Qiu Jin. Simulation of radar sounder echo from lunar surface and subsurface structure, *Science in China D*, 2010, 53(7):1043-1055.
6. Ya-Qiu Jin, and Wenzhe Fa. The modeling analysis for microwave emission from stratified media of non-uniform lunar cratered terrain surface in Chinese Chang-E 1 observation. *IEEE Geosciences and Remote Sensing Letters*, 2010, 7(3): 530-534.
7. Wenzhe Fa, Feng Xu, and Ya-Qiu Jin. SAR imaging simulation for an inhomogeneous undulated lunar surface based on triangulated irregular network, *Science in China F*, 2009, 52(4): 559-574.
8. Ya-Qiu Jin, and Wenzhe Fa. An inversion approach for lunar regolith layer thickness using optical albedo data and microwave emission simulation, *Acta Astronautica*, 2009, 65: 1409-1423.
9. Rui Ding, Wenzhe Fa, and Zhiliang Wang. Analysis on vector radiative transfer through a finite slab of stochastic precipitation medium, *Waves in Random and Complex Media*. 2008, 18 (3): 371-385.
10. Wenzhe Fa, and Ya-Qiu Jin. Simulation of brightness temperature from lunar surface and inversion of regolith layer thickness, *Journal of Geophysical Research-Planets*, 2007, 112, E05003, doi: 10.1029/2006JE002751.
11. Wenzhe Fa, and Ya-Qiu Jin. Quantitative estimation of helium-3 spatial distribution in the lunar regolith layer, *Icarus*, 2007, 190(1): 15-23.
12. Ya-Qiu Jin, Feng Xu, and Wenzhe Fa. Numerical simulation of polarimetric radar pulse echoes from lunar regolith layer with scatter inhomogeneity and rough interfaces, *Radio Science*. 2007, 42, RS3007, doi: 10.1029/2006RS003523.

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