

教學人員簡介

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學歷

博士 (2006-2011)

空間物理學

中國科學院空間科學與技術研究中心

本科 (2002-2006)

地球物理學

中國科學技術大學

教學領域

空間等離子體物理

行星空間物理學

研究領域

太陽風磁重聯

月球等離子體環境

行星空間物理

工作經歷

2015.09-至今

助理教授

澳門科技大學

2013.09-2015.08

博士後研究員

澳門科技大學

2011.09-2013.08

校聘副教授

南昌大學

學術成果

期刊文章 (第一作者或通訊作者)

- 1 J. Wang, L. C. Lee, **X. Xu (Corr*)**, J. B. Cao, J. Yu, Q. Chang, Q. Xu and J. Xu, Plasma and Magnetic Field Structures Near Martian Induced Magnetosphere Boundary: I. Plasma Depletion Region and Tangential Discontinuity, **Astronomy&Astrophysics**, accepted, 2020.
- 2 Qing Chang, **Xiaojun Xu (Corr*)**, Qi Xu, Jing Wang, Jiaying Xu, Yudong Ye, and Tielong Zhang, The Demagnetization of the Venusian Ionosphere Under Nearly Flow-aligned Interplanetary Magnetic Fields, **Astrophys. J.**, accepted, 2020.
- 3 Jiaying Xu, **Xiaojun Xu (Corr*)**, Jing Wang, Yudong Ye, Qing Chang, and Qi Xu, The Relaxation of Reconnected Open Magnetic Field Lines in the Earth's Magnetosphere, **Astrophys. J.**, accepted, 2020.
- 4 Qi Xu, **Xiaojun Xu (Corr*)**, Qing Chang, Jiaying Xu, Jing Wang, Yudong Ye, An ICME impact on the Martian hydrogen corona, **Earth and Planetary Physics**, 4(1), 38-44, 2020.
- 5 Jing Wang, **Xiaojun Xu (Corr*)**, Jiang Yu, and Yudong Ye, South-north asymmetry of proton density distribution in the Martian magnetosheath, **Earth and Planetary Physics**, 4(1), 32-37, 2020.

- 6 Qing Chang, **Xiaojun Xu (Corr*)**, Qi Xu, Jun Zhong, Jiaying Xu, Jing Wang, Tielong Zhang, Multiple-point modeling the Parker spiral configuration of the solar wind magnetic field at the solar maximum of Solar Cycle 24, **Astrophys. J.**, 884, 102, 2019.
- 7 **Xiaojun Xu**, Qi Xu, Qing Chang, Jiaying Xu , Jing Wang, Yi Wang, Pingbing Zuo, and Vassilis Angelopoulos, ARTEMIS Observations of Well-structured Lunar Wake in Subsonic Plasma Flow, **Astrophys. J.**, 881, 76, 2019.
- 8 Qi Xu , **Xiaojun Xu (Corr*)**, Qing Chang, Zhaojin Rong, Jing Wang, Jiaying Xu , and Tielong Zhang, Observations of the Venus Dramatic Response to an Extremely Strong Interplanetary Coronal Mass Ejection, **Astrophys. J.** 876, 84, 2019.
- 9 Qing Chang, **Xiaojun Xu (Corr*)**, Tielong Zhang, Lihui Chai, Yong Wei, Magnetic field near Venus: comparison between 24 and previous solar cycles, **Astrophys. J.** 867:129, 2018.
- 10 **Xiaojun Xu**, Qing Chang, Qi Xu, Vassilis Angelopoulos, Yi Wang, Pingbing Zuo, The energetic particle environment of the lunar nearside: energetic ions from Earth's bow shock, **Astrophys. J.**, 863:80, 2018.
- 11 **Xiaojun Xu**, Vassilis Angelopoulos, Yi Wang, Pingbing Zuo, Hon-Cheng Wong, and Jun Cui, The Energetic Particle Environment of the Lunar Nearside: SEP Influence, **Astrophys. J.**, 849, 151-157, 2017.
- 12 **Xiaojun Xu**, Hon-Cheng Wong, Yonghui Ma, Yi Wang, Pingbing Zuo, Meng Zhou, Ye Pang, and Xiaohua Deng, Anomalous high rate refilling in the near lunar wake caused by the Earth's bow shock, **J. Geophys. Res. Space Physics**, 122, 9102-9114, 2017. (featured paper)
- 13 **Xiaojun Xu**, Hon-Cheng Wong, Yonghui Ma, Yi Wang, Pingbing Zuo, Meng Zhou and Xiaohua Deng, Observations of current sheets associated with solar wind reconnection exhausts passing through the near lunar wake, **J. Geophys. Res.**, 120, 9246–9255, 2015.
- 14 **Xiaojun Xu**, Hon-Cheng Wong, Yonghui Ma, Yi Wang, Meng Zhou, Pingbing Zuo, Fengsi Wei, Xueshang Feng and Xiaohua Deng, Evidence for newly initiated reconnection in the solar wind at 1 AU, **Astrophys. J.**, 809, 5-11, 2015.
- 15 **Xu Xiaojun**, Yi Wang, Fengsi Wei, Xueshang Feng, Xiaohua Deng, Yonghui Ma, Meng Zhou, Ye Pang & Hon-Cheng Wong. Direct evidence for kinetic effects associated with solar wind reconnection, **Scientific Reports**, vol 5, 8080, 2015.
- 16 Yu, W. Y., **Xu, X. J (corr*)**, Deng, X. H. Comparative statistical study between MCs and Non-cloud-like ICMEs during solar cycles 23 near 1 AU, **Chinese J. Geophys.** 57(3), doi:10.6038/cjg20140301, 2014.
- 17 **Xu Xiaojun**, Wei Fengsi, Feng Xueshang. Characteristics of reconnection diffusion region in the solar wind. **Chin. J. Space Sci.**, 32(6): 778-784, 2012.
- 18 Xu, X., F. Wei, and X. Feng, Observations of reconnection exhausts associated with large-scale current sheets within a complex ICME at 1 AU, **J. Geophys. Res.**, 116, A05105, doi:10.1029/2010JA016159, 2011.

研究專案

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|---|------------------------|--------------|-------|-------------------|
| 1 | 行星際磁場重聯動力學過程研究 | 國家自然科學基金青年基金 | 項目負責人 | 2013. 01–2015. 12 |
| 2 | 月球尾跡與太陽風中小尺度等離子體相互作用研究 | 國家自然科學基金地區專案 | 項目負責人 | 2016. 01–2019. 12 |

3	金星火星誘發磁層比較 研究	澳門科技發展基金	項目負責人	2016.07-2019.07
4	月球高能粒子環境研究 與地球弓激波高能粒子 到達月球預報	澳門科技發展基金	項目負責人	2019.07-2022.07