

教學人員簡介

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職稱：助理教授

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學歷

2009.09-2014.06	中國科學院 國家天文臺	天體物理	博士學位
2005.09-2009.06	吉林大學	地理信息系統	學士

教學領域

地球科學	遙感與地理信息系統	地質學	行星遙感
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研究領域

比較行星學	行星地質學	火山作用與熱演化
地形地貌	行星遙感	

工作經歷

2018.01-至今	澳門科技大學	月球與行星科學國家重點實驗室	助理教授
2017.09-2017.12	加州大學洛杉磯分校	地球、行星與空間科學研究所	访问學者
2015.01-2017.12	澳門科技大學	太空科學研究所	博士後研究員

學術成果

期刊文章：

1. Huang, Q., Zhao, J., Wang, X., Wang, T., Zhang, F., Qiao, L., Chen, Y., Qiu, D., Yang, Y. and Xiao, L. (2020). A large long-lived central-vent volcano in the Gardner region: Implications for the volcanic history of the nearside of the Moon. *Earth and Planetary Science Letters*, 542, 116301.
2. Feng Zhang, James W. Head, Christian Wohler, Roberto Bugiolacchi, Lionel Wilson, Alexander T. Basilevsky, Arne Grumpe, and Yongliao, Zou, 2020. Ring Moat Dome Structures (RMDs) in the Lunar Maria: Statistical, Compositional, and Morphological Characterization and Assessment of Theories of Origin. *Journal of Geophysical Research: Planets*, 125, e2019JE005967. <https://doi.org/10.1029/2019JE005967>
3. Lionel Wilson, James Head, and Feng Zhang, 2019. A theoretical model for the formation of Ring Moat Dome Structures: Products of second boiling in lunar basaltic lava flows. *Journal of Volcanology and Geothermal Research*, 374, 1, 160-180.
4. Y.N. Dang, L. Xiao, Y. Xu, F. Zhang, J. Huang, J. Wang, J.N. Zhao, G. Komatsu, and Z. Yue, 2018. The Polygonal Surface Structures in the Dalangtan Playa, Qaidam Basin, NW China: Controlling Factors for their Formation and Implications for Analogous Martian Landforms. *Journal of Geophysical Research. Planets*, 123(7), 1910-1933.
5. F. Zhang, M.-H. Zhu, R. Bugiolacchi, Q. Huang, G.R. Osinski, L. Xiao, and Y.L. Zou, 2018. Diversity of basaltic lunar volcanism associated with buried impact structures: Implications for intrusive and extrusive events. *Icarus*, 307, 216-234.
6. Feng Zhang, James W. Head, Alexander T. Bazilevskiy, Roberto Bugiolacchi, Goro Komatsu, Lionel Wilson, Wenzhe Fa, and Meng-Hua Zhu, 2017. Newly Discovered Ring-Moat Dome Structures in the Lunar Maria: Possible Origins and Implications. *Geophysical Research Letters*, 44, 9216-9224.

7. F. Zhang, M.-H. Zhu, Y.L. Zou, 2016. Late stage Imbrium volcanism on the Moon: Evidence for two source regions and implications for the thermal history of Mare Imbrium. *Earth and Planetary Science Letters*, 445, 13-27.
8. F. Zhang, Y.L. Zou, Y.C. Zheng, X.H. Fu, Y.C. Zhu, 2014. Lunar mare basalts in the Aristarchus region: Implications for the stratigraphic sequence from Clementine UVVIS data. *Icarus*, 227, 132-151.
9. Feng Zhang, Yong-Liao Zou, Yong-Chun Zheng, Xiao-Hui Fu, Yong-Chao Zhu, 2014. Mapping and Compositional Analysis of Mare Basalts in the Aristarchus Region of the Moon Using Clementine Data. *Research in Astronomy and Astrophysics*, 14(1), 113-128.
10. Zhang Feng, Zou Yongliao, Zheng Yongchun, Fu Xiaohui, 2012. A new automated approach to detecting and extracting lunar craters and its application. *Earth Science Frontiers*, 19 (6): 118-127.
11. Y.C. Zheng, K.T. Tsang, K.L. Chan, Y.L. Zou, F. Zhang, Z.Y. Ouyang, 2012. First microwave map of the Moon with Chang'E-1 data: The role of local time in global imaging. *Icarus* 219, 194-210.
12. Ban, C., Zheng, Y., Zhu, Y., Zhang, F., Xu, L., and Zou, Y., 2014. Research on the inversion of elemental abundances from Chang'E-2 X-ray spectrometry data. *Chinese Journal of Geochemistry*, 33(3), 289-299.
13. 張鋒, 朱永超, 2014. 如何捕獲近地小行星——NASA小行星捕獲計劃. *天文愛好者* 2: 42-47.
14. 鄭永春, 張鋒, 付曉輝, 鄒永廖, 歐陽自遠, 2011. 月球上的水: 探測歷程與新的證據. *地質學報* 85 (7) : 1069-1078.
15. 付曉輝, 張鋒, 2013. 月球與行星科學的先驅-舒梅克. *天文愛好者* 11: 82-83.
16. 連懿, 陳聖波, 孟治國, 張鋒, 張瑩, 2014. 基於嫦娥二號衛星微波輻射計亮溫數據反演月壤介電常數. *地球科學: 中國地質大學學報*. 11:1644-1650.
17. 班超, 鄭永春, 張鋒, 朱永超, 鄒永廖, 2014. 月球風暴洋地區元素豐度研究: “嫦娥二號”X射線譜儀探測數據分析. *地學前緣* 21 (6) : 62-73.

專著章節：

會議論文：

1. Basilevsky, A. T., Zhang, F., Wöhler, C., Bugiolacchi, R., Head, J. W., and Wilson, L. LUNAR RING-MOAT DOME STRUCTURES AND THEIR RELATIONSHIPS WITH SMALL IMPACT CRATERS. 50th Lunar and Planetary Science Conference, The Woodlands, Texas, 2019.3.18-2019.3.22.
2. F. Zhang, C. Wohler, J.W. Head, R. Bugiolacchi, L. Wilson, A. Grumpe, Ring-Moat Dome Structures in the Lunar Maria: enigmatic features as potential candidate for future explorations, CNSA (LESEC) - ESA Lunar Science Workshop 2018, AMSTERDAM, THE NETHERLANDS, 2018.7.16-2018.7.18.
3. F. Zhang, C. Wohler, J.W. Head, R. Bugiolacchi, L. Wilson, A. Grumpe, Ring-Moat Dome Structures in the Lunar Maria: Morphologic Diversity and Comparison with Irregular Mare Patches, 15th Annual Meeting of the Asia Oceania Geosciences Society, Hawaii Convention Center, Honolulu, Hawaii, 2018.6.3-2018.6.8.
4. F. Zhang, C. Wohler, J.W. Head, R. Bugiolacchi, L. Wilson, A. Grumpe, Ring-Moat Dome Structures (RMDs) in the Lunar Maria: Further Statistical and Morphological Characterization, 49th Lunar and Planetary Science Conference, The Woodlands, Texas, 2018.3.19-2018.3.23.
5. F. Zhang, Y.L. Zou, Y.C. Zheng, X.H. Fu, 2012. Mapping Homogeneous Mare Basalt Units in The Aristarchus Quadrangle Using Clementine Spectral Parameters. 43rd Lunar and Planetary Science Conference, Abstract 1133.

6. F. Zhang, Y.L. Zou, Y.C. Zheng, X.H. Fu, Y.C. Zhu, 2013. Automated Detection and Extraction of Lunar Impact Craters from Digital Topography Data. 44th Lunar and Planetary Science Conference, Abstract 1446.
7. F. Zhang, Y.L. Zou, Y.C. Zheng, X.H. Fu, Y.C. Zhu, 2014. Spectroscopic Investigations of Mare Basalts within Imbrium Basin Using M3 Data. 45th Lunar and Planetary Science Conference, Abstract 1586.
8. Xiaohui Fu, Yongliao Zou, Yongchun Zheng, Feng Zhang, 2012. EFFECTS OF SPACE WEATHERING ON DIAGNOSTIC SPECTRAL FEATURES: RESULTS FROM HE+ IRRADIATION EXPERIMENTS. 43rd Lunar and Planetary Science Conference, Abstract.
9. F.Zhang, M.H. Zhu, 2015. Remote sensing observations of late stage Imbrium volcanism on the Moon: the follow-up of the impact-induced volcanism? AOGS,12.

研究項目

1. 澳門科學技術發展基金項目，構造與火山相互作用機制研究：對月球物質成分分佈和熱演化的啟示，0049/20, 起止時間：2021.1-2023.12。項目負責人（PI）
2. 國家自然科學基金項目，嫦娥四號著陸巡視區深部物質研究，11941001，起止時間：2019.8-2022.12。參與
3. 國家自然科學基金青年項目，月海環形穹隆構造特征與成因機制研究，11903090，起止時間：2020.01-2022.12。項目負責人（PI）
4. 澳門科學技術發展基金項目，嫦娥四號探測數據的科學分析，0042/2018/A2，起止時間：2018.12-2020.12。參與
5. 澳門科學技術發展基金項目，基於多源遙感資料集成的火星高精度形貌製圖與表面礦物反演研究,131/2017/A3，起止時間：2018.5-2021.5。合作負責人（Co-PI）
6. 國家自然科學基金重大項目，月球環境及月基對地觀測基地選址研究，41590851，起止時間：2016.01-2020.12。參與
7. 澳門科學技術發展基金項目，月表撞擊坑成坑機制數值模擬與應用，075/2013/A2，起止時間：2015.01-2017.12。參與
8. 國家高技術研究發展863計畫，繞月探測工程科學資料應用與研究重點專案課題，月球數位地質圖編制與月球演化模型綜合研究，2009AA122201，起止時間：2009.01-2011.12。參與

專業資格認證及獎項

學術機構及社會任職