

教學人員簡介

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職稱：博士後研究員

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學歷

2017.09-2019.03 聯合培養博士，地球物理學，瑞士蘇黎世聯邦理工學院（ETH）；

2013.09-2019.06 工學博士，地球探測與信息技術，中國地質大學（武漢）；

2009.09-2013.06 理學學士，應用地球物理學，中國地質大學（武漢）。

研究領域

行星磁學；

岩石磁學基礎理論與應用研究；

3D打印岩石樣品的磁學響應。

工作經歷

2020.06-至今 博士後，澳門科技大學，月球與行星科學國家重點實驗室

2019.09-2020.01 訪問學者，中科院地質與地球物理研究所，岩石圈演化國家重點實驗室

研究項目

2020.06-至今 澳門特別行政區科學技術發展基金，博士後(File No. 0002/2019/APD)

專業資格認證及獎項

2017-2019 中國政府出國留學獎學金 (CSC No. 201706410009)

學術機構及社會任職

2020- 歐洲地球物理學會會員 (EGU)

2016- 美國地球物理學會會員 (AGU)

學術成果

期刊文章：

[1] Hirt, A. M. and **Liu, P.**, 2020. Estimating the Concentration of Superparamagnetic Particles in Geological, Biological, and Synthetic Materials. *Frontiers in Earth Science* . (Under review)

[2] **Liu, P.**, Gervasoni, S., Madonna, C., Gu, H., Coppo, A., Pané, S., Hirt, A. M., 2020. 3D-Printed Analog Rocks: New Perspectives for Understanding the Relationship Between Deformation and Magnetic Anisotropy. *Earth and Planetary Science Letters* . 539. doi:10.1016/j.epsl.2020.116241.

[3] **Liu, P.**, Hirt, A. M., Schöler, D., Uebe, R., Zhu, P., Liu, T., Zhang, H., 2019. Numerical unmixing of weakly and strongly magnetic minerals: examples with synthetic mixtures of magnetite and hematite. *Geophysical Journal International* . 217: 280-287. doi: 10.1093/gji/ggz022.

[4] **Liu, P.**, Liu, T., Zhu, P., Yang, Y, Zhou, Q., Zhang, H., Chen, G., 2017. Depth estimation for magnetic/gravity anomaly using model. *Pure and Applied Geophysics* . 174:1729-1742. doi: 10.1007/s00024-017-1509-y.

會議論文：

[1] **Liu, P.** and Hirt, A. M. Behavior of magnetic inclination shallowing based on 3D printed structure samples. The 5th Beijing Earth and Planetary Interiors Symposium. (Beijing, 24-27 August 2019)

[2] Hirt, A. M., **Liu, P.**, Madonna, C., Gervasoni, S., Gu, H., Pané, S.. 3-D printed analog rocks: A new approach to examine inclination flattening. (Vienna, 7–12 April 2019)

[3] Hirt, A. M., **Liu, P.**, Madonna, C., Gervasoni, S. G., Gu, H., Pané, S. 3D-Printed Analog Rocks: New Perspectives for Understanding the Relationship Between Deformation and Magnetic Anisotropy. AGU Fall Meeting. (Washington, D.C., 10-14 December 2018)

[4] **Liu, P.** and Hirt, A. M. Discriminating individual ferromagnetic minerals in synthetic mixtures of magnetite and hematite. 16th Castle Meeting (New Trends on Paleo, Rock and Environmental Magnetism). (Poland, 10-16 June 2018)

[5] **Liu, P.**, Liu, T. and Zhu, P. A research on the application of Tilt-depth method. AGU Fall Meeting. (San Francisco, 12-16 December 2016)

[6] **Liu, P.**, Liu, T., Yang, Y. and Zhang, H., 2015. Tilt-depth method via second order derivative of gravity field. The 2nd Annual Meeting of Chinese Geosciences Union (Beijing, 10-14 October 2015)