Curtin University

Qiang Jiang

Work Address: Bld. 314, Department of Applied Geology, Western Australia School of Mines, Curtin University, Perth, WA 6845, Australia.

Email: qiang.jiang1@postgrad.curtin.edu.au

Brief Summary

My research focuses on applying geochronology and geochemistry to study oceanic magmatism in the subantarctic region. High-precision 39Ar/40Ar data will be used to establish robust age constraints on the timing of magmatism on the Kerguelen large igneous province and the Macquarie Ridge Complex. Major, trace elements and Sr, Nd, Pb, Os and He isotopes will be used to decipher the origin of the igneous rocks.

Education: BSc and MSc at China University of Petroleum, Beijing

Research interests: 39Ar/40Ar geochronology, igneous geochemistry, large igneous province

Thesis title: Geochronology and geochemistry study of subantarctic oceanic magmatism: implications for plume-lithosphere interaction and multi-stage plate-plate interaction

Supervisors: A/Prof. Fred Jourdan, Dr. Hugo Olierook, Dr. Renaud Merle, A/Prof. Xuan-Ce Wang

Publications:

Jiang Q., Qiu N., Zhu C., 2017. Heat flow study of the Emeishan large igneous province region: Implications for the geodynamics of the Emeishan mantle plume. Tectonophysics, Under Review

Zhu C., Hu S., Qiu N., Jiang Q., Rao S., Liu S., 2016. Geothermal constraints on Emeishan mantle plume magmatism: paleotemperature reconstruction of the Sichuan Basin, SW China. International Journal of Earth Sciences, doi:10.1007/s00531-016-1404-2.

Jiang Q., Zhu C, Qiu N, Cao H., 2015. Paleo-heat flow and thermal evolution of the lower Cambrian Qiongzhusi shale in the Southern Sichuan Basin, SW China. Natural Gas Geoscience 26(8): 1563-1570.

Conferences: 2016 EGU (Vienna), 2015 CGU(Beijing)