Department of Earth Sciences

I work on a diverse set of igneous rocks from the continental crust that range from ultramafic to felsic. Using whole rock geochemistry, mineral chemistry, radiogenic isotopes and U-Pb age dating, my group and I investigate the origin and development of the large igneous provinces, petrogenesis of Venusian basalt, Pan-African Orogeny, and break-up of Gondwana.

Techniques used in study

Wave length dispersive X-ray fluorescence; Laser ablation inductively coupled plasma mass spectrometry; Thermal ionization mass spectrometry; Electron probe micro analyzer.

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Background:

PhD in Earth Science, The University of Hong Kong, Hong Kong SAR

Funding:

Ministry of Science and Technology National Taiwan Normal University



Evolution of continental crust

Formation of the Neoproterozoic granites of the Seychelles microcontinent:



Publications

- Shellnutt, J.G., Nguyen, T.D., Lee, H.-Y., 2020. Resolving the origin of the Seychelles microcontinent: insight from zircon geochronology and Hf isotopes. Precambrian Research. Precambrian Research 343, 105725.
- Shellnutt, J.G., Pham, T.T., Denyszyn, S.W., Yeh, M.-W., Tran, T.A., 2020. Magmatic duration of the Emeishan large igneous province: insight from northern Vietnam. Geology 48, 457-461.
- Shellnutt, J.G., 2019. The curious case of the rock at Venera 8. Icarus 321, 50-61,



COLLEGE OF SCIENCE, NATIONAL TAIWAN NORMAL UNIVERSITY