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Research interests 研究領域:

Geochemistry 地球化學, Zircon Geochronology 鋯石定年學,

West Asian Tectonics 西亞大地構造

Education 學歷

2013: Ph.D., Department of Geosciences, National Taiwan University, Taiwan

國立台灣大學地質科學系博士

2004: M.S., Department of Geosciences, National Taiwan University, Taiwan

國立台灣大學地質科學系碩士

2002: B.S., Department of Earth Sciences, National Cheng Kung University, Taiwan

國立成功大學地球科學系學士

Experience 經歷

2015.08 – 2019.07: Postdoctoral fellow, Institute of Earth Sciences, Academia Sinica

中央研究院地球科學研究所 博士後研究

2014-2015: Postdoctoral fellow, Department of Earth Sciences, National Taiwan Normal University, Taiwan

國立臺灣師範大學地球科學系博士後

2013-2014: Postdoctoral fellow, Department of Physics and Earth Sciences, University of the Ryukyus, Japan

日本琉球大學物質地球科學系博士後

2013(Apr-Jun): Postdoctoral fellow, Department of Geosciences, National Taiwan University, Taiwan

國立臺灣大學地質科學系博士後

2005-2008: Research assistant, Department of Geosciences, National Taiwan University, Taiwan

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Publication 期刊論文

1. Reznitskiia, L. Z.*, Kovach V. P., Barash I. G., Plotkina Yu. V., Wang K.-L., **Chiu H.-Y.** (2018). Age and Provenance Areas of Terrigenous Rocks of the Dzhida Terrane: Results of U—Th—Pb (LA-ICP-MS) Geochronological Study of Detrital Zircons, *STRATIGRAPHY AND GEOLOGICAL CORRELATION*, 26(5), 489-513. doi: 10.1134/S0869593818050052
2. **Chiu, H.-Y.**, Chung, S.-L., Zarrinkoub, M.H., Melkonyan, R., Pang, K.-N., Lee, H.-Y., Wang, K.-L.,

- Mohammadi, S.S., Khatib, M.M. (2017). Zircon Hf isotopic constraints on magmatic and tectonic evolution in Iran: Implications for crustal growth in the Tethyan orogenic belt. *Journal of Asian Earth Sciences*, 145, Part B, 652-669, doi:10.1016/j.jseas.2017.06.011
3. Pang, K.-N., Chung, S.-L., Zarrinkoub, M.H., Li, X.-H., Lee, H.-Y., Lin, T.-H., **Chiu, H.-Y.** (2016). New age and geochemical constraints on the origin of Quaternary adakite-like lavas in the Arabia-Eurasia collision zone. *Lithos*, 264, 348-359.
 4. Shellnutt, J.G., Lee, T.-Y., **Chiu, H.-Y.**, Lee, Y.-H., Wong, J. (2015). Evidence of Middle Jurassic magmatism within the Seychelles microcontinent: Implications for the breakup of Gondwana. *Geophysical Research Letters*, 42(23), 10207-10215, doi:10.1002/2015GL066036.
 5. Shellnutt, J.G., Usuki, T., Kennedy, A.K., **Chiu, H.-Y.** (2015). A lower crust origin of some flood basalts of the Emeishan large igneous province, SW China. *Journal of Asian Earth Sciences*, 109, 74-85.
 6. Pang, K.-N., Chung, S.-L., Zarrinkoub, M.H., **Chiu, H.-Y.**, Li, X.-H. (2014). On the magmatic record of the Makran arc, southeastern Iran: Insights from zircon U-Pb geochronology and bulk-rock geochemistry. *Geochemistry, Geophysics, Geosystems*, 15(6), 2151-2169.
 7. Pang, K.-N., Chung, S.-L., Zarrinkoub, M.H., Khatib, M.M., Mohammadi, S.S., **Chiu, H.-Y.**, Chu, C.-H., Lee, H.-Y., Lo, C.-H. (2013). Eocene-Oligocene post-collisional magmatism in the Lut-Sistan region, eastern Iran: Magma genesis and tectonic implications. *Lithos*, 180-181, 234-251.
 8. Lin, T.-H., Chung, S.-L., Kumar, A., Wu, F.-Y., **Chiu, H.-Y.**, Lin, I.-J. (2013). Linking a prolonged Neo-Tethyan magmatic arc in South Asia: Zircon U-Pb and Hf isotopic constraints from the Lohit Batholith, NE India. *Terra Nova*, 25(6), 453-458.
 9. **Chiu, H.-Y.**, Chung, S.-L., Zarrinkoub, M.H., Mohammadi, S.S., Khatib, M.M., Iizuka, Y. (2013). Zircon U-Pb age constraints from Iran on the magmatic evolution related to Neotethyan subduction and Zagros orogeny. *Lithos*, 162-163, 70-87.
 10. Usuki, T., Lan, C.-Y., Wang, K.-L., **Chiu, H.-Y.** (2013). Linking the Indochina block and Gondwana during the Early Paleozoic: Evidence from U-Pb ages and Hf isotopes of detrital zircons. *Tectonophysics*, 586, 145-159.
 11. Kovach, V., Salnikova, E., Wang, K.-L., Jahn, B.-M., **Chiu, H.-Y.**, Reznitskiy, L., Kotov, A., Iizuka, Y., Chung, S.-L. (2013). Zircon ages and Hf isotopic constraints on sources of clastic metasediments of the Slyudyansky high-grade complex, southeastern Siberia: Implication for continental growth and evolution of the Central Asian Orogenic Belt. *Journal of Asian Earth Sciences*, 62, 18-36.
 12. Zarrinkoub, M.H., Pang, K.-N., Chung, S.-L., Khatib, M.M., Mohammadi, S.S., **Chiu, H.-Y.**, Lee, H.-Y. (2012). Zircon U-Pb ages and geochemical constraints on the origin of the Birjand ophiolite, eastern Iran. *Lithos*, 154, 392-405.
 13. Lin, T.-H., Chung, S.-L., **Chiu, H.-Y.**, Wu, F.-Y., Yeh, M.-W., Searle, M.P., Iizuka, Y. (2012). Zircon U-Pb and Hf isotope constraints from the Ailao Shan-Red River shear zone on the tectonic and crustal evolution of southwestern China. *Chemical Geology*, 291, 23-37.
 14. Zhang, R.Y., Jahn, B.-M., Liou, J.G., Yang, J.S., **Chiu, H.-Y.**, Chung, S.-L., Li, T.-F., Lo, C.-H. (2010). Origin and tectonic implication of an UHP metamorphic mafic-ultramafic complex from the Sulu UHP terrane, eastern China: Evidence from petrological and geochemical studies of CCD-Main Hole core samples. *Chemical Geology*, 276(1-2), 69-87.

15. **Chiu, H.-Y.**, Chung, S.-L., Wu, F.-Y., Liu, D., Liang, Y.-H., Lin, I.-J., Iizuka, Y., Xie, L.-W., Wang, Y., Chu, M.-F. (2009). Zircon U-Pb and Hf isotopic constraints from eastern Transhimalayan batholiths on the precollisional magmatic and tectonic evolution in southern Tibet. *Tectonophysics*, 477(1-2), 3-19.
16. Shen, C.-C., **Chiu, H.-Y.**, Chiang, H.-W., Chu, M.-F., Wei, K.-Y., Steinke, S., Chen, M.-T., Lin, Y.-S., Lo, L. (2007). High precision measurements of Mg/Ca and Sr/Ca ratios in carbonates by cold plasma inductively coupled plasma quadrupole mass spectrometry. *Chemical Geology*, 236(3-4), 339-349.
17. Steinke, S., **Chiu, H.-Y.**, Yu, P.-S., Shen, C.-C., Erlenkeuser, H., Chen, M.-T. (2006). On the influence of sea level and monsoon climate on the southern South China Sea freshwater budget over the past 22,000 years. *Quaternary Science Reviews*, 25(13-14), 1475-1488.
18. Steinke, S., **Chiu, H.-Y.**, Yu, P.-S., Shen, C.-C., Löwemark, L., Mii, H.-S., Chen, M.-T. (2005). Mg/Ca ratios of two *Globigerinoides ruber* (white) morphotypes: implications for reconstructing past tropical/subtropical surface water conditions. *Geochemistry, Geophysics, Geosystems*, 6(11), Q11005. doi:10.1029/2005GC000926.

Conference Abstract 研討會摘要

1. **Chiu, H.-Y.**, Chung, S.-L., Zarrinkoub, M.H., Lee, H.-Y., Pang, K.-N., Mohammadi, S.S., Khatib, M.M., Wang, K.-L. (2017). Zircon Hf isotopic constraints on the Jurassic-Oligocene magmatic rocks in the Lut-Sistan region, eastern Iran: Implications for the magmatic evolution. JpGU-AGU Joint Meeting 2017, Chiba, Japan, Abstract C003804.
2. **Chiu, H.-Y.**, Chung, S.-L., Shengelia, D.M., Okrostsvaridze, A., Javakhishvili, Z., Lee, H.-Y., Wang, K.-L. (2016). Discovery of ANS-derived ribbon continent in Georgian Caucasus: Zircon Hf isotopic constraints and implications for the Cimmerian orogeny. Goldschmidt Conference 2016, Yokohama, Japan, Abstract P. 483.
3. **Chiu, H.-Y.**, Chung, S.-L., Shengelia, D.M., Javakhishvili, Z., Okrostsvaridze, A., Wu, F.-Y., Lee, H.-Y., Iizuka, Y. (2015). Zircon Hf isotopic constraints on the petrogenesis of the Dzirula complex in Georgian Caucasus: the existence of Arabian micro-continents. Goldschmidt Conference 2015, Prague, Czech, Abstract P. 540.
4. Pang, K.-N., Chung, S.-L., Zarrinkoub, M. H., **Chiu, H.-Y.**, Li, X.-H. (2014). Age and geochemical constraints on the Makran arc magmatism, Iran. EGU General Assembly 2014, Conference Abstracts, Vol. 16, p. 4668.
5. **Chiu, H.-Y.**, Chung, S.-L., Zarrinkoub, M.H., Lee, H.-Y., Pang, K.-N., Mohammadi, S.S., Khatib, M.M. (2013). Zircon Hf isotopic constraints on the magmatic evolution in Iran: Implications of the Phanerozoic continental growth. AGU Fall Meeting 2013, Abstract V23A-2792.
6. **Chiu, H.-Y.**, Chung, S.-L., Zarrinkoub, M.H., Lin, I.-J., Yang, H.-M., Lo, C.-H., Lee, H.-Y., Pang, K.-N., Mohammadi, S.S., Khatib, M.M. (2011). Zircon U-Pb and Hf isotopic constraints on the magmatic and tectonic evolution in Iran. Goldschmidt Conference 2011, Prague, Czech, Abstract P. 668. (*Mineralogical Magazine*, 75, 668)
7. Lin, Y.-C., Chung, S.-L., Karakhanyan, A., Jrbashyan, R., Navasardyan, G., Galoyan, G., **Chiu, H.-Y.**, Lin, I.-J., Chu, C.-H., Lee, H.-Y. (2011). Geochemical and Sr-Nd isotopic constraints on the petrogenesis of pre- to post-collisional volcanic rocks in Armenia. EGU General Assembly 2011, Geophysical Research

8. **Chiu, H.-Y.**, Zarrinkoub, M.H., Chung, S.-L., Lin, I.-J., Yang, H.-M., Lo, C.-H., Mohammadi, S.S., Khatib, M.M. (2010). Zircon U-Pb age and geochemical constraints on the magmatic and tectonic evolution in Iran. In *Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia*, Ankara, Turkey, Abstract P. 31.
9. Zarrinkoub, M.H., Chung, S.-L., **Chiu, H.-Y.**, Mohammadi, S.S., Khatib, M.M., Lin, I.-J. (2010). Zircon U-Pb age and geochemical constraints from the northern Sistan suture zone on the Neotethyan magmatic and tectonic evolution in eastern Iran. *GSA Special Meeting, Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia*, Paper No. 25-5.
10. **Chiu, H.-Y.**, Zarrinkoub, M.H., Chung, S.-L., Lin, I.-J., Yang, H.-M., Lo, C.-H., Mohammadi, S.S., Khatib, M.M. (2010). Geochronological and geochemical constraints on the magmatic and tectonic evolution in Iran. *Eos Trans. AGU*, 91(26), West. Pac. Geophys. Meet. Suppl., Abstract V53B-02.
11. Lin, Y.-C., Chung, S.-L., Karakhanyan, A., Jrbashyan, R., Navasardyan, G., Galoyan, G., **Chiu, H.-Y.**, Lin, I.-J., Chu, C.-H., Lee, H.-Y. (2010). Geochemical constraints on the petrogenesis of Eocene to Quaternary volcanic rocks in Armenia. *Eos Trans. AGU*, 91(26), West. Pac. Geophys. Meet. Suppl., Abstract V51A-077.
12. Usuki, T., Lan, C.-Y., Wang, K.-L., Tran, T.A., Yeh, M.-W., **Chiu, H.-Y.**, Chung, S.-L. (2010). U-Pb and Hf isotope evidence for Hadean to early-Archean crustal components in detrital zircons from the central Vietnam. *Eos Trans. AGU*, 91(26), West. Pac. Geophys. Meet. Suppl., Abstract V41A-067.
13. **Chiu, H.-Y.**, Chung, S.-L., Shengelia, D.M., Wu, F.-Y., Chen, W.-P., Huang, B.-S., Javakhishvili, Z., Xie, L.-W. (2009). Zircon U-Pb age and Hf isotopic constraints on the late Paleozoic magmatism and crustal evolution in the Caucasus. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract T51C-1545.
14. **Chiu, H.-Y.**, Chung, S.-L., Liang, Y.-H., Lin, I.-J., Liu, D., Wang, Y. (2007). Zircon U-Pb geochronology of the eastern Transhimalayan batholiths, SE Tibet. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract T31B-0469.
15. Hung, C.-H., Chung, S.-L., Cole, R., Iizuka, Y., **Chiu, H.-Y.**, Chu, C.-H., Gallet, S. (2007). Zircon U-Pb ages for the McKinley Sequence and associated plutons, Central Alaska Range. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract T11B-0574.