



Kenshi Suga, formerly Maki Postdoctoral Fellow

(2014-05-01 ~ 2017-07-31)

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Specialty: Geochemistry, Petrology, Geochronology

[Work experience]

- 2014-Present Postdoctoral Fellow, Institute of Earth Sciences, Academia Sinica, Taiwan
- 2013-2014 Postdoctoral Fellow, Center for Geo-Environmental Science, Graduate School of Engineering and Resource Science, Akita University, Japan
- 2012-2013 Member, Geofluids: Nature and dynamics of fluids in subduction zones, Grant-in Aid for Scientific Research on Innovative Areas (Research in a Proposed Research Area), Ministry of Education, Culture, Sports and Technology (MEXT), Japan
- 2010-2013 Postdoctoral Fellow, Department of Geology and Mineralogy, Graduate School of Science, Kyoto University, Japan
- 2007-2010 Postdoctoral Fellow, Institute of Earth Sciences, Academia Sinica, Taiwan
- 2006-2007 Research student, Graduate School of Science and Technology, Kumamoto University, Japan
- 2001-2006 Teaching Assistant, Graduate School of Science and Technology, Kumamoto University, Japan

[Education]

- 2006-2003 Kumamoto University, Japan, D.Sc. (Metamorphic Petrology)
- 2003-2001 Kumamoto University, Japan, M.Sc. (Metamorphic Petrology)
- 2001-1997 Kumamoto University, Japan, B.Sc. (Metamorphic Petrology)

[Publications]

I. SCI Journals

2017

1. Suga, K., Yui, T. F., Miyazaki, K., Sakata, S., Hirata, T., Fukuyama, M., 2017. A revisit to the Higo terrane, Kyushu, Japan: the eastern extension of the North China-South China collision zone. *Journal of Asian Earth Sciences*, doi: 10.1016/j.jseaes.2017.04.006.
2. Komiya, T., Yamamoto, S., Aoki, S., Koshida, K., Shimojo, M., Sawaki, Y., Aoki, K., Sakata, S., Yokoyama,

- T. D., Maki, K., Ishikawa, A., Hirata, T. and Collerson, K. D., 2017. A prolonged granitoid formation in Saglek Block, Labrador: zonal growth and crustal reworking of continental crust in the Eoarchean. *Geoscience Frontiers*, 8, 355-385.
3. Shellnutt, J. G., Yeh, M. W., Suga, K., Lee, T. Y., Lee, H. Y. and Lin, T. H., 2017. Temporal and structural evolution of the Early Palæogene rocks of the Seychelles microcontinent. *Scientific Reports*, 7, 179, doi:10.1038/s41598-017-00248-y.
4. Yui, T. F., Chu, H. T., Suga, K., Lan, C. Y., Chung, S. H., Wang, K. L. and Grove, M., 2017. Subduction-related 200 Ma Talun metagranite, SE Taiwan: an age constraint for palaeo-Pacific plate subduction beneath South China Block during the Mesozoic. *International Geology Review*, 59, 333-346.

2016

5. Suga, K., Yui, T. F., Shellnutt, J. G., Wu, T. W., Mori, Y., Miyazaki, K. and Jahn, B. M., 2016. Nd-Sr isotopic constraint to the formation of metatexite and diatexite migmatites, Higo metamorphic terrane, central Kyushu, Japan. *International Geology Review*, 58, 405-423.
6. Shimojo, M., Yamamoto, S., Sakata, S., Yokoyama, T. D., Maki, K., Sawaki, Y., Ishikawa, A. Aoki, K., Aoki, S., Koshida, K., Tashiro, T., Hirata, T., Collerson, K. D. and Komiya, T., 2016. Occurrence and geochronology of the Eoarchean, ~3.9 Ga, Iqaluk Gneiss in the Saglek Block, northern Labrador, Canada: Evidence for the oldest supracrustal rocks in the world. *Precambrian Research*, 278, 218-243.

2015

7. Suga, K., Hirata, T., Fukuyama, M. and Ogasawara, M., 2015. Using a gem garnet GA1 as a possible reference material for *in situ* microanalysis of garnet. *Geochemical Journal*, 49, 421-424.
8. Orozbaev, R., Hirajima, T., Bakirov, A., Takasu, A., Maki, K., Yoshida, K., Sakiev, K., Bakirov, A., Hirata, T., Tagiri, M. and Togonbaeva, A., 2015. Trace element characteristics of clinozoisite pseudomorphs after lawsonite in talc-garnet-chloritoid schists from the makbal UHP Complex, northern Kyrgyz Tian-Shan. *Lithos*, 226, 98-115.

2014

9. Maki, K., Yui, T. F., Miyazaki, K., Fukuyama, M., Wang, K. L., Martens, U., Grove, M. and Liou, J. G., 2014. Petrogenesis of metatexite and diatexite migmatites determined using zircon U-Pb age, trace element and Hf isotope data, Higo metamorphic terrane, central Kyushu, Japan. *Journal of Metamorphic Geology*, 32, 301-323.
10. Aoki, K., Isozaki, Y., Kofukuda, D., Sato, T., Yamamoto, A., Maki, K., Sakata, S. and Hirata, T., 2014. Provenance diversification within an arc-trench system induced by batholith development: the Cretaceous Japan case. *Terra Nova*, 26, 139-149.
11. Fujisaki, W., Isozaki, Y., Maki, K., Sakata, S., Hirata, T. and Maruyama, S., 2014. Age spectra of detrital zircon of the Jurassic clastic rocks of the Mino-Tanba AC belt in SW Japan: constraints to the provenance of the mid-Mesozoic trench in East Asia. *Journal of Asian Earth Sciences*, 88, 62-73.
12. Fukuyama, M., Ogasawara, M., Dunkley, D. J., Wang, K. L., Lee, D. C., Hokada, T., Maki, K., Hirata, T.

- and Kon, Y., 2014. The formation of rodingite in the Nagasaki metamorphic rocks at Nomo Peninsula, Kyushu, Japan - zircon U-Pb and Hf isotopes and trace element evidence. *The Island Arc*, 23, 281-298.
13. Sato, K., Minakawa, T., Kato, T., Maki, K., Iwano, H., Hirata, T., Hayashi, S. and Suzuki, K., 2014. Behavior of rare elements in Late Cretaceous pegmatites from the Setouchi Province, Inner Zone of Southwest Japan. *Journal of Mineralogical and Petrological Sciences*, 109, 28-33.
14. Yui, T. F., Usuki, T., Chen, C. Y., Ishida, A., Sano, Y., Suga, K., Iizuka, Y. and Chen, C. T., 2014. Dating thin zircon rims by NanoSIMS: the Fengtien nephrite (Taiwan) is the youngest jade on Earth. *International Geology Review*, 56, 1932-1944.

2013

15. Higashino, F., Kawakami, T., Satish-Kumar, M., Ishikawa, M., Maki, K., Tsuchiya, N., Grantham, G. H. and Hirata, T., 2012. Chlorine-rich fluid or melt activity during granulite facies metamorphism in the Late Proterozoic to Cambrian continental collision zone - an example from the Sør Rondane Mountains, East Antarctica. *Precambrian Research*, 234, 229-246.
16. Kawakami, T., Yamaguchi I., Miyake, A., Shibata, T., Maki, K., Yokoyama, T. D. and Hirata, T., 2013. Behavior of zircon in the upper-amphibolite to granulite facies schist/migmatite transition, Ryoke metamorphic belt, SW Japan: constraints from the melt inclusions in zircon. *Contributions to Mineralogy and Petrology*, 165, 575-591.
17. Miyazaki, K., Ikeda, T., Arima, K., Fukuyama, M., Maki, K., Yui, T. F. and Grove, M., 2013. Pressure-temperature structure of a mylonitized metamorphic pile, and the role of advection of the lower crust, the Nagasaki Metamorphic Complex, Kyushu, Japan. *Lithos*, 162-163, 14-26.

2012

18. Aoki K., Isozaki Y., Yamamoto S., Maki, K., Yokoyama, T. and Hirata, T., 2012. Tectonic erosion in a Pacific-type orogen: detrital zircon response to Cretaceous tectonics in Japan. *Geology*, 40, 1087-1090.
19. Yui, T. F., Maki, K., Lan, C. Y., Hirata, T., Chu, H. T., Kon, Y., Yokoyama, T. D., Jahn, B. M. and Ernst, W. G., 2012. Detrital zircons from the Tananao metamorphic complex of Taiwan: implications for sediment provenance and Mesozoic tectonics. *Tectonophysics*, 541-543, 31-42.
20. Yui, T. F., Maki, K., Wang, K. L., Lan, C. Y., Usuki, T., Iizuka, Y., Wu, C. M., Wu, T. W., Nishiyama, T., Martens, U., Liou, J. G. and Grove, M., 2012. Hf isotope and REE compositions of zircons from jadeitite (Tone, Japan and north of the Motagua fault, Guatemala): implications on jadeitite genesis and possible protoliths. *European Journal of Mineralogy*, 24, 263-275.

2010

21. Yui, T. F., Maki, K., Usuki, T., Lan, C. Y., Martens, U., Wu, C. M., Wu, T. W. and Liou, J. G., 2010. Genesis of Guatemala jadeitite and related fluid characteristics: insight from zircon. *Chemical Geology*, 270, 45-55.

2009

22. Maki, K., Fukunaga, Y., Nishiyama, T. and Mori, Y., 2009. Prograde *P-T* path of medium-pressure granulite facies calc-silicate rocks, Higo metamorphic terrane, central Kyushu, Japan. *Journal of Metamorphic Geology*, 27, 107-124.

2004

23. Maki, K., Ishizaka, Y. and Nishiyama, T., 2004. Staurolite-bearing gneiss and re-examination of metamorphic zonal mapping of the Higo metamorphic terrane in the Kosa area, central Kyushu, Japan. *Journal of Mineralogical and Petrological Sciences*, 99, 1-18.

II. Non-SCI Journals (Refereed)

2013

1. Hirata, T., Sakata, S., Iwano, H., Orihashi, Y., Okabayashi, S., Yokoyama, T., Maki, K., Kon, Y., Hattori, K., Komiya, T., Iizuka, T., Danhara, T. and Maruyama, S., 2013. U-Pb dating by laser ablation-ICP-MS. *Chikyu monthly symposium*, 100-110. (In Japanese)

2011

2. Hirata, T. and Maki, K., 2011. High versatility of laser ablation-ICP-MS for elemental analysis of solid samples. *Oyo Buturi*, 80, 935-941. (In Japanese)

III. Books

2011

1. Zhang, R. Y., Liou, J. G., Huberty, J. M., Xu, H. F., Maki, K., Jahn, B. M. and Iizuka, Y., 2011. Origin and metamorphic evolution of garnet clinopyroxenite from the Sulu UHP terrane, China: evidence from mineral chemistry and microstructures. In *"Ultrahigh-Pressure Metamorphism: 25 Years After the Discovery of Coesite and Diamond"* Eds: Dobrzhinetskaya, L. F., Faryad, S. W., Wallis, S., and Cuthbert, S., Elsevier, 151-185.

IV. Reports

2014

1. Maki, K., 2014. Trace element analysis for silicate minerals using laser ablation-magnetic sector type-ICP-MS. *Reports of the Geofluid*, in press. (In Japanese)

2013

2. Sato, K., Minakawa, T., Kato, T., Maki, K., Iwano, H., Hirata, T. and Suzuki, K., 2013. Petrologic and geochronologic studies of rare earth minerals in a pegmatite in late Cretaceous granitoid from the Mihara Mine area (Hiroshima Prefecture), Inner Zone of Southwest Japan (preliminary study). *Summaries of*

Researches Using AMS at Nagoya University, XXIV, 35-40. (In Japanese, Abstract with English)

2006

3. Maki, K. and Nishiyama, T., 2006. Prograde and retrograde *P-T* path of the high-pressure granulites from the Higo metamorphic rocks, central Kyushu, Japan. *Reports of the Fukada Grants-in-Aid for 2006*, 95-115.

V. Society newsletters

2012

1. Maki, K., 2012. Research and self-introduction. *Geofluid Newsletter*, 9-10, 12. (In Japanese)

2011

2. Hirata, T., Yokoyama, T., Maki, K., Okabayashi, S., Suzuki, T. and Kon, Y., 2011. The most user friendly and versatile analytical tool for the U-Pb dating. *Fission Track News Letter*, 24, 79-86. (In Japanese)