

Dr. Makiko K. Haba

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Research topics

- Chronology of meteorites using micro minerals
- Evaluation on the initial abundances of extinct nuclides in the Solar System
- Noble gases in terrestrial and extraterrestrial materials
- Geochemical behavior of fissiogenic nuclides in natural environments

Education & Experience

- March 2010 Ph.D. in Science, Hiroshima University.
- 2010-2012 National Institute of Polar Research. Project researcher / Research fellow of JSPS.
- 2012-2014 Geochemical Research Center, The University of Tokyo. Research fellow of JSPS.
- 2014-2015 National Institute of Polar Research. Project researcher.
- 2015-2016 ETH Zurich, Institute of Geochemistry and Petrology. JSPS fellowship for research abroad.
- Oct 2016- Current position

Publications

- ▶ Keisuke Nagao, **Makiko K. Haba**, Jong Ik Lee, Taehoon Kim, Mi Jung Lee, Changkun Park, Yong Joo Jwa, and Byeon-Gak Choi. Major elements and noble gases of the Jinju (H5) meteorite, observed fall on 2014 March 9 in South Korea. *Geochemical Journal*, Vol. 50, pp 315-325, 2016.
- ▶ Tsuyoshi Iizuka, Akira Yamaguchi, **Makiko K. Haba**, Yuri Amelin, Peter Holden, Sonja Zink, Magdalena H. Huyskens, and Trevor R. Ireland. Timing of global crustal metamorphism on Vesta as revealed by high-precision U-Pb dating and trace element chemistry of eucrite zircon. *Earth and Planetary Science Letters*, Elsevier, volume 409, pp 182-192, 2015.
- ▶ **Makiko K. Haba**, Akira Yamaguchi, Kenji Horie, and Hiroshi Hidaka. Major and trace elements of zircons from basaltic eucrites: Implications for the formation of zircons on the eucrite parent body. *Earth and Planetary Science Letters*, Elsevier, volume 387, pp 10-21, 2014.
- ▶ Olga Popova et al. (Chelyabinsk Airburst Consortium). Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. *Science*, AAAS, volume 342, pp 1069-1073, 2013.
- ▶ **Makiko Kikuchi**, Hiroshi Hidaka, and François Gauthier-Lafaye. Formation and geochemical significance of micrometallic aggregates including fissiogenic platinum group elements in the Oklo natural reactor, Gabon. *Geochimica et Cosmochimica Acta*, Elsevier, volume 74, pp 4709-4722, 2010.
- ▶ Hiroshi Hidaka and **Makiko Kikuchi**. In-situ isotopic analyses of REE, Pb and U in microminerals bearing fission products in the Oklo and Bangombé natural reactors: A review of natural analogue study for migration of fission products by SHRIMP analyses, *Precambrian Research*, Elsevier, volume 183, pp 158-165, 2010.
- ▶ **Makiko Kikuchi** and Hiroshi Hidaka. In-situ U-Pb analyses of highly altered zircon from sediments overlying the Bangombé natural fission reactor, Gabon. *Geosciences journal*. The Korean Association of Geoscience Societies, volume 13, pp 257-264, 2009.
- ▶ **Makiko Kikuchi**, Hiroshi Hidaka, and Kenji Horie. Geochemical behavior of radionuclides in highly altered zircon above the Bangombé natural fission reactor, Gabon. *Physics and Chemistry of the Earth, Part A/B/C*, Elsevier, volume 33, pp 978-982, 2008.
- ▶ **Makiko Kikuchi**, Hiroshi Hidaka, Kenji Horie, and François Gauthier-Lafaye. Redistribution of REE, Pb and U by supergene weathering studied from in-situ isotopic analyses of the Bangombé natural reactor, Gabon. *Geochimica et Cosmochimica Acta*, Elsevier, volume 71, pp 4716-4726, 2007.