Thorsten Kleine

1) General Information

- Kleine, Thorsten, Dr. rer. nat., date of birth: 31/07/1972, male
- Institut für Planetologie, Westfälische Wilhelms-Universität Münster, Wilhelm-Klemm-Str. 10, D-48149 Münster, Tel.: +49 251 83 33406, e-mail: thorsten.kleine@wwu.de
- Current position: Professor (W3)

2) Academic education and degrees

- Doctoral studies (2000 – 2004), Westfälische Wilhelms-Universität Münster, Dr. rer. nat. (Prof. Dr. K. Mezger)
- Mineralogy (1996 – 2001), Westfälische Wilhelms-Universität Münster, Diploma, 2001 (Prof. Dr. K. Mezger)
- Geology and Paleontology (1994 – 2000), Westfälische Wilhelms-Universität Münster, Diploma, 2000 (Prof. Dr. H. Bahlburg)

3) Scientific degrees

- Habilitation: Geochemistry, ETH Zürich, 2008 (Prof. Dr. B. Bourdon)
- Doctoral degree: Dr. rer. nat., Geochemistry, Westfälische Wilhelms-Universität Münster, 2004 (Prof. Dr. K. Mezger)

4) Professional experience

- 2009-present, Professor of Planetary Geochemistry and Cosmochemistry (Chair), Westfälische Wilhelms-Universität Münster
- 2009 – 2009 Assistant Professor of Isotope Geochemistry, ETH Zürich
- 2007 – 2009 Senior research scientist (Oberassistent), ETH Zürich
- 2005 – 2006 EU Marie Curie postdoctoral fellow, ETH Zürich
- 2004 – 2004 Postdoctoral fellow, ETH Zürich
- 2004 – 2004 Postdoctoral fellow, Westfälische Wilhelms-Universität Münster
- 2000 – 2004 Doctoral student, Westfälische Wilhelms-Universität Münster

5) Professional activities

- 2013: ERC Consolidator Grant
- 2012: Fellow of the Meteoritical Society
- 2010: Clarke Medal of the Geochemical Society
- 2008: Victor Moritz Goldschmidt award of the German Mineralogical Society
- 2007: Nier Prize of the Meteoritical Society
- 2005: EU Marie Curie postdoctoral fellowship
- 2002: Paul Ramdohr Award of the German Mineralogical Society
- Reviewer for various funding organizations (NASA, ERC, NWO, NERC, PPARC, AvH) and journals
- Chair and Convenor at Goldschmidt Conferences

6) Publications

Published or accepted peer-reviewed publications, etc.

Burkhardt, C., Hin, R.C., Kleine, T. and Bourdon, B. (2014) Evidence for Mo isotope fractionation in the solar nebula and during planetary differentiation. Earth Planet. Sci. Lett. 391, 201-211.

Kruijer, T.S., Touboul, M., Fischer-Gödde, M., Bermingham, K.R., Walker, R.J. and Kleine, T. (2014) Protracted core formation and rapid accretion of protoplanets. Science 344, 1150-1154.

Hans, U., Kleine, T. and Bourdon, B. (2013) Rb-Sr chronology of volatile depletion in differentiated protoplanets: BABI, ADOR and ALL revisited. Earth Planet. Sci. Lett. 374, 204-214. liquids. Earth Planet. Sci. Lett. 379, 38-48.

Kruijer, T.S., Fischer-Gödde, M., Kleine, T., Sprung, P., Leya, I. and Wieler, R. (2013) Neutron capture on Pt isotopes in iron meteorites and the Hf-W chronology of core formation in planetesimals. Earth Planet. Sci. Lett. 361, 162-172.

Sprung, P., Kleine, T. and Scherer, E.E. (2013) Isotopic evidence for chondritic Lu/Hf and Sm/Nd of the Moon. Earth Planet. Sci. Lett. 380, 77-87.

Rudge J. F., Kleine T. and Bourdon B. (2010) Broad bounds on Earth's accretion and core formation constrained by geochemical models. Nature Geoscience 3, 439-443.

Touboul M., Kleine T., Bourdon B., Palme H. and Wieler R. (2007) Late formation and prolonged differentiation of the Moon inferred from W isotopes in lunar metals. Nature 450, 1206-1209.
Kleine T., Mezger K., Palme H., Scherer E. and Munker C. (2005) Early core formation in asteroids and late accretion of chondrite parent bodies: Evidence from 182Hf-182W in CAIs, metal-rich chondrites, and iron meteorites. Geochimica et Cosmochimica Acta 69, 5805-5818.
Kleine T., Palme H., Mezger K. and Halliday A. N. (2005) Hf-W chronometry of lunar metals and the age and early differentiation of the Moon. Science 310, 1671-1674.
Kleine T., Münker C., Mezger K. and Palme H. (2002) Rapid accretion and early core formation on asteroids and the terrestrial planets from Hf-W chronometry. Nature 418, 952-955.