

# TIMO HOPP

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**CURRENT POSITION** Postdoctoral researcher  
Origins Laboratory, The University of Chicago  
Department of Geophysical Sciences & Enrico Fermi Institute  
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**EDUCATION**  
**11/2018** Doctor of Sciences (PhD), University of Münster, Germany  
**11/2014** MSc. in Earth Sciences, University of Münster, Germany  
**09/2012** BSc. in Earth Sciences, University of Münster, Germany

**EMPLOYMENT**  
**10/2019** → **present** Postdoctoral researcher in isotope geochemistry,  
Origins Laboratory, The University of Chicago  
**11/2018** → **09/2019** Postdoctoral researcher in isotope geochemistry,  
Institut für Planetologie, University of Münster  
**01/2015** → **10/2018** Research assistant in isotope geochemistry,  
Institut für Planetologie, University of Münster  
**06/2014** → **12/2014** Student assistant in isotope geochemistry,  
Institut für Planetologie, University of Münster  
**01/2012** → **05/2014** Student assistant in inorganic chemistry,  
Institut für Anorganische Chemie, University of Münster

**AWARDS AND HONORS**  
**08/2016** Wiley award for outstanding student presentations at the Annual Meeting of the Meteoritical Society, Berlin  
**07/2016** EAG travel grant to attend the 4<sup>th</sup> international workshop on highly siderophile elements, Durham  
**10/2011** → **09/2012** German national scholarship awarded to talented and high-achieving students

**PROFESSIONAL ACTIVITIES**  
**Reviewer** *Geochimica et Cosmochimica Acta*  
**Memberships** European Association of Geochemistry, Meteoritical Society, German Mineralogical Society  
**Administrative** Student representative in the institute board of the Institut für Planetologie, University of Münster

PUBLICATIONS  
SUBMITTED

**Hopp, T.**, Budde, G., and Kleine, T. (2019) Heterogeneous accretion of Earth inferred from Mo-Ru isotope systematics. In review for *Earth and Planetary Science Letters*.

**Hopp, T.**, Zok, D., Kleine, T., and Steinhauser, G. (2019) Non-natural atmospheric ruthenium reveals civilian source of the 2017 undeclared nuclear release. In review.

PEER-REVIEWED  
PUBLICATIONS

**Hopp, T.** and Kleine, T. (2018) Nature of late accretion to Earth inferred from mass-dependent Ru isotopic compositions of chondrites and mantle peridotites. *Earth and Planetary Science Letters* 494, 50-59.

**Hopp, T.**, Fischer-Gödde, M., and Kleine, T. (2018) Ruthenium isotope fractionation in planetary cores. *Geochimica et Cosmochimica Acta* 223, 75-89.

**Hopp, T.** and Vollmer, C. (2018) Chemical composition and iron oxidation state of amorphous matrix silicates in the carbonaceous chondrite Acfer 094. *Meteoritics and Planetary Sciences* 53(2), 153-166.

**Hopp, T.**, Fischer-Gödde, M., and Kleine, T. (2016) Ruthenium stable isotope measurements by double spike MC-ICPMS. *Journal of Analytical Atomic Spectrometry* 31, 1515-1526.

Neuhaus, K., Gerke, B., Niehaus, O., Koop, S., **Hopp, T.**, Pöttgen, R., and Wiemhöfer, H.-D. (2016) Investigation of the cation valency and conductivity of antimony-substituted ceria. *Journal of Solid State Electrochemistry* 20, 2295-2304.

PUBLICATIONS IN  
PREPARATION

**Hopp, T.** and Kleine, T., Ruthenium isotope fractionation during partial melting of protoplanets. To be submitted to *Geochimica et Cosmochimica Acta*.

CONFERENCE  
ABSTRACTS  
(2015-PRESENT)

Hellmann, J. L., **Hopp, T.**, Burkhardt, C., and Kleine, T. (2019) Tellurium stable isotopic constraints on the nature of late accretion. Goldschmidt, Barcelona.

Grützner, T., **Hopp, T.**, Klemme, S., and Kleine, T. (2019) Experiments on Ruthenium isotope fractionation between liquid metal, silicate and sulfide. Goldschmidt, Barcelona.

**Hopp, T.**, Budde, G., and Kleine, T. (2019) The molybdenum-ruthenium cosmic correlation revisited: New constraints on Earth's late accretionary history. 50<sup>th</sup> Lunar and Planetary Science Conference, Houston.

Grützner, T., **Hopp, T.**, Klemme, S., and Kleine, T. (2018) Experimental evidence for ruthenium isotope fractionation between liquid metal and liquid silicate. AGU Fall Meeting 2018, Washington D.C.

Hellmann, J. L., **Hopp, T.**, Burkhardt, C., and Kleine, T. (2018) Tellurium stable isotope variations among chondrites and terrestrial samples. AGU Fall Meeting 2018, Washington D.C.

**Hopp, T.** and Kleine, T. (2018) Ruthenium isotope fractionation in partially differentiated meteorites. 81th Annual Meeting of the Meteoritical Society, Moscow.

**Hopp, T.**, Fischer-Gödde, M., and Kleine, T. (2017) Ruthenium stable isotopes and the late accretion history of the Earth. Goldschmidt, Paris.

**Hopp, T.**, Fischer-Gödde, M., and Kleine, T. (2017) Ruthenium stable isotopes: Insights into crystallization of protoplanetary cores and the late accretion history of the Earth. International interdisciplinary workshop on 'Accretion, differentiation, and early evolution of the terrestrial planets', Nice.

**Hopp, T.**, Fischer-Gödde, M., and Kleine, T. (2017) Ruthenium isotope fractionation in the solar nebula. 48<sup>th</sup> Lunar and Planetary Science Conference, Houston.

**Hopp, T.**, Fischer-Gödde, M., and Kleine, T. (2016) Ruthenium isotope fractionation during crystallization of planetesimal cores. 79<sup>th</sup> Annual Meeting of the Meteoritical Society, Berlin.

**Hopp, T.**, Fischer-Gödde, M., and Kleine, T. (2016) Ruthenium isotope fractionation in planetesimal cores. 4th International workshop on highly siderophile elements, Durham.

**Hopp, T.**, Fischer-Gödde, M., and Kleine, T. (2016) Ruthenium isotope fractionation during planetesimal core crystallization. 47<sup>th</sup> Lunar and Planetary Science Conference, Houston.

**Hopp, T.**, Vollmer, C., Lautenschläger, D., Pelka, M., and Render, J. (2015) Chemical composition and iron oxidation state of the amorphous silicate matrix in Acfer 094. 46<sup>th</sup> Lunar and Planetary Science Conference, Houston.