

Curriculum Vitae: Andreas Stracke

Employer

Westfälische Wilhelms Universität, Münster, Germany

Employment

01/02 - 12/02 Postdoctoral Research Fellow, Cambridge University, UK
01/03 - 04/06 Postdoctoral Research Fellow and DFG-funded Research Scientist,
Max Planck Institut für Chemie, Mainz, Germany
05/06 – 09/10 Lecturer (Oberassistent) ETH Zürich, Switzerland
since 10/2010 Full Professor (W3), Westfälische Wilhelms Universität Münster,
Germany

Degrees

09/93 Vordiplom (BSc.) in Geology, University of Tübingen, Germany
11/96 Diplom (MSc.) in Geology, University of Tübingen, Germany
11/01 Ph.D., National High Magnetic Field Laboratory, Florida State University, USA

Research experience

My main research interests revolve around the chemical evolution of Earth's mantle-crust system, ranging from global questions such as estimating the bulk composition of Earth's major reservoirs or the causes and development of mantle heterogeneity, to more localized aspects of basaltic melt generation and melt evolution.

Ten selected peer-reviewed publications

- (1) Stracke, A. (2021) A process-oriented approach to mantle geochemistry. *Chem Geol* 579, 120350.
- (2) Willig, M., Stracke, A., Beier, C. and Salters, V.J.M. (2020) Constraints on mantle evolution from Ce-Nd-Hf isotope systematics. *Geochim. Cosmochim. Acta* 272, 36-53.
- (3) Stracke, A., Genske, F., Berndt, J. and Koornneef, J.M. (2019): Ubiquitous ultra-depleted domains in Earth's mantle. *Nature Geoscience* 12, 851–855.
- (4) Stracke, A. (2018): Mantle Geochemistry, in: White, W.M. (Ed.), *Encyclopedia of Geochemistry: A Comprehensive Reference Source on the Chemistry of the Earth*. Springer International Publishing, Cham.
- (5) Rudge, J.F., MacLennan, J. and Stracke, A. (2013): The geochemical consequences of mixing melts from a heterogeneous mantle. *Geochim. Cosmochim. Acta* 114, 112-143.
- (6) Stracke, A., (2012): Earth's heterogeneous mantle: A product of convection-driven interaction between crust and mantle, *Chem. Geol.* 330-331, 274-299.
- (7) Stracke, A., Snow, J.E., Hellebrand, E., von der Handt, A., Bourdon, B., Birbaum, B., and Günther, D. (2011): Abyssal peridotite Hf isotopes identify extreme mantle depletion. *Earth Plan. Sci. Lett.*, 308, 359-368.
- (8) Stracke, A. Bourdon, B. (2009): The importance of melt extraction for tracing mantle heterogeneity. *Geochim. Cosmochim. Acta* 73, 218-238.
- (9) Stracke, A., Hofmann, A.W., Hart, S.R. (2005): FOZO, HIMU and the rest of the mantle zoo. *Geochem. Geophys. Geosys.* 6, Q05007, doi:05010.01029/02004GC000824.
- (10) Salters, V.J.M., Stracke, A. (2004): Composition of the depleted mantle. *Geochem. Geophys. Geosys.* 5, Q05B07, doi.10.1029/2

Honors

Chemical Geology's 2016 Certificate of excellence in reviewing.
AGU's 2012 Citation for excellence in reviewing.

Professional society memberships

AGU, Geochemical Society, DMG (German Mineralogical Society)