

**Current position**

Head of Division Chemistry of the *f*-Elements at the Institute of Resource Ecology (IRE), HZDR (since 2019)

**Previous positions**

Head of the Helmholtz Young Investigator Group “Structures and Reactivity at the Water/Mineral Interface” at IRE, HZDR (2013-2019)

**Scientific degrees**

Dr. rer. nat. (PhD) in Chemistry, University of Heidelberg (2009)

Habilitation Technical University Dresden (2018)

**Recent research topics**

Interfacial reactions; Nanoparticle formation mechanisms; Structural incorporation; Actinide chemistry; Laser spectroscopy; Surface X-ray Diffraction

**Awards, honors, memberships**

PhD award of the Nuclear Chemistry Group of the German Chemical Association (2011)

**Publications (5 most important)**

- **K. Molodtsov, S. Schymura, J. Rothe, K. Dardenne, M. Schmidt**, Sorption of Eu(III) on Eibenstock granite studied by  $\mu$ TRLFS: A novel spatially-resolved luminescence-spectroscopic technique, *Sci. Rep.* 9, 6287 (2019) [doi:10.1038/s41598-019-42664-2](https://doi.org/10.1038/s41598-019-42664-2)
- **B. Xiao, H. Lösch, N. Huittinen, M. Schmidt**, Local structural effects of Eu<sup>3+</sup> incorporation into xenotime-type solid solutions with different host cations, *Chem. Eur. J.* 24, 13368 (2018) [doi:10.1002/chem.201802841](https://doi.org/10.1002/chem.201802841)
- **S. Hellebrandt**, K. E. Knope, S. S. Lee, A. J. Lussier, J. E. Stubbs, et al., A Comparison of Adsorption, Reduction, and Polymerization of the Plutonyl(VI) and Uranyl(VI) Ions from Solution onto the Muscovite Basal Plane, *Langmuir* 32, 10473 (2016) [doi:10.1021/acs.langmuir.6b02513](https://doi.org/10.1021/acs.langmuir.6b02513)
- **S. Hofmann**, K. Voitchovsky, P. Spijker, **M. Schmidt, T. Stumpf**, Visualising the molecular alteration of the calcite (104) - water interface by sodium nitrate, *Sci. Rep.* 6, 21576 (2016) [doi:10.1038/srep21576](https://doi.org/10.1038/srep21576)
- **M. Schmidt, S. Hellebrandt**, K.E. Knope, S.S. Lee, J.E. Stubbs, et al., Effects of the background electrolyte on Th(IV) sorption to muscovite mica, *Geochim. Cosmochim. Acta* 165, 280 (2015) [doi:10.1016/j.gca.2015.05.039](https://doi.org/10.1016/j.gca.2015.05.039)