



**Current position**

Head of Division “Surface Processes” at Institute of Resource Ecology (IRE, HZDR (since 2004)

**Previous positions**

Scientist at FZ Rossendorf (1993-2004)

Head of Division “Georadiochemistry” at Institute of Interdisciplinary Isotope Research, Leipzig (2006-2007)

Acting Director of IRE, HZDR (2012-2013)

**Scientific degree**

Dr. rer. nat. (PhD) in Chemistry, TU Bergakademie Freiberg (1993)

**Recent research topics**

Radiochemistry, thermodynamics, sorption, and chemical speciation modelling in the context of nuclear waste disposal, risk assessment, uncertainty & sensitivity analyses

**Honors**

Honorary Professor for Radiochemistry HTW Dresden (2017)

**Publications (5 most important)**

- **N. Jordan**, C. Franzen, **J. Lützenkirchen**, **H. Foerstendorf**, **V. Brendler**, et al., Adsorption of selenium(VI) onto nano transition alumina, *Environ. Sci-Nano* 5, 1661 (2018) [doi:10.1039/C8EN00293B](https://doi.org/10.1039/C8EN00293B)
- H. Zänker, K. Heine, **S. Weiss**, **V. Brendler**, R. Husar, et al., Strong uranium(VI) binding onto milk proteins, selected protein sequences, and model peptides, *Inorg. Chem.* 58, 4173 (2019) [doi:10.1021/acs.inorgchem.8b03231](https://doi.org/10.1021/acs.inorgchem.8b03231)
- **M. Stockmann**, J. Schikora, D.-A. Becker, J. Flügge, **V. Brendler**, et al., Smart  $K_d$  values, their uncertainties and sensitivities - Applying a new approach for realistic distribution coefficients in geochemical modeling of complex systems, *Chemosphere* 187, 277 (2017) [doi:10.1016/j.chemosphere.2017.08.115](https://doi.org/10.1016/j.chemosphere.2017.08.115)
- **C. Joseph**, J. Mibus, P. Trepte, **Ch. Müller**, **V. Brendler**, et al., Long-term diffusion of U(VI) in bentonite: Dependence on density, *Sci. Total Environ.* 575, 207 (2017) [doi:10.1016/j.scitotenv.2016.10.005](https://doi.org/10.1016/j.scitotenv.2016.10.005)
- **B. Drobot**, A. Bauer, **R. Steudtner**, **S. Tsushima**, **V. Brendler**, et al., Speciation studies of metals in trace concentrations: the mononuclear uranyl(VI) hydroxo complexes, *Anal. Chem.* 88, 3548 (2016) [doi:10.1021/acs.analchem.5b03958](https://doi.org/10.1021/acs.analchem.5b03958)