

**Current positions**

Deputy director of Institute for Nuclear Waste Disposal (INE), KIT (since 2018)  
Head of Division "Disposal systems / components" at INE, KIT (since 2018)

**Previous positions (two selected)**

Head of Division " Safety of Nuclear Waste Disposal" at INE, KIT (2015-2018)  
Scientist at INE, KIT (2000-2015)

**Scientific degrees**

Dr. rer. nat. (PhD) in Geochemistry, Ben-Gurion University of the Negev, Israel (2001)

**Recent research topics**

Radio(geo)chemistry / Radiation chemistry, Spent nuclear fuel, Radionuclides in cementitious systems, Clay mineral stability

**Honors, memberships**

Head of Federal Ministry of Economics (BMWi) Expert Group on High Level Waste; member of Federal Ministry of Environment (BMU) Expert Group on Scenarios; member of the Expert Group on the Belgian Spent Fuel program

**Publications (5 most important)**

- **J. Lützenkirchen**, A. Abdelmonem, R. Weerasooriya, **F. Heberling**, **V. Metz**, et al., Adsorption of dissolved aluminum with basal plane surfaces: implications for points of zero charge of clay minerals, *Geochem. Transact.* 15, 1 (2014) [doi:10.1186/1467-4866-15-9](https://doi.org/10.1186/1467-4866-15-9)
- Y.O. Rosenberg, Y. Sadeh, **V. Metz**, C.M. Pina, J. Ganor, Nucleation and growth kinetics of  $Ra_xBa_{1-x}SO_4$  solid solution in NaCl aqueous solutions, *Geochim. Cosmochim. Acta* 125, 290 (2014) [doi:10.1016/j.gca.2013.09.041](https://doi.org/10.1016/j.gca.2013.09.041)
- **E. González-Robles**, **V. Metz**, D.H. Wegen, **M. Herm**, D. Papaioannou, et al., Determination of fission gas release of spent nuclear fuel in puncturing test and in leaching experiments under anoxic conditions, *J. Nucl. Mat.* 479, 67 (2016) [doi:10.1016/j.jnucmat.2016.06.035](https://doi.org/10.1016/j.jnucmat.2016.06.035)
- **B. Kienzler**, L. Duro, K. Lemmens, **V. Metz**, J. de Pablo, et al., Summary of the Euratom Collaborative Project FIRST-Nuclides and Conclusions for the Safety Case, *Nucl. Techn.* 198, 260 (2017) [doi:10.1080/00295450.2017.1326271](https://doi.org/10.1080/00295450.2017.1326271)
- **F. Heberling**, **V. Metz**, **M. Böttle**, E. Curti, **H. Geckeis**, Barite recrystallization in the presence of Ra-226 and Ba-133, *Geochim. Cosmochim. Acta* 232, 124 (2018) [doi:10.1016/j.gca.2018.04.007](https://doi.org/10.1016/j.gca.2018.04.007)