

**Current positions**

Head of Division “Biogeochemistry” at Institute of Resource Ecology (IRE), HZDR (since 2017)  
Lecturer for Microbiology at Dresden University of Applied Sciences (since 2012)

**Previous positions (two selected)**

Founding partner and co-shareholder Biconex GmbH (2015-2016)  
Scientist at IRE (2002-16)

**Scientific degree**

Dr. rer. nat. (PhD) in Biochemistry, University of Leipzig (2002)

**Recent research topics**

Radioecology, bio-influenced radionuclide migration, biogeochemistry, metallomics of radionuclides and other metals, bio-hydrometallurgy, protein biochemistry, bio-nanotechnology

**Awards, honors, memberships**

Winner futureSAX business-plan competition (2013), HZDR Technology Award (2011), EXIST Business Start-up Grant of German Federal Ministry for Economic Affairs and Energy (2009), HZDR Dissertation Prize (2002)

**Publications/Patents (5 most important)**

- K. Pollmann, S. Kutschke, S. Matys, **J. Raff**, G. Hlawacek, et al., Bio-recycling of metals: Recycling of technical products using biological applications, *Biotechnol. Adv.* 36(4), 1048 (2018) [doi:10.1016/j.biotechadv.2018.03.006](https://doi.org/10.1016/j.biotechadv.2018.03.006)
- J. Liu, S. Falke, **B. Drobot**, D. Oberthuer, A. Kikhney, et al., Analysis of self-assembly of S-layer protein slp-B53 from *Lysinibacillus sphaericus*, *Eur. Biophys. J.* 46, 77 (2017) [doi:10.1007/s00249-016-1139-9](https://doi.org/10.1007/s00249-016-1139-9)
- **B. Drobot**, **R. Steudtner**, **J. Raff**, **G. Geipel**, **V. Brendler**, et al., Combining luminescence spectroscopy, parallel factor analysis and quantum chemistry to reveal metal speciation - A case study of uranyl(VI) hydrolysis, *Chem. Sci.* 6, 964 (2015) [doi:10.1039/C4SC02022G](https://doi.org/10.1039/C4SC02022G)
- **A. Günther**, **J. Raff**, M.L. Merroun, **A. Roßberg**, E. Kothe, et al., Interaction of U(VI) with *Schizophyllum commune* studied by microscopic and spectroscopic methods, *Biometals* 27, 775 (2014) [doi:10.1007/s10534-014-9772-1](https://doi.org/10.1007/s10534-014-9772-1)
- T. Günther, **J. Raff**, S. Wengrzik, Bauteil mit metallhaltiger, selbstorganisierter Schicht, Verfahren zu deren Herstellung sowie Verwendung, DE 10 2013 208 395 B3 (2014)