

Prof. Dr. Thorsten Stumpf



Current position

Director of the Institute of Resource Ecology (since 2013)
Professor for Radiochemistry/Radioecology
at the Technical University of Dresden

Previous positions

Head of the Helmholtz Young Investigator Group at KIT (2006 – 2011)

Scientific degrees

Habilitation, University of Heidelberg, Germany (2009)
Dr. phil. nat. (PhD) in Chemistry, University of Frankfurt, Germany (1998)
Diploma, University of Frankfurt Germany (1995)

Recent research topics

Radiochemistry, Actinides, Geochemistry, Spectroscopy

Awards, honors, memberships

Fritz Straßmann Award of the German Chemical Association;
Member of: Gesellschaft Deutscher Chemiker (GDCh), Nuclear Chemistry
Division, Association of Environmental & Engineering Geologists (AEG),
Kompetenzverbund Strahlenforschung (KVSF), Deutsche Arbeitsgemeinschaft
Endlagerforschung (DAEF), Entsorgungskommission des Bundes (ESK)

Publications (5 most important)

- L. Goetzke, [...], **J. Maerz, P. Kaden, N. Huittinen**, T. Stumpf, et al., Coordination chemistry of f-block metal ions with ligands bearing bio-relevant functional groups, *Coord. Chem. Rev.* 386, 267 (2018) *Coordination Chemistry Reviews* <https://doi.org/10.1016/j.ccr.2019.01.006>
- **M. Bader, K. Mueller, H. Foerstendorf, M. Schmidt**, [...], **T. Stumpf**, et al., Comparative analysis of uranium bioassociation with halophilic bacteria and archaea, *PLOS ONE* 13, e0190953 (2018) <https://doi.org/10.1371/journal.pone.0190953>
- **J. Kretzschmar, T. Haubitz**, [...], **R. Husar, V. Brendler, T. Stumpf**, Network-like arrangement of mixed-valence uranium oxide nanoparticles after glutathione-induced reduction of uranium(VI), *Chem. Commun.* 54, 8697 (2018) <https://doi.org/10.1039/c8cc02070a>
- **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) <https://doi.org/10.1038/srep21576>
- **R. Husar**, [...], **C. Hennig**, [...], **T. Stumpf, H. Zänker, A. Ikeda-Ohno**, Intrinsic formation of nanocrystalline neptunium dioxide under neutral aqueous conditions relevant to deep geological repositories, *Chem. Commun.* 51, 1301 (2015) <https://doi.org/10.1039/c4cc08103j>