## *Prof. Dr. Dirk Bosbach*

**Current positions**

Director of the Institute of Energy and Climate Research (IEK-6) Nuclear Waste Management, FZJ (since 2009)
Professor for Nuclear Waste Management at RWTH Aachen University (since 2009)

**Previous positions (two selected)**

Head of Division "Geochemistry" at Institute for Nuclear Waste Disposal (INE), KIT (2001-2009)

Assistant Professor, University Münster (1995-2000)

**Scientific degree**

Dr. rer. nat. (PhD) in Mineralogy, University of Cologne (1993)

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| **Recent research topics** | Management of radioactive wastes, radio(geo)chemistry, material science, reactive transport phenomena |
| **Awards, honors, memberships** | Member of the Berlin-Brandenburg Academy of Science (since 2015), EJP EURAD - Member of the bureau of the GA (since 2019), Member of the scientific advisory board GDCh nuclear chemistry division (2012 – 2019), DAEF, IGD-TP, SNETP, NUGENIA, Kompetenzverbund Kerntechnik (since 2010) |

**Publications** (5 most important)


- **V.L. Vinograd,** […], **F. Brandt, M. Klinkenberg, J. Weber,** […], **D. Bosbach**, Thermodynamics of the solid solution - Aqueous solution system (Ba,Sr,Ra)$SO_4$+$H_2O$: I. The effect of strontium content on radium uptake by barite, *Appl. Geochem.* 89, 59 (2018) https://doi.org/10.1016/j.apgeochem.2017.11.009
- **S. Finkeldei, P. Kegler, P.M. Kowalski,** […], **A.A.Bukaemskiy,** […], **D. Bosbach**, Composition dependent order-disorder transition in $Nd_xZr_{1-x}O_{2-0.5x}$ pyrochlores: A combined structural, calorimetric and ab initio modeling study, *Acta Mater.* 125, 166 (2017) https://doi.org/10.1016/j.actamat.2016.11.059
- J. Shamblin, […], **S. Finkeldei, D. Bosbach**, […], R.C. Ewing, M. Lang, Probing disorder in isometric pyrochlore and related complex oxides. *Nat. Mater.* 15(5), 507 (2016) https://doi.org/10.1038/NMAT4581
- **J. Weber,** J. Barthel, **F. Brandt, M. Klinkenberg,** […], **D. Bosbach**, Nano-structural features of barite crystals observed by electron microscopy and atom probe tomography, *Chem. Geol.* 424, 51 (2016) https://doi.org/10.1016/j.chemgeo.2016.01.018
- X.F. Guo, […], **S. Labs,** […], **H. Curtius, D. Bosbach,** […], A. Navrotsky, Thermodynamics of formation of coffinite, $USiO_4$, *Proc. Natl. Acad. Sci.* USA 112(21), 6551 (2015) https://doi.org10.1073/pnas.1507441112