

**Current position**

Project leader “Material aspects of plasma-wall interactions” and deputy director at Institute of Energy and Climate Research – Plasma Physics (IEK-4), FZJ (since 2010)

University Professor for Fusion Research, Ruhr-University Bochum, (since 2010)

Visiting Professor, University Tsukuba, Japan (since 2019)

Previous positions

Research Scientist, Institute of Energy and Climate Research - Plasma Physics, FZJ, Germany (1998 – 2010)

Lecturer, University of Duisburg-Essen (2003-2010)

Scientific degrees

Dr. rer. nat. (PhD) in plasma physics, Ruhr-University Bochum (1995)

Habilitation, University Duisburg-Essen (2003)

Recent research topics

Fusion materials, plasma-wall interactions, in-situ diagnostics for plasma facing materials, neutron damage on plasma-facing materials, linear plasma devices for material testing

Memberships

Chairman of the IEA Technology Collaboration Program on Research and Development on PWI Facilities for Fusion Reactors (since 2015)

Chairman of the section Plasma Physics, German Physical Society (2012-2014)

Publications

- **Ch. Linsmeier, B. Unterberg, J. W. Coenen, R. P. Doerner, H. Greuner**, et al., Material testing facilities and programs for plasma-facing component testing, *Nucl. Fusion* 57, 092012 (2018) [doi:10.1088/1741-4326/aa4feb](https://doi.org/10.1088/1741-4326/aa4feb)
- **S. Moeller, D. Matveev, Y. Martynova, B. Unterberg, M. Rasinski**, et al., Dynamic outgassing of deuterium, helium and nitrogen from plasma-facing materials under DEMO relevant conditions, *Nucl. Fusion* 57, 016020 (2017) [doi:10.1088/0029-5515/57/1/016020](https://doi.org/10.1088/0029-5515/57/1/016020)
- **Y. Martynova, S. Moeller, M. Rasinski, D. Matveev, M. Freisinger**, et al., Deuterium retention in RAFM steels after high fluence plasma exposure, *Nucl. Materials and Energy* 12, 648 (2017) [doi:10.1016/j.nme.2017.05.005](https://doi.org/10.1016/j.nme.2017.05.005)
- **L. Buzi, G. de Temmerman, B. Unterberg, M. Reinhart, T. Dittmar**, et al., Influence of tungsten microstructure and ion flux on deuterium plasma-induced surface modifications and deuterium retention, *J. Nucl. Materials* 463, 320 (2015) [doi:10.1016/j.jnucmat.2014.12.006](https://doi.org/10.1016/j.jnucmat.2014.12.006)
- **M. Reinhart, A. Kreter, L. Buzi, M. Rasinski, A. Pospieszczyk**, et al., Influence of plasma impurities on the deuterium retention in tungsten exposed in the linear plasma generator PSI-2, *J. Nucl. Materials* 463, 1021 (2015) [doi:10.1016/j.jnucmat.2014.11.045](https://doi.org/10.1016/j.jnucmat.2014.11.045)