

**Current positions**

Project leader “Plasma-Wall Interaction - Plasma” at Institute of Energy and Climate Research – Plasma Physics (IEK-4), FZJ (since 2013)
EUROfusion Project Leader “Plasma-Facing Components”, Garching (since 2014)
Topical Group Leader “Plasma-Wall Interaction” at Wendelstein7-X (since 2019)
Lecturer at University Düsseldorf (since 2014)

Previous positions

EFDA Task Force Leader JET Exhaust (Culham, UK)
EUROfusion Task Force Leader JET E2 (Culham, UK)
Task Force Leader TF II at Wendelstein 7-X (Greifswald)

Scientific degree

Dr. rer. nat. (PhD) in Plasma Physics, University Düsseldorf (2002)

Recent research topics

Nuclear Fusion, Plasma-Wall Interaction, Divertor and Scrape-off Layer Physics, Spectroscopy, Atomic- and Molecular Data, Laser-aided Plasmas & Surface Diagnostics, Low Temperature Plasmas, Tokamaks, Stellarators, Tungsten

Awards, honors, memberships

IAEA Nuclear Fusion Price Winner (2016)
Member of Governing Boards of WEST (since 2015) & COMPASS (since 2018)
Member of International Tokamak Physics Agreement – DIVSOL (since 2010)

Publications (5 most important)

- **S. Brezinsek**, T. Loarer, **V. Philipps**, **H. G. Esser**, **S. Grünhagen**, et al., Fuel Retention Studies with the ITER-Like Wall in JET, *Nucl. Fusion* 53, 083023 (2013) [doi:10.1088/0029-5515/53/8/083023](https://doi.org/10.1088/0029-5515/53/8/083023)
- **S. Brezinsek**, JET contributors, Plasma-surface interaction in the Be/W environment: Conclusions drawn from the JET-ILW for ITER, *J. Nucl. Mater.* 463, 11 (2015) [doi:10.1016/j.jnucmat.2014.12.007](https://doi.org/10.1016/j.jnucmat.2014.12.007)
- **S. Brezinsek**, **J.W. Coenen**, **T. Schwarz-Selinger**, **K. Schmid**, **A. Kirschner**, et al., Plasma-wall interaction studies within the EUROfusion consortium: progress on PFC development and qualification, *Nucl. Fusion* 57, 116041 (2017) [doi:10.1088/1741-4326/aa796e](https://doi.org/10.1088/1741-4326/aa796e)
- **S. Brezinsek**, A. Hakola, **H. Greuner**, **M. Balden**, **A. Kallenbach**, et al., Surface modification of He pre-exposed tungsten samples by He plasma impact in the divertor manipulator of ASDEX Upgrade, *Nucl. Mater. Energy* 12, 575 (2017) [doi:10.1016/j.nme.2016.11.002](https://doi.org/10.1016/j.nme.2016.11.002)
- **A. Kirschner**, D. Tskhakaya, **S. Brezinsek**, **D. Borodin**, **J. Romazanov**, et al., Modelling of plasma-wall interaction and impurity transport in fusion devices and prompt deposition of tungsten as application, *Plasma Phys. Contr. Fus.* 60, 014041 (2018) [doi:10.1088/1361-6587/aa8dce](https://doi.org/10.1088/1361-6587/aa8dce)