

**Current positions**

Division Head “ITER Technology and Diagnostics”, MPI for Plasma Physics, Garching, acting (since 2010)
Chair of “Experimental Plasma Physics”, University of Augsburg (since 2008)

Previous positions (two selected)

Scientist, MPI for Plasma Physics, Garching (2004-2010)
Scientist, University of Augsburg (1995-2004)

Scientific degrees

Diploma in Physics, University of Stuttgart (1991)
PhD in Electrical Engineering, University of Stuttgart (1995)
Habilitation, University of Augsburg (2002)

Recent research topics

Ion sources, neutral beam injection, low temperature plasmas, plasma diagnostics, molecular plasmas, complex plasma chemistry, plasma surface interaction

Awards, honors, memberships

Erwin Schrödinger Prize of the HGF (2006)
Executive Board of the German Physical Society (DPG) (since 2018)
Executive Committee of the European Physical Society (EPS) (since 2018)

Publications (5 most important)

- **U. Fantz, C. Hopf, D. Wunderlich, R. Friedl, M. Fröschle**, et al., Towards powerful negative ion beams at the test facility ELISE for the ITER and DEMO NBI systems, *Nucl. Fusion* 57, 116007 (2017) [doi:10.1088/1741-4326/aa778b](https://doi.org/10.1088/1741-4326/aa778b)
- **C. Wimmer, M. Lindauer, U. Fantz**, Determination of the Cs distribution along a line of sight by the Zeeman splitting in an inhomogeneous magnetic field, *J. Phys. D Appl. Phys.* 51, 395203 (2018) [doi:10.1088/1361-6463/aad93d](https://doi.org/10.1088/1361-6463/aad93d)
- **B. Heinemann, U. Fantz, W. Kraus, L. Schiesko, C. Wimmer**, et al., Towards large and powerful radio frequency driven negative ion sources for fusion, *New J. Phys.* 19, 015001 (2017) [doi:10.1088/1367-2630/aa520c](https://doi.org/10.1088/1367-2630/aa520c)
- **R. Friedl, U. Fantz**, Influence of H₂ and D₂ plasmas on the work function of caesiated materials, *J. Appl. Phys.* 122, 083304 (2017) [doi:10.1063/1.5000373](https://doi.org/10.1063/1.5000373)
- **U. Fantz, S. Briefi, D. Rauner, D. Wunderlich**, Quantification of the VUV radiation in low pressure hydrogen and nitrogen plasmas, *Plasma Sources Sci. Technol.* 25 045006 (2016) [doi:10.1088/0963-0252/25/4/045006](https://doi.org/10.1088/0963-0252/25/4/045006)