

**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 H<sub>2</sub> and D<sub>2</sub> 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)