



**Current positions**

Head of the High Temperature Materials Laboratory at Institute of Energy and Climate Research – Plasma Physics (IEK-4), FZJ (since 2012)  
EUROfusion Project Leader for the Work Package Materials (since 2017)

**Previous positions (two selected)**

EUROfusion, Group Leader for WPMAT-High Heat Flux Materials (2014-2016)  
Research Scientist, Institute of Energy and Climate Research 2, FZJ (2004 - 2012)

**Scientific degree**

Dr.-Ing. (PhD) in Mechanical Engineering, RWTH Aachen (2004)

**Recent research topics**

High heat flux testing, thermo-physical and thermo-mechanical characterization, post-mortem and microstructural damage analyses, toxic and radioactive materials

**Awards, honors, memberships**

IAC member for the ICFRM

**Publications (5 most important)**

- G. Federici, C. Bachmann, L. Barucca, C. Baylard, W. Biel, et al. Overview of the DEMO staged design approach in Europe, *Nucl. Fusion*. 59, 066013 (2019), [doi.org/10.1088/1741-4326/ab1178](https://doi.org/10.1088/1741-4326/ab1178)
- **G. Pintsuk**, E. Diegele, S.L. Dudarev, M. Gorley, J. Henry, et al., European materials development: Results and perspective, *Fus. Engin. Des.* (2019) in press, [doi.org/10.1016/j.fusengdes.2019.02.063](https://doi.org/10.1016/j.fusengdes.2019.02.063)
- M. Gorley, **E. Diegele**, S. Dudarev, **G. Pintsuk**, Materials engineering and design for fusion – Towards DEMO design criteria, *Fus. Engin. Des.* 136, 298 (2018) [doi.org/10.1016/j.fusengdes.2018.02.012](https://doi.org/10.1016/j.fusengdes.2018.02.012)
- T. Hirai, S. Panayotis, V. Barabash, C. Amzuallag, F. Escourbiac, et al. Use of tungsten material for the ITER divertor, *Nucl. Mat. Energy* 9, 616 (2016) [doi.org/10.1016/j.nme.2016.07.003](https://doi.org/10.1016/j.nme.2016.07.003)
- **G. Pintsuk**, M. Bednarek, P. Gavila, S. Gerzoskovitz, **J. Linke**, et al. Characterization of ITER tungsten qualification mock-ups exposed to high cyclic thermal loads, *Fus. Engin. Des.* 98-99, 1384 (2015) [dx.doi.org/10.1016/j.fusengdes.2015.01.037](https://dx.doi.org/10.1016/j.fusengdes.2015.01.037)