Dr.-Ing. Gerald Pintsuk

ORCID: 0000-0001-5552-54278

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
- **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
- 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
- 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
- **G. Pintsuk**, M. Bednarek, P. Gavila, S. Gerzoskovitz, **J. Linke**, et al. Characterization of ITER tungsten qualification mock-ups exposted to high cyclic thermal loads, *Fus. Engin. Des.* 98-99, 1384 (2015) dx.doi.org/10.1016/j.fusengdes.2015.01.037