

**Current positions**

Project Leader “Materials and Components” at Institute of Energy and Climate Research – Plasma Physics (IEK-4), FZJ (since 2013)

EUROfusion subproject Leader SP1 - WP PFC (since 2009)

Previous positions

EUROfusion Deputy Project Leader WP PFC (2017-2018)

Scientific degrees

Dr. rer. nat (PhD) in Plasma Physics, Heinrich Heine University Düsseldorf (2009)

Recent research topics

Advanced Materials and Components, Plasma Wall Interaction, High-Z Materials under extreme conditions, Liquid Metals, Power Exhaust for Fusion Devices

Awards, honors, memberships

- Programme Committee International Conf. on Plasma-Facing Materials and Components (since 2017)
- European Member, R&D Leader of Materials ITPA DivSOL (since 2014)
- Nuclear Fusion Award – shortlist (2014)
- EFDA Fusion Researcher Fellowship, with special distinction (2010-2012)

Publications/Patents (5 most important)

- **J.W. Coenen, Y. Mao, J. Almanstötter, A. Calvo, S. Sistla et al.**, Advanced Materials for a Damage Resilient Divertor Concept for DEMO, *Fusion Eng. Des.* 124, 964 (2017) [doi:10.1016/j.fusengdes.2016.12.006](https://doi.org/10.1016/j.fusengdes.2016.12.006)
- **Y. Ueda, K. Schmid, M. Balden, J. W. Coenen, T. Loewenhoff**, et al., “Baseline high heat flux and plasma facing materials for fusion,” *Nucl. Fusion* 57, 092006 (2017) [doi:10.1088/1741-4326/aa6b60](https://doi.org/10.1088/1741-4326/aa6b60)
- **R.A. Pitts, S. Bardin, B. Bazylev, P. Bunting, J.W. Coenen**, et al., Physics conclusions in support of ITER W divertor monoblock shaping, *Nucl. Materials and Energy* 12, 60 (2017) [doi:10.1016/j.nme.2017.03.005](https://doi.org/10.1016/j.nme.2017.03.005)
- **J. W. Coenen, S. Antusch, M. Aumann, W. Biel, J. Du**, et al., Materials for DEMO and reactor applications—boundary conditions and new concepts, *Phys. Scripta* T167, 14002 (2016) [doi:10.1088/0031-8949/2016/T167/014002](https://doi.org/10.1088/0031-8949/2016/T167/014002)
- **J.W. Coenen**, G. Arnoux, B. Bazylev, G.F. Matthews, A. Autricque et al., ELM-induced transient tungsten melting in the JET divertor, *Nucl. Fusion* 55, 23010 (2015) [doi:10.1088/0029-5515/55/2/023010](https://doi.org/10.1088/0029-5515/55/2/023010)