



**Current positions**

Project Leader Materials and Components at Institute of Energy and Climate Research 4 , FZJ, since 2013

Subproject Leader SP1 - WP PFC (Eurofusion)] since 2009

**Previous positions (two selected)**

Deputy Project Leader WP PFC (Eurofusion) (2017-2018)

**Scientific degrees**

Dr.rer.net (PhD) in Physics , Heinrich Heine University Duesseldorf 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)

**2014 Nuclear Fusion Award – shortlist**

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 Engineering and Design, 2017, [doi:10.1016/j.fusengdes.2016.12.006](https://doi.org/10.1016/j.fusengdes.2016.12.006)
- Ueda, Y., Schmid, K. Balden, M. **Coenen J., W. Loewenhoff, T.** et al., “Baseline high heat flux and plasma facing materials for fusion,” Nuclea Fusion, 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,” Nuclear Materials and Energy, Mar. 2017. [doi:10.1016/j.nme.2017.03.005](https://doi.org/10.1016/j.nme.2017.03.005)
- **Coenen, JW**, Antusch, S, **Aumann, M , Biel, W, Du, J** et al., “Materials for DEMO and reactor applications—boundary conditions and new concepts,” Physica Scripta, vol. 2016, no. T167, p. 14002, Dec. 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,” Nuclear fusion, vol. 55, no. 2, p. 23010, 2015. [doi:10.1088/0029-5515/55/2/023010](https://doi.org/10.1088/0029-5515/55/2/023010)

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