

**Current positions**

Head of the Department “Metallic Materials” at Institute for Applied Materials, KIT (since 2016)

Subproject Leader “Neutron Irradiation” in EUROfusion, WPMAT (since 2016)

Previous positions

Head of the “High Temperature Materials Group” at Institute for Applied Materials, KIT (2011-2016)

Project Leader of the Materials Work Package in EUROfusion (2014-2016)

Scientific degree

PhD in Theoretical Physics, University of Patras (2002)

Recent research topics

Structural, high heat-flux and functional materials (steels, refractory alloys, beryllides, composites), materials technology (machining, joining, production routes), irradiation defect studies (experiments, analysis, modelling)

Awards, honors, memberships

EUROfusion Scientific and Technical Advisory Committee (since 2019),

EUROfusion Technical Advisory Group (since 2019)

Editorial Board/Nuclear Materials and Energy (since 2016)

Publications/Patents (5 most important)

- **M. Rieth**, R. Doerner, A. Hasegawa, Y. Ueda, **M. Wirtz**, Behavior of tungsten under irradiation and plasma interaction, *J. Nucl. Mater.* 519, 334 (2019) [doi:10.1016/j.jnucmat.2019.03.035](https://doi.org/10.1016/j.jnucmat.2019.03.035)
- **M. Linsmeier**, **M. Rieth**, **J. Aktaa**, et al., Development of advanced high heat flux and plasma-facing materials, *Nuclear Fusion* 57 (2017) [doi:10.1088/1741-4326/aa6f71](https://doi.org/10.1088/1741-4326/aa6f71)
- S.J. Zinkle, J.L. Boutard, D.T. Hoelzer, A. Klimura, ..., **M. Rieth** et al., Development of next generation tempered and ODS reduced activation ferritic/martensitic steels for fusion energy applications, *Nuclear Fusion* 57 (2017) [doi:10.1088/1741-4326/57/9/092005](https://doi.org/10.1088/1741-4326/57/9/092005)
- **J. Reiser**, L. Garrison, **H. Greuner**, ..., **M. Rieth** et al., Ductilisation of tungsten (W): Tungsten laminated composites, *Int. J. of Refract. Met. & Hard Materials* 69, 66 (2017) [doi:10.1016/j.ijrmhm.2017.07.013](https://doi.org/10.1016/j.ijrmhm.2017.07.013)
- **J. Reiser**, B. Dafferner, **A. Hoffmann**, **M. Rieth**, W. Schulmeyer, **A. Möslang**, Metal pipe; use of a metal pipe as a structural component; method for producing of a metal pipe; metallic structural component; divertor; EP 12 784 439.7 (2017)