

**Current position**

Team Leader “Fast Pyrolysis Technology Development” at Institute of Catalysis Research and Technology, KIT (since 2013)

Previous positions

Postdoctoral at Leibniz-Institute for Agricultural Engineering and Bioeconomy (ATB) (2011-2012)

Project Engineer at SGS Germany (2006-2008)

Scientific degree

Dr.-Ing. (PhD) in Process and Energy Engineering TU Berlin (2012)

Recent research topics

Thermochemical Biomass Conversion, Pyrolysis Process Development and Modelling, Plant Nutrients during Conversion, Char Applications

Awards, honors, memberships

Task Leader IEA Bioenergy Task 34 “Direct Thermochemical Liquefaction” (since 2019)

Publications/Patents (5 most important)

- **F. G. Fonseca, A. Funke, A. Niebel, A. P. S. Dias, N. Dahmen**, Moisture content as a design and operational parameter for fast pyrolysis, *J. Anal. Appl. Pyrolysis* 139, 73 (2019) [doi:10.1016/j.jaap.2019.01.012](https://doi.org/10.1016/j.jaap.2019.01.012)
- **A. Dieguez-Alonso, A. Funke, A. Anca-Couce, A. G. Rombolà, G. Ojeda, J. Bachmann, F. Behrendt**, Towards Biochar and Hydrochar Engineering - Influence of Process Conditions on Surface Physical and Chemical Properties, Thermal Stability, Nutrient Availability, Toxicity and Wettability, *Energies* 11, 496 (2018) [doi:10.3390/en11030496](https://doi.org/10.3390/en11030496)
- **A. Funke, M. Tomasi-Morgano, N. Dahmen, H. Leibold**, Experimental Comparison of Two Bench Scale Units for Fast and Intermediate Pyrolysis, *J. Anal. Appl. Pyrolysis* 124, 504 (2017) [doi:10.1016/j.jaap.2016.12.033](https://doi.org/10.1016/j.jaap.2016.12.033)
- **A. Funke, E. Henrich, N. Dahmen, J. Sauer**, Dimensional analysis of auger type fast pyrolysis reactors, *Energy Technol.* 5, 119 (2017) [doi:10.1002/ente.201600095](https://doi.org/10.1002/ente.201600095)
- **A. Funke**, Fate of plant available nutrients during hydrothermal carbonization of digestate, *Chem. Ing. Tech.* 87, 1713 (2015) [doi:10.1002/cite.201400182](https://doi.org/10.1002/cite.201400182)