Dr.-Ing. Stefan Zunft *ORCID: 0000-0002-8499-3067*

Current positions
Head of the Division (acting) "Thermal Process Engineering" at Institute of Engineering Thermodynamics, DLR (since 2018)
Head of Research Area "Thermal Power Plant Components" at Institute of Engineering Thermodynamics, DLR (since 2006)

Previous position
Head of Research Area "Thermal Power Plant Components" at Institute of Engineering Thermodynamics, DLR (2000-2002)
Research scientist, DLR-Institute of Technical Thermodynamics, Stuttgart, Germany (since 1991)

Scientific degree
Dr.-Ing. (PhD) in Mechnical Engineering, University of Stuttgart (2002)

Recent research topics	High-temperature thermal energy storage, Adiabatic compressed air energy storage (CAES), Thermal power plants, Numerical modeling of energy processes
Awards, honors, memberships	ETIP-SNET Working Group 2 "Storage technologies and sector interfaces" VDI (Association of German Engineers) expert committee "Energy Storage" ProcessNet Working Group "Thermal Energy Storage"

Publications/Patents (5 most important)

- **P. Bartsch, S. Zunft,** Granular flow around the horizontal tubes of a particle heat exchanger: DEM-simulation and experimental validation, *Solar Energy* (2019) doi:10.1016/j.solener.2019.01.086
- **P. Bartsch, S. Zunft,** Numerical investigation of dense granular flow around horizontal tubes: Qualification of CFD model with validated DEM model. *Solar Energy* (2019). doi:10.1016/j.solener.2019.01.087
- **J. Haunstetter, V. Dreißigacker, S. Zunft,** Ceramic high temperature plate fin heat exchanger: Experimental investigation under high temperatures and pressures, *Applied Thermal Engineering* (2019), 151, Seiten 364-372. doi:10.1016/j.applthermaleng.2019.02.015
- **T. Baumann**, **S. Zunft**, Properties of Granular Materials as Heat Transfer and Storage Medium in CSP application, *Solar Energy Materials and Solar Cells* 143 (2015) 38-47, doi:10.1016/j.solmat.2015.06.037
- M. Finkenrath, **S. Zunft,** et al.**,** System and method for reducing moisture in a compressed air energy storage system**,** **(**Application granted 2015) *European Patent* EP2494170B, *International Patent* WO: 2011059594