

Novel device to measure electrical transport properties at high temperatures

Robin Werner defended his doctoral thesis

Congratulations!

Robin Werner defended his doctoral thesis about “Development of a high-temperature measuring device for the simultaneous determination of electrical conductivity, Hall constant and Seebeck coefficient” (German original title: “*Die Entwicklung eines Hochtemperatur-Kombimessgeräts zur simultanen Bestimmung der elektrischen Leitfähigkeit, der Hall-Konstante und des Seebeck-Koeffizienten*”) on Thursday, May 2nd, 2024.

Dr. Werner's work was developed in close collaboration with the project partner Linseis Messgeräte GmbH, Selb, as part of a publicly funded project.

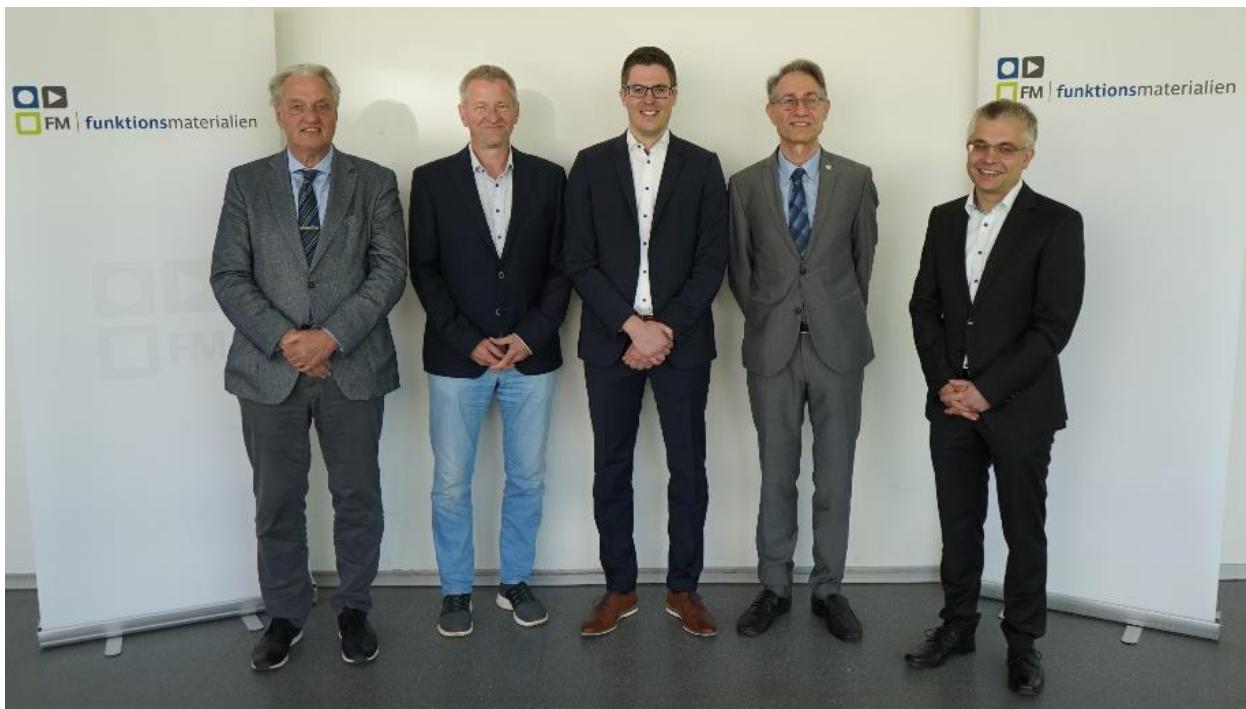
Special thanks to Prof. Jens Müller, TU Ilmenau for his support as the second examiner!

Dr. Werner already published several parts of his thesis in peer-reviewed journals (examples):

R. Werner, J. Kita, M. Gollner, F. Linseis, R. Moos, Gauge to simultaneously determine the electrical conductivity, the Hall constant, and the Seebeck coefficient up to 800 °C, *Journal of Sensors and Sensor Systems*, **12**, 69-84 (2023), doi: [10.5194/jsss-12-69-2023](https://doi.org/10.5194/jsss-12-69-2023)

R. Werner, J.S. Matejka, D. Schönauer-Kamin, R. Moos, From Thermoelectric Powder Directly to Thermoelectric Generators: Flexible Bi₂Te₃ Films on Polymer Sheets Prepared by the Powder Aerosol Deposition Method at Room Temperature, *Energy Technology*, **10**, 2101091 (2022), doi: [10.1002/ente.202101091](https://doi.org/10.1002/ente.202101091)

R. Werner, J. Kita, M. Gollner, F. Linseis, R. Moos, Novel, low-cost device to simultaneously measure the electrical conductivity and the Hall coefficient from room temperature up to 600 °C, *Journal of Sensors and Sensor Systems*, **10**, 71-81 (2021), doi: [10.5194/jsss-10-71-2021](https://doi.org/10.5194/jsss-10-71-2021)



The evaluation board and the candidate.

From left to right: Prof. Brüggemann, Prof. Müller, Dr. Werner, Prof. Moos, and Prof. Schafföner