

**Current positions**

Head of the Department “Computational Electrochemistry” at DLR, Institute of Engineering Thermodynamics (since 2013)
Professor, University of Ulm, Germany (since 2012)
Head of Theory III at Helmholtz Institute Ulm

Previous positions (two selected)

Head of Group Complex Fluids at the Fraunhofer Institute for Industrial Mathematics (ITWM), Kaiserslautern, Germany.
Senior Scientist and Research Associate at Department of Physics, Johannes Gutenberg University, Mainz, Germany.

Scientific degree

Dr. rer. nat. (PhD) in Physics, Technical University of Munich, Germany (1991)
Dr. habil. in Theoretical Physics, Johannes Gutenberg Universität Mainz, Germany (1999)

Recent research topics

Electrochemical multiphysics modelling and microstructure simulation of batteries (Li, Metal-Sulfur, Metal-Air) and Fuel Cells (polymer electrolyte membrane)

Publications (5 most important)

- **A. Latz**, J. Zausch, Thermodynamic consistent transport theory of Li-ion batteries. *J. Power Sources*. 196, 3296–3302 (2011) [doi:10.1016/j.jpowsour.2010.11.088](https://doi.org/10.1016/j.jpowsour.2010.11.088)
- **A. Latz**, J. Zausch, Thermodynamic derivation of a Butler-Volmer model for intercalation in Li-ion batteries. *Electrochim. Acta*. 110, 358–362 (2013) [doi: 10.1016/j.electacta.2013.06.043](https://doi.org/10.1016/j.electacta.2013.06.043)
- **S. Hein**, **A. Latz**, Influence of local lithium metal deposition in 3D microstructures on local and global behavior of Lithium-ion batteries. *Electrochim. Acta*. 201, 342–365 (2016) [doi:10.1016/j.electacta.2016.01.220](https://doi.org/10.1016/j.electacta.2016.01.220)
- **A. Latz**, J. Zausch, Multiscale modeling of lithium ion batteries : thermal aspects. *Beilstein J. Nanotechnol.* 6, 987–1007 (2015) [doi:10.3762/bjnano.6.102](https://doi.org/10.3762/bjnano.6.102)
- **F. Single**, **B. Horstmann**, **A. Latz**, Revealing SEI Morphology: In-Depth Analysis of a Modeling Approach. *J. Electrochem. Soc.* 164, E3132–E3145 (2017) [doi:10.1149/2.0121711jes](https://doi.org/10.1149/2.0121711jes)