

CELEST Member Short Profil



Arnulf Latz

Arnulf Latz, since 2013, is Professor for Electrochemical Multiphysics Modeling at the University of Ulm, head of the department for Computational Electrochemistry at the German Aerospace Center (DLR) and PI at the Helmholtz Institute Ulm (HIU), where he is also member in the board of directors. From 2002 to 2012, he was group leader at the Fraunhofer Institute for Industrial Mathematics (ITWM) in Kaiserslautern. His academic research career in Theoretical Physics covered positions at the Technical University Munich, where he received his PhD, the Institute for Physical Science and Technology at the University of Maryland, College Park (USA), and the Johannes Gutenberg University, Mainz, where he received his habilitation in Theoretical Physics. Arnulf Latz is PI at the excellence cluster POLIS and is coordinating the Lithium ion research activities in CELEST.



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Research areas

Main research areas are modeling and simulation of lithium ion and Post-Lithium ion batteries from the nanometer to the cell scale, as well as a spatially resolved multiphysics cell modelling and simulation for fuel cells and electrolyzers. He developed with his coworkers at ITWM and DLR the first microstructure resolved simulation tool for electrochemical storage devices (BEST: Battery and Electrochemistry Simulation Tool).

Arnulf Latz @ DLR

https://www.dlr.de/tt/desktopdefault.aspx/tabid-4074/6449_read-27388/sortby-lastname/

Link HIU

<https://hiu-batteries.de/forschung/forschungsgruppen/electrochemical-multiphysics-modeling/>

Link lab equipment

Partners

