

CELEST Member Short Profile



Helmut Ehrenberg

Helmut Ehrenberg is Full Professor of Inorganic Chemistry (W3) at KIT since 2010 and the Head of the Institute for Applied Materials – Energy Storage Systems (IAM-ESS) since 2012. He is the Spokesperson of the Topic “Electrochemical Energy Storage” in the Program “Materials and Technology for the Energy Transition” of the Helmholtz Association (HGF) since 2018 and of the Cluster of Excellence “Energy Storage beyond Lithium” (POLiS) since 2019. He was the Co-director of the Center for Electrochemical Energy Storage in Karlsruhe and Ulm (CELEST) between 2018 and 2022 and is one of the Directors of the KIT Battery Technology Center (KIT-BaTeC) since 2018. Helmut Ehrenberg was awarded two HECTOR Teaching Awards of the HECTOR School of Engineering and Management and the Adolf-Messer Prize for Excellence in Teaching and Science. He also won the Max-von-Laue Award of the German Crystallographic Association. Helmut Ehrenberg was Member and Chair of Boards and Review Panels of the Institute-Laue-Langevin in Grenoble and the Heinz-Maier-Leibnitz Zentrum (MLZ). He was also Topic Speaker for Energy Sources and Conversion at the KIT Centre for Mobility Systems until 2020 and is one of the coordinators of the BMBF competence clusters “FestBatt” on solid-state batteries and “AQua” for analytics and quality management.



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Research areas

Synthesis and characterization of battery materials; Lifetime analysis of electrochemical energy storage devices; Development of *in operando* characterization techniques using synchrotron and neutron radiation.

Lab equipment

<https://www.iam.kit.edu/ess/254.php>

Helmut Ehrenberg @ IAM-ESS

https://www.iam.kit.edu/ess/english/21_143.php

Link IAM-ESS

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Link lab equipment

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