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Bachelor, Master, or PhD thesis

Thesis title

Selectivity in desalination batteries

Thesis description

This project aims at unravelling foundational knowledge regarding the selectivity of desalination battery electrodes towards specific ions. This is achieved via relation electrochemical insights with *operando* measurements of the structural and composition evolution via synchrotron scattering and spectroscopy methods. Furthermore, the project involves effort towards the rational selection of materials for high selectivity in terms of their thermodynamic and kinetic properties.

The project may involve travel to international user facilities such as DESY (Hamburg), SSRL (Stanford), APS (Chicago), and ESRF (Grenoble).

For more information please contact Prof. Dr. Hans-Georg Steinrück.

