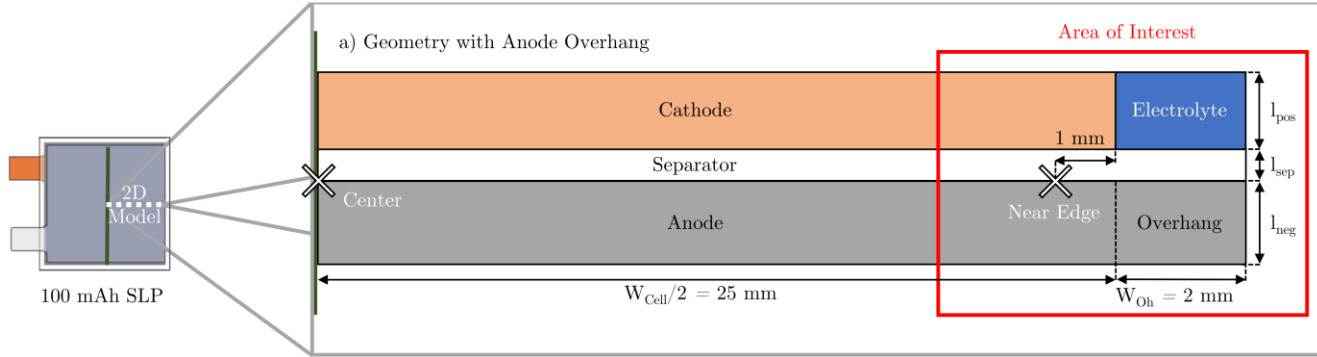
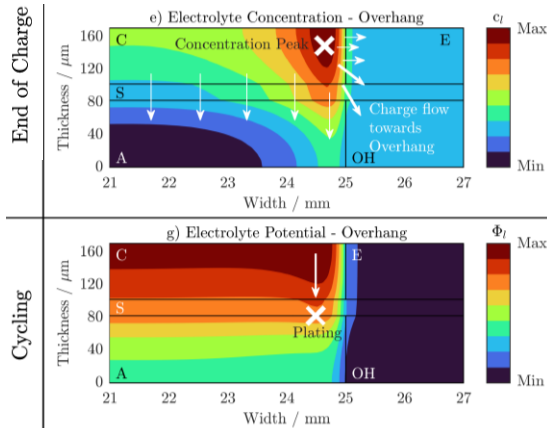


# Lithium Plating at the Cell Edge Induced by Anode Overhang during Cycling in Lithium-Ion Batteries: Part I. Modeling and Mechanism



## Goal

- describe and explain the inhomogeneous lithiation of an NMC/graphite cell
- to eventually explain risks of edge plating due to anode overhang (AO)



- AO causes peak in electrolyte concentration in the cathode domain
- Subsequent charge equalization in overhang area (left) promote edge plating especially over cycling (right)

