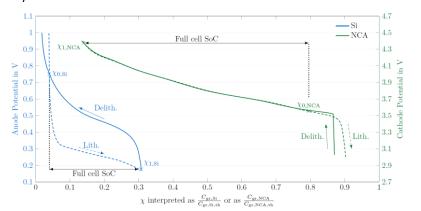
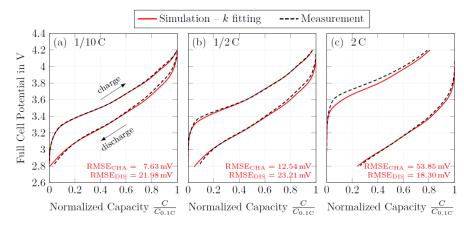
Modeling Silicon-Dominant Anodes: Parametrization, Discussion and

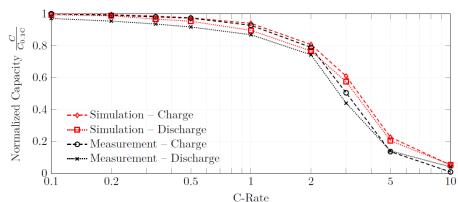


Validation of a Newman-Type Model

- p2D model for silicon-dominant anode (≈ 70wt% Si)
 - → Error between simulation and measurement is 21 mV RMSE and 1.3% capacity deviation at 1C current
- literature reveals that Si parameters span over several orders of magnitude
 → recommendations for further characterization are drawn
- Si electrode at 0% full cell SOC still holds a significant amount of lithium
 → OCV reconstruction process differs from conventional graphite-based systems







Durdel et al. 2023 Batteries 2023, 9(11), 558; https://doi.org/10.3390/batteries9110558