

Author: Jordi Cabana

Title: Multiscale reactions in battery electrodes: importance and methods of characterization

Even though batteries are conceptually simple systems, devices in the real world are extremely complex. In this presentation, I will discuss multiscale architectural and chemical complexity at the electrode level and their implications for device operation. I will present the development of synchrotron-based tools that provide insight into the distribution of species with very high resolution, while covering large areas of the electrode. Examples will cover different electrode reactivities of current interest in the battery community.