Contribution ID : **286** Type : **Oral**

Energy Dispersive X-ray Diffraction for In-Situ and Operando Characterization of Electrochemical Energy Storage Systems

Friday, 20 November 2020 10:00 (30)

Electrochemical energy storage systems can be challenging to characterize as they function far from equilibrium, dominated by kinetics. Heterogeniety of the ion distribution and phase transformations within the electrode can have a significant impact on the electrochemistry of the system, but is not discernable by conventional methods. The benefits of energy dispersive x-ray diffraction diffraction as a tool for for in-situ and operando characterization of electrochemical energy storage systems will be highlighted in this presentation, including examples from both conversion and insertion based electrodes.

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Session Classification : Session 11 - Advanced Materials and Hard Matter

Track Classification : Advanced Materials and Hard Matter