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Electrochemical Energy Storage - Insights from in operando Measurements

Monday, 14 March 2022 13:30 (1 hour)

The structural behavior of battery materials during cycling and fatigue must be studied under real operation conditions. This contribution reviews the capabilities and challenges of in operando measurements using X-rays, synchrotron or neutron radiation with a focus on diffraction and spectroscopy. Selected examples are discussed for Li-ion batteries and for electrochemical energy storage “beyond lithium”, like Na- and Mg-batteries.

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