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Neutron Diffraction studies on Lithiation dynamics of graphite anodes

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Lithium ion batteries most commonly use graphite as an anode material. Understanding the dynamical processes of the lithiation and delithiation play a crucial role in understanding performance, degradation of graphite based anodes. Our operando neutron diffraction of LiCoO2/graphite cells showed the occurrence of inhomogeneously delithiated graphite anodes.Phase coexistence of multiple stages is followed by relaxation into a single phase or a two phase mixture close to the mean lithium content.

Author: SEIDLMAYER, Stefan

Co-authors: WILHELM, Jörn; HOFMANN, Michael; JOSSEN, Andreas; GILLES, Ralph

Presenter: SEIDLMAYER, Stefan

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